AE Concrete - making your ideas concrete

AE Concrete has been manufacturing and supplying customers with standard and custom precast concrete utility infrastructure products since 1972.

AE Concrete is committed to manufacturing the highest quality products through the continuance of multiple Quality systems; ISO 9001, CPCI and CSA standards for precast products and fusion welding of steel.

Not only do we manufacture and stock many of the standard products in this catalogue, we also take pride in our ability to design and manufacture custom products to meet your specific project specifications by making your ideas concrete.

You can depend on AE Concrete for excellence in both manufacturing and customer service. Our expert Sales and Engineering Teams are available to assist you in selecting a precast solution or answer any questions regarding any products to best suit your requirements.

For your added convenience, Please contact a sales representative to obtain the most current Catalogue in an Adobe PDF format, or DWG format.

Tel: (604) 576-1808  
Email: info@aeconcrete.com  
Sales Office: 19060 – 54th Avenue, Surrey, BC V3S 8E5  
Shipping: 5353 – 192nd Street, Surrey, BC V3S 8E5
Catalogue Sections

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• Electrical / BC Hydro Listings
• Communication Listings
• Large Chamber Listings
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• Miscellaneous and Cast Iron Listings
## Service Box Listings

<table>
<thead>
<tr>
<th>Drawing Number</th>
<th>Item Description</th>
<th>Product Size (Length X Width X Depth in mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B937-00-0305-C</td>
<td>B937 Top / Extension 305 High</td>
<td>433 x 261 x 305 i.d.</td>
</tr>
<tr>
<td>B937-00-0150-C</td>
<td>B937 Top / Extension 152 High</td>
<td>433 x 261 x 152 i.d.</td>
</tr>
<tr>
<td>B937-MR-0305-C</td>
<td>B937 Maple Ridge Watermeter Bottom Section</td>
<td>433 x 261 x 305 i.d.</td>
</tr>
<tr>
<td>B937-ZZ-LIDS-C</td>
<td>B937 Cast Iron &amp; Steel Covers</td>
<td>457 x 285 x 44</td>
</tr>
<tr>
<td>B937-N3-LREC-C</td>
<td>B937 Box w/ Tamper Proof Lid Options</td>
<td>433 x 261 x 305 i.d.</td>
</tr>
<tr>
<td>T266-N3-ZZZZ-C</td>
<td>T266 Service Box - Complete</td>
<td>718 x 438 x 750 i.d.</td>
</tr>
<tr>
<td>T266-00-0150-C</td>
<td>T266 Top / Extension 150 High</td>
<td>712 x 432 x 200 i.d.</td>
</tr>
<tr>
<td>5686-N3-ZZZZ-C</td>
<td>5686 Service Box - Complete</td>
<td>860 x 560 x 870 i.d.</td>
</tr>
<tr>
<td>5686-25-0375-C</td>
<td>5686 Watermeter Service Box - Complete</td>
<td>860 x 560 x 870 i.d.</td>
</tr>
<tr>
<td>5686-N3-SUPR-C</td>
<td>5686 Superimposed Service Box - Complete</td>
<td>860 x 560 x 870 i.d.</td>
</tr>
<tr>
<td>5686-00-0150-C</td>
<td>5686 Top / Extension 150 High</td>
<td>860 x 560 x 180 i.d.</td>
</tr>
</tbody>
</table>
**General Notes:**
- Products manufactured in accordance with CSA A23.4
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

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**B937 Top / Extension 305 High**
(#37 & B-9 1/2)

Top/Ext: 105 lbs / 50 kgs

Scale: 1:10 mm
Rev: 28Jun08
Dwg#: B937-00-0305-C
General Notes:
- Products manufactured in accordance with CSA A23.4
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

B937 Top / Extension 152 High
(#37 & B-9 1/2)

Top/Ext: 60 lbs / 27 kgs

Scale: 1:10 mm
Rev: 28Jun08

Dwg#: B937-00-0150-C
General Notes:
- Products manufactured in accordance with CSA A23.4
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Site Installation, Backfilling & Suitability for Use is the responsibility of others
Cast Iron Grate

- Available plain or marked.
- Markings: Sewer, Electric Power or Water Meter.

Cast Iron Cover

- Available plain or marked.
- Markings: Sewer, Electric Power or Water Meter.

Cast Iron Cover c/w Hole for Remote Reader

- Available plain or marked as Water Meter.

Steel Checker Plate Cover

Painted Black, Boltdown, Steel Checker Plate Lid

Options: Galvanizing, Padlock Recess
Remote Reader Holes
Weld Marking e.g. "ELEC"

Option: Remote Reader Recess or Straight Thru Hole

Ground Hole Location on Underside

General Notes:
- Products manufactured in accordance with CSA A23.4
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

B937 Cast Iron & Steel Covers

Cast Iron: 27 lbs / 12 kgs
Steel Checker Plate: 30 lbs / 14 kgs

Scale: 1:10 mm  Rev: 28Jun08
Dwg#: B937-ZZ-LIDS-C
Painted Black, Boltdown, Steel Checker Plate Lids

Options: Galvanizing, Padlock Recess
Remote Reader Holes
Weld Marking e.g. “ELEC”

General Notes:
- Products manufactured in accordance with CSA A23.4
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others.

B937 Box w/ Tamper Proof Lid Options

<table>
<thead>
<tr>
<th>Lid</th>
<th>20 lbs / 10 kgs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Box</td>
<td>105 lbs / 50 kgs</td>
</tr>
<tr>
<td>Total</td>
<td>125 lbs / 60 kgs</td>
</tr>
</tbody>
</table>

Scale: 1:10 mm  Rev: 28Jun08
Painted Black, Boltdown, Steel Checker Plate Lids

Options: Galvanizing, Padlock Recess
Remote Reader Holes
Weld Marking e.g. "ELEC"

Plan View

Plan View - Lid

50sq Drain Hole

Lid

Top / Ext

Base

1 - 100 x 105 KO's Each Wall
2 - 70 x 130 KO's Each Wall

Side View

End View

General Notes:
- Products manufactured in accordance with CSA A23.4
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others.

T266 Service Box - Complete

Lid: 65 lbs / 30 kgs
Top/Ext: 140 lbs / 65 kgs
Base: 170 lbs / 30 kgs
Total: 515 lbs / 240 kgs

Scale: 1:15 mm
Rev: 28Jun08
Dwg#: T266-N3-ZZZZ-C
General Notes:
- Products manufactured in accordance with CSA A23.4
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

Plan View

Side View

End View

T266 Top / Extension 150 High

Top/Ext: 70 lbs / 35 kgs

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Scale: 1:15 mm
Rev: 28Jun08
Dwg#: T266-00-0150-C
Plan View - Lid

Lid

500 Ø Drain Hole in Center

Plan View

Plan View - Lid

Top / Ext

Side View

End View

Base

2 - 70 Ø K/O’s Each End

2 - 70 Ø K/O’s Each End

500 Ø Drain Hole in Center

General Notes:

- Products manufactured in accordance with CSA A23.4
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others.
Painted Black, Boltdown, Steel Checker Plate Lids

**Options:** Galvanizing, Padlock Recess
Remote Reader Holes
Weld Marking e.g. "ELEC"

---

### Plan View

- 50Ø Drain Hole in Center

### Plan View - Lid

---

### Side View

- 4 - 100Ø K/O's (1 per Wall)

### End View

- 2 - 70Ø K/O's Each End
- 2 - 130Ø K/O's Each End

---

**General Notes:**
- Products manufactured in accordance with CSA A23.4
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

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**5686 Watermeter Service Box - Complete**

<table>
<thead>
<tr>
<th></th>
<th>Lid: 100 lbs / 45 kgs</th>
<th>Pull Body: 195 lbs / 90 kgs</th>
<th>Base: 175 lbs / 80 kgs</th>
<th>Total: 665 lbs / 305 kgs</th>
</tr>
</thead>
</table>

**Scale:** 1:15 mm  
**Rev:** 28Jun08

**Dwg#: 5686-25-0375-C**
**General Notes:**
- Products manufactured in accordance with CSA A23.4
- Designed for Boulevard (Off-Road) Use - Occasional H-20 Loading
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

**5686 Superimposed Service Box - Complete**
*(w/ Frame & Cover)*

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight (lbs / kgs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lid</td>
<td>110 / 50</td>
</tr>
<tr>
<td>Frame</td>
<td>35 / 15</td>
</tr>
<tr>
<td>Top/Ext</td>
<td>195 / 90</td>
</tr>
<tr>
<td>Base</td>
<td>175 / 80</td>
</tr>
<tr>
<td>Total</td>
<td>710 / 325</td>
</tr>
</tbody>
</table>

Scale: 1:15 mm | Rev: 27Mar12

Dwg#: 5686-N3-SUPR-C
General Notes:
- Products manufactured in accordance with CSA A23.4
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

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5686 Top / Extension 150 High
Top/Ext: 130 lbs / 60 kgs
Scale: 1:15 mm
Rev: 25Jan06
Dwg#: 5686-00-0150-C
## Electrical / BC Hydro Listings

<table>
<thead>
<tr>
<th>Drawing Number</th>
<th>Item Description</th>
<th>Product Size (Length X Width X Depth in mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HJK1-20-ZZZZ-C</td>
<td>Single Phase JK Pad, BCH Stock# 400-0840</td>
<td>1200 x 700 x 200</td>
</tr>
<tr>
<td>HJK3-20-ZZZZ-C</td>
<td>3 Phase Low Profile Junction Kiosk, BCH Stock# 400-0850</td>
<td>1725 x 1250 x 920</td>
</tr>
<tr>
<td>HPAD-ZZ-1250-C</td>
<td>Transformer Single Phase LPT Pad, BCH Stock# 400-0852</td>
<td>1100 x 1300 x 280</td>
</tr>
<tr>
<td>HPAD-ZZ-1500-C</td>
<td>3 Phase Transformer (5 x 5) Pad, BCH Stock# 400-0853 For Transformers 500 KVA and Smaller</td>
<td>1680 x 1580 x 200</td>
</tr>
<tr>
<td>HPAD-ZZ-2140-C</td>
<td>F3-05 Transformer Pad, BCH Stock # 400-0854 For Transformers 750 KVA and Larger</td>
<td>2140 x 2140 x 200</td>
</tr>
<tr>
<td>HPAD-N2-3TO3-C</td>
<td>Conversion Pad: 3φ Kiosk to PMDFT, BCH Stock# 400-0861 2 – Concrete Lids</td>
<td>3680 x 1860 x 230</td>
</tr>
<tr>
<td>HPAD-N2-3TOS-C</td>
<td>Conversion Pad: 3φ Transformer Flotation Pad, BCH Stock# 400-0862 2 – Concrete Lids</td>
<td>1860 x 1860 x 240</td>
</tr>
<tr>
<td>HPAD-C0-1700-C</td>
<td>Conversion Pad: 555 J-Box to J-Kiosk, BCH Stock# 400-0956</td>
<td>1720 x 1720 x 220</td>
</tr>
<tr>
<td>HPAD-C0-LPTS-C</td>
<td>Conversion Pad: Single Phase Kiosk to LPTS, BCH Stock# 400-0860</td>
<td>1250 x 1250 x 270</td>
</tr>
<tr>
<td>HPAD-ZZ-LPTP-C</td>
<td>LPT Pyramid Pad, BCH Stock# 400-0851</td>
<td>1250 x 1010 x 760</td>
</tr>
<tr>
<td>SVHZ-N9-VIST-C</td>
<td>Switchgear Chamber Vista 4-Way, BCH Stock# 350-8535</td>
<td>2515 x 1825 x 1600 i.d.</td>
</tr>
<tr>
<td>SVHZ-N2-VIST5-C</td>
<td>Switchgear Chamber Vista 5-Way, BCH Stock# 96005803</td>
<td>3350 x 2130 x 1980 i.d.</td>
</tr>
<tr>
<td>SVHZ-20-SGMH-C</td>
<td>Switchgear Manhole Chamber, BCH Stock# 350-8540</td>
<td>3330 x 1830 x 2260 i.d.</td>
</tr>
<tr>
<td>HPAD-N9-SWIT-C</td>
<td>Switchgear Pad MK II, BCH Stock# 350-8537</td>
<td>2655 x 1900 x 900 i.d.</td>
</tr>
<tr>
<td>HPAD-52-5WAY-C</td>
<td>Switchgear Collar Vista 5-Way (25 kVA 3Ø), BCH Stock# 96016084</td>
<td>2700 x 2200 x 200</td>
</tr>
<tr>
<td>HPAD-52-VIST-C</td>
<td>Switchgear Collar Vista (25 kVA 3Ø), BCH Stock# 350-8536</td>
<td>2200 x 2200 x 200</td>
</tr>
<tr>
<td>HPAD-58-0025-C</td>
<td>Switchgear Collar 25 kV, BCH Stock# 350-8539</td>
<td>2200 x 2200 x 200</td>
</tr>
<tr>
<td>HPAD-58-0125-C</td>
<td>Switchgear Collar 12.5 kV BCH Stock# 350-8538</td>
<td>2200 x 2200 x 200</td>
</tr>
<tr>
<td>SVHZ-N1-4212-C</td>
<td>BCH 4212 C1 Thru Type Manhole Chamber, BCH Stock# 400-0478</td>
<td>3940 x 2120 x 1980 i.d.</td>
</tr>
<tr>
<td>SVHZ-N1-402122-C</td>
<td>BCH 402122 C1 Thru Type Dble Manhole Chamber, BCH Stock# 96022513</td>
<td>3940 x 2120 x 2200 i.d.</td>
</tr>
</tbody>
</table>
## Electrical / BC Hydro Listings

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<tbody>
<tr>
<td>SVHZ-N1-2122-C</td>
<td>BCH 2122 Mini Manhole Chamber, BCH Stock# 400-0479</td>
<td>2030 x 1210 x 1970 i.d.</td>
</tr>
<tr>
<td>SVZZ-2B-4040-C</td>
<td>4040 Service Vault, BCH Stock# 400-0450</td>
<td>755 x 755 x 765 i.d.</td>
</tr>
<tr>
<td>SVZZ-LIDS-4040-C</td>
<td>4040 Service Vault Covers, Concrete Collar w/ Steel Lids, Concrete Lids (3), Cast Iron Cover</td>
<td>Varies</td>
</tr>
<tr>
<td>SVZZ-C2-4040-C</td>
<td>4040 Service Vault Riser 150 High</td>
<td>1040 x 1040 x 150</td>
</tr>
<tr>
<td>SVHZ-20-1200-C</td>
<td>1.2m Electrical Vault &amp; Collar, BCH Stock# 400-0911</td>
<td>970 x 830 x 950 i.d.</td>
</tr>
<tr>
<td>SVHZ-20-1500-C</td>
<td>1.5m BCH Service Vault &amp; MH Entry Roof Slab, BCH Stock# 400-0955</td>
<td>1170 x 1070 x 1240 i.d.</td>
</tr>
<tr>
<td>SVHZ-C2-1500-C</td>
<td>1.5m BCH Riser 150 High, BCH Stock# 400-0957</td>
<td>1520 x 1520 x 150 i.d.</td>
</tr>
<tr>
<td>SVHZ-20-0332-C</td>
<td>332 BCH Service Vault, BCH Stock# 400-0998</td>
<td>840 x 840 x 920 i.d.</td>
</tr>
<tr>
<td>SVHZ-51-0332-C</td>
<td>332 BCH Collar &amp; Lid Assembly, BCH Stock# 400-0999</td>
<td>1160 x 1160 x 180</td>
</tr>
<tr>
<td>SVHZ-A1-0332-C</td>
<td>332 BCH MH Entry Roof Slab, BCH Stock# 400-0983</td>
<td>1160 x 1160 x 180</td>
</tr>
<tr>
<td>SVHZ-42-0332-C</td>
<td>332 BCH Riser 150 High, BCH Stock# 400-0989</td>
<td>1150 x 1150 x 150</td>
</tr>
<tr>
<td>SVHZ-20-0632-C</td>
<td>632 BCH Service Vault, BCH Stock # 400-0995</td>
<td>1655 x 780 x 895-935 i.d.</td>
</tr>
<tr>
<td>SVHZ-51-0632-C</td>
<td>632 BCH Collar &amp; Lid Assembly, BCH Stock # 400-0996</td>
<td>2065 x 1190 x 180</td>
</tr>
<tr>
<td>SVHZ-A1-0632-C</td>
<td>632 BCH MH Entry Roof Slab, BCH Stock# 400-0982</td>
<td>2007 x 1132 x 200</td>
</tr>
<tr>
<td>SVHZ-A1-R632-C</td>
<td>632 BCH MH Entry Riser Roof Slab, BCH Stock# 400-0997</td>
<td>2007 x 1132 x 570</td>
</tr>
<tr>
<td>SVHZ-42-0632-C</td>
<td>632 BCH Riser 150 High, BCH Stock# 400-0988</td>
<td>1965 x 1090 x 150</td>
</tr>
<tr>
<td>SVHZ-20-0832-C</td>
<td>832 BCH Junction Vault, BCH Stock# 400-0990</td>
<td>2530 x 790 x 870-935 i.d.</td>
</tr>
<tr>
<td>SVHZ-2A-F832-C</td>
<td>832 BCH Bottomless Junction Vault, BCH Stock# 96013341</td>
<td>2530 x 754 x 885 i.d.</td>
</tr>
<tr>
<td>SVHZ-51-0832-C</td>
<td>832 BCH Collar &amp; Lid Assembly, BCH Stock# 400-0993</td>
<td>2940 x 1150 x 190</td>
</tr>
<tr>
<td>SVHZ-42-0832-C</td>
<td>832 BCH Riser 150 High, BCH Stock# 400-0992</td>
<td>2840 x 1070 x 150</td>
</tr>
<tr>
<td>SVHZ-20-1232-C</td>
<td>1232 BCH Junction Vault, BCH Stock# 400-0915</td>
<td>3600 x 800 x 895-975 i.d.</td>
</tr>
</tbody>
</table>
## Electrical / BC Hydro Listings

<table>
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<th>Item Description</th>
<th>Product Size (Length X Width X Depth in mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SVHZ-51-1232-C</td>
<td>1232 BCH Collar &amp; Lid Assembly, BCH Stock# 400-0916</td>
<td>3880 x 1080 x 190</td>
</tr>
<tr>
<td>SVHZ-42-1232-C</td>
<td>1232 BCH Riser 150 High, BCH Stock# 400-0987</td>
<td>3865 x 1065 x 150</td>
</tr>
<tr>
<td>SVHZ-A4-ZZZZ-C</td>
<td>Pull Box Slab Covers, Type A &amp; B (for 632, 832, 1232)</td>
<td>230 x 1050 x 100</td>
</tr>
<tr>
<td>SVTZ-41-ZZZZ-C</td>
<td>Riser Ring 915Ø (100, 125, 150 High)</td>
<td>Varies</td>
</tr>
<tr>
<td>SVTZ-41-0300-C</td>
<td>Riser Ring 915Ø (300H), BCH Stock# 97000965</td>
<td>930Ø x 305 i.d.</td>
</tr>
<tr>
<td>SMBB-3E-0509-C</td>
<td>BCH Protection Post Bollard, BCH Stock# 97002788</td>
<td>450 x 450 x 2250</td>
</tr>
</tbody>
</table>
Plan View

13Ø Insert (Typ 4)

Side View

End View

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

Single Phase JK Pad
(BCH Dwg# ES54 D1-01, BCH Stk# 400-0840)

Pad: 840 lbs / 385 kgs

Dwg#: HJK1-20-ZZZZ-C

Scale: 1:15 mm
Rev: 28Jun08
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

3 Phase Low Profile Junction Kiosk
(BCH Stk# 400-0850)

Kiosk: 2,650 lbs / 1,210 kgs

Scale: 1:20 mm
Rev: 22Dec08

Dwg#: HJK3-20-ZZZZ-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

Transformer Single Phase LPT Pad
(BCH Dwg# ES54 F1-02, BCH Stk# 400-0852)

Pad: 1,910 lbs / 870 kgs

Scale: 1:20 mm
Rev: 28Jun08

Dwg#: HPAD-ZZ-1250-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

3 Phase Transformer (5x5) Pad
(BCH Dwg# ES54 F3-04, BCH Stk# 400-0853)

Pad: 2,570 lbs / 1,170 kgs

Scale: 1:20 mm
Rev: 28Jun08

Dwg#: HPAD-ZZ-1500-C
Plan View

2140 Sq

270

1220

380

25Ø Insert
(Typ 2)

13Ø Insert
(Typ 8)

200

Side View

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

F3-05 Transformer (2m x 2m) Pad
(BCH Dwg# ES54 F3-05, BCH Stk# 400-0854)

Pad: 4,750 lbs / 2,160 kgs

Scale: 1:20 mm
Rev: 28Jun08

Dwg#: HPAD-ZZ-2140-C
Plan View

Side View

Concrete Lid
(2 Required)

Plan View

End View

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

Conversion Pad: 3Ø Kiosk to PMDFT w/ Lids
(BCH Dwg# ES53 V3-02, BCH Stk# 400-0861)

Pad: 3,630 lbs / 1,650 kgs
Lids: 550 lbs / 250 kgs

Scale: 1:50 mm
Rev: 09Mar09
Dwg#: HPAD-N2-3TO3-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

Conversion Pad: 3Ø Transf. Floatation w/ Lids
(BCH Dwg# ES53 V3-02, BCH Stk# 400-0862)

Pad: 1,650 lbs / 750 kgs
Lid: 550 lbs / 250 kgs

Scale: 1:30 mm  Rev: 09Mar09
Dwg#: HPAD-N2-3TOS-C
General Notes:
- Product manufactured in accordance with CSA A23.4.
- Lift Points Provided (See Shop Drawing for Quantity & Locations).
- Site Installation, Backfilling & Suitability for Use is the responsibility of others.
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

Conversion Pad: Single Phase Kiosk to LPTS
(BCH Dwg# ES54 V1-01, BCH Stk# 400-0860)

Pad: 1,410 lbs / 640 kgs

Scale: 1:20 mm
Rev: 28Jun08

Dwg#: HPAD-C0-LPTS-C
Plan View

Side View

End View

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling & Suitability for Use is the responsibility of others
General Notes:
- Product manufactured in accordance with CSA A23.4.
- Lift Points Provided (See Shop Drawing for Quantity & Locations).
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59.
- Site Installation, Backfilling & Suitability for Use is the responsibility of others.
Plan View - Chamber

Plan View - Roof Slab

Side View

End View

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

Options:
- Galvanizing, Padlock Recess
- Remote Reader Holes
- Weld Marking e.g. "ELEC"

Painted Black, Boltdown, Steel Checker Plate Lids

Switchgear Chamber Vista 5-Way (332120)

(BCH Stk# 96005803)

Chamber: 26,350 lbs / 11,950 kgs
Roof Slab: 13,000 lbs / 5,900 kgs

Scale: 1:50 mm  Rev: 16Oct08

Dwg#: SVHZ-N2-VIST5-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Design and Provision of Thrust Blocks is the responsibility of others
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

Switchgear Manhole Chamber
(BCH Stk# 350-8540)

Top: 14,310 lbs / 6,500 kgs
Btm: 17,850 lbs / 8,100 kgs

Scale: 1:50 mm
Rev: 28Jun08
Dwg#: SVHZ-20-SGMH-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

Switchgear Pad MK II
(BCH Dwg# ES54 E2-02, BCH Stk# 350-8537)

Pad: 6,850 lbs / 3,110 kgs

Scale: 1:25 mm
Rev: 28Jun08

Dwg#: HPAD-N9-SWIT-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

Switchgear Collar Vista 5-Way (25 kVA 3Ø)
(BCH Stk# 96016084)

Collar: 5,950 lbs / 2,700 kgs
Scale: 1:30 mm  Rev: 01Apr14
Dwg#: HPAD-52-5WAY-C
Plan View

2200 Sq

370

13Ø Insert
(Typ 12)

500

1630

25 x 16 Groove
Around Perimeter

Side View

25 x 16 Groove
Around Perimeter

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

Switchgear Collar Vista (25 kVA 3Ø)
(BCH Stk# 350-8536)

Collar: 4,070 lbs / 1,850 kgs

Scale: 1:30 mm
Rev: 28Jun08

Dwg#: HPAD-52-VIST-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

Switchgear Collar 25 kV
(BCH Stk# 350-8539)
Collar: 1,310 lbs / 595 kgs

19060 - 54th Avenue
Surrey, B.C. V3S 8E5
Tel (604) 576-1808
info@aeconcrete.com

Dwg#: HPAD-58-0025-C
Scale: 1:30 mm
Rev: 10Jun15
Plan View

1400
2200 Sq
1620
13Ø Insert (Typ 4)

Side View

200
100
25 x 16 Groove (2 Sides Only)

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

Switchgear Collar 12.5 kV
(BCH Stk# 350-8538)

Collar: 2,470 lbs / 1,120 kgs
Scale: 1:30 mm
Rev: 28Jun08
Dwg#: HPAD-58-0125-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

4212 BCH C1 Thru Type Manhole Chamber
(BCH Stk# 400-0478)

Top: 20,120 lbs / 9,130 kgs
Btm: 18,200 lbs / 8,260 kgs

Scale: 1:50 mm  Rev: 28Jun08
Dwg#: SVHZ-N1-4212-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - CSA S6 & BC Hydro Design Standard ES54 U1-02 R3
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

402122 BCH C1 Thru Type Double Manhole Chamber
(BCH Stk# 96022513)

Top: 28,100 lbs / 12,750 kgs
Btm: 28,500 lbs / 12,930 kgs

Scale: 1:60 mm
Rev:
Dwg#: SVHZ-N1-402122-C
Plan View - Top

Plan View - Bottom

Side View

End View

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

BCH 2122 Mini Manhole Chamber
(BCH Stk# 400-0479)

Top: 6,510 lbs / 2,960 kgs
Btm: 6,640 lbs / 3,020 kgs

Scale: 1:30 mm
Rev: 28Jun08
Dwg#: SVHZ-N1-2122-C
Plan View

Side View

End View

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

4040 Service Vault
(Alternate to MoTH Dwg# SP635-1.3.3 & BCH Dwg# ES54 B2-02, Stock# 400-0450)

Box: 2,260 lbs / 1,030 kgs

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4040 Service Vault
(Alternate to MoTH Dwg# SP635-1.3.3 & BCH Dwg# ES54 B2-02, Stock# 400-0450)

Box: 2,260 lbs / 1,030 kgs

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19060 - 54th Avenue
Surrey, B.C. V3S 8E5
Tel (604) 576-1808
info@aeconcrete.com

Dwg#: SVZZ-2B-4040-C

Scale: 1:20 mm
Rev: 19Jan16
**Plan View**

820 Sq

Thru Opening

**Side View**

480 lbs / 218 kgs

(A) Boulevard (Off Road) Use Hatch

**Plan View**

1020

Lifting Cable

(Typ 2)

**End View**

(Typ 3 Required)

300 lbs / 136 kgs Each

(B) Boulevard (Off Road) Use - Direct Bury

**Plan View**

1020

150

Galvanized Steel Frame

Painted Black, Boltdown, Steel Checker Plate Lids

Options: Galvanizing, Padlock Recess
Remote Reader Holes
Weld Marking e.g. "ELEC"

Galvanized Steel Frame

**Plan View**

1020 Sq

7620

146

150

Ø

Thru Opening

(C) Roadway Use H-20 Traffic Loading

480 lbs / 218 kgs

580 lbs / 263 kgs

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

4040 Service Vault Covers

Scale: 1:20 mm  Rev: 28Jun08

Dwg#: SVHZ-LIDS-4040-C
General Notes:

- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

4040 Service Vault Riser 150 High

Riser: 260 lbs / 120 kgs

Scale: 1:20 mm

Rev: 28Jun08
Painted Black, Boltedown, Steel Checker Plate Lids

Options: Galvanizing, Padlock Recess
Remote Reader Holes
Weld Marking e.g. "ELEC"

Plan View - Vault

Plan View - Collar

Side View

End View

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

1.2m Electrical Vault & Collar
(Alternate for BCH Dwg. No. ES54 D2-01.01,BCH Stock # 400-0911)

Vault: 3,410 lbs / 1,550 kgs
Collar: 720 lbs / 330 kgs

Scale: 1:20 mm  Rev: 28Jun08

Dwg#: SVHZ-20-1200-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

1.5m BCH Service Vault w/ MH Entry Roof Slab
(BCH Stock# 400-0955)
Vault: 5,070 lbs / 2,300 kgs
Roof Slab: 1,610 lbs / 740 kgs

Scale: 1:25 mm
Rev: 28Jun08
Dwg#: SVHZ-20-1500-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

1.5m BCH Riser 150 High
(BCH Stock# 400-0957)
Riser: 520 lbs / 240 kgs

Scale: 1:20 mm  Rev: 28Jun08
Dwgf#: SVHZ-C2-1500-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

332 BCH Service Vault
(BCH Stock# 400-0998)

Vault: 2,190 lbs / 995 kgs

Scale: 1:20 mm
Rev: 28Jun08

Dwg#: SVHZ-20-0332-C
Galvanized Steel Inner Frame.

Aluminum Stamp Plate

Plan View

End View

Galvanized Steel Outer Frame.

Painted Black, Boltdown, Steel Checker Plate Lids

Options: Galvanizing, Padlock Recess
Remote Reader Holes
Weld Marking e.g. "ELEC"
Lwt Aluminum Lids

General Notes:
- Product manufactured in accordance with CSA A23.4.
- Lift Points Provided (See Shop Drawing for Quantity & Locations).
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading.
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59.
- Site Installation, Backfilling & Suitability for Use is the responsibility of others.

332 BCH Collar & Lid Assembly
(Alternate to: BCH Stock# 400-0999)

Collar & Lid: 930 lbs / 425 kgs

Scale: 1:20 mm
Rev: 28Jun08

Dwrg#: SVHZ-51-0332-C

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Surrey, B.C. V3S 8E5
Tel (604) 576-1808
info@aeconcrete.com
General Notes:
- Product manufactured in accordance with CSA A23.4.
- Lift Points Provided (See Shop Drawing for Quantity & Locations).
- Site Installation, Backfilling & Suitability for Use is the responsibility of others.
Plan View

1150 Sq

Side View

890 Sq
Thru Opening

150

Cable Support Channel
(Typ 1 Per Side)

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

332 BCH Riser 150 High
(BCH Stock# 400-0989)

Riser: 380 lbs /175 kgs
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Site Installation, Backfilling & Suitability for Use is the responsibility of others
Galvanized Steel Outer Frame

Options:
- Galvanizing
- Padlock Recess
- Remote Reader Holes
- Weld Marking e.g. "ELEC"
- Lwt Aluminum Lid

Painted Black, Boltdown, Steel Checker Plate Lids

Galvanized Steel Inner Frame

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

632 BCH Collar & Lid Assembly
(Alternate to: BCH Stock# 400-0996)

Collar & Lid: 1,470 lbs / 670 kgs
General Notes:
- Product manufactured in accordance with CSA A23.4.
- Lift Points Provided (See Shop Drawing for Quantity & Locations).
- Site Installation, Backfilling & Suitability for Use is the responsibility of others.

632 BCH MH Entry Roof Slab
(BCH Stock# 400-0982)

Roof Slab: 1,810 lbs / 825 kgs

Scale: 1:25 mm
Rev: 28Jun08
Dwg#: SVHZ-A1-0632-C
General Notes:
- Product manufactured in accordance with CSA A23.4.
- Lift Points Provided (See Shop Drawing for Quantity & Locations).
- Site Installation, Backfilling & Suitability for Use is the responsibility of others.

632 BCH MH Entry Riser Roof Slab
(BCH Stock# 400-0997)
Riser Roof Slab: 3,490 lbs / 1,585 kgs

Scale: 1:25 mm  Rev: 28Jun08
Dwg#: SVHZ-A1-R632-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

632 BCH Riser 150 High
(BCH Stock# 400-0988)

Riser: 520 lbs / 235 kgs
Cable Support Channel
(Typ 2 Per Wall)

50 x 100 Slot or 50Ø Hole
For Lifting

25Ø Pulling Insert
(Typ 4)

Plan View

Sump
Ø 50 Drain Hole

Cable Support Channel
(Typ 2 Per Wall)

50 x 100 Slot or 50Ø Hole
For Lifting

Side View

690x450
Weight Reducing Pan

End View

Ø 50 Drain Hole

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

832 BCH Junction Vault
(BCH Stock# 400-0998)

Vault: 4,190 lbs / 1,900 kgs

Scale: 1:25 mm

Rev: 28Jun08

Dwg#: SVHZ-20-0832-C
General Notes:

- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for BC Hydro Standard ES54 U1-02 R3 (2013) - Medium Duty
- Site Installation, Backfilling & Suitability for Use is the responsibility of others
- Installation of Dowels, Rebar & Pouring Floor By Others

832 Elec Vault - Bottomless w/ Footing

Vault: 6,900 lbs / 3,130 kgs
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others
**Plan View**

Cable Support Channel
(Typ 1 Per Wall)

**Side View**

**End View**

**General Notes:**
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

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832 BCH Riser 150 High
(BCH Stock# 400-0992)

Riser: 680 lbs / 310 kgs

Scale: 1:25 mm  Rev: 28Jun08

Dwg#: SVHZ-42-0832-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

1232 BCH Junction Vault
(BCH Stock# 400-0915)
Vault: 7,290 lbs / 3,310 kgs
Scale: 1:25 mm Rev: 28Jun08
Dwg#: SVHZ-20-1232-C
Plan View

1232 BCH Collar & Lid Assembly
(Alternate to: BCH Stock# 400-0916)

Collar & Lid: 4,255 lbs / 1,935 kgs

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

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SVHZ-51-1232-C

Scale: 1:25 mm
Rev: 28Jun08

BCH Stock# 400-0916
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

Plan View

Side View

End View

1232 BCH Riser 150 High
(BCH Stock# 400-0987)
Riser: 860 lbs / 390 kgs

Scale: 1:25 mm Rev: 28Jun08
Dwg#: SVHZ-42-1232-C
General Notes:
- Product manufactured in accordance with CSA A23.4.
- Lift Points Provided (See Shop Drawing for Quantity & Locations).
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading.
- Site Installation, Backfilling & Suitability for Use is the responsibility of others.

<table>
<thead>
<tr>
<th>Vault Type</th>
<th>Quantity Type A</th>
<th>Quantity Type B</th>
</tr>
</thead>
<tbody>
<tr>
<td>632</td>
<td>1</td>
<td>7</td>
</tr>
<tr>
<td>832</td>
<td>1</td>
<td>11</td>
</tr>
<tr>
<td>1232</td>
<td>1</td>
<td>15</td>
</tr>
</tbody>
</table>

632 / 832 / 1232 Pull Box Slab Covers
Type A: 180 lbs / 85 kgs
Type B: 205 lbs / 95 kgs

Scale: 1:25 mm  Rev: 28Jun08

Dwg#: SVHZ-A4-ZZZZ-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Site Installation, Backfilling & Suitability for Use is the responsibility of others
- Suitable for C23 / C23A Cast Iron Frame & Cover
- **Hook Size:** 10-8 (WLL= 3.15 T) Fits Recess
- **Maximum Lift:** 4 Risers w/ Lift Loops but lifting Voids Must align with 2nd Product otherwise Damage may Occur (min 1500 Rigging Length w/ 3 Lifter Bridle)
- Risers to be Set using Non-Shrink Grout by Others

<table>
<thead>
<tr>
<th>Riser Rings 915Ø</th>
<th>Scale: 1:15 mm</th>
<th>Rev: 02Dec16</th>
</tr>
</thead>
<tbody>
<tr>
<td>H = 100 (4“)</td>
<td>200 lbs / 95 kgs, 12 / Pallet</td>
<td></td>
</tr>
<tr>
<td>H = 127 (5“)</td>
<td>250 lbs / 115 kgs, 10 / Pallet</td>
<td></td>
</tr>
<tr>
<td>H = 152 (6“)</td>
<td>300 lbs / 140 kgs, 8 / Pallet</td>
<td></td>
</tr>
</tbody>
</table>

Dwgd: SVTZ-41-01ZZ-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Site Installation, Backfilling & Suitability for Use is the responsibility of others
- Suitable for C23 / C23A Cast Iron Frame & Cover
- Maximum Lift: 4 Risers w/ Lift Loops (min 2100 Rigging Length w/ 3 Lifter Bridle)
- Risers to be Set using Non-Shrink Grout by Others

Riser Ring 915Ø

H = 305 (12"): 680 lbs / 310 kgs, 4 / Pallet
General Notes:
- Product manufactured in accordance with CSA A23.4
- Site Installation, Backfilling & Suitability for Use is the responsibility of others
## Communications Listings

<table>
<thead>
<tr>
<th>Drawing Number</th>
<th>Item Description</th>
<th>Product Size (Length x Width x Depth in mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>T266-N3-ZZZZ-C</td>
<td>T266 Service Box - Complete</td>
<td>718 x 438 x 750 i.d.</td>
</tr>
<tr>
<td>T266-00-0150-C</td>
<td>T266 Top / Extension 150 High</td>
<td>712 x 432 x 200 i.d.</td>
</tr>
<tr>
<td>5686-N3-ZZZZ-C</td>
<td>5686 Service Box - Complete</td>
<td>860 x 560 x 870 i.d.</td>
</tr>
<tr>
<td>5686-N3-SUPR-C</td>
<td>5686 Superimposed Service Box - Complete</td>
<td>860 x 560 x 870 i.d.</td>
</tr>
<tr>
<td>5686-00-0150-C</td>
<td>5686 Top / Extension 150 High</td>
<td>860 x 560 x 180 i.d.</td>
</tr>
<tr>
<td>SVTZ-N1-0915-SBOX-C</td>
<td>Riser Ring 915Ø Service Box</td>
<td>940Ø x 1025 i.d.</td>
</tr>
<tr>
<td>SVTZ-NI-1200-C</td>
<td>1.2m Comm Vault &amp; Collar - Duct Terminator Style w/ Cable Rack</td>
<td>970 x 970 x 950 i.d.</td>
</tr>
<tr>
<td>SVTZ-N0-1200-C</td>
<td>1.2m Comm Vault &amp; Collar - K/O Style w/ Cable Rack</td>
<td>970 x 970 x 950 i.d.</td>
</tr>
<tr>
<td>SVTS-N0-1200-C</td>
<td>1.2m Comm Vault &amp; Collar - Split, K/O Style w/ Cable Rack</td>
<td>970 x 970 x 950 i.d.</td>
</tr>
<tr>
<td>SVTZ-C2-1200-C</td>
<td>1.2m Comm Riser 150 High</td>
<td>960 x 960 x 150 i.d.</td>
</tr>
<tr>
<td>SVTZ-A1-1200-C</td>
<td>1.2m Comm MH Entry Roof Slab (Fits C23-C23A Frame &amp; Cover)</td>
<td>1250 x 1250 x 260</td>
</tr>
<tr>
<td>SVTZ-NI-1500-C</td>
<td>1.5m Comm Vault &amp; Collar - Duct Terminator Style w/ Cable Rack</td>
<td>1170 x 1170 x 1230 i.d.</td>
</tr>
<tr>
<td>SVTZ-NH-1500-C</td>
<td>1.5m Comm Vault &amp; MH Entry Roof Slab - Duct Term w/ Cable Rack</td>
<td>1170 x 1170 x 1230 i.d.</td>
</tr>
<tr>
<td>SVTZ-N0-1500-C</td>
<td>1.5m Comm Vault &amp; Collar - K/O Style w/ Cable Rack</td>
<td>1170 x 1170 x 1230 i.d.</td>
</tr>
<tr>
<td>SVTS-N0-1500-C</td>
<td>1.5m Comm Vault &amp; Collar - Split K/O Style w/ Cable Rack</td>
<td>1170 x 1170 x 1230 i.d.</td>
</tr>
<tr>
<td>SVTZ-C2-1500-C</td>
<td>1.5m Comm Riser 150 High</td>
<td>1230 x 1230 x 150 i.d.</td>
</tr>
<tr>
<td>SVTZ-C3-1500-C</td>
<td>1.5m Comm Riser 450 High</td>
<td>1230 x 1230 x 450 i.d.</td>
</tr>
<tr>
<td>SVTZ-A1-1500-C</td>
<td>1.5m Comm MH Entry Roof Slab (Fits C23-C23A Frame &amp; Cover)</td>
<td>1530 x 1530 x 175</td>
</tr>
</tbody>
</table>
## Communications Listings

<table>
<thead>
<tr>
<th>Drawing Number</th>
<th>Item Description</th>
<th>Product Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>SVTZ-22-0832-C</td>
<td>832 Comm Vault - Duct Terminator Style</td>
<td>2530 x 754 x 885 i.d.</td>
</tr>
<tr>
<td>SVTZ-2A-0832-C</td>
<td>832 Comm Vault - Bottomless</td>
<td>2530 x 754 x 885 i.d.</td>
</tr>
<tr>
<td>SVZZ-55-0832-C</td>
<td>832 Comm Collar &amp; Lwt Lid Assembly</td>
<td>2940 x 1150 x 190</td>
</tr>
<tr>
<td>VC21-NL-2121-C</td>
<td>2121 Comm Vault &amp; Collar - Duct Terminator Style</td>
<td>2030 x 1210 x 1060 i.d.</td>
</tr>
<tr>
<td>VC21-NH-2122-C</td>
<td>2122 Comm Chamber - Duct Terminator Style</td>
<td>2030 x 1210 x 1970 i.d.</td>
</tr>
<tr>
<td>VC21-NH-2102-C</td>
<td>2102 Chamber PLMH TELUS</td>
<td>1925 x 1000 x 2020 i.d.</td>
</tr>
<tr>
<td>VC31-NH-PLMH-C</td>
<td>3152 Chamber PLMH TELUS</td>
<td>3000 x 1500 x 2000 i.d.</td>
</tr>
<tr>
<td>VC22-N9-2221-C</td>
<td>2221 Chamber &amp; Collar</td>
<td>1845 x 1845 x 2085</td>
</tr>
<tr>
<td>SVTZ-41-ZZZZ-C</td>
<td>Riser Ring 915Ø (100, 125, 150 High)</td>
<td>Varies</td>
</tr>
<tr>
<td>SVTZ-41-0300-C</td>
<td>Riser Ring 915Ø (300 High)</td>
<td>930Ø x 305H i.d.</td>
</tr>
<tr>
<td>0SAC-ZZ-6090-C</td>
<td>900 or 600 x MS^2 Pad</td>
<td>495 x 405 x 150</td>
</tr>
<tr>
<td>CATV-ZZ-AMPL-C</td>
<td>CATV A-100 Amplifier Pad</td>
<td>900 x 590 x 125</td>
</tr>
<tr>
<td>CATV-ZZ-FIBR-C</td>
<td>CATV F0-200 Fiber Optics Pad</td>
<td>915 x 915 x 150</td>
</tr>
<tr>
<td>CATV-ZZ-POWR-C</td>
<td>CATV P-300 Power Pad</td>
<td>860 x 610 x 125</td>
</tr>
<tr>
<td>CATV-ZZ-4828-C</td>
<td>CATV 4828 Power / Amplifier Pad</td>
<td>960 x 910 x 150</td>
</tr>
<tr>
<td>CATV-ZZ-POAM-C</td>
<td>CATV P/A-400 Power / Amplifier Pad</td>
<td>1015 x 620 x 150</td>
</tr>
<tr>
<td>CATV-ZZ-1024-C</td>
<td>CATV A-200 Pad (TV-1024)</td>
<td>1050 x 600 x 100</td>
</tr>
</tbody>
</table>
Painted Black, Boltedown, Steel Checker Plate Lids

Options: Galvanizing, Padlock Recess
Remote Reader Holes
Weld Marking e.g. "ELEC"

General Notes:
- Products manufactured in accordance with CSA A23.4
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others.

T266 Service Box - Complete

<table>
<thead>
<tr>
<th>Lid:</th>
<th>65 lbs / 30 kgs</th>
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</thead>
<tbody>
<tr>
<td>Top/Ext:</td>
<td>140 lbs / 65 kgs</td>
</tr>
<tr>
<td>Base:</td>
<td>170 lbs / 30 kgs</td>
</tr>
<tr>
<td>Total:</td>
<td>515 lbs / 240 kgs</td>
</tr>
</tbody>
</table>

Scale: 1:15 mm  Rev: 28Jun08  Dwg#: T266-N3-ZZZZ-C
General Notes:
- Products manufactured in accordance with CSA A23.4
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

Plan View

Side View

End View
Painted Black, Boltdown, Steel Checker Plate Lids

Options: Galvanizing, Padlock Recess
Remote Reader Holes
Weld Marking e.g. "ELEC"

Plan View

Plan View - Lid

Start View

End View

General Notes:
- Products manufactured in accordance with CSA A23.4
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others.

Lid: 100 lbs / 45 kgs
Top/Ext: 195 lbs / 90 kgs
Base: 175 lbs / 80 kgs Total: 665 lbs / 305 kgs

Scale: 1:15 mm Rev: 28Jun08

AE CONCRETE
19060 - 54th Avenue
Surrey, B.C. V3S 8E5
Tel (604) 576-1808
info@aeconcrete.com

5686-N3-ZZZZ-C
5686 Superimposed Service Box - Complete
(w/ Frame & Cover)

Lid: 110 lbs / 50 kgs
Frame: 35 lbs / 15 kgs
Top/Ext: 195 lbs / 90 kgs
Base: 175 lbs / 80 kgs
Total: 710 lbs / 325 kgs

Scale: 1:15 mm
Rev: 27Mar12
Dwgd#: 5686-N3-SUPR-C

General Notes:
- Products manufactured in accordance with CSA A23.4
- Designed for Boulevard (Off-Road) Use - Occasional H-20 Loading
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

Painted Black, Boltedown, Steel Checker Plate Lids
Options: Galvanizing, Padlock Recess
Remote Reader Holes
Weld Marking e.g. "ELEC"

Plan View
Steel Frame & Lid

Plan View
Note: Concrete Perimeter to be Cast-in Place by Others
2-10M Rebar Bands Supplied w/ Frame

Side View

End View

Base

Top / Ext

Frame & Lid

50Ø Drain Hole in Center

1270
1020
860
560
710 960
905
870

16
150

2 - 70Ø K/O's Each End
2 - 70Ø K/O's Each End

2 - 130Ø K/O's Each End

2 - 10M K/O's Each End

Painted Black, Boltedown, Steel Checker Plate Lids
Options: Galvanizing, Padlock Recess
Remote Reader Holes
Weld Marking e.g. "ELEC"
General Notes:

- Products manufactured in accordance with CSA A23.4
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Site Installation, Backfilling & Suitability for Use is the responsibility of others
Plan View

C-23 Cast Iron Frame & Cover

Finished Grade

Additional Risers Available (100, 125, 150H) to Achieve Required Bury Depth

Duct Openings to be Cut out by Contractor as Detailed Maximum 2 Openings on Each Side of the Box (3 Ducts per Opening) are Allowed to be Terminated (Total 6-100mmØ Ducts Each Side)

915Ø Riser Ring x 150H (Dwg# SVTZ-41-01ZZ)
Only use 150H Risers Above & Below Duct Locations. Maximum 400x120H Duct Entries as shown, Minimum 600 Horizontal or 180 Vertical Off-Set between Adjacent Duct Entries
*Do NOT Cut Rebar Loop*

Install 10M Dowels Vertically in Lifter Voids for Additional Connection (Typ 3 to Suit Hgt) (By Others) Fully Grout All Joints Between MH Rings, Lifter Voids & Duct Entries

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Traffic Use - CL-625 Traffic Loading
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

Circular Riser Ring Service Box

915Ø Riser Base (Floor): 720 lbs
915Ø Riser Ring (150H): 300 lbs
C-23 Frame & Cover: 560 lbs

Scale: 1:20 mm
Rev:
Dwg#: SVTZ-N1-0915-SBOX-C
Painted Black, Boltdown, Steel Checker Plate Lids

Options: Galvanizing, Padlock Recess
Remote Reader Holes
Weld Marking e.g. "ELEC"

Plan View - Vault

Plan View - Collar

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others
Painted Black, Boltdown, Steel Checker Plate Lids

Options: Galvanizing, Padlock Recess
Remote Reader Holes
Weld Marking e.g. "ELEC"

Plan View - Vault

Plan View - Collar

Side View

End View

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

1.2m Comm Vault & Collar - Split

Vault: 3,700 lbs / 1,680 kgs
Collar: 720 lbs / 330 kgs

Scale: 1:20 mm | Rev: 18Jul17

Dwg#: SVTS-N0-1200-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

1.2m Comm Riser 150 High
Riser: 460 lbs / 210 kgs

19060 - 54th Avenue
Surrey, B.C. V3S 8E5
Tel (604) 576-1808
info@aeconcrete.com

Dwg#: SVTZ-C2-1200-C
C-23 / C-23A
Cast Iron Frame and Cover.

Plan View

1250 Sq

900Ø

Side View

146

260

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

1.2m Comm MH Entry Roof Slab
Roof Slab: 1,030 lbs / 470 kgs

Scale: 1:20 mm
Rev: 28Jun08
Dwg#: SVTZ-A1-1200-C
Painted Black, Boltdown, Steel Checker Plate Lids

**Options:** Galvanizing, Padlock Recess
Remote Reader Holes
Weld Marking e.g. "ELEC"

---

**Plan View - Vault**

- 25Ø Pulling Insert (Typ 4)
- Sump

**Plan View - Collar**

- Galvanized Steel Frame

**Side View**

- 100Ø DB2 Duct Terminators (Typ 16)

**End View**

- Cable Support Channel (Typ 2 Per End)

---

**General Notes:**

- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

---

**1.5m Comm Vault & Collar - Duct Terminators**

Vault: 5,640 lbs / 2,560 kgs
Collar: 930 lbs / 430 kgs

Scale: 1:25 mm  Rev: 28Jun08

Dwgf#: SVTZ-NI-1500-C

---
Plan View - Vault

Plan View - Roof Slab
(Roadway use - H-20 Traffic Rated)

General Notes:
· Lifting loops cast in.
· Cement to CAN / CSA A5-93 Portland Cement.
· Reinforcing Steel to CSA G-30.18-M92 Grade 400.
· Site installation and backfilling are the responsibility of others.
· Minimum concrete strength 30 MPa @ 28 Days.

1.5m Comm Vault & MH Roof Slab - Duct Terminators
Vault: 5,660 lbs / 2,750 kgs
Roof Slab: 1,650 lbs / 750 kgs

Dwg#: SVTZ-NH-1500-C
Painted Black, Boltdown, Steel Checker Plate Lids

Options: Galvanizing, Padlock Recess
Remote Reader Holes
Weld Marking e.g. "ELEC"

Plan View - Vault

Plan View - Collar

Side View

End View

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

1.5m Comm Vault & Collar - K/O

Vault: 5,500 lbs / 2,500 kgs
Collar: 930 lbs / 430 kgs

Scale: 1:25 mm
Rev: 28Jun08

Dwg#: SVTZ-N0-1500-C
Painted Black, Boltdown, Steel Checker Plate Lids

Options: Galvanizing, Padlock Recess
Remote Reader Holes
Weld Marking e.g. "ELEC"

Plan View - Vault

Plan View - Collar

Side View

End View

Cable Support Channel (Typ 2 Per End)

Cable Racking (Typ 4)

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

1.5m Comm Vault & Collar - Split

Vault: 5,500 lbs / 2,500 kgs
Collar: 930 lbs / 430 kgs

Scale: 1:25 mm
Rev: 28Jun08
Dwg#: SVTS-N0-1500-C

19060 - 54th Avenue
Surrey, B.C. V3S 8E5
Tel (604) 576-1808
info@aecomcrete.com
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

1.5m Comm Riser 150 High

Riser: 520 lbs / 240 kgs
Plan View

1530 Sq

1230 Sq

Side View

450

General Notes:

- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

1.5m Comm Riser 450 High

Riser: 1,960 lbs / 890 kgs

Scale: 1:20 mm

Rev: 28Jun08

Dwgf#: SVTZ-C3-1500-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

1.5m Comm MH Entry Roof Slab

Roof Slab: 1,650 lbs / 750 kgs

Scale: 1:20 mm
Rev: 28Jun08
Dwg#: SVTZ-A1-1500-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

832 Comm Vault - Duct Terminators
Vault: 5,830 lbs / 2,650 kgs

Scale: 1:25 mm
Rev: 28Jun08
Dwg#: SVTZ-22-0832-C
Plan View

Cover Support Channel
(Typ 2 Per Side)

Side View

Weight Reducing Pan

End View

100Ø DB2
Duct Terminators
(Typ 8)

832 Comm Vault - Bottomless

Vault: 4,000 lbs / 1,815 kgs

Scale: 1:25 mm

Rev: 28Jun08

Dwg#: SVTZ-2A-0832-C

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Site Installation, Backfilling & Suitability for Use is the responsibility of others
General Notes:

- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others
Painted Black, Boltdown, Steel Checker Plate Lids

Options: Galvanizing, Padlock Recess
Remote Reader Holes
Weld Marking e.g. "ELEC"

Plan View - Vault

Plan View - Collar

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

2121 Comm Vault & Collar - Duct Terminators

Vault: 6,850 lbs / 3,110 kgs
Collar: 2,370 lbs / 1,080 kgs
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

2122 Comm Chamber - Duct Terminators
Top: 6,640 lbs / 3,020 kgs
Btm: 6,850 lbs / 3,110 kgs

Scale: 1:40 mm
Rev: 28Jun08
Dwg#: VC21-NH-2122-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

2102 Chamber PLMH TELUS
Top: 5,840 lbs / 2,650 kgs
Btm: 6,770 lbs / 3,070 kgs

Scale: 1:40 mm  Rev: 28Jun08  Dwg#: VC21-NH-2102-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

3152 Chamber PLMH TELUS

Top: 10,990 lbs / 4,990 kgs
Btm: 11,480 lbs / 5,210 kgs

Scale: 1:50 mm
Rev: 28Jun08
Dwg#: VC31-NH-PLMH-C
Painted Black, Boltdown, Steel Checker Plate Lids

Options: Galvanizing, Padlock Recess
Remote Reader Holes
Weld Marking e.g. “ELEC”

Plan View - Chamber

Plan View - Collar

Side View

End View

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Design and Provision of Thrust Blocks is the responsibility of others
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

2221 Chamber & Collar

Chamber: 22,990 lbs / 10,430 kgs
Collar: 3,390 lbs / 1,540 kgs

Scale: 1:50mm  Rev: 28Jun08
Dwg#: VC22-N9-2221-C
Plan View

Side View

General Notes:
- Product manufactured in accordance with CSA A23.4
- Site Installation, Backfilling & Suitability for Use is the responsibility of others
- Suitable for C23 / C23A Cast Iron Frame & Cover
- Hook Size: 10-8 (WLL= 3.15 T) Fits Recess
- Maximum Lift: 4 Risers w/ Lift Loops but lifting Voids Must align with 2nd Product otherwise Damage may Occur
  (min 1500 Rigging Length w/ 3 Lifter Bridle)
- Risers to be Set using Non-Shrink Grout by Others

Riser Rings 915Ø

H = 100 (4") : 200 lbs / 95 kgs, 12 / Pallet
H = 127 (5") : 250 lbs / 115 kgs, 10 / Pallet
H = 152 (6") : 300 lbs / 140 kgs, 8 / Pallet

Scale: 1:15 mm  Rev: 02Dec16
Dwg#: SVTZ-41-01ZZ-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Site Installation, Backfilling & Suitability for Use is the responsibility of others
- Suitable for C23 / C23A Cast Iron Frame & Cover
- Maximum Lift: 4 Risers w/ Lift Loops (min 2100 Rigging Length w/ 3 Lifter Bridle)
- Risers to be Set using Non-Shrink Grout by Others

Riser Ring 915Ø

H = 305 (12") : 680 lbs / 310 kgs, 4 / Pallet

Scale: 1:20 mm Rev: 17Feb17
Dwg#: SVTZ-41-0300-C
General Notes:
- Product manufactured in accordance with CSA A23.4.
- Lift Points Provided (See Shop Drawing for Quantity & Locations).
- Site Installation, Backfilling & Suitability for Use is the responsibility of others.

900 or 600 MS^2 TEL Pad
(TEL Stock# SA-100058)

Pad: 150 lbs / 70 kgs

Scale: 1:8 mm
Rev: 28Jun08
Dwg#: OSAC-ZZ-6090-C
Plan View

Side View

End View

General Notes:
- Product manufactured in accordance with CSA A23.4.
- Lift Points Provided (See Shop Drawing for Quantity & Locations).
- Reliance TV-1016 CATV Closure Supplied by Others.
- Site Installation, Backfilling & Suitability for Use is the responsibility of others.
Plan View

10Ø Insert
For Cabinet Installation
(Typ 8)

Side View

End View

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling & Suitability for Use is the responsibility of others
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

Plan View

13Ø Mounting Insert (Typ 4)

Side View

End View

CATV P-300 Power Pad

Pad: 270 lbs / 130 kgs

Scale: 1:15 mm  Rev: 28Jun08

Dwg#: CATV-ZZ-POWR-C
Plan View

13Ø Mounting Insert (Typ 4)

Side View

End View

General Notes:

⋅ Product manufactured in accordance with CSA A23.4
⋅ Lift Points Provided (See Shop Drawing for Quantity & Locations)
⋅ Site Installation, Backfilling & Suitability for Use is the responsibility of others

CATV 4828 Power / Amplifier Pad

Pad: 670 lbs / 305 kgs

Scale: 1:15 mm

Rev: 28Oct14

Dwg#: CATV-ZZ-4828-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- For Cabinets: SPE-2048, SPE-4818, Rhino R4818, & Alpha UPE-3
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

CATV P/A-400 Power / Amplifier Pad

Pad: 480 lbs / 220 kgs

Scale: 1:15 mm
Rev: 28Jun08
Dwg#: CATV-ZZ-POAM-C
End View

Side View

Plan View

10Ø Insert
For Cabinet Installation
(Typ 4)

General Notes:
- Product manufactured in accordance with CSA A23.4.
- Lift Points Provided (See Shop Drawing for Quantity & Locations).
- Reliance TV-1024 CATV Closure Supplied by Others.
- Site Installation, Backfilling & Suitability for Use is the responsibility of others.

CATV A-200 Pad (TV - 1024)

Pad: 280 lbs / 130 kgs

19060 - 54th Avenue
Surrey, B.C. V3S 8E5
Tel (604) 576-1808
info@aeconcrete.com

Dwg#: CATV-ZZ-1024-C
# Chambers

<table>
<thead>
<tr>
<th>Drawing Number</th>
<th>Item Description</th>
<th>Product Size (Length x Width x Depth in mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VC21-20-2121-C</td>
<td>2121 Vault w/ Lid Assembly</td>
<td>2030 x 1210 x 1060 i.d.</td>
</tr>
<tr>
<td>VC21-25-2121-C</td>
<td>2121 Watermeter Vault w/ Lid Assembly</td>
<td>2030 x 1210 x 1060 i.d.</td>
</tr>
<tr>
<td>VC21-MH-2121-C</td>
<td>2121 Vault w/ MH Entry Roof Slab</td>
<td>2030 x 1210 x 1060 i.d.</td>
</tr>
<tr>
<td>VC21-20-2122-C</td>
<td>2122 Chamber</td>
<td>2030 x 1210 x 1970 i.d.</td>
</tr>
<tr>
<td>VC21-N9-2122-C</td>
<td>2122 Chamber w/ Opening for 2121 Roof Slab / Collar</td>
<td>2030 x 1210 x 1970 i.d.</td>
</tr>
<tr>
<td>VC31-20-3151-C</td>
<td>3151 Vault w/ MH Entry Roof Slab</td>
<td>3000 x 1500 x 1100 i.d.</td>
</tr>
<tr>
<td>VC31-25-3151-C</td>
<td>3151 Watermeter Vault w/ Steel Lid Assembly</td>
<td>3000 x 1500 x 1100 i.d.</td>
</tr>
<tr>
<td>VC31-20-ZZZZ-C</td>
<td>3152 Chamber</td>
<td>3000 x 1500 x 2000 i.d.</td>
</tr>
<tr>
<td>VC31-20-2121-C</td>
<td>3152 Chamber w/ Opening for 2121 Roof Slab / Collar</td>
<td>3000 x 1500 x 2000 i.d.</td>
</tr>
<tr>
<td>VC31-20-12BU-C</td>
<td>3152 Chamber, Burnaby Standard w/ Hatch Entry</td>
<td>3000 x 1500 x 2000 i.d.</td>
</tr>
<tr>
<td>VC31-20-09BU-C</td>
<td>3152 Chamber, Burnaby Standard w/ MH Entry</td>
<td>3000 x 1500 x 2000 i.d.</td>
</tr>
<tr>
<td>VC33-20-ZZZZ-C</td>
<td>331822 Chamber</td>
<td>3330 x 1830 x 2260 i.d.</td>
</tr>
<tr>
<td>VC33-20-UBC-C</td>
<td>331822 Chamber, UBC Custom Power or Comm</td>
<td>3330 x 1830 x 2270 i.d.</td>
</tr>
<tr>
<td>VC42-20-1000-C</td>
<td>4211 Chamber w/ Roof Slab</td>
<td>3940 x 2120 x 1980 i.d.</td>
</tr>
<tr>
<td>VC42-20-ZZZZ-C</td>
<td>4212 Chamber (402120)</td>
<td>3940 x 2120 x 1980 i.d.</td>
</tr>
<tr>
<td>VC42-20-2121-C</td>
<td>4212 Chamber (402120) w/ Opening for 2121 Roof Slab / Collar</td>
<td>3940 x 2120 x 1980 i.d.</td>
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<td>VC42-20-0832-C</td>
<td>4212 Chamber (402120) w/ Opening for 832 Collar</td>
<td>3940 x 2120 x 1980 i.d.</td>
</tr>
<tr>
<td>VC40-20-2500-C</td>
<td>402125 Chamber</td>
<td>3940 x 2120 x 2500 i.d.</td>
</tr>
<tr>
<td>VC40-20-3000-C</td>
<td>402130 Chamber</td>
<td>3940 x 2120 x 3000 i.d.</td>
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</table>
# Chambers

<table>
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<tr>
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<th>Product Size (Length x Width x Depth in mm)</th>
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<td>472125 Chamber</td>
<td>4700 x 2125 x 2500 i.d.</td>
</tr>
<tr>
<td>VC47-20-3000-C</td>
<td>472130 Chamber</td>
<td>4700 x 2125 x 3000 i.d.</td>
</tr>
<tr>
<td>VC47-20-3030-C</td>
<td>473030 Chamber</td>
<td>4700 x 3050 x 3000 i.d.</td>
</tr>
<tr>
<td>VC15-20-DEEP-C</td>
<td>121220 Vault</td>
<td>1200 x 1200 x 2000 i.d.</td>
</tr>
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<td>VC18-MH-ZZZZ-C</td>
<td>181810 Chamber</td>
<td>1780 x 1780 x 1200 i.d.</td>
</tr>
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<td>VC18-20-ZZZZ-C</td>
<td>1818 Chamber</td>
<td>1780 x 1780 x 2410 i.d.</td>
</tr>
<tr>
<td>VC22-N9-2221-C</td>
<td>2221 Chamber &amp; Collar</td>
<td>1845 x 1845 x 2085 i.d.</td>
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<td>VC22-20-2221-C</td>
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<tr>
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<td>2221 Chamber w/ MH Entry Riser Roof Slab</td>
<td>1845 x 1845 x 2085 i.d.</td>
</tr>
<tr>
<td>VC22-DP-2221-C</td>
<td>2221 Chamber w/ MH Entry Riser Roof Slab (Heavy Load Design)</td>
<td>1845 x 1845 x 2085 i.d.</td>
</tr>
<tr>
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<td>251815 Firemeter Chamber w/ MH Entry Roof Slab</td>
<td>2515 x 1825 x 1600 i.d.</td>
</tr>
<tr>
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<td>332120 Meter Chamber w/ MH Entry Roof Slab</td>
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<td>VC30-25-ZZZZ-C</td>
<td>302610 Chamber w/ MH Entry Roof Slab</td>
<td>2970 x 2590 x 2000 i.d.</td>
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<tr>
<td>VC30-20-ZZZZ-C</td>
<td>302620 Chamber</td>
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</tr>
<tr>
<td>RSLA-MB-3050-C</td>
<td>Aluminum Ladder w/ Safety Post (Ceiling or Wall Mount)</td>
<td>Varies</td>
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<td>Standard Aluminum Ladder Rung</td>
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<td>Chamber Installation Template</td>
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Chambers

**Typical Hatches Available**

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<th>Drawing Number</th>
<th>Item Description</th>
<th>Product Size (Length X Width X Depth in mm)</th>
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<tbody>
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<td>SVZZ-51-0243-C</td>
<td>243 Collar &amp; Lid Assembly (1270 x 660 Thru)</td>
<td>1500 x 890 x 150</td>
</tr>
<tr>
<td>SVZZ-51-4040-C</td>
<td>4040 Collar &amp; Lid Assembly (820 Sq Thru)</td>
<td>1040 x 1040 x 150</td>
</tr>
<tr>
<td>SVZZ-51-1200-C</td>
<td>1.2m Collar &amp; Lid Assembly (956 Sq Thru)</td>
<td>1200 x 1200 x 150</td>
</tr>
<tr>
<td>SVZZ-51-1500-C</td>
<td>1.5m Collar &amp; Lid Assembly (1234 Sq Thru)</td>
<td>1520 x 1520 x 150</td>
</tr>
<tr>
<td>VC17-AA-ZZZZ-C</td>
<td>1.7m Collar &amp; Custom Hatch Cast In (Up to 1220 Sq Thru)</td>
<td>1720 x 1720 x 175</td>
</tr>
<tr>
<td>VC21-51-2121-C</td>
<td>2121 Collar &amp; Lid Assembly (1700 x 800 Thru)</td>
<td>2295 x 1490 x 200</td>
</tr>
<tr>
<td>SVZZ-55-0832-C</td>
<td>832 Comm Collar &amp; Lwt Lid Assembly (2570 x 800 Thru)</td>
<td>2940 x 1150 x 190</td>
</tr>
<tr>
<td>VC22-51-2221-C</td>
<td>2221 Collar &amp; Lid Assembly (1500 Sq Thru)</td>
<td>2226 x 2226 x 203</td>
</tr>
</tbody>
</table>

**Note:** If you cannot find the chamber size you require, please call the Sales Office to discuss modifications or design/build options.

Custom openings are available upon request.

All Chambers are available with the following options:
- Xypex Waterproofing Admixture for Concrete
- Interior White Coating - Improves Lighting
- Exterior Black Damp-proofing
- Cable Support Channels & Racking
- Knock-Outs, Duct Terminators, Duct Banks or Pipe Sleeves
- Inserts
- Pulling Irons
- Custom Openings & Hatches

**Chamber Design:** H-20 Traffic Load Rated - **Unless Otherwise Noted**

**Checker Plate Lid Design:** Boulevard Use H-20 Static Load Rat
Painted Black, Bolt-down, Steel Checker Plate Lids

Options: Galvanizing, Padlock Recess
Remote Reader Holes
Weld Marking e.g. "ELEC"

Plan View - Chamber

Plan View - Collar

Side View

End View

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Design and Provision of Thrust Blocks is the responsibility of others
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

2121 Vault w/ Lid Assembly

Chamber: 6,850 lbs / 3,110 kgs
Collar: 2,370 lbs / 1,080 kgs

Scale: 1:40 mm  Rev: 28Jun08
Dwg#: VC21-20-2121-C
Painted Black, Boltdown, Steel Checker Plate Lids

**Options:** Galvanizing, Padlock Recess
Remote Reader Holes
Weld Marking e.g. "ELEC"

---

**Plan View - Chamber**

**Plan View - Collar**

**Side View**

**End View**

---

**General Notes:**
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Design and Provision of Thrust Blocks is the responsibility of others
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

---

**2121 Watermeter Vault w/ Lid Assembly**

Chamber: 6,850 lbs / 3,110 kgs
Collar: 2,370 lbs / 1,080 kgs

Scale: 1:40 mm  Rev: 28Jun08

Dwg#: VC21-25-2121-C
Opening Sized & Positioned to Suit

Plan View - Chamber

Plan View - Roof Slab

Cast Iron Frame & Cover to Suit Opening

Side View

End View

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Design and Provision of Thrust Blocks is the responsibility of others
- Site Installation, Backfilling & Suitability for Use is the responsibility of others
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Design and Provision of Thrust Blocks is the responsibility of others
- Site Installation, Backfilling & Suitability for Use is the responsibility of others
2121 Collar
Painted Black, Boltdown, Steel Checker Plate Lids
Options: Galvanizing, Padlock Recess, Remote Reader Holes,
Weld Marking e.g. "ELEC"

OR

2121 Roof Slab Customizations Available:
For Hatch Frame Deeper than 100mm
& or Heavy Traffic Applications up to 915x1835 Thru Opening
(Subject to Hatch Type)

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Pedestrian or Roadway Use - H-20 Traffic Loading
- Design and Provision of Thrust Blocks is the responsibility of others
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

2122 Chamber w/ Opening for 2121 Roof Slab
Top: 5,200 lbs / 2,360 kgs
Btm: 8,000 lbs / 3,630 kgs

AE CONCRETE
19060 - 54th Avenue
Surrey, B.C. V3S 8E5
Tel (604) 576-1808
info@aeconcrete.com

Scale: 1:40 mm
Rev: 05Jun17
Dwg#: VC21-N9-2122-C
Plan View - Chamber

Plan View - Roof Slab

Openings Sized & Positioned to Suit

Cast Iron Frame & Cover to Suit Opening

Side View

End View

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Design and Provision of Thrust Blocks is the responsibility of others
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

3151 Vault w/ MH Entry Roof Slab

Chamber: 11,430 lbs / 5,190 kgs
Roof Slab: 6,590 lbs / 2,990 kgs

Scale: 1:50 mm
Rev: 28Jun08
Dwg#: VC31-20-3151-C
Plan View - Chamber

Plan View - Roof Slab

Side View

End View

Painted Black, Bolt down, Steel Checker Plate Lids

Options: Galvanizing, Padlock Recess
Remote Reader Holes
Weld Marking e.g. "ELEC"

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Design and Provision of Thrust Blocks is the responsibility of others
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Design and Provision of Thrust Blocks is the responsibility of others
- Site Installation, Backfilling & Suitability for Use is the responsibility of others
2121 Collar
Painted Black, Boltdown, Steel Checker Plate Lids
Options: Galvanizing, Padlock Recess, Remote Reader Holes, Weld Marking e.g. "ELEC"

OR
2121 Roof Slab Customizations Available:
For Hatch Frame Deeper than 100mm & or Heavy Traffic Applications up to 915x1835 Thru Opening (Subject to Hatch Type)

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Pedestrian or Roadway Use - H-20 Traffic Loading
- Design and Provision of Thrust Blocks is the responsibility of others
- Site Installation, Backfilling & Suitability for Use is the responsibility of others
Plan View - Top

Plan View - Bottom

Side View

End View

Boulevard Use
1.2m Hatch
956 Sq Thru Opening

1500 x 254 x 300 Deep
Sump w/ Recess

1100
1225
1550

300

900

1200

3310

3000

1810

150

1500

General Notes:

- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Design and Provision of Thrust Blocks is the responsibility of others
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

Top: 13,700 lbs / 6,220 kgs
Bottom: 12,500 lbs / 5,660 kgs

Dwg#: VC31-20-12BU-C

Scale: 1:40 mm
Rev: 28Jun08

3152 Chamber - Burnaby Std w/ Hatch Entry

info@aeconcrete.com
(604) 576-1808
19060 - 54th Avenue
Surrey, B.C. V3S 8E5
Plan View - Top

Plan View - Bottom

SideView

End View

General Notes:
- Lift Cables Provided
- Cement to CSA A-3001 Portland Cement
- Reinforcing Steel to CSA G-30.18-M Grade 400
- Minimum Concrete Strength 30 MPa @ 28 Days
- Site Installation and Backfilling are the Responsibility of Others
- Design and Provision of Thrust Blocks is the Responsibility of Others
Openings Sized and Positioned to Suit

Plan View - Top

Plan View - Bottom

Side View

End View

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Design and Provision of Thrust Blocks is the responsibility of others
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

331822 Chamber

Top: 18,750 lbs / 8,500 kgs
Btm: 18,800 lbs / 8,550 kgs

Scale: 1:50 mm  Rev: 28Jun08
Dwg#: VC33-20-ZZZZ-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Design and Provision of Thrust Blocks is the responsibility of others
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

331822 Chamber - UBC Custom Power or Comm
Top: 17,000 lbs / 7,715 kgs
Btm: 16,000 lbs / 7,260 kgs

Scale: 1:50 mm
Rev: 25Nov02
Dwgf#: VC33-20-UBC-C
4211 Chamber w/ Roof Slab

Chamber: 19,000 lbs / 9,030 kg  
Roof Slab: 13,890 lbs / 6,310 kgs

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Design and Provision of Thrust Blocks is the responsibility of others
- Site Installation, Backfilling & Suitability for Use is the responsibility of others
Openings Sized & Positioned to Suit

Plan View - Top

Plan View - Bottom

Side View

End View

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Design and Provision of Thrust Blocks is the responsibility of others
- Site Installation, Backfilling & Suitability for Use is the responsibility of others
2121 Collar
Painted Black, Boltdown, Steel Checker Plate Lids
Options: Galvanizing, Padlock Recess, Remote Reader Holes,
Weld Marking e.g. "ELEC"

OR
2121 Roof Slab Customizations Available:
For Hatch Frame Deeper than 100mm
& or Heavy Traffic Applications up to 915x1835 Thru Opening
(Subject to Hatch Type)

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Pedestrian or Roadway Use - H-20 Traffic Loading
- Design and Provision of Thrust Blocks is the responsibility of others
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

4212 Chamber w/ Opening for 2121 Roof Slab
(402120)

Top: 23,900 lbs / 10,845 kgs
Btm: 21,200 lbs / 9,620 kgs

Scale: 1:50 mm
Rev: 28Jun08
Dwg#: VC42-20-2121-C
832 Collar
Painted Black, Boltdown, Steel Checker Plate Lids
Options: Galvanizing, Padlock Recess, Remote Reader Holes, Weld Marking e.g. "ELEC"

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Pedestrian or Roadway Use - H-20 Traffic Loading
- Design and Provision of Thrust Blocks is the responsibility of others
- Site Installation, Backfilling & Suitability for Use is the responsibility of others
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Design and Provision of Thrust Blocks is the responsibility of others
- Site Installation, Backfilling & Suitability for Use is the responsibility of others
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Design and Provision of Thrust Blocks is the responsibility of others
- Site Installation, Backfilling & Suitability for Use is the responsibility of others
Plan View - Top

Plan View - Bottom

Side View

End View

Opening Sized and Positioned to Suit

254 x 300 Deep
Full Width Sump w/ Recess

2485
2125
4700

180
1000
1450

1000
280
180

1000
1280

1280

General Notes:

- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Design and Provision of Thrust Blocks is the responsibility of others
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

4712 Chamber
(472120)

Top: 24,200 lbs / 11,000 kgs
Btm: 23,700 lbs / 10,300 kgs

Scale: 1:60 mm  Rev: 28Jun08
Dwg#: VC47-20-ZZZZ-C
Plan View - Top

Plan View - Bottom

Side View

End View

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Design and Provision of Thrust Blocks is the responsibility of others
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

472125 Chamber

Top: 27,000 lbs / 12,240 kgs
Btm: 25,300 lbs / 11,500 kgs

Scale: 1:60 mm  Rev: 28Jun08
Dwg#: VC47-20-2500-C
Plan View - Top

Plan View - Bottom

Side View

End View

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Design and Provision of Thrust Blocks is the responsibility of others
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

472130 Chamber

Top: 30,100 lbs / 13,700 kgs
Btm: 28,500 lbs / 12,900 kgs

Scale: 1:60 mm
Rev: 28Jun08

Dwg#: VC47-20-3000-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Design and Provision of Thrust Blocks is the responsibility of others
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

473030 Chamber

Top: 46,600 lbs / 21,140 kgs
Btm: 48,300 lbs / 21,910 kgs

Scale: 1:60 mm
Rev: 27May16
Dwg#: VC47-20-3030-C
Plan View

For Typical Lid options refer to Communication Section
a) 1.5m MH Entry Roof Slab Dwg# SVTZ-A1-1500-C
b) 1.5m Collar w/ Steel Lid Assy Dwg# SVTZ-NI-1500-C
c) or Other Customizations are available upon request

South Elevation

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

121220 Vault
(Custom 1.5m Deep Vault)

Vault: 13,950 lbs / 6,330 kgs
Roof Slab: 2,000 lbs / 910 kgs

Dwg#: VC15-20-DEEP
Plan View - Chamber

Plan View - Roof Slab

Side View

End View

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Design and Provision of Thrust Blocks is the responsibility of others
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

181812 Chamber

Roof Slab: 6,100 lbs / 2,770 kgs
Vault: 11,180 lbs / 5,080 kgs

Scale: 1:40 mm
Rev: 08May17
Dwg#: VC18-20-1200-C
Openings Sized & Positioned to Suit

Plan View - Top

Plan View - Bottom

Side View

End View

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Design and Provision of Thrust Blocks is the responsibility of others
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

181824 Chamber

Top: 10,670 lbs / 4,840 kgs
Btm: 11,180 lbs / 5,080 kgs

Scale: 1:40 mm
Rev: 08May17
Dwg#: VC18-20-ZZZZ-C
2221 Chamber w/ MH Entry Roof Slab

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Design and Provision of Thrust Blocks is the responsibility of others
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

Chamber: 23,000 lbs / 10,430 kgs
Roof Slab: 7,530 lbs / 3,420 kgs

Scale: 1:50 mm
Rev: 28Jun08
Dwg#: VC22-20-2221-C
2221 Chamber w/ MH Riser Roof Slab

Chamber: 23,000 lbs / 10,430 kgs
Roof Slab: 16,500 lbs / 7,480 kgs

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Design and Provision of Thrust Blocks is the responsibility of others
- Site Installation, Backfilling & Suitability for Use is the responsibility of others
Opening Sized and Positioned to Suit (Standard Opening & Riser Shown)

Plan View - Chamber

Plan View - Roof Slab

Side View

End View

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- **Heavy Wheel Load Design**: 125,000 lbs on 32"x32" Footprint
- Design and Provision of Thrust Blocks is the responsibility of others
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

2221 DP Chamber w/ MH Riser Roof Slab

Chamber: 33,550 lbs / 15,220 kgs
Roof Slab: 16,470 lbs / 7,480 kgs

Scale: 1:50 mm
Rev: 28Jun08

Dwg#: VC22-DP-2221-C
General Notes:

- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Design and Provision of Thrust Blocks is the responsibility of others
- Site Installation, Backfilling & Suitability for Use is the responsibility of others
Plan View - Chamber

Plan View - Roof Slab

Opening Sized and Positioned to Suit.

End View

Side View

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Design and Provision of Thrust Blocks is the responsibility of others
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

251820 Deep Firemeter Chamber

Chamber: 19,600 lbs / 8,880 kgs
Roof Slab: 8,240 lbs / 3,740 kgs

Dwg#: VCFI-20-DEEP-C

Scale: 1:40 mm
Rev: 28Jun08

19060 - 54th Avenue
Surrey, B.C. V3S 8E5
Tel (604) 576-1808
info@aeconcrete.com
General Notes:

- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Design and Provision of Thrust Blocks is the responsibility of others
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

332120 Meter Chamber

Chamber: 26,700 lbs / 12,100 kgs
Roof Slab: 11,800 lbs / 5,370 kgs

Scale: 1:50 mm  Rev: 28Jun08
Dwg#: VCMC-20-ZZZZ-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Design and Provision of Thrust Blocks is the responsibility of others
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

<table>
<thead>
<tr>
<th>Chamber</th>
<th>Roof Slab</th>
</tr>
</thead>
<tbody>
<tr>
<td>29,100 lbs / 13,200 kgs</td>
<td>12,100 lbs / 5,850 kgs</td>
</tr>
</tbody>
</table>
Openings Sized & Positioned to Suit

Sump (If Required) Sized & Positioned to Suit

Plan View - Top

Plan View - Bottom

Side View

End View

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Design and Provision of Thrust Blocks is the responsibility of others
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

302620 Chamber

Top: 20,900 lbs / 9,470 kgs
Btm: 20,000 lbs / 9,090 kgs

AE Concrete

19069 - 54th Avenue
Surrey, B.C. V3S 8E5
Tel (604) 576-1808
info@aeconcrete.com

Scale: 1:50 mm
Rev: 28Jun08

Dwg#: VC30-20-ZZZZ-C
Painted Black, Boltdown, Steel Checker Plate Lids

**Options:**
- Galvanizing, Padlock Recess
- Remote Reader Holes
- Weld Marking e.g. "ELEC"

**Plan View**

**Side View**

**End View**

**General Notes:**
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Site Installation, Backfilling, Suitability for Use and Engineering Design Approval is the responsibility of others
Plan View

Side View

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

4040 Collar & Lid Assembly
Collar & Lid: 480 lbs / 220 kgs
Scale: 1:20 mm
Rev: 22Jul13
Dwg#: SVZZ-51-4040-C
General Notes:

- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Design and Provision of Thrust Blocks is the responsibility of others
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

1.2m Collar & Lid Assembly

Collar & Lid: 485 lbs / 220 kgs

Scale: 1:20 mm
Rev: 28Jun08
Dwg#: SVZZ-51-1200-C
Plan View

1520 Sq

Galvanized Frame

Painted Black, Boltdown, Steel Checker Plate Lids

Options: Galvanizing, Padlock Recess, Remote Reader Holes, Weld Marking e.g. "ELEC"

Side View

1234 Sq

Thru Opening

150

General Notes:

- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Design and Provision of Thrust Blocks is the responsibility of others
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

1.5m Collar & Lid Assembly

Collar & Lid: 930 lbs / 430 kgs

Scale: 1:20 mm
Rev: 16Jul15

Dwg#: SVZZ-51-1500-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

Customizations Available:
For Hatch Frame Deeper than 100mm & or Heavy Traffic Applications.

1.7m Collar w/ Hatch Cast In

- Roof Slab (Solid): 3,110 lbs / 1,420 kgs
- Roof Slab (w/ Opening): 1,500 lbs / 690 kgs

Scale: 1:20 mm
Rev: 28Jun08
Dwg#: VC17-AA-ZZZZ-C
General Notes:

- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Design and Provision of Thrust Blocks is the responsibility of others
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

Painted Black, Boltedown, Steel Checker Plate Lids
**Options:** Galvanizing, Padlock Recess Remote Reader Holes Weld Marking e.g. "ELEC"
Plan View

Options: Galvanizing, Padlock Recess, Remote Reader Holes, Weld Marking e.g. "ELEC"

Side View

End View

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

832 Comm Collar & Lwt Lid Assembly

Collar & Lid: 1,720 lbs / 790 kgs

Scale: 1:25 mm
Rev: 28Jun08

Dwg#: SVZZ-55-0832-C
Plan View

2226 Sq

Painted Black, Boltdown, Steel Checker Plate Lids

Options: Galvanizing, Padlock Recess Remote Reader Holes Weld Marking e.g. "ELEC"

Side View

1500 Sq Thru Opening

203

General Notes:

- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Design and Provision of Thrust Blocks is the responsibility of others
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

Collar & Lid Assembly

Collar & Lid: 3,150 lbs / 1,430 kgs

Scale: 1:30 mm Rev: 20Mar14

Dwg#: VC22-51-2221-C
**Ceiling Mount Brackets**
- Shipped Loose

**Wall Mount Brackets**
- Contractor Can Specify Custom Length
- Bracket can be Welded to Ladder at Specified Location
- Typically Shipped Loose
- MH Mount Brackets Available upon Request

**General Notes:**
- Meets or Exceeds CSA Grade 1 Heavy Duty, ANSI Type 1A & OSHA (WLL: 300 lbs)
- Standard Ladder Lengths are 3.0m, 3.66m, & 6.0m (10', 12', 20')

**Hardware Required to Install (Supplied & Installed by Others):**
- 1/2"Ø SS Bolts
- 1/2"Ø SS Hilti Anchors

**Installation Instructions:**
- Ladders Typically Supplied Over Length to allow for Risers
- Ladders over 3.66m Long are Supplied with an additional Center Support
- Cut Ladder to Length Ensuring Clearance to the Access Hatch or MH Casting
- Top Rung to be within 500mm of Finished Grade Elevation
- Top Brackets to be Mounted within Top 2 Rungs (203 from Top of Ladder)
- Manhole Mount Brackets Available Upon Request
- Install Foot Brackets to Ladder by Drilling and Bolting through Ladder Frame (1/2"Ø SS Bolt)
- Position Ladder & Mark Holes in the Ladder Frame for the Ceiling / Wall Brackets
- Drill Holes in Ladder Frame
- Install the Ceiling or Wall Mount Brackets to Ladder (1/2"Ø SS Bolts)
  1. Each (Typ 4 to 6)
- Place Ladder in Position & Hilti Bolt Brackets to Floor & Ceiling / Wall (1/2"Ø SS Hilti Anchors)
- Confirm that All Bolts are Tight, Ladder is Secure, Safety Post Operates Smoothly & doesn't Interfere with Access Cover

---

**Aluminum Ladder w/ Safety Post**

**Foot Brackets**
- Shipped Loose

**Wall Mount Brackets**
- Contractor Can Specify Custom Length
- Bracket can be Welded to Ladder at Specified Location
- Typically Shipped Loose
- MH Mount Brackets Available upon Request
Aluminum Ladder Rung

Rung: 0.75 lbs / 0.4 kgs

Scale: 1:4 mm
Rev: 28Jun08
Dwg#: VCLA-19AL-RUNG-C
Chamber Installation:

1. **This information is a guideline only** - Please ensure you comply with local safety codes and regulations.
   Locate and protect all above and below ground utilities prior to beginning installation.

2. Review project specifications for the excavation and to select the appropriate base material, thickness & compaction for the site location as approved by the Project Engineer. 
   (Typically 150-300mm Thick of 40mm minus Clear Aggregate Base)

3. Excavate for Chamber with reference to dimensions on the armtec shop drawings.
   For ease of installation, allow 300 to 600mm of Space on all sides of chamber walls.
   Allow adequate depth for base and bedding layers for any sump protrusions as well as risers and castings.
   Use shoring as required by WCB regulations.

4. Minimum 50mm thick Bedding Layer of 20mm Road Mulch suggested. Slope Bedding Material 0.5% to Sump End. Compact Bedding Layer for Perimeter of chamber footprint area only. *(See Sketch)*
   eg: Centre Area under chamber Not Compacted.

5. Double Check excavation depth to product assembled height, prior to placing bottom section.

6. Ensure Minimum Cable Length = 2 ½ times the Longest Distance Between Lift Points (a or b) or use spreader bar to lift vertically above lift points. Confirm distances for Each section.
   Place Bottom Section using the Lift Points detailed on the shop drawings.

7. Install components as required eg: Piping, Thrust Blocks Designed & Supplied by Others.

8. Install Joint Mastic in Perimeter Keyway.
   Ensure keyway is clear of all debris before applying. Butt joints (NOT overlap) & knead together.

9. Place Top Section, Ensuring Correct Keyway Alignment.

10. Apply Non-Shrink Grout to Inside & Outside of Chamber Joint.

11. Backfill around chamber evenly and in standard lifts to the required grade.
   **Note:** Contact armtec if the Depth of Bury increases by more than 300mm from the armtec Shop Drawings.
   Backfill should be of a good compacting material to prevent the occurrence of point loads.
   No voids should remain between the vault walls and native soil of excavation.
   All backfilling is the responsibility of the customer/contractor.

12. If storage Required prior to installation -
   Ensure Dunnage is placed across 4 corners, directly below the walls.
## Trenches

<table>
<thead>
<tr>
<th>Drawing Number</th>
<th>Item Description</th>
<th>Product Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRCH-20-1220-C</td>
<td>Concrete Trench w/ B-10 Cast Iron Grate</td>
<td>1220 x 90 x 100 i.d.</td>
</tr>
<tr>
<td>TRCH-20-0620-C</td>
<td>Custom Slot Drain w/ B-14C Grate</td>
<td>7660 x 130 x 450 i.d.</td>
</tr>
<tr>
<td>TRCH-92-B14-C</td>
<td>Slot Drain Grate (B-14C)</td>
<td>915 x 222 x 38</td>
</tr>
<tr>
<td>TRCH-20-1616-C</td>
<td>Concrete Trench</td>
<td>5775 x 390 x 400 i.d.</td>
</tr>
<tr>
<td>TRCH-20-0710-C</td>
<td>Concrete Trench</td>
<td>5995 x 750 x 1025 i.d.</td>
</tr>
<tr>
<td>TRCH-NA-1010-C</td>
<td>Concrete Trench 1010 (Flush Cover)</td>
<td>Varies</td>
</tr>
<tr>
<td>TRCH-NB-1010-C</td>
<td>Concrete Trench 1010 (Super Imposed Cover)</td>
<td>Varies</td>
</tr>
</tbody>
</table>
General Notes:
- Site Installation, Backfilling & Suitability for Use is the responsibility of others
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)

Concrete Trench w/ B-10 Cast Iron Grate

Trench: 170 lbs / 77 kgs
Grate: 32 lbs / 15 kgs
Total: 202 lbs / 92 kgs
Plan View

Side View

Section
Scale: 1:10

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

Custom Slot Drain

Drain: 9,700 lbs / 4,400 kgs
Scale: 1:50 mm
Rev: 28 Jun 2008
Dwg#: TRCH-20-0620-C

AE CONCRETE
19060 - 54th Avenue
Surrey, B.C. V3S 8E5
Tel (604) 576-1808
info@aeconcrete.com
Plan View

End View

Slot Drain Grate (B-14C)

Grate: 77 lbs / 35 kgs

Scale: 1:50 mm
Rev: 28Jun08

Dwg#: TRCH-92-B14C-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

Concrete Trench

Trench: 4,450 lbs / 2,025 kgs

Scale: 1:10

Lid Options:
- Roof Slabs, Steel Covers, or Grating
- Recessed or Top Mounted to Suit Loading
Plan View

Side View

Section

Lid Options:
- Roof Slabs, Steel Covers, or Grating
- Recessed or Top Mounted to Suit Loading

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

Concrete Trench

Trench: 13,000 lbs - 21,350 lbs / 5,900 kgs - 9,700 kgs

Scale: 1:30

1:50 mm Rev: 01May14

Dwg#: TRCH-20-0710-C
Lid Options:
- Roof Slabs, Steel Covers, or Grating
- Recessed or Top Mounted to Suit Loading

* Additional Widths Available
(610, 760, 1220, 1525, or to Suit)

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling & Suitability for Use is the responsibility of others
**General Notes:**
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Typically Designed for 300 psf (14.4 kpa) or H-20 Traffic Loading.
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

**Lid Options:**
- Roof Slabs, Steel Covers, or Grating
- Super Imposed or Flush to Suit Loading

**Concrete Trench 1010 (Super Imposed Cover)**

- Trench: Subject to Height & Width
- Cover: Subject to Height & Width

Scale: N.T.S.  |  Page: 1/1
---|---

Dwg#: TRCH-NB-1010-C
# Streetlight Base & Traffic Listings

<table>
<thead>
<tr>
<th>Drawing Number</th>
<th>Item Description</th>
<th>Product Size (Length X Width X Depth in mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SFR1-25-R197-3Z2Z-C</td>
<td>Footing Pedestal Base</td>
<td>350 sq x 1220</td>
</tr>
<tr>
<td>SFR1-25-R269-SERV-C</td>
<td>Footing Pedestal Service Base</td>
<td>550 sq x 1220</td>
</tr>
<tr>
<td>SS40-25-R197-3Z2Z-C</td>
<td>405 x 405 x 1220 High Square Base</td>
<td>405 sq x 1220</td>
</tr>
<tr>
<td>SS60-25-R269-SERV-C</td>
<td>610 x 610 x 1220 High Square Service Base</td>
<td>610 sq x 1220</td>
</tr>
<tr>
<td>SPC2-25-R197-3Z2Z-C</td>
<td>Pyramid Base</td>
<td>295 to 610 sq x 1220</td>
</tr>
<tr>
<td>SPC3-25-R269-SERV-C</td>
<td>Pyramid Service Base</td>
<td>410 to 750 sq x 1220</td>
</tr>
<tr>
<td>SPA1-25-R197-5Z1Z-C</td>
<td>Highway Application 1 Pyramid Base</td>
<td>500 to 770 sq x 930</td>
</tr>
<tr>
<td>SPA3-25-R197-5Z1Z-C</td>
<td>Highway Application 3 Pyramid Base</td>
<td>490 to 840 sq x 1250</td>
</tr>
<tr>
<td>SP18-25-R197-3Z2Z-C</td>
<td>1800 Pyramid Parking Lot Base</td>
<td>350 to 740 sq x 1800</td>
</tr>
<tr>
<td>SP21-25-R197-3Z2Z-C</td>
<td>2100 Pyramid Parking Lot Base</td>
<td>350 to 800 sq x 2100</td>
</tr>
<tr>
<td>SLMM-33-000P-C</td>
<td>MMCD Type P Controller Base</td>
<td>1220 x 760 x 900</td>
</tr>
<tr>
<td>SLSU-33-0900-C</td>
<td>Surrey Controller Base</td>
<td>910 x 760 x 880</td>
</tr>
<tr>
<td>SLNH-33-0900-C</td>
<td>MoT Controller Base (K/O Style)</td>
<td>1130 x 760 x 900</td>
</tr>
<tr>
<td>SRAB-25-F197-5Z1Z-C</td>
<td>MoT &amp; MMCD Type A Round Base</td>
<td>500Ø x 1200</td>
</tr>
<tr>
<td></td>
<td>MoT &amp; MMCD Type B Round Base</td>
<td>500Ø x 1500</td>
</tr>
<tr>
<td>SPC0-25-F197-5Z1Z-C</td>
<td>MoT Type C Pyramid Base</td>
<td>400 to 1000 sq x 1500</td>
</tr>
<tr>
<td>SPC0-25-F197-3Z2Z-C</td>
<td>MMCD Type C Pyramid Base</td>
<td>400 to 1000 sq x 1500</td>
</tr>
<tr>
<td>SPC1-25-F269-SERV-C</td>
<td>MMCD Type C1 Service Base</td>
<td>450 to 1000 sq x 1500</td>
</tr>
<tr>
<td>SPC2-25-F197-3Z2Z-C</td>
<td>MMCD Type C2 Base</td>
<td>295 to 610 sq x 1220</td>
</tr>
<tr>
<td>SPC3-25-F269-SERV-C</td>
<td>MMCD Type C3 Service Base</td>
<td>465 to 750 sq x 1220</td>
</tr>
</tbody>
</table>
### Streetlight Base & Traffic Listings

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<thead>
<tr>
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<th>Product Size (Length X Width X Depth in mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SFC4-25-F197-3Z2Z-C</td>
<td>MMCD Type C4 Base</td>
<td>450 sq x 1220</td>
</tr>
<tr>
<td>SFC5-25-F269-3Z2Z-C</td>
<td>MMCD Type C5 Service Base</td>
<td>450 sq x 1220</td>
</tr>
<tr>
<td>SPD2-32-F216-5Z1Z-C</td>
<td>MoT Type D2 Pyramid Base</td>
<td>400 to 1100 sq x 1800</td>
</tr>
<tr>
<td>SPE2-25-F197-5Z1Z-C</td>
<td>MoT &amp; MMCD Type E2 Pyramid Base</td>
<td>400 to 1100 sq x 1800</td>
</tr>
<tr>
<td>SPSF-25-D243-3Z2Z-C</td>
<td>MoT &amp; MMCD Type F2 &amp; S2 Pyramid Bases</td>
<td>500 to 1240 sq x 2100</td>
</tr>
<tr>
<td>SPL2-38-F276-5Z1Z-C</td>
<td>MoT &amp; MMCD Type L2 Pyramid Base</td>
<td>500 to 1300 sq x 2300</td>
</tr>
<tr>
<td>SRT1-25-F197-PZ1Z-C</td>
<td>MoT Sign Post Base - Type 1</td>
<td>300Ø x 600</td>
</tr>
<tr>
<td>SLFL-30-0400-C</td>
<td>MoT &amp; MMCD Post Mounted Flasher Base</td>
<td>300Ø x 400</td>
</tr>
<tr>
<td>SLCP-30-0450-C</td>
<td>CP Rail Base</td>
<td>845 x 290 x 1220</td>
</tr>
<tr>
<td>B937-00-0305-C</td>
<td>B937 Top / Extension 305 High</td>
<td>433 x 261 x 305 i.d.</td>
</tr>
<tr>
<td>B937-00-0150-C</td>
<td>B937 Top / Extension 152 High</td>
<td>433 x 261 x 152 i.d.</td>
</tr>
<tr>
<td>B937-ZZ-LIDS-C</td>
<td>B937 Cast Iron &amp; Steel Covers</td>
<td>457 x 285 x 44</td>
</tr>
<tr>
<td>B937-N3-LREC-C</td>
<td>B937 Box w/ Tamper Proof Lid Options</td>
<td>433 x 261 x 305 i.d.</td>
</tr>
<tr>
<td>T266-N3-ZZZZ-C</td>
<td>T266 Service Box - Complete</td>
<td>718 x 438 x 750 i.d.</td>
</tr>
<tr>
<td>T266-00-0150-C</td>
<td>T266 Top / Extension 150 High</td>
<td>712 x 432 x 200 i.d.</td>
</tr>
<tr>
<td>5686-68-MOTH-C</td>
<td>5686 MoT Pullbox c/w Base, Bottom, Top and Bolt Down Checker Plate Cover</td>
<td>860 x 560 x 870 i.d.</td>
</tr>
<tr>
<td>5686-00-0150-C</td>
<td>5686 Top / Extension 150 High</td>
<td>860 x 560 x 180 i.d.</td>
</tr>
<tr>
<td>SVZZ-2B-4040-C</td>
<td>4040 Service Vault</td>
<td>755 x 755 x 765 i.d.</td>
</tr>
<tr>
<td>SVZZ-LIDS-4040-C</td>
<td>4040 Service Vault Covers, Concrete Collar w/ Steel Lids, Concrete Lids (3), Cast Iron Cover</td>
<td>Varies</td>
</tr>
</tbody>
</table>
# Streetlight Base & Traffic Listings

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</tr>
</thead>
<tbody>
<tr>
<td>SVZZ-C2-4040-C</td>
<td>4040 Service Vault Riser 150 High</td>
<td>830 x 830 x 150 i.d.</td>
</tr>
<tr>
<td>SVHZ-2B-1200-C</td>
<td>1.2m Highways Medium Junction Vault w/ Collar</td>
<td>970 x 970 x 950 i.d.</td>
</tr>
<tr>
<td>SVVZ-2A-0243-C</td>
<td>243 MMCD Vault w/ Lid Assembly (Bottomless)</td>
<td>1220 x 610 x 960 i.d.</td>
</tr>
<tr>
<td>SVVZ-20-0243-C</td>
<td>243 Custom Vault w/ Collar and Lid Assembly</td>
<td>1220 x 610 x 965 i.d.</td>
</tr>
<tr>
<td>VC21-20-MOTH-C</td>
<td>2122 MoT Communications Vault</td>
<td>2030 x 1210 x 1970 i.d.</td>
</tr>
</tbody>
</table>
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling, Suitability for Use and Engineering Design Approval is the responsibility of others

Customizations Available:
- Bolt Size & Type
- Bolt Square (247 max)
- BCD (350 max)
- Duct Size
- Duct Quantity
- Duct Orientation
- Reinforcing

Footing Pedestal Base
Base: 2,590 lbs / 1,180 kgs
Scale: 1:20 mm
Rev: 22Jul13
Dwg#: SFR1-25-R197-3Z2Z-C
Footing Pedestal Service Base

Base: 3,760 lbs / 1,710 kgs

Customizations Available:
- Bolt Size & Type
- Bolt Square (389 max)
- BCD (550 max)
- Duct Size
- Duct Quantity
- Duct Orientation
- Reinforcing

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling, Suitability for Use and Engineering Design Approval is the responsibility of others
405 x 405 x 1220 High Square Base

Base: 1,110 lbs / 510 kgs

Scale: 1:20 mm
Rev: 22Jul13

Dwg#: SS40-25-R197-3Z2Z-C

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling, Suitability for Use and Engineering Design Approval is the responsibility of others

Customizations Available:
- Bolt Size & Type
- Bolt Square (247 max)
- BCD (350 max)
- Duct Size
- Duct Quantity
- Duct Orientation
- Reinforcing
**Plan View**

- 610 Sq
- 460 Sq
- 510 Sq
- 380 BCD
- V-Groove Drain Trough

**Side View**

- 25Ø x 915 Galvanized Rebar Bolts
- 269 Bolt Square
- 90
- 150
- 900
- 700
- 1220
- 50Ø PVC
- 32Ø PVC
- Optional 19Ø PVC for Ground Rod

**Customizations Available:**
- Bolt Size & Type
- Bolt Square (325 max)
- BCD (460 max)
- Duct Size
- Duct Quantity
- Duct Orientation
- Reinforcing

**General Notes:**
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling, Suitability for Use and Engineering Design Approval is the responsibility of others

**610 x 610 x 1220 High Square Service Base**

Base: 2,420 lbs / 1,100 kgs

Scale: 1:20 mm  Rev: 22Jul13

Dwg#: SS60-25-R269-SERV-C
Plan View

Side View

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling, Suitability for Use and
  Engineering Design Approval is the responsibility of others

Customizations Available:
- Bolt Size & Type
- Bolt Square (208 max)
- BCD (295 max)
- Duct Size
- Duct Quantity
- Duct Orientation
- Reinforcing

Pyramid Base

Base: 1,600 lbs / 730 kgs

Scale: 1:20 mm
Rev: 19Jul13

Dwgd#: SPC2-25-R197-3Z2Z-C
Plan View

- 760 Sq
- 410 Sq
- 465 Sq
- 380 BCD
- V-Groove
- Drain Trough

Side View

- 25Ø x 915 Galvanized Rebar Bolts
- Bolt Square 269
- 90
- 700
- 1220
- 32Ø PVC
- 50Ø PVC

Customizations Available:
- Bolt Size & Type
- Bolt Square (290 max)
- BCD (410 max)
- Duct Size
- Duct Quantity
- Duct Orientation
- Reinforcing

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling, Suitability for Use and Engineering Design Approval is the responsibility of others

Pyramid Service Base

Base: 2,500 lbs / 1,140 kgs

Scale: 1:20 mm
Rev: 15Aug13
Dwgf#: SPC3-25-R269-SERV-C
Plan View

- 500 Sq
- 770 Sq
- 540 Sq
- 279 BCD

V-Groove Drain Trough

Side View

- 250 x 915 Galvanized Rebar Bolts
- 50Ø PVC

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling, Suitability for Use and Engineering Design Approval is the responsibility of others

Customizations Available:
- Bolt Size & Type
- Bolt Square (354 max)
- BCD (500 max)
- Duct Size
- Duct Quantity
- Duct Orientation
- Reinforcing

Highway Application 1 Pyramid Base
Base: 2,220 lbs / 1,010 kgs

Scale: 1:20 mm
Rev: 22Jul13
Dwg#: SPA1-25-R197-5Z1Z-C
Plan View

- Bolt Square (346 max)
- BCD (490 max)
- Duct Size
- Duct Quantity
- Duct Orientation
- Reinforcing

Side View

Customizations Available:
- Bolt Size & Type
- Bolt Square (346 max)
- BCD (490 max)
- Duct Size
- Duct Quantity
- Duct Orientation
- Reinforcing
**Plan View**

- 740 Sq
- 350 Sq
- 410 Sq
- 279 BCD
- V-Groove Drain Trough

**Side View**

- Bolt Square 197
- 25Ø x 915 Galvanized Rebar Bolts
- 90
- 25
- 610 Exposed
- 1220
- 1800
- 32Ø PVC
- Optional 25Ø PVC for Ground Rod

---

**General Notes:**
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling, Suitability for Use and Engineering Design Approval is the responsibility of others

---

**1800 Pyramid Parking Lot Base**

Base: 3,380 lbs / 1,540 kgs

Scale: 1:20 mm
Rev: 22Jul13

Dwg#: SP18-25-R197-3Z2Z-C
**General Notes:**
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling, Suitability for Use and Engineering Design Approval is the responsibility of others

**Customizations Available:**
- Bolt Size & Type
- Bolt Square (247 max)
- BCD (350 max)
- Duct Size
- Duct Quantity
- Duct Orientation
- Reinforcing

---

**2100 Pyramid Parking Lot Base**

Base: 4,370 lbs / 1,990 kgs

Scale: 1:20 mm

Rev: 22Jul13

Dwg#: SP21-25-R197-3Z2Z-C
**General Notes:**
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling, Suitability for Use and Engineering Design Approval is the responsibility of others
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling, Suitability for Use and
  Engineering Design Approval is the responsibility of others

Surrey Controller Base

Base: 3,000 lbs / 1,370 kgs

Scale: 1:20 mm  Rev: 28Jun08
Dwg#: SLSU-33-0900-C
Each Opening is Covered with a min 25mm Skim Coat. Knock out Skim Coat with a Hammer to get Access to Appropriate Opening.

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling, Suitability for Use and Engineering Design Approval is the responsibility of others

MoT Controller Base (Type M & S Cabinet)
(MoT Dwg# SP635-1.1.38)

Base: 3,550 lbs / 1,620 kgs

Scale: 1:20 mm
Rev: 28Jun08
Dwg#: SLNH-33-0900-C
V-Groove Drain Trough

Base Type Imprinted at Edge of Concrete

Plan View

Bolt Square 279 BCD

Side View

25Ø x 915 Galvanized SAE 4140 Anchor Bolts

<table>
<thead>
<tr>
<th>Type</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>1200</td>
</tr>
<tr>
<td>B</td>
<td>1500</td>
</tr>
</tbody>
</table>

Customizations Available:
- Bolt Size & Type
- Bolt Square (220 max)
- BCD (310 max)
- Duct Size
- Duct Quantity
- Duct Orientation
- Reinforcing

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling, Suitability for Use and Engineering Design Approval is the responsibility of others

MoT & MMCD Type A & B Bases
(MoTH Dwg# SP635-1.1.2, MMCD Dwg# CE1.2)

Type A: 1,310 lbs / 600 kgs
Type B: 1,640 lbs / 750 kgs

Scale: 1:20 mm  Rev: 15Aug13
Dwg#: SRAB-25-F197-5Z1Z-C
**Plan View**

- 1000 Sq
- 400 Sq
- 450 Sq
- 279 BCD
- V-Groove Drain Trough
- Base Type Imprinted in Corner

**Side View**

- Bolt Square 250 x 915
- Galvanized SAE 4140 Anchor Bolts
- 50Ø PVC
- 700
- 1500
- 80
- 30

**General Notes:**
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling, Suitability for Use and Engineering Design Approval is the responsibility of others

**MoT Type C Pyramid Base**
(MoTH Dwg# SP635-1.1.3)

- Base: 4,540 lbs / 2,060 kgs
- Scale: 1:20 mm
- Rev: 03Feb09
- Dwg#: SPC0-25-F197-5Z1Z-C

**Customizations Available:**
- Bolt Size & Type
- Bolt Square (283 max)
- BCD (400 max)
- Duct Size
- Duct Quantity
- Duct Orientation
- Reinforcing
Plan View

Side View

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling, Suitability for Use and Engineering Design Approval is the responsibility of others

MMCD Type C Pyramid Base
(MMCD Dwg# CE1.3 & CE 1.4)

Base: 4,565 lbs / 2,070 kgs

Customizations Available:
- Bolt Size & Type
- Bolt Square (283 max)
- BCD (400 max)
- Duct Size
- Duct Quantity
- Duct Orientation
- Reinforcing

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Scale: 1:20 mm  Rev: 22Jul13
Dwg#: SPC0-25-F197-3Z2Z-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling, Suitability for Use and Engineering Design Approval is the responsibility of others

Customizations Available:
- Bolt Size & Type
- Bolt Square (283 max)
- BCD (400 max)
- Duct Size
- Duct Quantity
- Duct Orientation
- Reinforcing

MMCD Type C1 Service Base
(MMCD Dwg# CE1.3 & CE 1.4)

Base: 4,550 lbs / 2,070 kgs

Scale: 1:20 mm
Rev: 22Jul13

Dwg#: SPC1-25-F269-SERV-C
Plan View

- V-Groove Drain Trough
- Bolt Square
- V Groove Drain Trough
- 295 Sq
- 610 Sq
- Base Type Imprinted in Corner
- Ø 279 BCD

Side View

- Bolt Square
- 25Ø x 915
- Galvanized SAE 4140 Anchor Bolts
- 25Ø x 915
- 25Ø x 915
- 80
- 25
- 700
- 1220
- 32Ø PVC

Customizations Available:
- Bolt Size & Type
- Bolt Square (209 max)
- BCD (295 max)
- Duct Size
- Duct Quantity
- Duct Orientation
- Reinforcing

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling, Suitability for Use and Engineering Design Approval is the responsibility of others

MMCD Type C2 Base
(MMCD Dwg # CE1.3)

Base: 1,600 lbs / 730 kgs

Scale: 1:20 mm
Rev: 22Jul13

Dwg#: SPC2-25-F197-3Z2Z-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling, Suitability for Use and Engineering Design Approval is the responsibility of others

Customizations Available:
- Bolt Size & Type
- Bolt Square (290 max)
- BCD (410 max)
- Duct Size
- Duct Quantity
- Duct Orientation
- Reinforcing

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MMCD Type C3 Service Base
(MMCD Dwg# CE1.3)

Base: 2,500 lbs / 1,140 kgs
Scale: 1:20 mm
Rev: 22Jul13
Dwg#: SPC3-25-F269-SERV-C
Plan View

V-Groove Drain Trough

Base Type Imprinted in Corner

Ø 279 BCD

200

1220 Sq

1020

1220

410 Sq

450 Sq

Side View

Bolt Square

25Ø x 915 Galvanized SAE 4140 Anchor Bolts

80

197

20

700 Typ

1020

1220

200

32Ø PVC

General Notes:

- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling, Suitability for Use and Engineering Design Approval is the responsibility of others

Customizations Available:

- Bolt Size & Type
- Bolt Square (290 max)
- BCD (410 max)
- Duct Size
- Duct Quantity
- Duct Orientation
- Reinforcing

MMCD Type C4 Base
(MMCD Dwg # CE1.5)

Base: 2,670 lbs / 1,210 kgs

Scale: 1:20 mm

Rev: 22Jul13

Dwg#: SFC4-25-F197-3Z2Z-C
**General Notes:**
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling, Suitability for Use and Engineering Design Approval is the responsibility of others

**MMCD Type C5 Service Base**
(MMCD Dwg# CE1.5)

- Base: 2,670 lbs / 1,210 kgs
- Scale: 1:20 mm
- Rev: 22Jul13
- Dwg#: SFC5-25-F269-3Z2Z-C

**Customizations Available:**
- Bolt Size & Type
- Bolt Square (290 max)
- BCD (410 max)
- Duct Size
- Duct Quantity
- Duct Orientation
- Reinforcing
**Plan View**

- V-Groove Drain Trough
- Bolt Square (283 max)
- BCD (400 max)
- Duct Size
- Duct Quantity
- Duct Orientation
- Reinforcing

**Side View**

- Base Type Imprinted in Corner
- 32Ø x 1220 Galvanized SAE 4140 Anchor Bolts
- 50Ø PVC

**Customizations Available:**
- Bolt Size & Type
- Bolt Square (283 max)
- BCD (400 max)
- Duct Size
- Duct Quantity
- Duct Orientation
- Reinforcing

**MoT Type D2 Pyramid Base**

(MoTH Dwg# SP635-1.1.7)

- Base: 6,300 lbs / 2,860 kgs
- Scale: 1:20 mm
- Rev: 22Jul13

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MoT & MMCD Type E2 Pyramid Base
(MoTH Dwg# SP635-1.1.7, MMCD Dwg# CE1.8)

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling, Suitability for Use and Engineering Design Approval is the responsibility of others

Customizations Available:
- Bolt Size & Type
- Bolt Square (283 max)
- BCD (400 max)
- Duct Size
- Duct Quantity
- Duct Orientation
- Reinforcing

Base: 6,300 lbs / 2,860 kgs

Scale: 1:20 mm
Rev: 22Jul13
Dwg#: SPE2-25-F197-5Z1Z-C
**Plan View**

- V-Groove Drain Trough
- Base Type Imprinted in Corner
- 25Ø x 1220mm c.l. Galvanized Dywidag Anchor Bolts (Gr.150) (Assembled in Cage)
- 32Ø PVC

**Elevation**

- 25Ø x 1220mm c.l. Galvanized Dywidag Anchor Bolts (Gr.150) (Assembled in Cage)
- 32Ø PVC

**General Notes:**
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling, Suitability for Use and Engineering Design Approval is the responsibility of others

**MoT & MMCD Type F2 & S2 Pyramid Bases**

(MoTH Dwg# SP635-1.1.14, MMCD Dwg# CE1.13 )

- Base: 9,740 lbs / 4,420 kgs

**Customizations Available:**
- Bolt Size & Type
- Bolt Square (354 max)
- BCD (500 max)
- Duct Size
- Duct Quantity
- Duct Orientation
- Reinforcing

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Base: 9,740 lbs / 4,420 kgs  
Scale: 1:25 mm  
Rev: 22Jul13  
Dwg#: SPSF-25-D243-3Z2Z-C
Plan View

- 1300 Sq
- 500 Sq
- 550 Sq
- 390 BCD
- V-Groove Drain Trough
- Base Type Imprinted in Corner

Side View

- 38Ø x 1370
- Galvanized SAE 4140 Anchor Bolts
- 140
- 700
- 50Ø PVC
- 30
- 2300
- Base: 11,450 lbs / 5,200 kgs

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling, Suitability for Use and Engineering Design Approval is the responsibility of others

Customizations Available:
- Bolt Size & Type
- Bolt Square (354 max)
- BCD (500 max)
- Duct Size
- Duct Quantity
- Duct Orientation
- Reinforcing

MoT & MMCD Type L2 Pyramid Base
(MoTH Dwg# SP635-1.1.14, MMCD Dwg# E1.13)

Base: 11,450 lbs / 5,200 kgs
Scale: 1:25 mm
Rev: 11Jun15
Dwg#: SPL2-38-F276-5Z1Z-C
### General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling, Suitability for Use and Engineering Design Approval is the responsibility of others

### SLEEVE SCHEDULE

<table>
<thead>
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<th>Type</th>
<th>Height</th>
<th>Application</th>
<th>Post O.D.</th>
<th>Inner Sleeve</th>
<th>Sleeve Size in Concrete</th>
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<td>38 (1-1/2&quot;)</td>
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<td>51 (2&quot;)</td>
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<td>800</td>
<td>Single or Two Post Signs in Gravel Shoulder</td>
<td>45 (1-3/4&quot;)</td>
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<td>57 (2-1/4&quot;)</td>
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<td>51 (2&quot;)</td>
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<td>57 (2-1/4&quot;)</td>
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<td>57 (2-1/4&quot;)</td>
<td>No</td>
<td>64 (2-1/2&quot;)</td>
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</tbody>
</table>

### MoT Sign Post Base Types 1 & 2

(MoTH Dwg# SP635-1.1.35)

- Type 1: 240 lbs / 110 kgs
- Type 2: 320 lbs / 150 kgs

Scale: 1:10 mm  Rev: 15Aug13

Dwg#: SRT1-25-F197-PZ1Z-C
MoT & MMCD Post Mounted Flasher Base
(MoTH Dwg# SP635-1.1.37, MMCD Dwg# E1.18)

Base: 160 lbs / 80 kgs

Scale: 1:10 mm
Rev: 28Jun13

Dwg#: SLFL-30-0400-C

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling, Suitability for Use and Engineering Design Approval is the responsibility of others
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling, Suitability for Use and Engineering Design Approval is the responsibility of others

CP Rail Base

Base: 470 lbs / 220 kgs
Scale: 1:20 mm
Rev: 28Jun13
Dwg#: SLCP-30-0450-C
General Notes:
- Products manufactured in accordance with CSA A23.4
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

B937 Top / Extension 305 High
(#37 & B-9 1/2)

Top/Ext: 105 lbs / 50 kgs

Scale: 1:10 mm
Rev: 28Jun08

Dwg#: B937-00-0305-C
**General Notes:**
- Products manufactured in accordance with CSA A23.4
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

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**B937 Top / Extension 152 High**
(#37 & B-9 1/2)

Top/Ext: 60 lbs / 27 kgs

Scale: 1:10 mm

Rev: 28Jun08

Dwg#: B937-00-0150-C
Cast Iron Cover
- Available plain or marked.
- Markings: Sewer, Electric Power or Water Meter.

Cast Iron Cover c/w Hole for Remote Reader
- Available plain or marked as Water Meter.

Steel Checker Plate Cover
- Painted Black, Boltdown,
- Steel Checker Plate Lid
- Options: Galvanizing, Padlock Recess
- Remote Reader Holes
- Weld Marking e.g. "ELEC"

General Notes:
- Products manufactured in accordance with CSA A23.4
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others
Painted Black, Boltdown, Steel Checker Plate Lids

Options: Galvanizing, Padlock Recess
Remote Reader Holes
Weld Marking e.g. "ELEC"

B937 Box w/ Tamper Proof Lid Options

- Lid: 20 lbs / 10 kgs
- Box: 105 lbs / 50 kgs
- Total: 125 lbs / 60 kgs

General Notes:
- Products manufactured in accordance with CSA A23.4
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others.
Painted Black, Bolt-down, Steel Checker Plate Lids

Options: Galvanizing, Padlock Recess
Remote Reader Holes
Weld Marking e.g. "ELEC"

Plan View

Plan View - Lid

50 sq Drain Hole

584
513

Lid
Top / Ext
Base

1 - 100 x 105
KO's Each Wall

2 - 70 x 130
KO's Each Wall

Side View

End View

General Notes:
- Products manufactured in accordance with CSA A23.4
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others.

T266 Service Box - Complete

Lid: 65 lbs / 30 kgs
Top/Ext: 140 lbs / 65 kgs
Base: 170 lbs / 30 kgs
Total: 515 lbs / 240 kgs

Scale: 1:15 mm
Rev: 28Jun08

Dwg#: T266-N3-ZZZZ-C
General Notes:
- Products manufactured in accordance with CSA A23.4
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

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T266 Top / Extension 150 High

Top/Ext: 70 lbs / 35 kgs

Scale: 1:15 mm
Rev: 28Jun08
Dwg#: T266-00-0150-C
Plan View

Galvanized Checker Plate Marked "MoT" w/ Holes for Boltdown

Plan View-Lid

PVC Cable Support

50Ø Drain Hole

Bolt Down Bracket for Cover c/w 10Ø Stainless Steel Bolt & Spring Nut

Lid

Top / Ext

Base

Side View

End View

2 - 70Ø K/O's Each End

2 - 140Ø K/O's Each End

General Notes:
- Product manufactured in accordance with CSA A23.4
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

5686 MoT Pullbox (880mm Deep)
(MoTH Dwg#: SP635-1.3.1, 2000 Dwg# SP235-1.3.2)

Cover: 100 lbs / 45 kgs
Top/Ext: 195 lbs / 89 kgs
Base: 175 lbs / 79 kgs
Total: 665 lbs / 305 kgs

Scale: 1:15 mm
Rev: 28Jun08
Dwg#: 5686-68-MOTH-C
Plan View

Side View

End View

General Notes:
- Products manufactured in accordance with CSA A23.4
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Site Installation, Backfilling & Suitability for Use is the responsibility of others
Plan View

Galvanized Pulling Iron (Typ 4)

Side View

Drain Hole

Cable Support Channel (Typ 1 per Wall)

End View

500 x 275 (Typ 4)

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

4040 Service Vault
(Alternate to MoTH Dwg# SP635-1.3.3 & BCH Dwg# ES54 B2-02, Stock# 400-0450)

Box: 2,260 lbs / 1,030 kgs

Rev: 19Jan16

Dwg#: SVZZ-2B-4040-C

Scale: 1:20 mm
Painted Black, Boltdown, Steel Checker Plate Lids
Options: Galvanizing, Padlock Recess
Remote Reader Holes
Weld Marking e.g. "ELEC"

**Plan View**

- Galvanized Steel Frame
- Lift Handle
- Lift Insert (Typ 4)

**Side View**

- 480 lbs / 218 kgs

(A) Boulevard (Off Road) Use Hatch

(C) Roadway Use H-20 Traffic Loading

**Plan View**

- C-23SF / C-23A
- Cast Iron Frame and Cover

**Side View**

- 580 lbs / 263 kgs

(B) Boulevard (Off Road) Use - Direct Bury

**Plan View**

- Lifting Cable (Typ 2)

**End View**

- 300 lbs / 136 kgs Each

*(Typ 3 Required)*

**General Notes:**
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling, Suitability for Use and Engineering Design Approval is the responsibility of others
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling & Suitability for Use is the responsibility of others
Painted Black, Boltdown, Steel Checker Plate Lids

Options:
- Galvanizing, Padlock Recess
- Remote Reader Holes
- Weld Marking e.g. "ELEC"

Plan View - Vault

Plan View - Collar

Side View

End View

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling, Suitability for Use and Engineering Design Approval is the responsibility of others

1.2m Highways Medium Junction Vault

Vault: 3,410 lbs / 1,550 kgs  
Collar: 720 lbs / 330 kgs

Scale: 1:20mm  
Rev: 28Jun08  
Dwg#: SVHZ-2B-1200-C
### General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Site Installation, Backfilling, Suitability for Use and Engineering Design Approval is the responsibility of others

### Plan View - Vault
- 2 Hole Pulling Iron (Typ 2)
- Galvanized Steel Frame Cast-in

### Plan View - Vault w/ Covers
- Painted Black, Boltdown, Steel Checker Plate Lids
- Options: Galvanizing, Padlock Recess
- Remote Reader Holes
- Weld Marking e.g. "ELEC"

### Side View
- Cable Support Channel

### End View
- 50Ø PVC
- 300x515 K/O

### 243 MMCD Vault w/ Lid Assembly (Bottomless)
(2009 MMCD Dwg.# E2.5)

- **Vault:** 2,780 lbs / 1,270 kgs
- **Cover:** 370 lbs / 170 kgs

**AE Concrete**

19060 - 54th Avenue
Surrey, B.C. V3S 8E5
Tel (604) 576-1808
info@aeconcrete.com

**243 MMCD Vault w/ Lid Assembly (Bottomless)**

**Scale:** 1:20 mm  
**Rev.:** 22Jul13

**Dwg#:** SVVZ-2A-0243-C
Painted Black, Boltdown, Steel Checker Plate Lids

**Options:**
- Galvanizing, Padlock Recess
- Remote Reader Holes
- Weld Marking e.g. "ELEC"

**General Notes:**
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Site Installation, Backfilling, Suitability for Use and Engineering Design Approval is the responsibility of others

**Plan View**
- Galvanized Steel Frame

**Plan View - Collar**
- 1270 mm Thru Opening

**Side View**
- 965 mm

**End View**
- 300x515 K/O
Plan View - Top

Plan View - Bottom

C-23 / C-23A Cast Iron Frame and Cover

Riser Ring 150 High

Cable Support Channel

Side View

End View

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Design and Provision of Thrust Blocks is the responsibility of others
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

2122 MoT Communications Vault

Top: 6,200 lbs / 2,820 kgs
Btm: 6,700 lbs / 3,040 kgs
## Headwall Listings

<table>
<thead>
<tr>
<th>Drawing Number</th>
<th>Item Description</th>
<th>Product Size (Length X Width X Depth in mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDSP-21-ZZZZ-C</td>
<td>Highways 16-SP 219 w/ Grillage, MOTH Dwg# SP582-04.01 (For up to 450mmØ RCP Pipe)</td>
<td>1280 x 920 x 1530 o.d.</td>
</tr>
<tr>
<td>HD01-21-ZZZZ-C</td>
<td>Type 1 Inlet w/ Grillage (For up to 450mmØ RCP Pipe)</td>
<td>870 x 750 x 1300 o.d.</td>
</tr>
<tr>
<td>HD02-21-ZZZZ-C</td>
<td>Type 2 Inlet w/ Grillage (For up to 450mmØ RCP Pipe)</td>
<td>1060 x 1280 x 1170 o.d.</td>
</tr>
<tr>
<td>HD02-20-ZZZZ-C</td>
<td>Type 2 Outlet w/ Grillage (For up to 450mmØ RCP Pipe)</td>
<td>1060 x 1280 x 1170 o.d.</td>
</tr>
<tr>
<td>HD11-21-ZZZZ-C</td>
<td>11-13 Inlet w/ Grillage (For up to 600mmØ RCP Pipe)</td>
<td>1405 x 2610 x 1525 o.d.</td>
</tr>
<tr>
<td>HD11-20-ZZZZ-C</td>
<td>11-13 Outlet w/ Grillage (For up to 600mmØ RCP Pipe)</td>
<td>1405 x 2610 x 1525 o.d.</td>
</tr>
<tr>
<td>HD14-21-ZZZZ-C</td>
<td>14-15 Inlet w/ Grillage (For up to 750mmØ RCP Pipe)</td>
<td>1405 x 2910 x 1725 o.d.</td>
</tr>
<tr>
<td>HD14-20-ZZZZ-C</td>
<td>14-15 Outlet w/ Grillage (For up to 750mmØ RCP Pipe)</td>
<td>1405 x 2910 x 1725 o.d.</td>
</tr>
<tr>
<td>HD16-21-ZZZZ-C</td>
<td>16-20 Inlet w/ Grillage (For up to 1200mmØ RCP Pipe)</td>
<td>1405 x 3310 x 2275 o.d.</td>
</tr>
<tr>
<td>HD16-20-ZZZZ-C</td>
<td>16-20 Outlet w/ Grillage (For up to 1200mmØ RCP Pipe)</td>
<td>1405 x 3110 x 2275 o.d.</td>
</tr>
<tr>
<td>HD35-20-2000-C</td>
<td>35-30 Custom Headwall Inlet/Outlet (Variable Backwall Width &amp; Height)</td>
<td>2300 x 5010 x 3000 o.d.</td>
</tr>
<tr>
<td>HDOT-01-DISS-C</td>
<td>Custom Three Block Outfall Dissipator</td>
<td>Varies</td>
</tr>
<tr>
<td>HDOT-02-DISS-C</td>
<td>Custom V-Notch Weir Outfall Dissipator</td>
<td>Varies</td>
</tr>
<tr>
<td>HDZZ-GH-HAND-C</td>
<td>Headwall Handrail</td>
<td>Varies</td>
</tr>
<tr>
<td>HD00-ZZ-FISH-C</td>
<td>Fish Ladder</td>
<td>1400 x 900 x 1250</td>
</tr>
</tbody>
</table>
Plan View

Front View

Section

Galvanized Grillage

Dwg#: HDSP-21-ZZZZ-C

General Notes:
- Product manufactured in accordance with CSA A23.4
- Custom Pipe Openings Available
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others
Plan View

Front View

Section

General Notes:

- Product manufactured in accordance with CSA A23.4
- Custom Pipe Openings Available
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

Type 1 Inlet
(For up to 450mmØ RCP)

Headwall: 1,950 lbs / 885 kgs

Scale: 1:20 mm  Rev: 28Jun08

Dwg#: HD01-21-ZZZZ-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Custom Pipe Openings Available
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

Type 2 Inlet
(For up to 450mmØ RCP)

Headwall: 2,240 lbs / 1,020 kgs

Scale: 1:20 mm
Rev: 28Jun08
Dwg#: HD02-21-ZZZZ-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Custom Pipe Openings Available
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

Type 2 Outlet
(For up to 450mmØ RCP)

Headwall: 2,240 lbs / 1,020 kgs

Scale: 1:20 mm
Rev: 28Jun08

Dwg#: HD02-20-ZZZZ-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Custom Pipe Openings Available
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

11-13 Inlet
(For up to 600mmØ RCP)

Headwall: 6,700 lbs / 3,040 kgs
Grillage: 100 lbs / 45 kgs
Plan View

Front View

Section

Galvanized Grillage

1100

1125

2610

500

755

150

525

600

1525

400

200

200

150

1405

Headwall: 6,570 lbs / 2,990 kgs
Grillage: 52 lbs / 24 kgs

General Notes:
- Product manufactured in accordance with CSA A23.4
- Custom Pipe Openings Available
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

11-13 Outlet
(For up to 600mmØ RCP)
Plan View

General Notes:
- Product manufactured in accordance with CSA A23.4
- Custom Pipe Openings Available
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

Front View

Section

14-15 Inlet
(For up to 750mmØ RCP)

Headwall: 8,630 lbs / 3,915 kgs
Grillage: 169 lbs / 77 kgs

Scale: 1:30 mm
Rev: 15Jul15
Dwg#: HD14-21-ZZZZ-C
14-15 Outlet
(For up to 750mmØ RCP)

Headwall: 8,630 lbs / 3,915 kgs
Grillage: 84 lbs / 38 kgs

General Notes:
- Product manufactured in accordance with CSA A23.4
- Custom Pipe Openings Available
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others
Galvanized Inlet Grillage

Plan View

Front View

Section

General Notes:
- Product manufactured in accordance with CSA A23.4
- Custom Pipe Openings Available
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

16-20 Inlet
(For up to 1200mmØ RCP)

Headwall: 11,130 lbs / 5,050 kgs
Grillage: 244 lbs / 111 kgs

Scale: 1:30 mm  Rev: 28Jun08
Dwg#: HD16-21-ZZZZ-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Custom Pipe Openings Available
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

### 16-20 Outlet
(For up to 1200mmØ RCP)

- **Headwall:** 11,130 lbs / 5,050 kgs
- **Grillage:** 106 lbs / 48 kgs

Scale: 1:30 mm  
Rev: 28Jun08  
Dwg#: HD16-20-ZZZZ-C
Flap Gate and Galvanized Inlet or Outlet Grillage Available

Opening Size, Quantity & Location to Suit

Plan View

Front View

Section

General Notes:
- Product manufactured in accordance with CSA A23.4
- Custom Pipe Openings Available
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

35-29 Custom Headwall Inlet/Outlet
(Variable Backwall Width and Height)

Scale: 1:40 mm
Rev: 22Jul14
Dwg#: HD35-20-2000-C
**General Notes:**

- Product manufactured in accordance with CSA A23.4
- Custom Pipe Openings Available
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

---

**Custom Three Block Outfall Dissipator**

(11-13, 14-15, 16-20)
Plan View

Front View

Section

Galvanized Grillage

Custom V-Notch Weir Outfall Dissipator
(11-13, 14-15, 16-20)

General Notes:
- Product manufactured in accordance with CSA A23.4
- Custom Pipe Openings Available
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

Dwg#: HDOT-02-DISS-C

Scale: 1:30 mm  Rev: 28Jun08
Galvanized 48mm O.D. Handrail

Plan View

Mounting Base Plate Typ

Side View

General Notes:

- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation is the responsibility of others
Plan View

Side View

End View

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

Fish Ladder

Sump: 2,950 lbs / 1,340 kgs

Scale: 1:20 mm
Rev: 21Jul14

Dwg#: HD00-ZZ-FISH-C
## Oil Interceptor Listings

<table>
<thead>
<tr>
<th>Drawing Number</th>
<th>Item Description</th>
<th>Product Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>SALE-RS-ENQU-C</td>
<td>Oil Interceptor / Separator Checklist</td>
<td></td>
</tr>
<tr>
<td>BYPASS-LAYOUT-C</td>
<td>Enquip Oil Stop Valve</td>
<td>Varies</td>
</tr>
<tr>
<td></td>
<td>Gravity Flow Stop Valves (Custom Built)</td>
<td></td>
</tr>
<tr>
<td>24OI-20-1420-API-C</td>
<td>Typical By-Pass Layout</td>
<td>Varies</td>
</tr>
<tr>
<td>24OI-20-1420-CPS-C</td>
<td>2454 Oil Interceptor (API) c/w Baffles</td>
<td>1380 x 610 x 1065 i.d.</td>
</tr>
<tr>
<td>24OI-60-1420-C</td>
<td>2454 Oil Separator (CPS) c/w Baffles</td>
<td>1380 x 610 x 1065 i.d.</td>
</tr>
<tr>
<td>35OI-A0-1500-C</td>
<td>2454 / 355 Lid Assemblies</td>
<td>1795 x 1190 x 188</td>
</tr>
<tr>
<td></td>
<td>Roof Slab w/ 2-610Ø Openings (H-20 Traffic Load)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Roof Slab w/ 243 Lid Assembly (H-20 Static Load - Boulevard)</td>
<td></td>
</tr>
<tr>
<td>35OI-20-1500-C</td>
<td>355 Oil Interceptor (API) c/w Baffles</td>
<td>1500 x 900 x 1525 i.d.</td>
</tr>
<tr>
<td>35OI-20-2400-API-C</td>
<td>385 Oil Interceptor (API) c/w Baffles</td>
<td>2395 x 900 x 1525 i.d.</td>
</tr>
<tr>
<td>35OI-20-2400-CPS-C</td>
<td>385 Oil Separator (CPS) c/w Baffles</td>
<td>2395 x 900 x 1525 i.d.</td>
</tr>
<tr>
<td>35OI-A2-2400-C</td>
<td>385 Roof Slab w/ Circular Openings (API) (H-20 Traffic Load)</td>
<td>2695 x 1190 x 188</td>
</tr>
<tr>
<td>35OI-AC-2400-C</td>
<td>385 Roof Slab w/ Circular Openings (CPS) (H-20 Traffic Load)</td>
<td>2695 x 1190 x 188</td>
</tr>
<tr>
<td>35OI-A6-2400-C</td>
<td>385 Roof Slab w/ 243 Lid Assembly (H-20 Static Load - Boulevard)</td>
<td>2695 x 1190 x 188</td>
</tr>
</tbody>
</table>
# Oil Interceptor Listings

<table>
<thead>
<tr>
<th>Drawing Number</th>
<th>Item Description</th>
<th>Product Size (Length X Width X Depth in mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VCFI-OI-ZZZZ-API-C</td>
<td>251815 Firemeter Oil Interceptor &amp; Roof Slab (API) c/w Baffles</td>
<td>2515 x 1825 x 1600 i.d.</td>
</tr>
<tr>
<td>VCFI-OI-ZZZZ-CPS-C</td>
<td>251815 Firemeter Oil Separator &amp; Roof Slab (CPS) c/w Baffles</td>
<td>2515 x 1825 x 1600 i.d.</td>
</tr>
<tr>
<td>VCMC-OI-ZZZZ-API-C</td>
<td>332120 Meter Oil Interceptor &amp; Roof Slab (API) c/w Baffles</td>
<td>3350 x 2130 x 1980 i.d.</td>
</tr>
<tr>
<td>VCMC-OI-ZZZZ-CPS-C</td>
<td>332120 Meter Oil Separator &amp; Roof Slab (CPS) c/w Baffles</td>
<td>3350 x 2130 x 1980 i.d.</td>
</tr>
<tr>
<td>VC47-20-ZZZZ-API-C</td>
<td>4712 Oil Interceptor (API) c/w Baffles</td>
<td>4700 x 2125 x 2000 i.d.</td>
</tr>
<tr>
<td>VC47-20-ZZZZ-CPS-C</td>
<td>4712 Oil Separator (CPS) c/w Baffles</td>
<td>4700 x 2125 x 2000 i.d.</td>
</tr>
<tr>
<td>VC47-20-2500-API-C</td>
<td>472125 Oil Interceptor (API) c/w Baffles</td>
<td>4700 x 2125 x 2500 i.d.</td>
</tr>
<tr>
<td>VC47-20-2500-CPS-C</td>
<td>472125 Oil Separator (CPS) c/w Baffles</td>
<td>4700 x 2125 x 2500 i.d.</td>
</tr>
<tr>
<td>VC47-20-3000-API-C</td>
<td>472130 Oil Interceptor (API) c/w Baffles</td>
<td>4700 x 2125 x 3000 i.d.</td>
</tr>
<tr>
<td>VC47-20-3000-CPS-C</td>
<td>472130 Oil Separator (CPS) c/w Baffles</td>
<td>4700 x 2125 x 3000 i.d.</td>
</tr>
</tbody>
</table>

**API** - American Petroleum Institute (3 Baffle Design)

**CPS** - Coalescing Plate System

**Note:** Most API Oil Interceptors can be upgraded to fit Facet Coalescing “M-Paks”. Riser sections available for extra depth.

For more details on the Oil Separator Design, please contact the Sales Department.

If you have a specific project, please send a completed Oil Interceptor / Separator Checklist and AE Concrete will submit a quotation to suit your project’s requirements.
Oil Interceptor / Separator Checklist

Customer: ____________________________  SO#: __________  Date: __________
Job Name / PO#: ______________________  TCSR: __________

Tank Details
* Please indicate units of measurement for dimensions & elevations (mm, m, ft, in)
Model # (Inside Dimensions LxWxH): ________________ mm  Custom Inside Dimensions (LxWxH):
Grade Elevation: ________________  Water Volume: ________________ liters
Inlet Elevation: ________________  Total Volume: ________________ liters
Static Water Elevation in Tank: ________________  Sediment Capacity: ________________ liters
Outlet Elevation: ________________  Oil Storage Capacity: ________________ liters
Floor Elevation: ________________
Site Installation:  
☐ Above Ground  ☐ Indoors
☐ Below Ground  ☐ Outdoors

Other Components
Baffle Type:
☐ Unfinished Steel  ☐ Concrete
☐ Galvanized Steel  ☐ Other
Inlet Pipe Size: ________________
Outlet Pipe Size: ________________
Inlet T-Pipe Required:  
☐ Yes  ☐ No
Outlet Pipe Type:
☐ Oil Stop Valve  ☐ T-Pipe

Facet M-Pak Coalescing Plate System
Required:  
☐ Yes  ☐ No
Application:
(Influent Oil Concentration)
☐ Rainwater Runoff Retail Parking Lot (100 ppm)  ☐ Vehicle Maintenance / Washdown (400 ppm)
☐ Refueling (200 ppm)  ☐ Other  ________________  (________ ppm)

Desired Effluent Quality:
☐ <10 ppm  ☐ <15 ppm  Other: ________________ ppm Oil

Application Data
Liquid Type (SG@60ºF):
☐ Engine Oil (0.80)  ☐ Diesel (0.85)  ☐ Jet Fuel (0.89)
☐ Transformer Oil (0.80)  ☐ Other (SG)  ________________  (_______)
Operating Temperature: ________________ min  ________________ max
Require Heated Unit:  
☐ Yes  ☐ No
Flow Rate: ________________ US gpm (1 liter/sec = 15.82032 US gpm)
Detergents / Soap in Use:  
☐ Yes  ☐ No  
Note: Detergents / Soap will reduce the effectiveness of the oil separation. See Disclaimer on Quote
Flow Type:  
☐ Pumped  ☐ Gravity  ☐ Both
If pumped, type of pump: ________________
Pumped  ☐ Before or  ☐ After  Oil-Water Separator
Bypass Permissible:  
☐ Yes  ☐ No

Other Notes

- If upgrading an existing vault with facet, please Attach a Sketch with All INTERNAL Dimensions Shown (Length, Width & Total Depth).
- Cleaning Wand, Maintenance Manuals, Shop Drawings & Heat Cable Tags to be mailed as required.

Please complete this form with all available information & contact your AE Concrete Sales Representative at (604)576-1808 or info@aeconcrete.com

Sent ☐
General Notes:
- Optional Epoxy Coated Steel or Stainless Steel Assy
- Size - Range from 2" to 14" Pipe Diameters
- P-Trap Assembly built to suit Application
- Site Installation is the Responsibility of Others

<table>
<thead>
<tr>
<th>Requested</th>
<th>Dimension</th>
<th>Standard (Minimum)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Pipe Diameter</td>
<td></td>
</tr>
<tr>
<td>B *</td>
<td>Outlet Invert (B &gt; 4 x A + D)</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>4 x A</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>2 x A + 1/4&quot; (1.5 x A + 1/4&quot;)</td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>6 x A (4 x A)</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>As Required (Typ 600)</td>
<td></td>
</tr>
<tr>
<td>G</td>
<td>A + 4&quot;</td>
<td></td>
</tr>
</tbody>
</table>

* Can Reduce to (2 x A + D) but may Affect High Flow Characteristics
Plan View - Layout
Roof Slab Removed for Clarity.

Bypass Manhole #1

Risers and/or Grouting to be Provided by Others.

Bypass Manhole #2

Important: All Pipe Inverts and Sizes must be designated to suit your application.

Side View - Layout
**Plan View**

- 500 Vent Pipe (Typ 2)
- Flow Direction

**Side View**

- 300 x 510 K/O
- 1165 mm
- 610 mm
- 1380 mm
- 250 mm
- 880 mm
- 225 mm
- 100 mm
- 130 mm
- 250 mm

**End View**

- Typical Minimum Depth from Grade to Outlet Invert
  - with MH Castings = 835 mm
  - with Steel Lid = 455 mm

**General Notes:**
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Installation of T-Pipe Assemblies Recommended - Installed by Others.
- Standard Mild Steel Baffles - Optional Galvanized Baffles
- Upgradable with Facet “M-Pak” Coalescing Plate System - Design/Build

**2454 Oil Interceptor (API)**

- Oil Int: 2,610 lbs / 1,190 kgs
- Scale: 1:20 mm
- Rev: 28Jun08
- Dwg#: 24OI-20-1420-API-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Installation of T-Pipe Assemblies Recommended - Installed by Others
- Standard Mild Steel Baffles - Optional Galvanized Baffles
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

Plan View

Typical Minimum Depth from Grade to Outlet Invert
- with MH Castings = 835 mm
- with Steel Lid = 455 mm

Side View

End View

2454 Oil Separator (CPS)

Oil Sep: 2,610 lbs / 1,190 kgs

Scale: 1:20 mm
Painted Black, Steel Checker Plate Lids

Options: Galvanizing
25Ø Holes
Weld Marking e.g. "ELEC"

Plan View

Boulevard Use - H-20 Static Load Rated Lid

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

Customizations:
Available for 355 & 385 Vaults
(A) H-20 Traffic Load Rated Lid

Plan View

Side View

End View

(B) Boulevard Use - H-20 Static Load Rated Lid

Plan View

Side View

End View

Painted Black, Boltdown, Steel Checker Plate Lids

Options:
- Galvanizing, Padlock Recess
- Remote Reader Holes
- Weld Marking e.g. "ELEC"

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

2454 / 355 Lid Assemblies

AE CONCRETE

19060 - 54th Avenue
Surrey, B.C. V3S 8E5
Tel (604) 576-1808
info@aeconcrete.com

2454 / 355 Lid Assemblies

Roof Slab: 1,620 lbs / 740 kgs
Roof Slab w/ Hatch: 1,580 lbs / 720 kgs

Scale: 1:25 mm
Rev: 10Mar09
Dwg#: 35OI-A0-1500-C
Typical Minimum Depth from Grade to Outlet Invert
- with MH Castings = 980 mm
- with Steel Lid = 800 mm

150
1125
495
600 x 600 x 75
K/O

50Ø Vent Pipe
(Typ 2)

Plan View

Flow Direction

Flow Direction

Side View

End View

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Installation of T-Pipe Assemblies Recommended - Installed by Others.
- Standard Mild Steel Baffles - Optional Galvanized Baffles
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

355 Oil Interceptor (API)

Oil Int: 6,810 lbs / 3,100 kgs

AE CONCRETE
19060 - 54th Avenue
Surrey, B.C. V3S 8E5
Tel (604) 576-1808
info@aeconcrete.com

35OI-20-1500-C

Dwg#: 35OI-20-1500-C

Scale: 1:25 mm
Rev: 28Jun08
Typical Minimum Depth from Grade to Outlet Invert
- with MH Castings = 980 mm
- with Steel Lid = 800 mm

Plan View

Flow Direction

Side View

End View

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Installation of T-Pipe Assemblies Recommended - Installed by Others
- Standard Mild Steel Baffles - Optional Galvanized Baffles
- Up-gradable with Facet "M-Pak" Coalescing Plate System - Design/Build
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

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385 Oil Interceptor (API)
Oil Int: 9,460 lbs / 4,300 kgs

Scale: 1:25 mm
Rev: 28Jun08
Dwgf#: 35OI-20-2400-API-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Installation of T-Pipe Assemblies Recommended - Installed by Others.
- Standard Mild Steel Baffles - Optional Galvanized Baffles
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

385 Oil Separator (CPS)
Oil Sep: 9,460 lbs / 4,300 kgs

AE Concrete
19060 - 54th Avenue
Surrey, B.C. V3S 8E5
Tel (604) 576-1808
info@aeconcrete.com

Dwg#: 35OI-20-2400-CPS-C

Scale: 1:25 mm
Rev: 28Jun08
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General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

385 Roof Slab w/ Circular Openings

Roof Slab: 2,790 lbs / 1,270 kgs

Scale: 1:25 mm
Rev: 28Jun08
Dwg#: 35OI-A2-2400-C
Plan View

H-20 Traffic Load Rated

760Ø MH Casting (C-23/23A)  508Ø MH Casting (C-18)

Side View

End View

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

385 Roof Slab w/ Circular Openings (CPS)

Roof Slab: 2,350 lbs / 1,070 kgs

Scale: 1:25 mm  Rev: 28Jun08

Dwg#: 35OI-AC-2400-C
Plan View

Options:
- Galvanizing
- Padlock Recess
- Remote Reader Holes
- Weld Marking e.g. "ELEC"

H-20 Static Load Rated
Boulevard Use Only

Painted Black, Boltdown, Steel Checker Plate Lids

Side View

End View

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

385 Roof Slab w/ 243 Lid Assy

Roof Slab & Lid: 2,470 lbs / 1,130 kgs

Scale: 1:25 mm
Rev: 28Jun08
Dwg#: 35OI-A6-2400-C
**Plan View - Chamber**

**Plan View - Roof Slab**

**Side View**

**End View**

---

**General Notes:**
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Installation of T-Pipe Assemblies Recommended - Installed by Others
- Standard Mild Steel Baffles - Optional Galvanized Baffles
- Up-gradable with Facet "M-Pak" Coalescing Plate System - Design/Build
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

---

**251815 Firemeter Oil Interceptor (API)**

<table>
<thead>
<tr>
<th>Oil Int:</th>
<th>Scale: 1:50 mm</th>
<th>Rev: 28Jun08</th>
</tr>
</thead>
<tbody>
<tr>
<td>23,450 lbs / 10,640 kgs</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Plan View - Chamber

Plan View - Roof Slab

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Installation of T-Pipe Assemblies Recommended - Installed by Others
- Standard Mild Steel Baffles - Optional Galvanized Baffles
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

251815 Firemeter Oil Separator (CPS)

Oil
23,210 lbs / 10,690 kgs

Sep:

Scale: 1:50 mm
Rev: 28Jun08

Dwg#: VCFI-OI-ZZZZ-CPS-C
Plan View - Chamber

H-20 Traffic Load Rated

508Ø MH Casting (C-18)
760Ø MH Casting (C-23/23A)
508Ø MH Casting (C-18)

Flow Direction

Plan View - Roof Slab

Typical Minimum Depth from Grade to Outlet Invert with MH Castings = 1170 mm

Side View

End View

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Installation of T-Pipe Assemblies Recommended - Installed by Others
- Standard Mild Steel Baffles - Optional Galvanized Baffles
- Up-gradable with Facet "M-Pak" Coalescing Plate System - Design/Built
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

332120 Meter Oil Interceptor (API)

Oil Int:
37,820 lbs / 17,170 kgs

Scale: 1:50 mm
Rev: 28Jun08
Dwg#: VCMC-OI-ZZZZ-API-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Roadway Use - H-20 Traffic Loading
- Installation of T-Pipe Assemblies Recommended - Installed by Others
- Standard Mild Steel Baffles - Optional Galvanized Baffles
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

332120 Meter Oil Separator (CPS)

Oil Sep: 37,720 lbs / 17,170 kgs

Scale: 1:50 mm
Rev: 28Jun08
Dwg#: VCMC-OI-ZZZZ-CPS-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Designed for Roadway Use - H-20 Traffic Loading
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Installation of T-Pipe Assemblies Recommended - Installed by Others
- Standard Mild Steel Baffles - Optional Galvanized Baffles
- Up-gradable with Facet "M-Pak" Coalescing Plate System - Design/Build
- Site Installation, Backfilling & Suitability for Use is the responsibility of others
Facet M-Pak

Plan View - Top

Plan View - Bottom

H-20 Traffic Load Rated

508Ø MH Casting (C-18)

760Ø MH Casting (C-23)

508Ø MH Casting (C-18)

Typical Minimum Depth from Grade to Outlet Invert with MH Castings = 1240 mm

Side View

End View

General Notes:

- Product manufactured in accordance with CSA A23.4
- Designed for Roadway Use - H-20 Traffic Loading
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Installation of T-Pipe Assemblies Recommended - Installed by Others
- Standard Mild Steel Baffles - Optional Galvanized Baffles
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

4712 Oil Separator (CPS)

Oil  Sep:

51,180 lbs / 23,230 kgs

Scale: 1:50 mm  Rev: 28Jun08

Dwg#: VC47-20-ZZZZ-CPS-C
Flow Direction

Plan View - Top

Plan View - Bottom

Side View

End View

General Notes:
- Product manufactured in accordance with CSA A23.4
- Designed for Roadway Use - H-20 Traffic Loading
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Installation of T-Pipe Assemblies Recommended - Installed by Others.
- Standard Mild Steel Baffles - Optional Galvanized Baffles
- Up-gradable with Facet "M-Pak" Coalescing Plate System - Design/Build
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

472125 Oil Interceptor (API)

Oil Int: 57,050 lbs / 25,890 kgs

Scale: 1:60 mm
Rev: 28Jun08
Dwg#: VC47-20-2500-API-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Designed for Roadway Use - H-20 Traffic Loading
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Installation of T-Pipe Assemblies Recommended - Installed by Others
- Standard Mild Steel Baffles - Optional Galvanized Baffles
- Site Installation, Backfilling & Suitability for Use is the responsibility of others
Plan View - Top

Plan View - Bottom

Side View

End View

General Notes:
- Designed for Roadway Use - H-20 Traffic Loading
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Installation of T-Pipe Assemblies Recommended - Installed by Others
- Standard Mild Steel Baffles - Optional Galvanized Baffles
- Up-gradable with Facet "M-Pak" Coalescing Plate System - Design/Build
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

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472130 Oil Interceptor (API)

Oil Int: 63,590 lbs / 28,860 kgs

Scale: 1:60 mm
Rev: 28Jun08
Dwg#: VC47-20-3000-API-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Designed for Roadway Use - H-20 Traffic Loading
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Installation of T-Pipe Assemblies Recommended - Installed by Others
- Standard Mild Steel Baffles - Optional Galvanized Baffles
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

AE CONCRETE

472130 Oil Separator (CPS)

Oil Sep: 63,590 lbs / 28,860 kgs

Scale: 1:60 mm

Rev: 28Jun08

Dwg#: VC47-20-3000-CPS-C
## Utility Building Listings

<table>
<thead>
<tr>
<th>Drawing Number</th>
<th>Item Description</th>
<th>Product Size (Length x Width x Depth in mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3262QS-20-ZZZZ-C</td>
<td>3262QS Vault Building</td>
<td>2970 x 2590 x 2094 i.d.</td>
</tr>
<tr>
<td>4323QS-20-ZZZZ-C</td>
<td>4323QS Panel Building</td>
<td>3856 x 3248 x 3038 i.d.</td>
</tr>
<tr>
<td>5323QS-20-ZZZZ-C</td>
<td>5323QS Panel Building</td>
<td>5076 x 3248 x 3048 i.d.</td>
</tr>
<tr>
<td>9333-20-ZZZZ-C</td>
<td>903330 Precast Modular Shelter/Building</td>
<td>9924 x 8941 x 3048 i.d.</td>
</tr>
</tbody>
</table>
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation & Suitability for Use is the responsibility of others

- Roof Coverings and Eaves Trough Available.
- Standard Simulated Wood Finish or a Variety of Other Exterior Finishes Available.
- Clear Acrylic Sealer - Exterior.
- Multiple K/O (Window and Door) Locations Available. (TBC)
- Optional Interior Finishes Available.
- Custom Heights Available.

3262QS Vault Building
Vault: 34,700 lbs / 15,740 kgs

Scale: 1:50 mm  Rev: 22Dec08
Dwg#: 3262QS-20-ZZZZ-C
• Roof Coverings and Eaves Trough Available.
• Standard Simulated Wood Finish or a Variety of Other Exterior Finishes Available.
• Clear Acrylic Sealer - Exterior.
• Multiple K/O (Window and Door) Locations Available. (TBC)
• Optional Interior Finishes Available.
• Custom Heights Available.

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation & Suitability for Use is the responsibility of others
Plan View

Side View

End View

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation & Suitability for Use is the responsibility of others

- Roof Coverings and Eaves Trough Available.
- Standard Simulated Wood Finish or a Variety of Other Exterior Finishes Available.
- Clear Acrylic Sealer - Exterior.
- Multiple K/O (Window and Door) Locations Available. (TBC)
- Optional Interior Finishes Available.
- Custom Heights Available.
• Roof Coverings and Eaves Trough Available.
• Standard Simulated Wood Finish or a Variety of Other Exterior Finishes Available.
• Clear Acrylic Sealer - Exterior.
• Mutiple K/O (Window and Door) Locations Available. (TBC)
• Optional Interior Finishes Available.
• Custom Heights Available.

General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation & Suitability for Use is the responsibility of others

903330 Precast Modular Shelter / Building
End Module: 31,000 lbs / 70,000 kgs
Mid Module: 25,000 lbs / 55,000 kgs

Scale: 1:125 mm  Rev: 22Dec08
Dwg#: 9333-20-ZZZZ-C
## Miscellaneous and Cast Iron Listings

<table>
<thead>
<tr>
<th>Drawing Number</th>
<th>Item Description</th>
<th>Product Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>SVVZ-20-SUMP-C</td>
<td>Drainage Sump w/ Cover</td>
<td>660 x 510 x 765  i.d.</td>
</tr>
<tr>
<td>SVVZ-NC-SUMP-C</td>
<td>Drainage Sump w/ Cast Iron Frame &amp; Grate</td>
<td>660 x 510 x 765  i.d.</td>
</tr>
<tr>
<td>HD00-ZZ-FISH-C</td>
<td>Fish Ladder</td>
<td></td>
</tr>
<tr>
<td>LAWN-20-0255-C</td>
<td>255Ø Lawn Drain w/ 305Ø Cast Iron Grate</td>
<td>255Ø x 495  i.d.</td>
</tr>
<tr>
<td>LOCK &amp; LOAD-1-C</td>
<td>L &amp; L Standard Panel &amp; Counterfort</td>
<td></td>
</tr>
<tr>
<td>LOCK &amp; LOAD-2-C</td>
<td>L &amp; L Corner Panel &amp; Cap Stone</td>
<td></td>
</tr>
<tr>
<td>LOCK &amp; LOAD-3-C</td>
<td>L &amp; L Half Wide Panel - Transition Pieces</td>
<td></td>
</tr>
<tr>
<td>00CM-ZZ-2424-C</td>
<td>Cable Markers Large</td>
<td>610 sq x 100</td>
</tr>
<tr>
<td></td>
<td>Cable Marker Small</td>
<td>310 sq x 75</td>
</tr>
<tr>
<td>FPAD-ZZ-2424-C</td>
<td>Evergreen Pad</td>
<td>610 sq x 102</td>
</tr>
<tr>
<td>FPAD-ZZ-1616-C</td>
<td>Heritage Lightweight Foundation Pad</td>
<td>406 sq x 100</td>
</tr>
<tr>
<td>0CCS-ZZ-0007-C</td>
<td>2130mm (7 Foot) Curb Stop</td>
<td>2130 x 200 x 152</td>
</tr>
<tr>
<td>SVTZ-41-ZZZZ-C</td>
<td>Riser Ring 915Ø (100, 125, 150 High)</td>
<td>Varies</td>
</tr>
<tr>
<td>00GR-41-ZZZZ-C</td>
<td>Riser Grade Ring MH 610Ø (50, 100, 150 High)</td>
<td>Varies</td>
</tr>
<tr>
<td>MHFC-97-0760-C</td>
<td>C23 / C23A Cast Iron Manhole Frame &amp; Cover</td>
<td></td>
</tr>
<tr>
<td>MHFC-96-0610-C</td>
<td>C18 Cast Iron Frame &amp; Cover</td>
<td></td>
</tr>
<tr>
<td>MHFR-93-MR6</td>
<td>MR-6 Valve Box</td>
<td>Varies</td>
</tr>
<tr>
<td>MHFR-93-MR8</td>
<td>MR-8 Valve Box</td>
<td></td>
</tr>
<tr>
<td>MHFC-93-D14C</td>
<td>D-14C Cleanout</td>
<td>454Ø x 104</td>
</tr>
<tr>
<td>RSLA-MB-3050-C</td>
<td>Aluminum Ladder w/ Safety Post (Ceiling or Wall Mount)</td>
<td>Varies</td>
</tr>
<tr>
<td>VCLA-19AL-RUNG-C</td>
<td>Aluminum Ladder Rung</td>
<td></td>
</tr>
<tr>
<td>SUMP-RS-MISC-C</td>
<td>Sumps, Risers &amp; Covers 12&quot; to 36&quot; Diameter</td>
<td>Varies</td>
</tr>
</tbody>
</table>
Painted Black, Steel Checker Plate Lids
**Options:** Galvanizing, 25Ø Perforations

Plan View - Sump

Plan View - Cover

Side View

End View

**General Notes:**
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

**Drainage Sump w/ Cover**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Sump:</td>
<td>1,555 lbs / 710 kgs</td>
</tr>
<tr>
<td>Cover:</td>
<td>125 lbs / 60 kgs</td>
</tr>
</tbody>
</table>

Scale: 1:20 mm  
Rev: 28Jun08  
Dwg#: **SVVZ-20-SUMP-C**
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

Drainage Sump w/ Cast Iron Frame and Grate

Sump: 1,555 lbs / 710 kgs
Grate & Frame: 210 lbs / 95 kgs

Scale: 1:20 mm  Rev: 28Jun08
Dwg#: SVVZ-NC-SUMP-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

Fish Ladder

Sump: 2,950 lbs / 1,340 kgs

Scale: 1:20 mm

Rev: 21Jul14

Dwg#: HD00-ZZ-FISH-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Site Installation, Backfilling & Suitability for Use is the responsibility of others
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading

255Ø Lawn Drain w/ 305Ø Cast Iron Grate

Drain: 130 lbs / 60 kgs
Grate: 8 lbs / 8 kgs
Total: 148 lbs / 68 kgs

Scale: 1:10 mm  Rev: 28Jun08
Dwg#: LAWN-20-0255-C
General Notes:
- Products manufactured in accordance with CSA A23.4
- Site Installation, Backfilling & Suitability for Use is the responsibility of others.
- Custom wall design available upon request

Lock & Load Retaining Wall

Wall: 160 lbs / 73 kgs

Scale: 1:10 mm
Rev: 28Jun08
Dwg#: LOCK & LOAD-1-C
**A) Corner Piece**

![Corner Piece Diagram]

5/16" Stainless Steel Loop

**Note:** Left Corner shown
Right Corners available
Inside Corners also available

**Plan View**

**Front View**

**Side View**

---

**B) Cap Stone**

![Cap Stone Diagram]

**Note:** Std Cap Stone Shown
45° Corners also available

**Plan View**

**Front View**

**Side View**

---

**General Notes:**
- Products manufactured in accordance with CSA A23.4
- Site Installation, Backfilling & Suitability for Use is the responsibility of others.
- Custom wall design available upon request

---

**Lock & Load Corner Piece & Cap Stone**

Corner: 140 lbs / 64 kgs
Cap Stone: 135 lbs / 61 kgs

Scale: 1:10 mm
Rev: 28Jun08

Dwg#: LOCK & LOAD-2-C
General Notes:
- Products manufactured in accordance with CSA A23.4
- Site Installation, Backfilling & Suitability for Use is the responsibility of others.
- Custom wall design available upon request
General Notes:
- Product manufactured in accordance with CSA A23.4
- 50 (2") High Letters on 305 x 305 Cable Marker
- 100 (4") High Letters on 610 x 610 Cable Marker
- Arrows Positioned as Required
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

Cable Markers

305 Sq: 40 lbs / 20 kgs
610 Sq: 610 lbs / 100 kgs

Scale: 1:10 mm  Rev: 28Jun08
Dwg#: 00CM-ZZ-2424-C
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

<table>
<thead>
<tr>
<th>Pad: 200 lbs / 91 kgs</th>
<th>Scale: 1:10 mm</th>
<th>Rev: 28Jun08</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dwg#: FPAD-ZZ-2424-C</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Site Installation, Backfilling & Suitability for Use is the responsibility of others
General Notes:
- Product manufactured in accordance with CSA A23.4
- Lift Points Provided (See Shop Drawing for Quantity & Locations)
- Anchor Pins are Available as a Separate Item
- Site Installation & Suitability for Use is the responsibility of others
Plan View

Side View

**General Notes:**
- Product manufactured in accordance with CSA A23.4
- Site Installation, Backfilling & Suitability for Use is the responsibility of others

- Suitable for C23 / C23A Cast Iron Frame & Cover
- **Hook Size:** 10-8 (WLL= 3.15 T) Fits Recess
- **Maximum Lift:** 4 Risers w/ Lift Loops but lifting Voids Must align with 2nd Product otherwise Damage may Occur
  (min 1500 Rigging Length w/ 3 Lifter Bridle)
- Risers to be Set using Non-Shrink Grout by Others
Ladder Rung Slots
(150 & 100 Riser Only)

Plan View

General Notes:
- Site Installation, Backfilling & Suitability for Use is the responsibility of others
- Product manufactured in accordance with CSA A23.4
- Suitable for C18 Cast Iron Frame & Cover

Riser Grade Rings MH 610Ø

H= 50(2"): 80 lbs / 36 kgs
H = 100(4"): 160 lbs / 73 kgs
H = 150(6"): 250 lbs / 91 kgs

Scale: 1:10 mm  Rev: 28Jun08
Dwg#: 00GR-41-ZZZZ-C
Plan View - Square Frame

Plan View - Round Frame

Section

Section

General Notes:
- Suitable for installation in roadways
- Site installation is the responsibility of others
- Custom marking of cover available (Electrical, Water, etc.)
- Available in Ductile Iron

C23 Cast Iron Manhole Frame and Cover

Frame: 340 lbs / 154 kgs
Cover: 240 lbs / 109 kgs

Scale: 1:20 mm
Rev: 28Jun08
Dwg#: MHFC-97-0760-C
General Notes:
- Suitable for installation in roadways
- Site installation is the responsibility of others
- Custom marking of cover available (Electrical, Water, etc.)
- Available in Ductile Iron

C18 Cast Iron Frame and Cover

Frame: 240 lbs / 109 kgs  
Cover: 140 lbs / 63 kgs

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Scale: 1:10 mm  
Rev: 28Jun08

Dwg#: MHFC-96-0610-C
MR-6 Valve Box

H = 467 (18-3/8") : 80 lbs / 36 kgs
H = 314 (12-3/8") : 55 lbs / 25 kgs

Approx. Weight: 54 lbs / 25 kgs
Wgt: 15 lbs / 7 kgs

Lid Marking: "SEWER" or "WATER" or "OBSERV'N MONITOR WELL"

H-20 Traffic Load Rated

Dwg#: MHFR-93-MR6-C
Scale: NTS
Rev: 28Jun08
Plan - Valve Box

Plan - Lid

Section

H-20 Traffic Load Rated
Option: Boltdown Lid
Lid Marking: "SEWER" or "WATER"

Elevation / Section

MR-8 Valve Box

Box: 125 lbs / 57 kgs

Scale: NTS
Rev: 20Jan09

Dwgf#: MHFR-93-MR8-C
Plan View

19

270

323

272

Bolt Locking Bar

104

254

454

Section

D-14C Cleanout

Cleanout: 75 lbs / 34 kgs

Scale: 1:8 mm
Rev: 28Jun08

Dwg#: MHFC-93-D14C-C
Ceiling Mount Brackets
- Shipped Loose

Wall Mount Brackets
- Contractor Can Specify Custom Length
- Bracket can be Welded to Ladder at Specified Location
- Typically Shipped Loose
- MH Mount Brackets Available upon Request

Standard Dimensions

Safety Post
Extends and Locks
915mm Above Ladder

General Notes:
- Meets or Exceeds CSA Grade 1 Heavy Duty, ANSI Type 1A & OSHA (WLL: 300 lbs)
- Standard Ladder Lengths are 3.0m, 3.66m, & 6.0m (10’, 12’, 20’)

Hardware Required to Install (Supplied & Installed by Others):
- 1/2"Ø SS Bolts
- 1/2"Ø SS Hilti Anchors

Installation Instructions:
- Ladders Typically Supplied Over Length to allow for Risers
- Ladders over 3.66m Long are Supplied with an additional Center Support
- Cut Ladder to Length Ensuring Clearance to the Access Hatch or MH Casting
- Top Rung to be within 500mm of Finished Grade Elevation
- Top Brackets to be Mounted within Top 2 Rungs (203 from Top of Ladder)
- Manhole Mount Brackets Available Upon Request
- Install Foot Brackets to Ladder by Drilling and Bolting through Ladder Frame
  (1/2"Ø SS Bolt)
  - Position Ladder & Mark Holes in the Ladder Frame for the Ceiling / Wall Brackets
  - Drill Holes in Ladder Frame
  - Install the Ceiling or Wall Mount Brackets to Ladder (1/2"Ø SS Bolts)
    - 1 Each (Typ 4 to 6)
  - Place Ladder in Position & Hilti Bolt Brackets to Floor & Ceiling / Wall
    (1/2"Ø SS Hilti Anchors)
- Confirm that All Bolts are Tight, Ladder is Secure, Safety Post Operates Smoothly & doesn't Interfere with Access Cover
Plan

Front View

Side View

Aluminum Ladder Rung

Rung: 0.75 lbs / 0.4 kgs

Scale: 1:4 mm
Rev: 28Jun08

Dwg#: VCLA-19AL-RUNG-C
AE Concrete is a Distributor of the following products:

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<th>B</th>
<th>C</th>
<th>D</th>
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<th>OUTLET K/O</th>
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All Dimensions in mm unless noted otherwise

Other Lid options & sizes may be available

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**Donut Cover-Section**

**Sump-Plan**

**Sump-Section**

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### 12"Ø (305mm) Risers & Covers
- 305Ø x 152 Riser: 40 lbs
- 305Ø x 457 Riser (2 K/O): 145 lbs
- Cover Solid Concrete: 25 lbs
- Cover Cast Iron D-14 Grate: 35 lbs

### 18"Ø (457mm) Risers & Covers
- 457Ø x 152 Riser: 65 lbs
- 457Ø x 305 Riser: 130 lbs
- 457Ø x 610 Riser (2 K/O): 270 lbs
- Cover Solid Concrete: 30 lbs
- Cover Perforated Concrete: 30 lbs
- Cover Cast Iron B-26C Grate: 75 lbs

### 24"Ø (610mm) Risers & Covers
- 610Ø x 152 Riser: 130 lbs
- 610Ø x 254 Riser: 260 lbs
- 610Ø x 610 Riser: 515 lbs
- 610Ø x 915 Riser: 750 lbs
- Cover Solid Concrete: 120 lbs
- Cover Cast Iron B-22B Grate: 155 lbs

### 30"Ø (762mm) Risers & Covers
- 762Ø x 152 Riser: 150 lbs
- 762Ø x 152 Riser: 300 lbs
- 762Ø x 254 Riser: 700 lbs
- 762Ø x 915 Riser: 960 lbs
- Cover Solid Concrete: 190 lbs
- Cover Cast Iron B-22C Grate: 95 lbs
- Cover Donut Lid w/ 610Ø Opening (H-20): 300 lbs

### 36"Ø (915mm) Risers & Covers
- 915Ø x 152 Riser: 195 lbs
- 915Ø x 254 Riser: 385 lbs
- 915Ø x 254 Riser: 770 lbs
- 915Ø x 915 Riser: 1150 lbs
- Cover Solid Concrete: 250 lbs
- Cover Donut Lid w/ 610Ø Opening (H-20): 350 lbs
- Ladder Rungs Available in 915H Riser