





KEY PLAN

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RANKIN INLET UTILIDOR REPLACEMENT

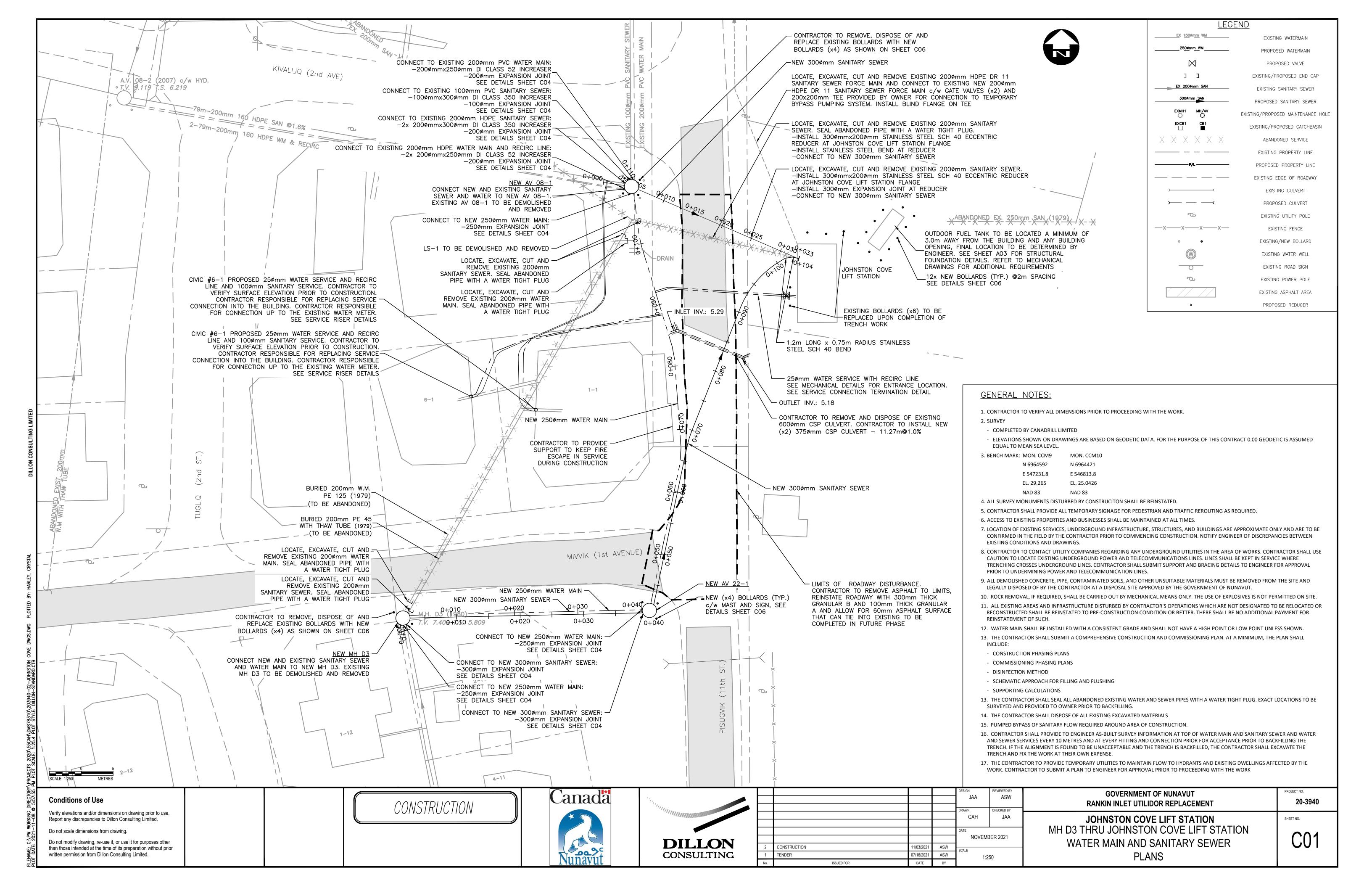
GOVERNMENT OF NUNAVUT

JOHNSTON COVE LIFT STATION

PROJECT NO. 20-3940

CONSTRUCTION

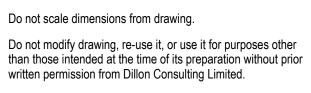
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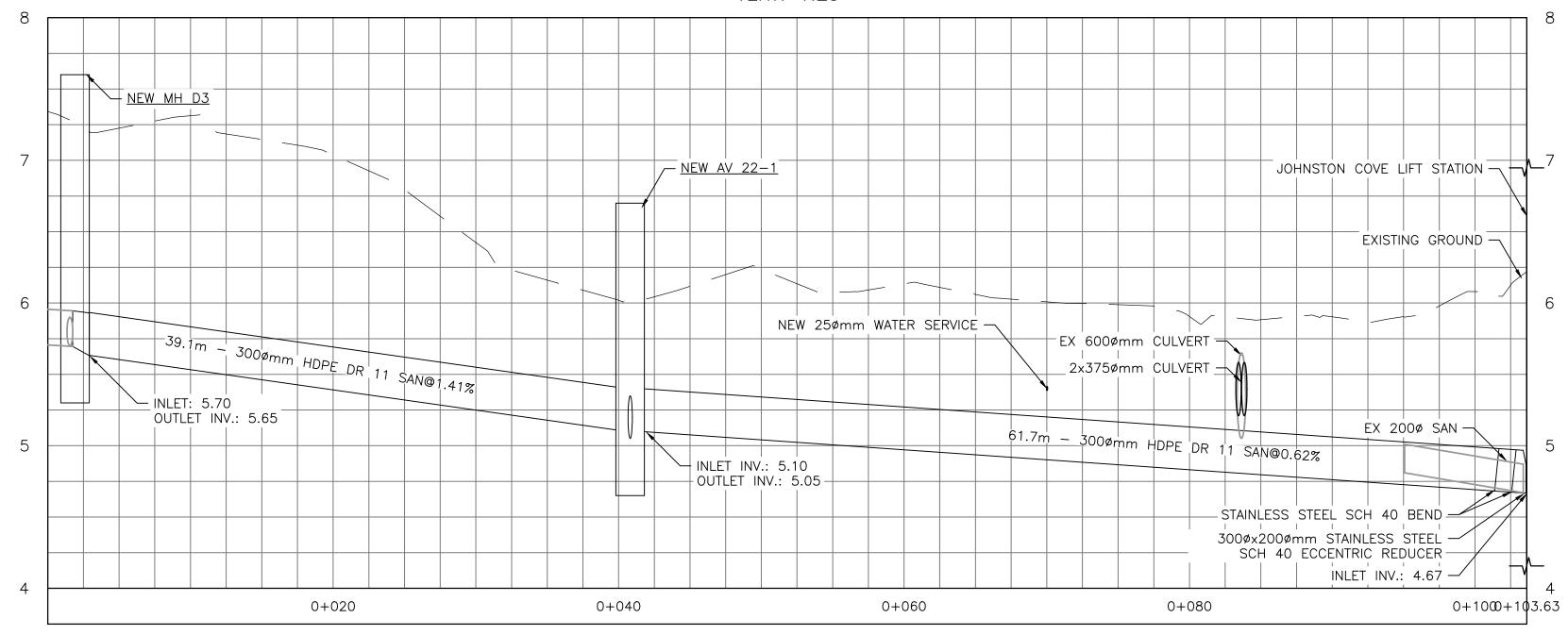
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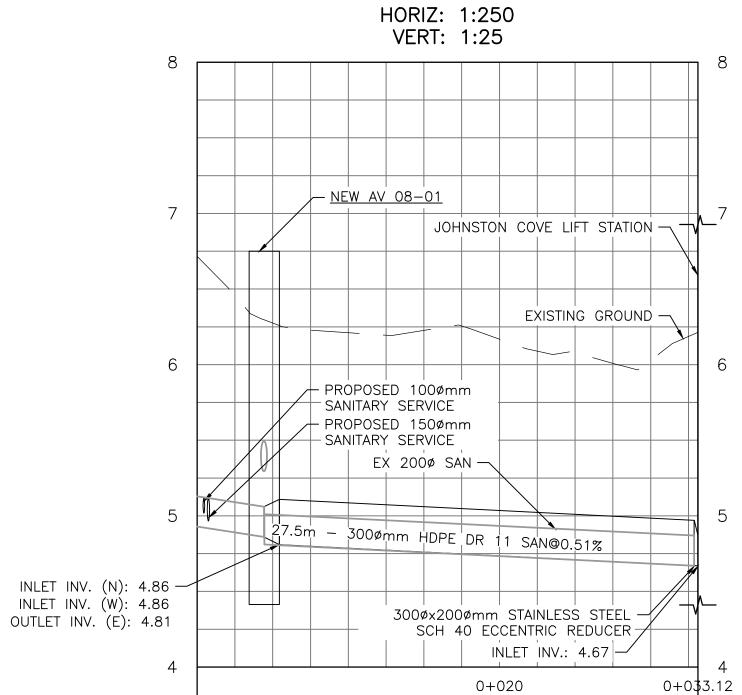


SANITARY SEWER PROFILE - MH D3 THRU JOHNSTON COVE LIFT STATION

HORIZ: 1:250 VERT: 1:25

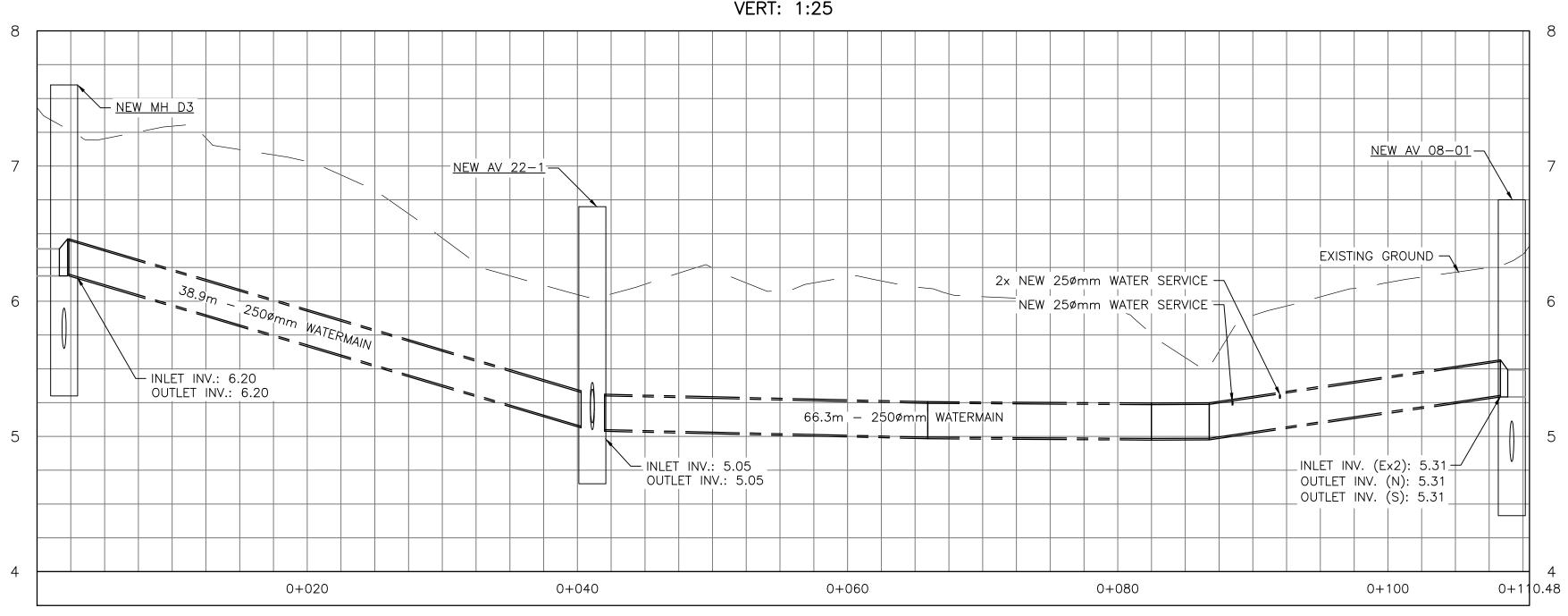


SANITARY SEWER PROFILE - AV 08-1 THRU JOHNSTON COVE LIFT STATION



WATER MAIN PROFILE - MH D3 THRU AV 08-1

HORIZ: 1:250 VERT: 1:25



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JOHNSTON COVE LIFT STATION
MH D3 THRU JOHNSTON COVE LIFT STATION
WATER MAIN AND SANITARY SEWER
PROFILES

GOVERNMENT OF NUNAVUT

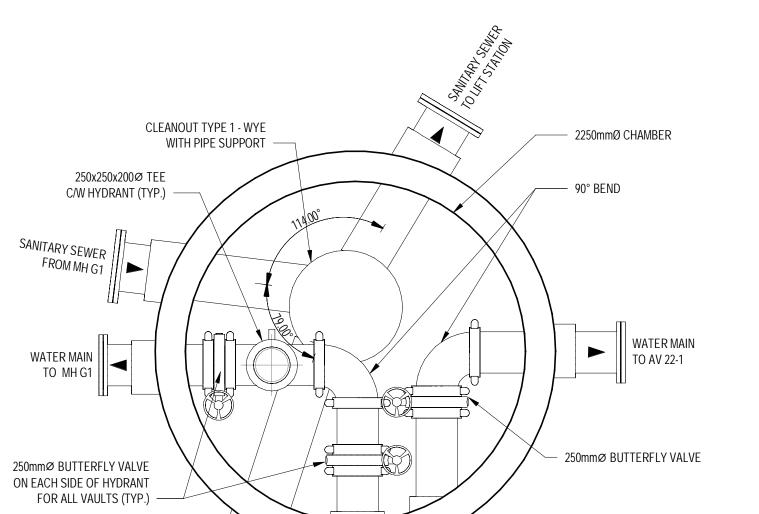
PROJECT NO.

20-3940

SHEET NO.

C02







AV08-1

WATER MAIN DIAMETERS (mm) / INVERTS (m)

MH G1 AV08-02

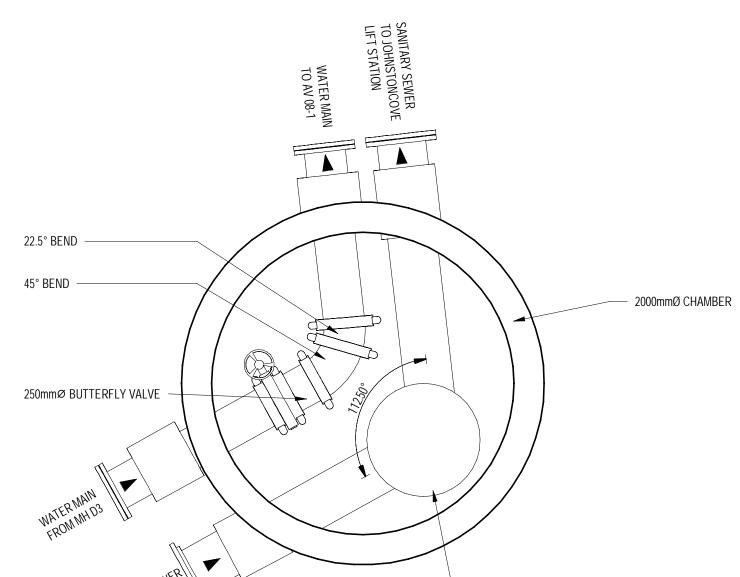
OUTLET INLET

250 / 5.31 250 / 5.31

AV22

OUTLET

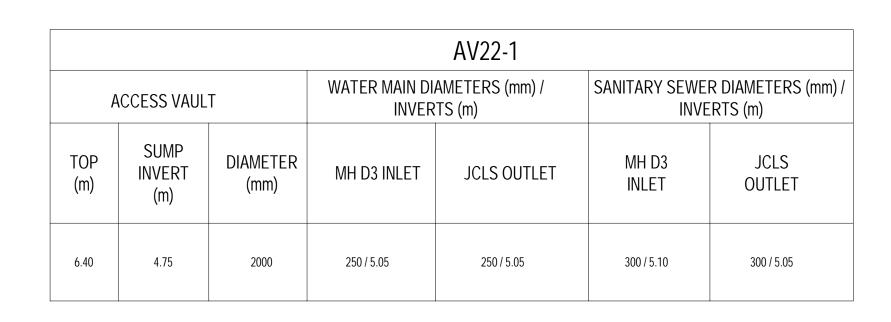
250 / 5.31



AV 22-1 PLAN BELOW GRADE

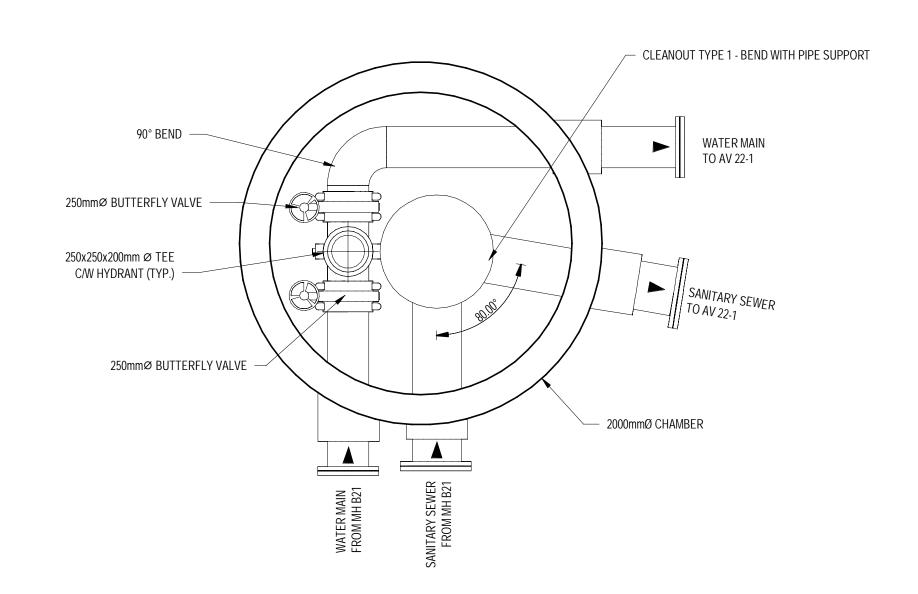
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CLEANOUT TYPE 1 - BEND WITH PIPE SUPPORT









MH D3 PLAN BELOW GRADE

SCALE: 1:25

				MH D3			
	ACCESS VAUL	Т		NAMETERS (mm) / RTS (m)	SANITARY SEWER DIAMETERS (mm) / INVERTS (m)		
TOP (m)	SUMP INVERT (m)	DIAMETER (mm)	MH B21 INLET	AV22-1 OUTLET	MH B21 INLET	AV22-1 OULET	
7.70	5.35	2000	250 / 6.20	250 / 6.20	300 / 5.70	300 / 5.65	

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ACCESS VAULT

INVERT

4.51

TOP

(m)

6.75

DIAMETER AV08-2

2250

INLET

250 / 5.31

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CONSTRUCTION

SANITARY SEWER DIAMETERS (mm) /

INVERTS (m)

JCLS

OUTLET

300 / 4.81

MH G1

AV08-2

INLET INLET

300 / 4.86 300 / 4.86

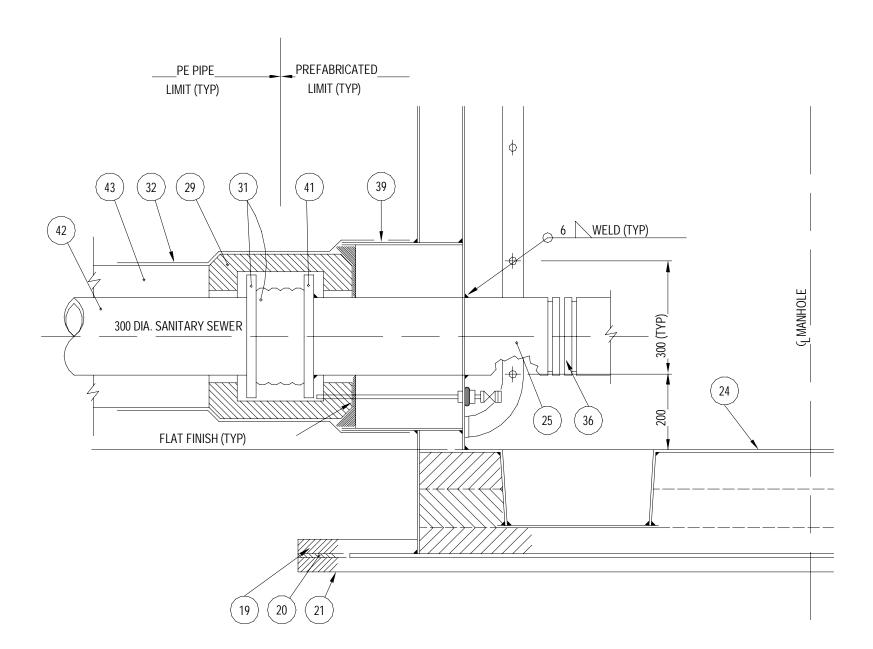




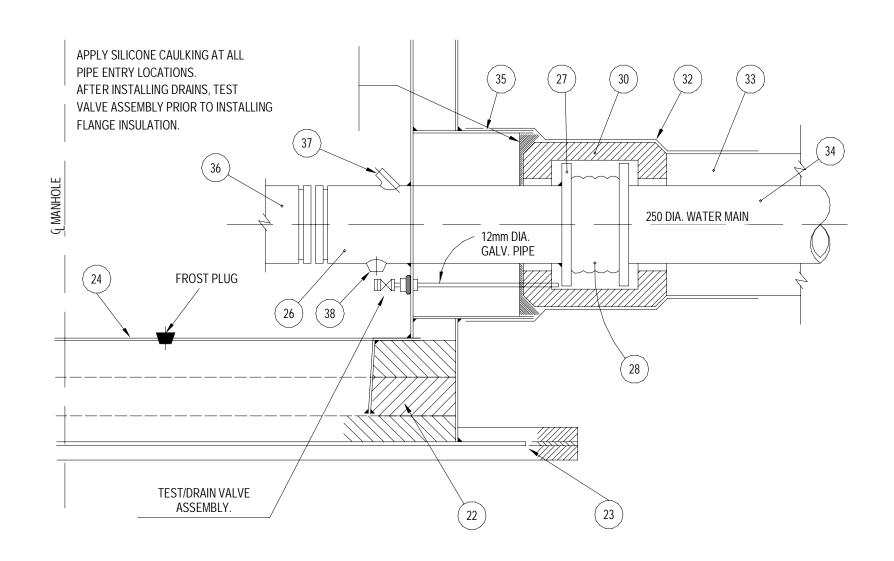
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GOVERNMENT OF NUNAVUT	PROJECT NO.
RANKIN INLET UTILIDOR REPLACEMENT	20-3940
JOHNSTON COVE LIFT STATION	SHEET NO.
ACCESS VAULT PLANS AND SECTIONS	C03

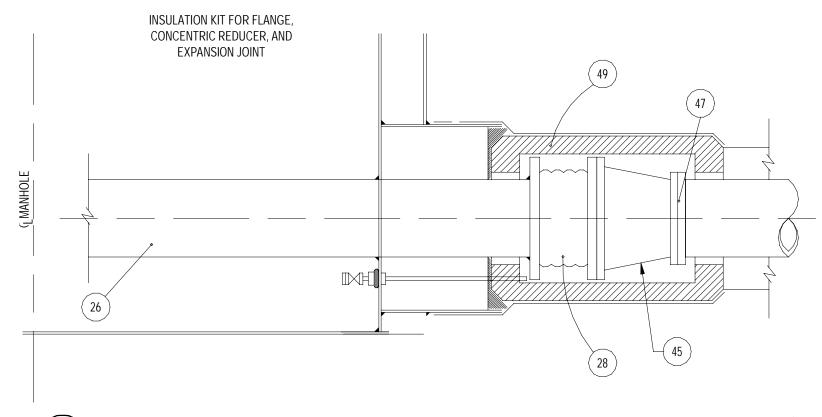
<u>_TYPICAL HYDRANT ACCESS VAULT PENETRATION</u>



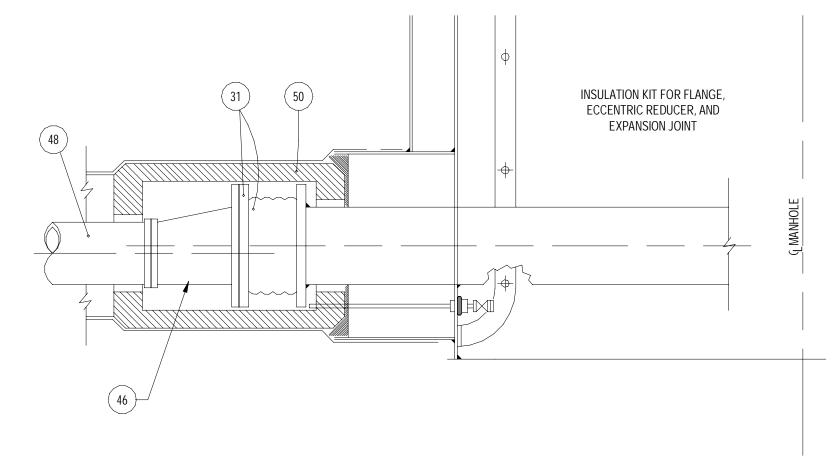
TYPICAL SANITARY ACCESS VAULT PENETRATION



TYPICAL WATER MAIN ACCESS VAULT PENETRATION



1 TYPICAL WATER MAIN ACCESS VAULT PENETRATION WITH INCREASER/REDUCER



<u>TYPICAL SANITARY SEWER ACCESS VAULT PENETRATION WITH ECCENTRIC INCREASER/REDUCER</u>

GENERAL NOTES:

- 1. CONSTRUCT ACCESS VAULTS FROM 6mm STEEL PLATE WITH CONTINUOUS (FULLY) WELDED CONSTRUCTION. FABRICATE COMPLETELY PRIOR TO EPOXY COATING.
- WELDING & FABRICATION TO CSA W59-1977 & W47-1-1973.
- 2. ALL STEEL TO BE CASA G40-21 /TYPE 260W, OR ASTM A36-62T.
- 3. ALL PIPING INSIDE THE ACCESS VAULTS IS TO BE PREFABRICATED TO THE LIMITS SHOWN ON THE TYPICAL SECTION AND AS SHOWN ON THE PLANS. PROVIDE PIPE ENTRY SPOOL PIECES, LADDER MOUNTING STUDS & ALL OTHER ACCESS VAULT HARDWARE, ETC., AS REQUIRED, PRE-WELDED IN PLACE PRIOR TO SANDBLASTING
- AND EPOXY COATING. 4. ALL PREFABRICATED STEEL PARTS OF ACCESS VAULT (EXCEPT TOP PLATE, HATCH AND LADDER) INCLUDING PIPE ENTRY SPOOL PIECES, SHALL BE SANDBLASTED AND
- EPOXY COATED INSIDE AND OUTSIDE. 5. TOP PLATE, HATCH, HINGES & LADDER, SHALL BE HOT DIPPED GALVANIZED TO CSA
- G164 MINIMUM 610 G/M2.
- 6. ALL NUTS, BOLTS, WASHERS, SCREW ETC., HOT DIPPED OR CADMIUM PLATED.
- 7. FLANGE INSULATION KITS AND STYROFOAM ACCESS VAULT BASE INSULATION SUPPLIED AS PART OF ACCESS VAULTS.
- 8. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS OTHERWISE NOTED.

KEY TO NUMBERED PARTS:

- 1. GASKET 50 mm X 3 mm, COMPRESSIBLE NEOPRENE RUBBER.
- 2. 12 mm Ø GALVANIZED STEEL BOLTS, NUTS AND WASHERS @ 210 mm EQUAL SPACING. 3. HASP ASSEMBLY.
- 4. 50 mm X 60 mm X 12 mm STEEL HINGE BASE PLATE WELDED TO ACCESS VAULT TOP.
- 5. 19 mm X 38 mm 35 DUROMETER SOFT NATURAL RUBBER STRIP (REVERSIBLE) GASKET TO ACHIEVE AIRTIGHT & WATERPROOF SEAL ALL AROUND.
- 6. 50 mm X 4 mm STEEL BAR WELDED TO LID.
- 7. LIFTING EYE 12 mm Ø STEEL DIA. STEEL X 40 mm INSIDE LOOP.
- 8. 6 mm GALVANIZED STEEL NUT, COUNTERSUNK BOLT & WASHER @ 100 mm CENTERS.
- 9. 6 mm X 19 mm GALVANIZED STEEL COUNTERSUNK SHEET METAL SCREWS @ 100 mm CENTRES.
- 10. POLYURETHANE SHEET INSULATION, 240 KPA CUT TO SIZE.
- 11. 20 mm THICK HIGH DENSITY POLYETHYLENE.
- 12. HINGES SPACED AT 400 mm APART.
- 13. THUNDER-LINE CORP. LINK-SEAL MODEL LS-500-C (200X350) OR APPROVED EQUAL TO FIT ITEMS 14 & 40.
- 14. 200 mm CRANE MCAVITY M-67 "IN-LINE" FIRE HYDRANT.
- 15. LIFTING LUGS TWO PER ACCESS VAULT. 150 mm X 75 mm X 12 mm THK. WITH 38 mm Ø LIFTING EYE, C/W 200 X 200 X 12 STEEL REINFORCING PLATE CURVED TO RADIUS, CONTINUOUSLY WELDED. CAPACITY OF LIFTING LUGS TO BE CONFIRMED BY
- 16. 65 mm Ø THREADED STEEL HALF NIPPLE CONDUIT SLEEVE (FOR EXTENSION CORD OR SUMP PUMP DISCHARGE) IN
- APPROPRIATE LOCATION, C/W THREADED GALV. STEEL CAPS.
- 17. SPRAYED POLYURETHANE INSULATION, 240 KPA. 18. LADDER. LENGTH AS REQUIRED. 450 mm WIDE MADE FROM 65 mm X 12 mm FLAT BAR VERTICALS & SUPPORTS WITH 20 mm
- DIA. RUNGS. WELDED CONSTRUCTION THROUGHOUT. ALL EDGES TO BE GROUND SMOOTH. GALVANIZE AFTER FABRICATION. FASTEN WITH STUDS WELDED TO INNER WALL. FALL ARREST TIE OFF POINT TO BE SUPPLIED. CAPACITY AND DESIGN TO BE COMPLETED BY MANUFACTURER.
- 19. 38 mm THK STYROFOAM, 4 PCS, OUTER EDGE TO MATCH ITEM 21 DOW CHEMICAL HI 60, 410 KPA COMPRESSIVE STRENGTH. 20. FILLER PIECE. 10 mm THICK STYROFOAM INSULATION DOW CHEMICAL HI 60.
- 21. 38 mm THICK X 2438 X 2438 STYROFOAM INSULATION DOW CHEMICAL HI 60.
- 22. POLYURETHANE SHEET INSULATION CUT TO SIZE, 240 KPA.
- 23. 10 mm THICK X 2438 X 2438 SQUARE STEEL BASE PLATE. 24. 6 mm THICK STEEL PLATE ACCESS VAULT CONSTRUCTION.
- 25. 300 mm Ø/250 mm Ø SANITARY SEWER ENTRY. SCHEDULE 80 STEEL PIPE SPOOL PIECE. 26. 250 mm Ø WATER MAIN ENTRY. SCHEDULE 80 STEEL PIPE SPOOL PIECE.
- 27. 250 mm Ø/300 mm Ø WELDED STEEL SLIP-ON FLANGE. FLANGE DIAMETER TO MATCH EXPANSION JOINT FLANGE DIAMETER.
- 28. 250 mm Ø EXPANSION JOINT, MERCER STYLE 454E OR APPROVED EQUAL. REFER TO SPECIFICATIONS..
- 29. INSULATION KIT FOR 200mmØ / 300Ø FLANGE + EXPANSION JOINT, (MASTIC COAT INNER SURFACES) AND FRP COATING. 30. INSULATION KIT FOR 250mmØ FLANGE + EXPANSION JOINT, (MASTIC COAT INNER SURFACAES) AND FRP COATING.
- 31. 300 mm Ø EXPANSION JOINT, MERCER STYLE 454NI OR APPROVED EQUAL. REFER TO SPECIFICATIONS..
- 32. RAYCHEM THERMACLAD HEAT SHRINK TAPE, 2 LAYER, MIN. 50% OVERLAP EACH WRAP. 33. 50 mm THICK POLYURETHANE INSULATION HALVES OR PE PIPE PRE-INSULATION TO SUIT PIPE SIZES.
- 34. 250 mm (IP SIZE) DR 11 HDPE WATER MAIN.
- 35. STEEL RING SECTION WELDED TO ACCESS VAULT OUTER WALL.
- 36. HOT DIPPED GALVANIZED STEEL PIPING.
- 37. 50 mm Ø LATROLET. 38. 25 mm Ø THREADOLET.
- 39. STEEL RING SECTION WELDED TO ACCESS VAULT OUTER WALL.
- 40. 350 mm Ø SCHEDULE 10 (346 mm ID) STEEL PIPE X 100 M LONG WELDED TO ACCESS VAULT TOP PLATE. 41. 300 mm Ø WELDED STEEL SLIP-ON FLANGE. FLANGE DIAMETER TO MATCH EXPANSION JOINT FLANGE DIAMETER.
- 42. 300 mm Ø (IP SIZE) DR 11 HDPE SEWER MAIN.
- 43. 50 mm THICK POLYURETHANE INSULATION HALVES OR PE PIPE PRE-INSULATION TO SUIT PIPE SIZES. 44. POLYETHYLENE LINER TUBE, PACK WITH STYROFOAM INSULATION.
- 45. 250 X 200 mm DIA. OR 250 X 150 mm DIA D.I. INCREASER/REDUCER TO MATCH EXTERIOR PIPE SIZE. 46. 300 X 200 mm DIA. OR 300 X 150 mm DIA. D.I. INCREASER/REDUCER TO MATCH EXTERIOR PIPE SIZE.
- 47. 150 mm DIA. OR 200 mm DIA. PE OR HDPE WATER MAIN.
- 48. 150 mm DIA. OR 200 mm DIA. PE OR HDPE SANITARY SEWER.
- 49. INSULATION KIT FOR FLANGE, CONCENTRIC REDUCER AND EXPANSION JOINT, (MASTIC COAT INNER SURFACES) AND FRP
- 50. INSULATION KIT FOR FLANGE, ECCENTRIC REDUCER AND EXPANSION JOINT, (MASTIC COAT INNER SURFACES) AND FRP COATING.

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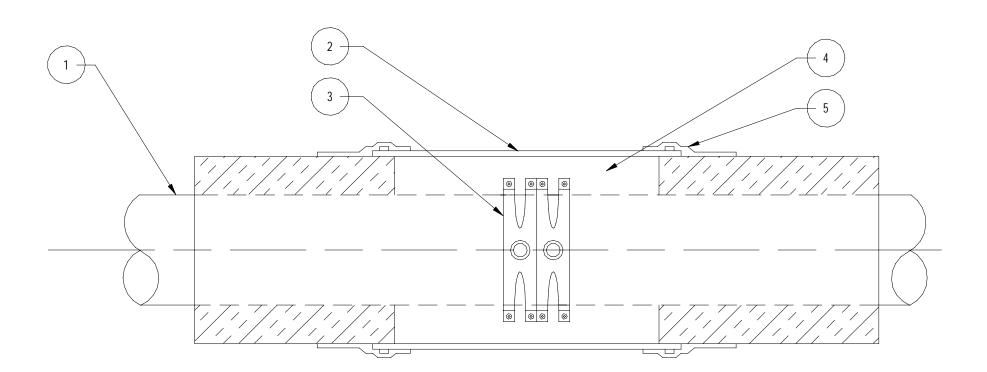
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PROJECT NO. GOVERNMENT OF NUNAVUT 20-3940 RANKIN INLET UTILIDOR REPLACEMENT WATER AND SANITARY VAULT PENETRATION DETAILS



KEY TO NUMBERED PARTS:

- 1. WATER MAIN DR 11 HDPE PIPE c/w 75mm APPLIED POLYURETHANE INSULATION & FRP JACKET. 2. INSULATION FORM (SEE DETAIL), SIZED TO FIT WATER MAIN O.D. AND SERVICE LATERAL O.D., 25mm LAP REQUIRED ON EACH SIDE. 3. 2x ROBAR 2706 TAPPING SADDLE, DOUBLE STRAP OR EQUAL.
- 4. FIELD POURED POLYURETHANE INSULATION FOAM (207 kPa COMPRESSIVE STRENGTH). 5. HEAT SHRINK SLEEVE, MIN. 100mm LAP ON BLACK JACKET.

NOTES:

1. ALL EXPOSED SURFACES OF POLYURETHANE TO BE FIELD COATED WITH MASTIC. 2. METAL SURFACES IN CONTACT WITH FIELD POURED POLYURETHANE INSULATION SHALL BE COATED WITH OIL SEPARATING AGENT.



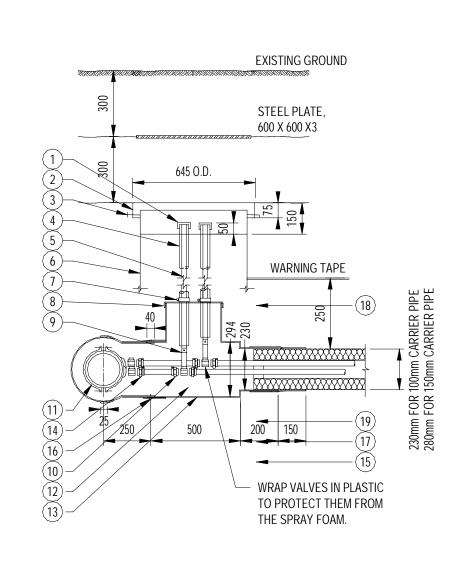
SERVICE SIZING TABLE

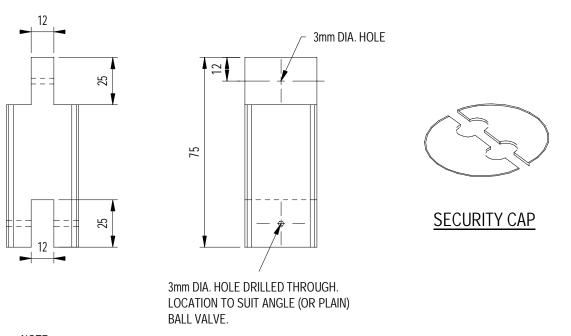
Building Type	Water Supply	Water Return	Sanitary Sewer	Carrier Pipe
Single family	25 mm	25 mm	100 mm	100 mm
2-plex	25 mm	25 mm	100 mm	100 mm
3-plex	25 mm	25 mm	100 mm	100 mm
4-plex	25 mm	25 mm	100 mm	100 mm
6-plex	38 mm	25 mm	150 mm	150 mm
8-plex	38 mm	25 mm	150 mm	150 mm
10-plex	38 mm	25 mm	150 mm	150 mm

TYPICAL WATER SERVICE SIZING TABLE ONLY

KEY TO NUMBERED PARTS:

- 1. SNUG FITTING PLASTIC CAP. 2. STEEL LID MADE FROM 2.7mm THICK SHEET STEEL GALVANIZED AFTER FABRICATION.
- 3. 12mm DIA. SCREW BOLT WITH WELDED NUT, GALVANIZED (FOUR PER LID) 4. 50 DIA. DR 9 HDPE PIPE VALVE EXTENSION FIELD CUT TO LENGTH AND FILLED WITH ESSO EPIC-102 GREASE.
- 5. VALVE OPERATING ROD CONNECT TO ITEM 45 WITH BRASS COTTER PIN.
- 6. 600mm DIA. 68 X 13 X 1.6mm THICK GALVANIZED STEEL CULVERT.
- 7. STAINLESS STEEL WORM GEAR HOSE CLAMP TO PREVENT MOVEMENT OF VALVE EXTENSION PIPE. CAULK WITH SILICON ALL AROUND.
- 8. 296mm INSIDE DIA. REMOVABLE GALVANIZED SHEET METAL CAP WITH FIELD CUT HOLES.
- 9. HDPE THERMAL BREAK CONNECT TO ITEM 2 WITH BRASS COTTER PIN. 10. BALL VALVES SHALL BE FORD B44-444 (25mm LINE) OR B66-777 (50mm LINE) WITH PACK
- JOINT FOR HDPE INCLUDING INSERT STIFFENER AND FOR COPPER PIPE ON END IN BUILDING. 11. HDPE IPS DR 11 WATER MAIN WITH 75mm POLYURETHANE INSULATION.
- 12. POLYURETHAN INSULATION FROM PORTABLE FOAM PACK TO FILL VOID.
- 13. BOTTOM INSULATION FORM OF GALVANIZED SHEET STEEL.
- 14. MAIN STOP SHALL BE FORD F1100 OR EQUAL WITH PACK JOINT AND SEAMLESS INSERT STIFFENER FOR HDPE IPS PIPE - 25mm DIA. OR 50mm DIA. AS REQUIRED.
- 15. HDPE DR11 SUPPLY AND RECIRCULATION PIPE FIELD INSTALLED CONTINUOUS LENGTH
- FROM COIL STOCK. 25mm CTS (BOTH) OR 50mm IPS WITH 25mm CTS RETURN. 16. No. 8 X 13mm CADMIUM PLATED SHEET METAL SCREWS.
- 17. HEAT SHRINK TO BE MIN. 100mm LAP ON BLACK JACKET AFTER SHRINKAGE.
- 18. POLYURETHANE OR FIBRE REINFORCED PLASTIC (FRP) FOAM PLUG. (MINIMUM 50mm THICK) 19. SHOP CAST 75mm (SEE SPECS) THICK POLYRETHANE INSULATION WITH BLACK JACKET
- PROTECTIVE COATING.

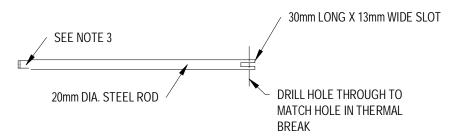




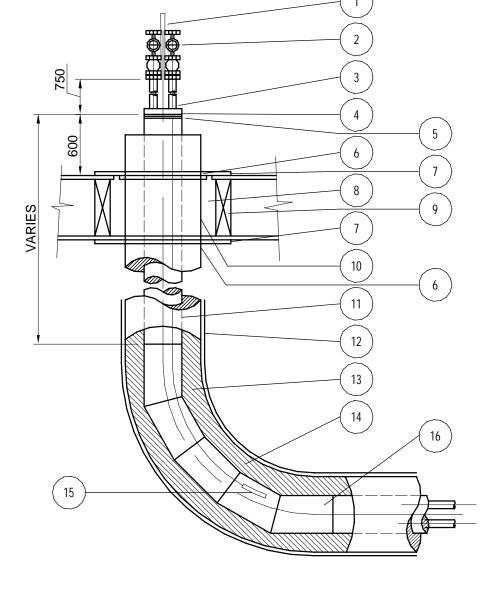
1. MADE FROM 38mm DIA. ROUND HDPE BAR STOCK

HDPE THERMAL BREAK

TO TOP OF CRANE McAVITY W-6221 ROD).



- 1. ROD SHALL BE FIELD FABRICATED. ZINC RICH PAINT COATED AFTER FABRICATION.
- 2. ROD SHALL BE SUFFICIENT LENGTH TO EXTEND FROM THERMAL BREAK TO TOP OF HDPE PIPE (ITEM 18) BUT SHALL NOT EXTEND ABOVE EXISTING GROUND SURFACE. 3. TOP SECTION OF ROD TO BE 32mm LONG X 19mm WIDE X 6mm THICK WITH 5mm LONG TOP BEVEL (SIMILAR



NOTES:

- 1. ALL EXPOSED SURFACES OF POLYURETHANE TO BE FIELD COATED WITH MASTIC.
- POLYURETHANE INSULATION SHALL BE COATED WITH OIL SEPARATING AGENT.
- CONTINUOUS WELDED SEAMS, HOT DIPPED GALVANIZED AFTER FABRICATION.

- 2. THE INSIDE SURFACES OF METAL TO BE IN CONTACT WITH FIELD POURED
- 3. INSULATION FORMS AND METAL COVER PARTS, TO BE 1.6mm THICK STEEL,

<u>TYPICAL WATER SERVICE RISER AT HOUSE</u>

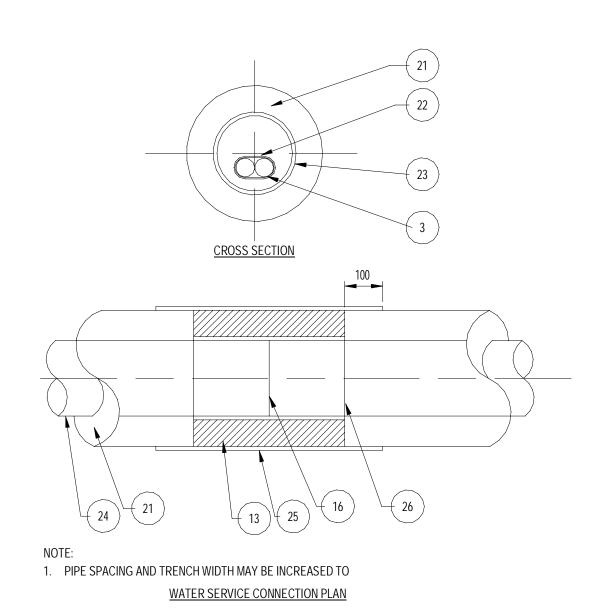
KEY TO NUMBERED PARTS:

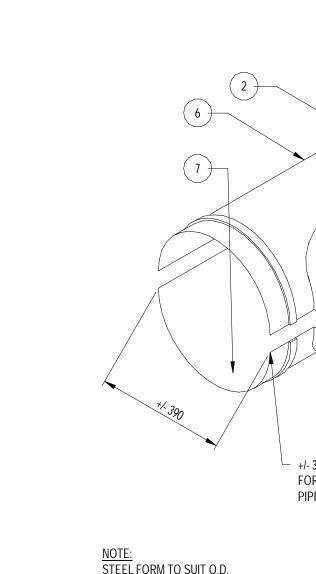
- 1. 2,000 mm EXCESS HEATING CABLE TO BE LEFT AT BOTH ENDS.
- 2. 25 mm BALL VALVES, COMPRESSION WITH SEAMLESS STAINLESS STEEL INSERT (MUELLER H-15219 OR EQUAL). 3. FIELD INSTALLED 25 mm OR 38 mm CTS HDPE DR 11 (1,100 KPA) SUPPLY & RETURN WATER SERVICE PIPE - CONTINUOUS LENGTH FROM COIL
- 4. SECURITY CAP.
- 5. STAINLESS STEEL GEAR CLAMP HOLDING SECURITY CLAMP IN PLACE.
- 6. CAULK WITH SILICON ALL AROUND.
- 7. 20 mm PLYWOOD GLUED AND SCREWED TO JOIST/STUDS AND HEADERS. 8. POLYURETHANE INSULATION FROM PORTABLE FOAM PACK TO FILL VOID.
- 9. FLOOR JOIST.
- 10. FIBERGLASS REINFORCED PLASTIC THIMBLE.
- 11. 100 mm OR 150 mm Ø HDPE DR 17 (690 KPA) CARRIER PIPE BUTT FUSED IN FIELD WITH BLIND FLANGE INSTALLED 1 M INSIDE PROPERTY LINE. 12. HEAT SHRINK TO SUIT.
- 13. POLYURETHANE HALF SHELL CUT TO LENGTH AND COATED WITH ASPHALT MASTIC.
- 14. LONG RADIUS 90° ELBOW REINFORCED PLASTIC JACKET.
- 16. BUTT FUSION JOINT MADE BY A QUALIFIED AND LICENSED JOINING TECHNICIAN.
- 17. HOLES TO FIT 25 mm HDPE LINES.

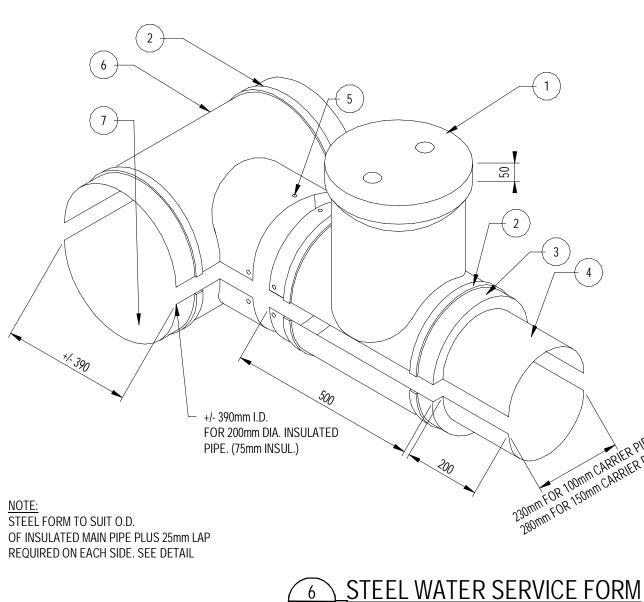
15. THERMOSTAT BULB.

- 18. 20 mm PLYWOOD TO FIT PIPE O. D..
- 19. 22 GA. SHEET METAL GALVANIZED. 20. HOLE FOR THERMOSTAT BULB AND HOLE FOR HEAT TRACE CABLE.
- 21. 50 mm NOMINAL THICKNESS SHOP CAST POLYURETHANE INSULATION AND BLACK JACKET.
- 22. TWO FULL TURNS OF POLYESTER PACKAGING TAPE APPLIED EVERY 2 M MIN..
- 23. 100 mm OR 150 mm Ø HDPE DR 17 (690 KPA) CARRIER PIPE BUTT FUSED IN FIELD WITH BLIND FLANGE INSTALLED 1 M INSIDE PROPERTY LINE.
- 24. 250mm Ø HDPE WATER MAIN WITH 50 mm POLYURETHANE INSULATION.
- 25. HEAT SHRINK SLEEVE MIN. 100 mm LAP ON BLACK JACKET AFTER SHRINKAGE.
- 26. FIELD COAT ALL EXPOSED POLYURETHANE WITH MASTIC. 27. DIA. TO SUIT INSULATED MAIN PIPE O. D. AND REQUIREMENT OF 25 mm LAP ON EACH SIDE.
- 28. STAINLESS STEEL GEAR CLAMPS.
- 29. HOLES TO BE DRILLED IN FIELD TO SUIT, FOR GALVANIZED SHEET METAL SCREWS. 30. DIA. TO SUIT INSULATED MAIN PIPE O. D. AND REQUIREMENT OF 25 mm LAP ON EACH SIDE.
- 31. ROBAR 2706 TAPPING SADDLE, DOUBLE STRAP SUPPLY AND INSTALL.
- 32. POLYURETHANE FOAM PLUG SUPPLY AND INSTALL. 33. PVC TAPE WRAPPED OVER ALL HEAT TRACE CABLE AND OVER PIPE/FITTINGS, ETC., WITHIN INSULATION FORM. (TO KEEP FIELD POURED
- URETHANE OUT FROM BETWEEN HEAT TRACING AND PIPING). 34. FIELD POURED POLYURETHANE INSULATION FOAM INSULATION 207 KPA COMPRESSIVE STRENGTH -SUPPLY AND INSTALL WATER SERVICE
- INSULATION FORMS.
- 35. 150 mm WIDE PE WARNING TAPE.
- 36. FIELD CUT HOLES (IF REQ'D FOR FOAM INJECTION) TO BE MASTIC COATED AFTER FOAM INJECTION. 37. 100mm Ø OR 150 mm Ø FACTORY FABRICATED DR 17 HDPE 45° BEND WITH FACTORY APPLIED POLYURETHANE INSULATION/FRP JACKET COVER AND PLAIN ENDS.
- 38. 25mm OR 38 mm BRONZE BALL CORPORATION STOP 25mm Ø MIPT INLET X 25mm Ø CTS HDPE DR 11 OR 38Ø MIPT X 38Ø CTS HDPE DR 11 -
- JOINT OUTLET C/W STAINLESS STL. INSERT STIFFENERS FORD BALL CORP. FB SERIES 1000 OR EQUAL. (2 REQUIRED PER SERVICE). 39. 100 X 100 WOODEN MARKER STAKE.

WATER NUMBERED PARTS LIST







KEY TO NUMBERED PARTS:

- 1. 296mm INSIDE DIA. REMOVABLE GALVANIZED SHEET METAL
- CAP WITH FIELD CUT HOLES.
- 2. STAINLESS STEEL BAND-IT CLIPS #M211.
- 3. 294mm OUTSIDE DIA. X 50mm LONG. 4. 200mm LONG, 230mm INSIDE DIA. FOR 100 DIA. CARRIER
- PIPE, 280mm INSIDE DIA FOR 150mm DIA. CARRIER PIPE. 5. HOLES TO BE DRILLED IN FIELD TO SUIT.
- 6. 390mm INSIDE DIA. X 560mm LONG FOR 200mm DIA. MAIN.
- 7. BOTTOM INSULATION FORM OF GALVANIZED SHEET STEEL.

4 TYPICAL WATER SERVICE CONNECTION AT MAIN SIDE (SECTION) VIEW

5 TYPICAL WATER SERVICE JOINT CONNECTION PLAN & CROSS SECTION

Conditions of Use

Verify elevations and/or dimensions on drawing prior to use. Report any discrepancies to Dillon Consulting Limited.

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Do not scale dimensions from drawing. Do not modify drawing, re-use it, or use it for purposes other than

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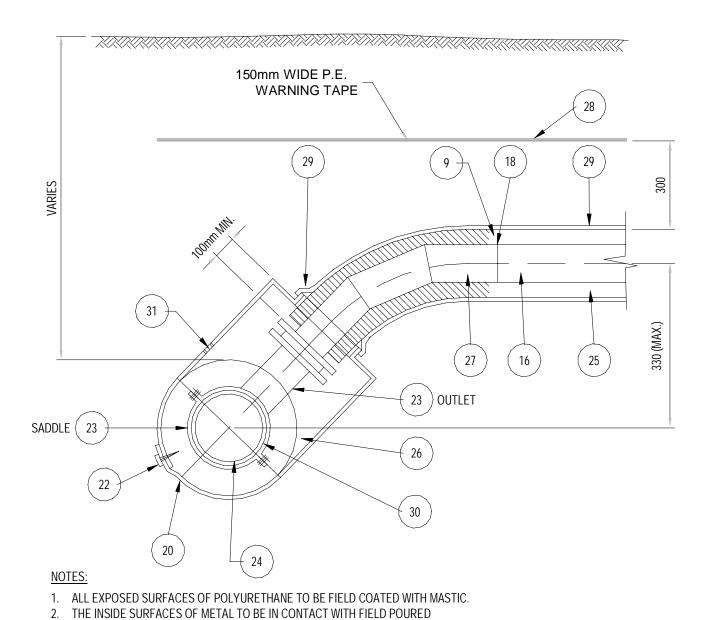
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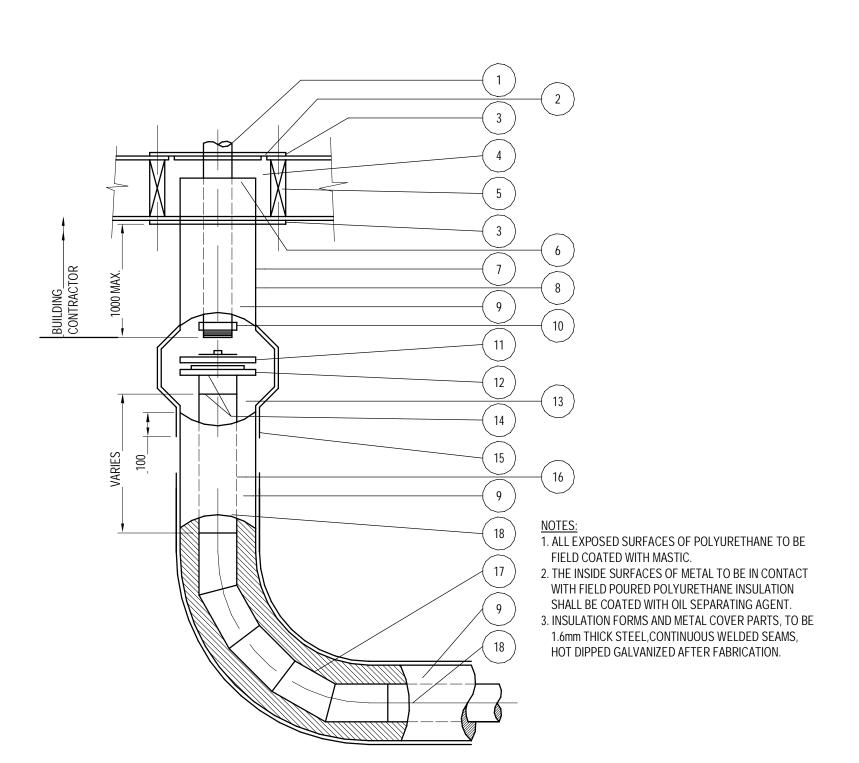
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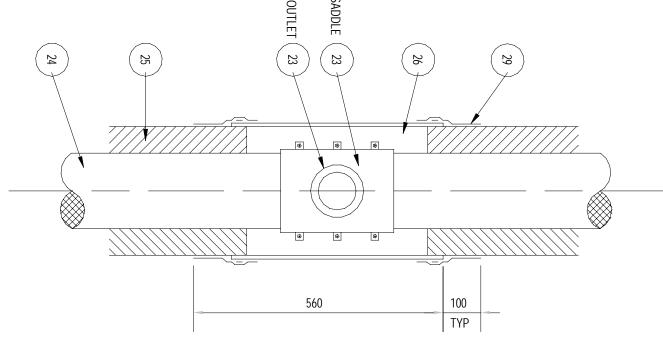


POLYURETHANE INSULATION SHALL BE COATED WITH OIL SEPARATING AGENT. 3. INSULATION FORMS AND METAL COVER PARTS, TO BE 1.6mm THICK STEEL,

CONTINUOUS WELDED SEAMS, HOT DIPPED GALVANIZED AFTER FABRICATION.

1 TYPICAL SANITARY SERVICE CONNECTION AT MAIN1



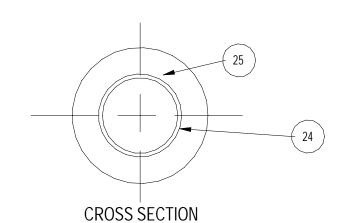


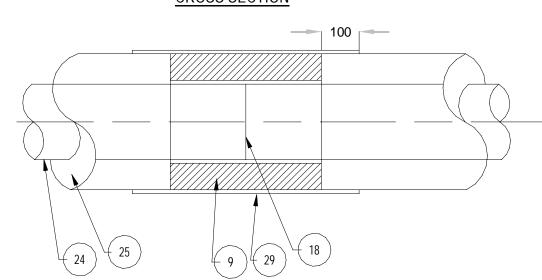
SERVICE CONNECTION PLAN

SERVICE SIZING TABLE

Building	Water	Water	Sanitary	Carrier
Туре	Supply	Return	Sewer	Pipe
Single family	25 mm	25 mm	100 mm	100 mm
2-plex	25 mm	25 mm	100 mm	100 mm
3-plex	25 mm	25 mm	100 mm	100 mm
4-plex	25 mm	25 mm	100 mm	100 mm
6-plex	38 mm	25 mm	150 mm	150 mm
8-plex	38 mm	25 mm	150 mm	150 mm
10-plex	38 mm	25 mm	150 mm	150 mm

TYPICAL SANITARY SERVICE CONNECTION AT MAIN AND SIZING TABLE





1. PIPE SPACING AND TRENCH WIDTH MAY BE INCREASED TO

SANITARY SERVICE CONNECTION PLAN

TYPICAL SANITARY SERVICE JOINT CONNECTION PLAN AND CROSS SECTION SCALE: NTS

- 1. 75 mm DIA. PVC OR ABS.
- 2. 200 mm CHIMNEY CLEAN OUT PLUG. CUT HOE TO FIT O. D. OF PIPE. 3. 20 mm PLYWOOD GLUED AND SCREWED TO JOIST/STUDS AND HEADERS.
- 4. POLYURETHANE INSULATION FROM PORTABLE FOAM PACK TO FILL VOID.
- 5. FLOOR JOIST.
- 6. SILICON SEALER APPLIED TO THIS SECTION BEFORE INSERTING INSULATED PIPE INTO OPENING. 7. 290 mm GALVANIZED THIMBLE 22 GA. TOP AND BOTTOM SCREWED TO PLYWOOD.
- 8. HEAT SHRINK TO SUIT.

KEY TO NUMBERED PARTS:

- 9. POLYURETHANE HALF SHELLS CUT TO LENGTH COATED WITH FIELD APPLIED MASTIC.
- 10. 100mm OR 150mm Ø ADAPTER SOCKETS X MPT TO SUIT BUILDING PLUMBING MATERIALS-BY OTHERS.
- 11. 100 mm OR 150mm Ø COMPANION FLANGE WITH RUBBER GASKET AND BOLTS DRILLED AND TAPPED, WITH 100mm
- OR 150mm Ø PVC TEMPORARY PLUG. 12. BACKUP RING FOR FLANGE ASSEMBLY.
- 13. INSULATION FIT FOR FLANGE ASSEMBLY.
- 14. STUB END BUTT FUSED TO 100 mm PE PIPE.
- 15. HEAT SHRINK TO FIT OVER INSULATION KIT ASSEMBLY. 16. SANITARY SERVICE 100mm OR 150mm DIA. WITH 50mm NOMINAL POLYURETHANE AND FACTORY INSTALLED.
- JACKET INSTALLED TO 1m INSIDE PROPERTY LINE AND TERMINATED WITH A BLIND FLANGE.
- 17. LONG RADIUS 90° ELBOW WITH FACTORY APPLIED POLYURETHANE INSULATION AND FIBERGLASS REINFORCED PLASTIC JACKET.
- 18. FIELD BUTT FUSION JOINT MADE BY A QUALIFIED AND LICENSED JOINING TECHNICIAN.
- 19. HOLES TO BE DRILLED IN FIELD TO SUIT. 20. DIA. TO SUIT INSULATED MAIN PIPE O. D. AND REQUIREMENT OF 25 mm LAP ON EACH SIDE.
- 21. STAINLESS STEEL GEAR CLAMPS.
- 22. GALVANIZED HEX HEAD METAL SCREWS.
- 23. ROBAR NO. 6626 OUTLET SLEEVE SADDLE (SIZE OF MAIN X 2100 mm DIA. OUTLET).
- 24. 300mm Ø HDPE SANITARY SEWER MAIN.
- 25. 25 mm NOMINAL THICKNESS SHOP CAST POLYURETHANE INSULATION AND BLACK JACKET.
- 26. FIELD POURED POLYURETHANE INSULATION FOAM INSULATION 207 KPA COMPRESSIVE STRENGTH.
- 27. 100 mm OR 150 mm Ø FACTORY FABRICATED DR 17 HDPE 45° BEND WITH FACTORY APPLIED POLYURETHANE JACKET INSULATION/FRP JACKET COVER, HDPE STUB END, DUCTILE IRON BACKUP RING, FULL FACE REINFORCED
- RUBBER GASKET AND FLANGE BOLTS ONE END AND PLAIN OTHER END.
- 28. 150 mm WIDE PE WARNING TAPE. 29. MASTIC LINED HEAT SHRINK TAPE 100 mm OVERLAP ON SHELLS AND PIPE JACKET.
- 30. HOLE DRILLED IN MAIN FOR SERVICE WITH HOLE SAW.
- 31. FIELD CUT HOLES (IF REQ'D FOR FOAM INJECTION) TO BE MASTIC COATED AFTER FOAM INJECTION.

SANITARY SERVICE NUMBERED PARTS LIST

Conditions of Use any discrepancies to Dillon Consulting Limited. Do not scale dimensions from drawing. Do not modify drawing, re-use it, or use it for purposes other than

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CONSTRUCTION Verify elevations and/or dimensions on drawing prior to use. Report

TYPICAL SANITARY SERVICE RISER AT HOUSE





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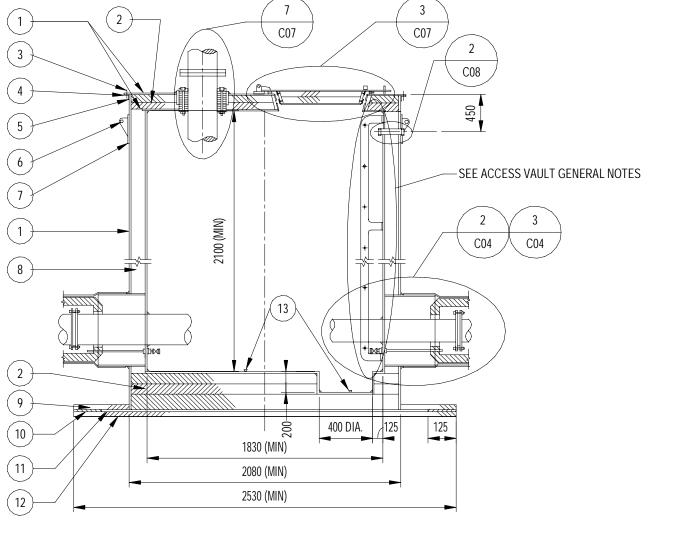
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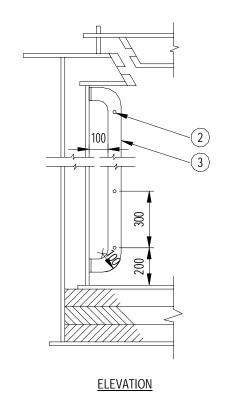
- 1.6 mm THICK STEEL PLATE ACCESS VAULT CONSTRUCTION
- 2. URETHANE SHEET INSULATION CUT TO SIZE
- 3. 12 mm CAD. PLATED STEEL BOLT, NUT, WASHER 32 mm MIN AT EQUAL SPACING 4.3 mm x 5 mm COMPRESSIBLE NEOPRENE RUBBER GASKET
- 5. 10 mm THICK 50 mm x 50 mm MIN. ANGLE WELDED FULL LENGTH
- 6. LIFTING LUGS TWO PER ACCESS VAULT, 150 mm x 75 mm x 12 mm THICK WITH 38 DIA. LIFTING EYE. CAPACITY OF LIFTING LUGS TO BE CONFIRMED BY MANUFACTURER. 7. REINFORCING PLATE 200 mm x 200 mm x 12 mm CURVED TO EXTERIOR WALL RADIUS
- 8. FORMED IN PLACE INSULATION (URETHANE) 9. 38 mm THICK STYROFOAM CUT TO MATCH EXTERIOR WALL RADIUS
- 10. FILLER PIECE 10 mm THICK INSULATION
- 11. 10 mm THICK STEEL BASE PLATE 12. 38 mm THICK INSULATION
- 13. FROST PLUG

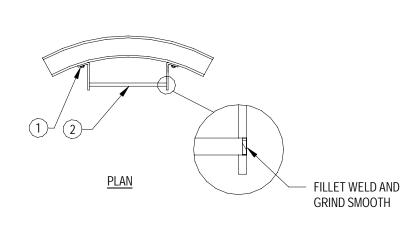
ACCESS VAULT - GENERAL NOTES:

- 1. CONSTRUCT ACCESS VAULTS FROM 6mm STEEL PLATE WITH CONTINUOUS (FULLY) WELDED CONSTRUCTION. FABRICATE COMPLETELY PRIOR TO EPOXY COATING. WELDING

 AND EARDICATION TO COA W/O 1077 OF THE PORT OF THE POXY COATING. WELDING AND FABRICATION TO CSA W59-1977 % W47-1-1973.
- 2. ALL STEEL TO BE CSA G40.21 TYPE 260W OR ASTM A36-62T.
- 3. ALL PIPING INSIDE THE ACCESS VAULT TO BE PREFABRICATED TO THE LIMITS SHOWN ON THE TYPICAL SECTION AND SHOWN ON THE LAYOUT PLANS.
- 4. PROVIDE PIPE ENTRY SPOOL PIECES, LADDER MOUNTING STUDS & ALL OTHER ACCESS VAULT PARTS, ETC. AS REQUIRED, PRE-WELDED IN PLACE PRIOR TO SANDBLASTING AND EPOXY COATING.
- 5. ALL PREFABRICATED STEEL PARTS OF THE ACCESS VAULT (EXCEPT TOP PLATE HATCH AND LADDER) SHALL BE SANDBLASTED AND EPOXY COATED INSIDE AND OUTSIDE AS PER
- SPECIFICATIONS. 6. TOP PLATE, HATCH, HINGE, & LADDER SHALL BE HOT DIPPED GALVANIZED TO CSA G164 MINIMUM 610g/m2.
- 7. ALL NUTS, BOLTS, WASHERS, SCREWS ETC. SHALL BE ZINC PLATED OR CAMIUM PLATED. 8. FLANGE INSULATION KITS AND STYROFOAM ACCESS VAULT BASE INSULATION SUPPLIED AS PART OF THE ACCESS VAULT.
- 9. HYDRANT, AND LINK SEAL JOINT TO BE SHIPPED SEPARATELY (INSIDE ACCESS VAULT). 10. PRIOR TO SHIPPING, ALL FACES OF FLANGES PROJECTING OUTSIDE THE ACCESS VAULT SHALL PROTECTED BY 5/8" THICK PLYWOOD COVER BY 4 BOLTS.
- 11. PROVIDED WITH EACH ACCESS VAULT SHALL BE FOUR 200mm DIA. STEEL BUMPER POST, ONE TO INCLUDE SIGN.
- 12. PAINT SPECIFICATIONS:
- A. SANDBLAST SSPC SP10
- B. 2 COATS OF INTEGARD EX HB FROM INTERNATIONAL, 16 MILS DRY THICKNESS C. COLOURS: OUTSIDE - GREY , INSIDE - BEIGE

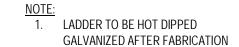


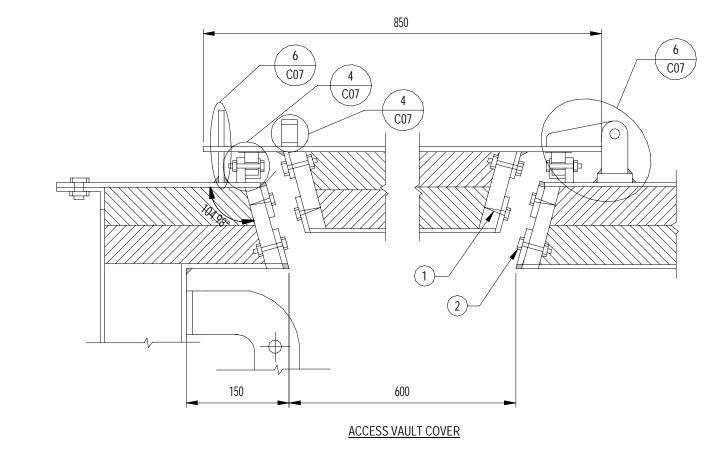


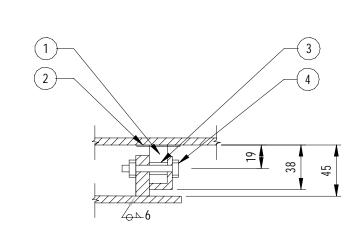


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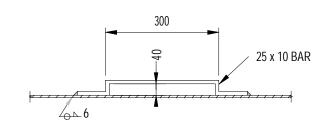
- 1. 12 mm DIA. STUD WELDED TO INNER WALL C/W FASTENING NUTS 2. 20 mm DIA. RUNGS INSERTED HALFWAY THROUGH HOLES IN STRINGER, FILLET WELD REMAINDER OF HOLE AND GRIND SMOOTH - SEE DETAIL PLAN VIEW
- 3. 63.5 mm x 9.5 mm FLAT BAR STRINGER, BENT TO MAKE SUPPORTS AND DRILLED THROUGH FOR RUNGS







COVER SEAL DETAIL



COVER HANDLE DETAIL

KEY TO NUMBERED PARTS:

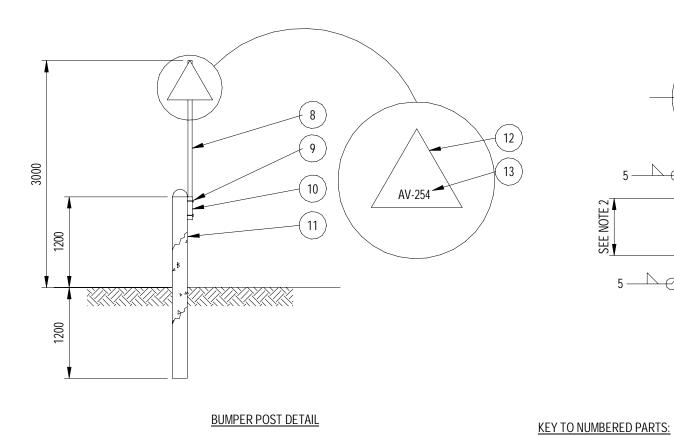
- 1. 37mm DIA. METKA IND. TG-155 GASKET 2. 25mm WIDE TEFLON TAPE APPLIED TO DOOR
- 3. 6.5mm X 17 mm SPACER

- KEY TO NUMBERED PARTS:
 - 1. #12-30 PAN HEAD SHEET METAL SCREWS AT 100 SPACING 2. 6 mm GALVANIZED BOLTS, NUT, & WASHER AT 100 mm SPACING

4 ACCESS VAULT MIISCELLANEOUS DETAILS 1

4. 6mm X 31mm CAD. PLATED STEEL BOLT 150mm SPACING



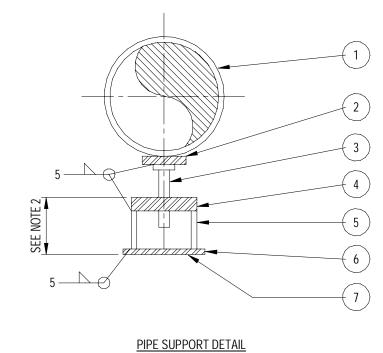


1. SEE DETAIL 1 ON THIS SHEET FOR GENERAL ACCESS VAULT NOTES.

3. POST, SLEEVE AND MAST TO BE PAINTED RED AFTER FABRICATION.

2. HEIGHT TO BE 100 mm FOR SANITARY OR WATER IN SEPARATE AV, 500mm FOR

4.4 BOLLARDS REQUIRED PER ACCESS VAULT. ONE BOLLARD PER ACCESS VAULT



1. WATER MAIN - HOT DIPPED GALV. STEEL PIPING

8.50mm DIA. GALV. STEEL PIPE MAST - 4 - 11mm DIA. BOLT HOLES

9.2 - 9mm DIA. x 89 mm LONG GALV. BOLTS THROUGH SLEEVE AND MAST.

HOLES. SIGN SECURED TO MAST WITH 2 - 9mm DIA x 76 LG. GALV. BOLTS

13. WHITE LETTERING, 100mm HIGH. LETTERING TO MATCH ACTUAL ACCESS

10. 65 mm DIA. STEEL SLEEVE WELDED TO POST, c/w 2 - 11 mm DIA. DRILLED HOLES

11. 200 mm DIA. STEEL PIPE POST EPOXY COATED AND FILLED WITH CONCRETE

12. 3 mm THICK STEEL PLATE SIGN PAINTED RED c/w 2 - 11mm DIA. DRILLED BOLT

2.75 mm DIA. x 12 THICK PLATE

4. 20 THICK PLATE DRILLED AND TAPPED

5. 100 mm DIA. SCHEDULE 40 STEEL PIPE

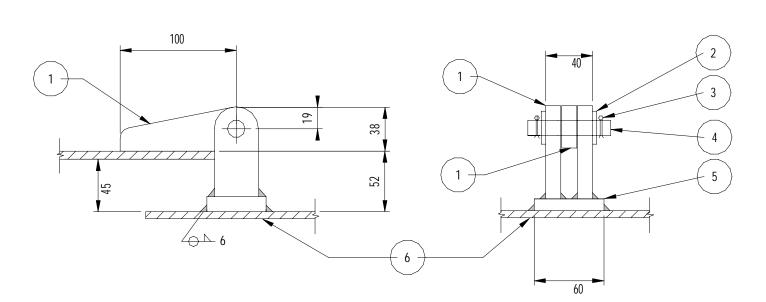
6. 150 mm x 150 mm x 12 mm THICK PLATE

3. 20 mm x 15 '0' BOLT

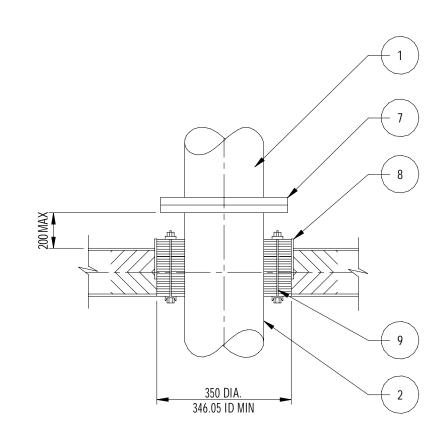
7.2 - 15mm DIA. HOLES

VAULT NUMBERING.

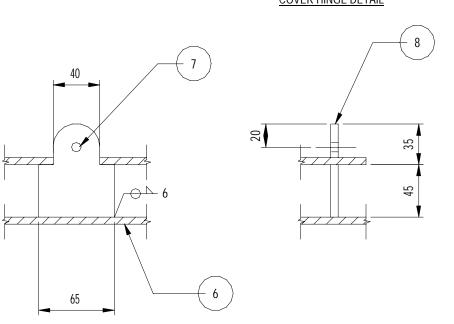








COVER HINGE DETAIL



LOCK HASP DETAIL



- 1. 13 mm HOT DIPPED GALV. STEEL PLATE 2. CAD. PLATED WASHER (TYP.) 3. COLLAR PIN (TYP.) 4. 12.7 mm DIA. CAD. PLATED PIN 5. 12 mm THICK STEEL BAR UNDER HINGES 6.6 mm THICK STEEL PLATE ACCESS VAULT CONSTRUCTION 7.8 mm DIA. HOLE DRILLED FOR PADLOCK 8.6 mm THICK GALV. STEEL STAPLE
- NOTES:
- 1. TWO HINGES ARE REQUIRED PER COVER 2. HINGES TO BE SPACED AT 400mm APART

KEY TO NUMBERED PARTS:

- 1. 200mm CRANE McAVITY M-67 "IN-LINE" FIRE HYDRANT. 2. FIRE HYDRANT BARREL.
- 3. VALVE & CAP TO MATCH HYDRANT DRAIN PORT. 4. 200mm LUG TYPE BUTTERFLY VALVE COMPLETE WITH OPERATOR. 5. FLANGE TEE 1080 kpa - DIA. TO MATCH MAIN AND HYDRANT SIZE.
- 6. PIPE SUPPORT. 7. HYDRANT FLANGE.
- 8. 350 DIA. SCHEDULE 10 (364 I.D.) STEEL PIPE x 100 LONG WELDED TO ACCESS VAULT TOP PLATE.
- 9. THUNDER-LINE CORP LINK-DEAL MODEL LS-500-C (200X350) OR APPROVED EQUAL

5 ACCESS VAULT MISCELLANEAOUS DETAILS 2 SCALE: NTS





Conditions of Use

NOTES:

WATER IN COMMON AV.

TO INCLUDE MAST AND SIGN.

5. BACKFILL WITH MODIFIED GRANULAR 'B'

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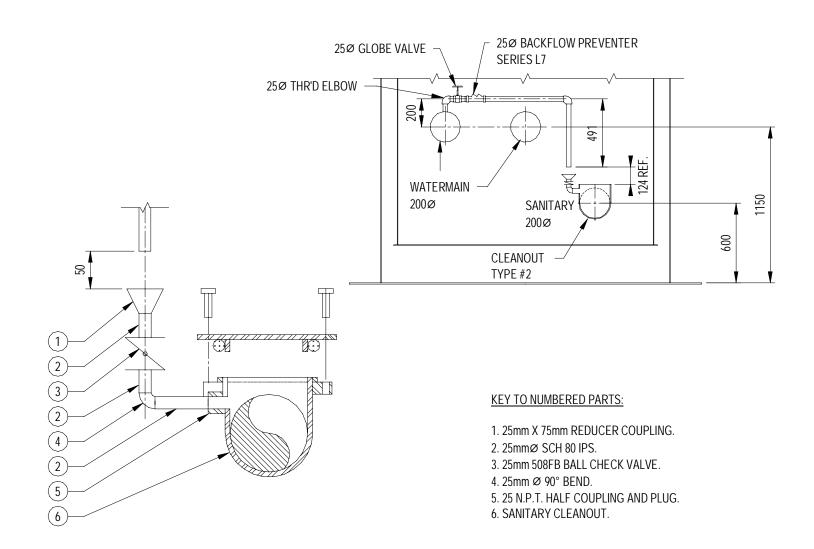
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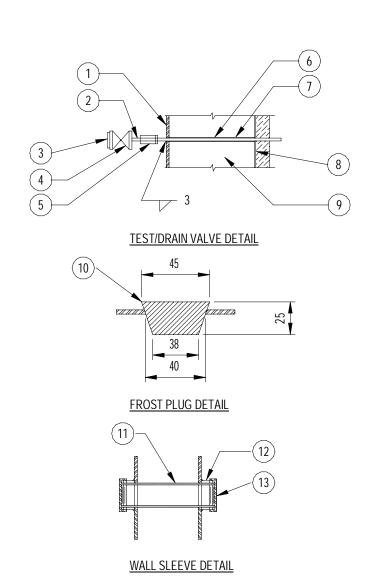


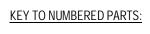


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ACCESS VAULT DETAILS 1 OF 4	C07







6 mm THICK STEEL PLATE ACCESS VAULT WALL
 12 mm DIA. GALV. ST. NIPPLE
 12 mm DIA. PLUG
 12 mm DIA. SCREWED BALL VALVE
 12 mm DIA. GALV. ST. COUPLING
 12 mm DIA. GALV. ST. PIPE
 DRILL THROLIGH SHOP CAST POLYLIRETHANE INSI

7. DRILL THROUGH SHOP CAST POLYURETHANE INSULATION
8. FLANGE INSULATION KIT BY OTHERS
9. SHOP CAST POLYURETHANE INSULATION
10. FROST PLUG TO BE MADE FROM SOLID BLACK RUBBER DRIVER

TIGHTLY INTO HOLE

11. 37 mm DIA. RIGID PVC - OIL COAT SURFACE PRIOR TO INSULATING
12. 50 mm DIA. SCHEDULE 40 NIPPLE

13. 50 mm DIA. CAP

NOTES:

 PROVIDE FROST PLUG IN FLOOR PLATE AND SUMP HOLE.
 PLUG TO HAVE A 10mm PROJECTION ABOVE FLOOR AFTER BEING PLACED TIGHTLY INTO HOLE.
 2 WALL SLEEVES REQUIRED PER ACCESS VAULT. 2 5

KEY TO NUMBERED PARTS:

1. 50mm DIA. N.P.T. PLUG 2. 50mm DIA. N.P.T. NIPPLE

8. 25mm DIA. N.P.T. PLUG

50mm DIA. N.P.T. NIPPLE
 WATER MAIN - HOT DIPPED GALV. STEEL PIPING

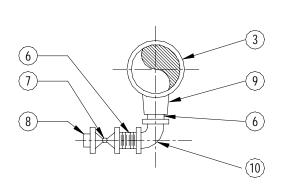
____ BOTTOM OF DITCH

50mm DIA. BALL VALVE
 50mm DIA. LATEROLET

6. 25mm DIA. LATEROLET
7. 25mm DIA. BALL VALVE

9. 25mm DIA. N.P.T. THEODOLET 10. 25mm DIA. 90 DEGREE ELBOW N.P.T. FEMALE

LATEROLET CONNECTION

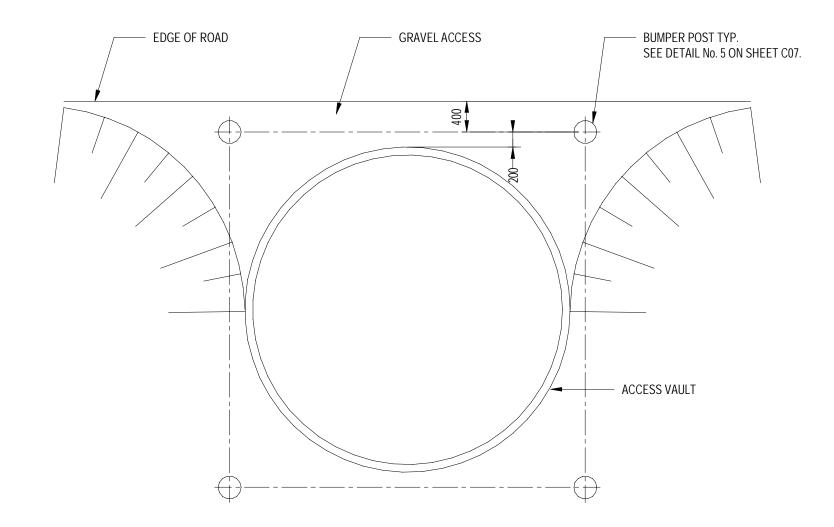


WATER MAIN DRAIN

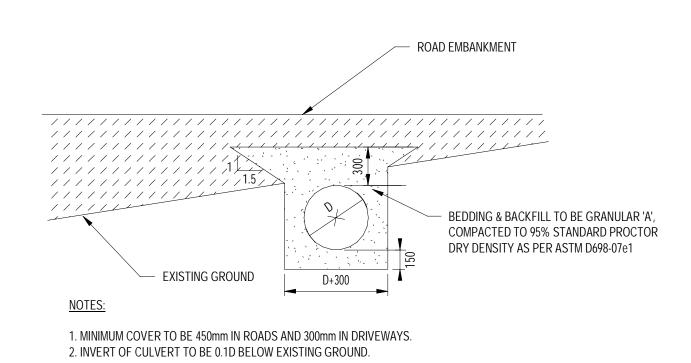


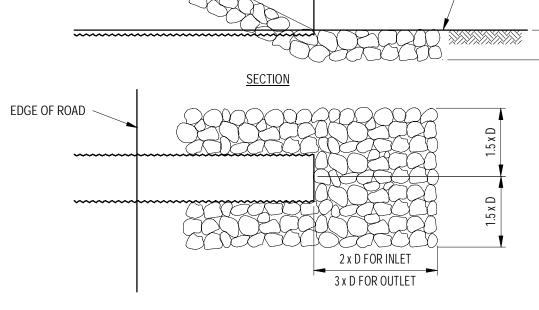












NOTES:

RIP-RAP THICKNESS TO BE 300mm FOR DIA. LESS THAN 1400mm, AND 600mm FOR DIA. GREATER THAN 1400mm.
 RIP-RAP TO BE HAND PLACED.
 MINIMUM CULVERT DIA. TO BE 400mm.
 NOMINAL SIZE OR RIP-RAP TO BE 0.5 THICKNESS
 FILTER CLOTH TO BE INSTALL UNDER ENTIRE RIP-RAP APRON.

6 CULVERT APRON DETAIL
SCALE: NTS

4 ACCESS VAULT BUMPER POST DETAIL
SCALE: NTS

5 PIPE CULVERT IN A TRENCH SCALE: NTS

Conditions of Use

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Do not scale dimensions from drawing.

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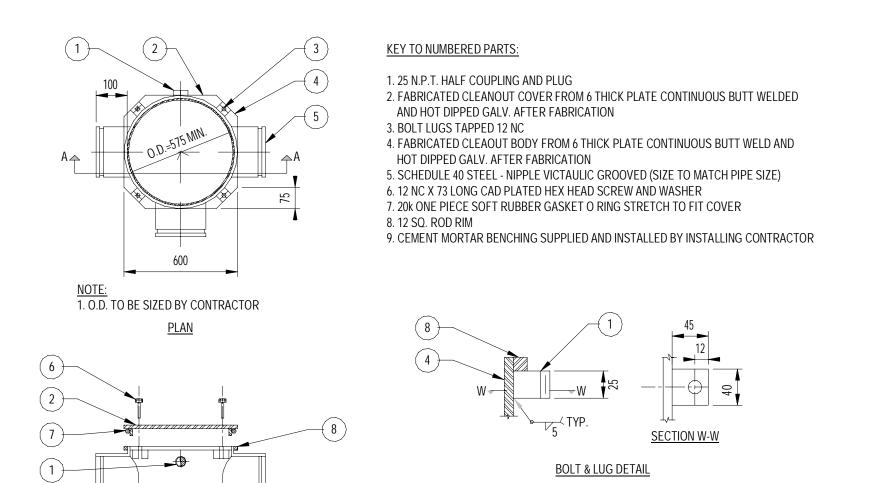
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ACCESS VAULT DETAILS 2 OF 4	C08



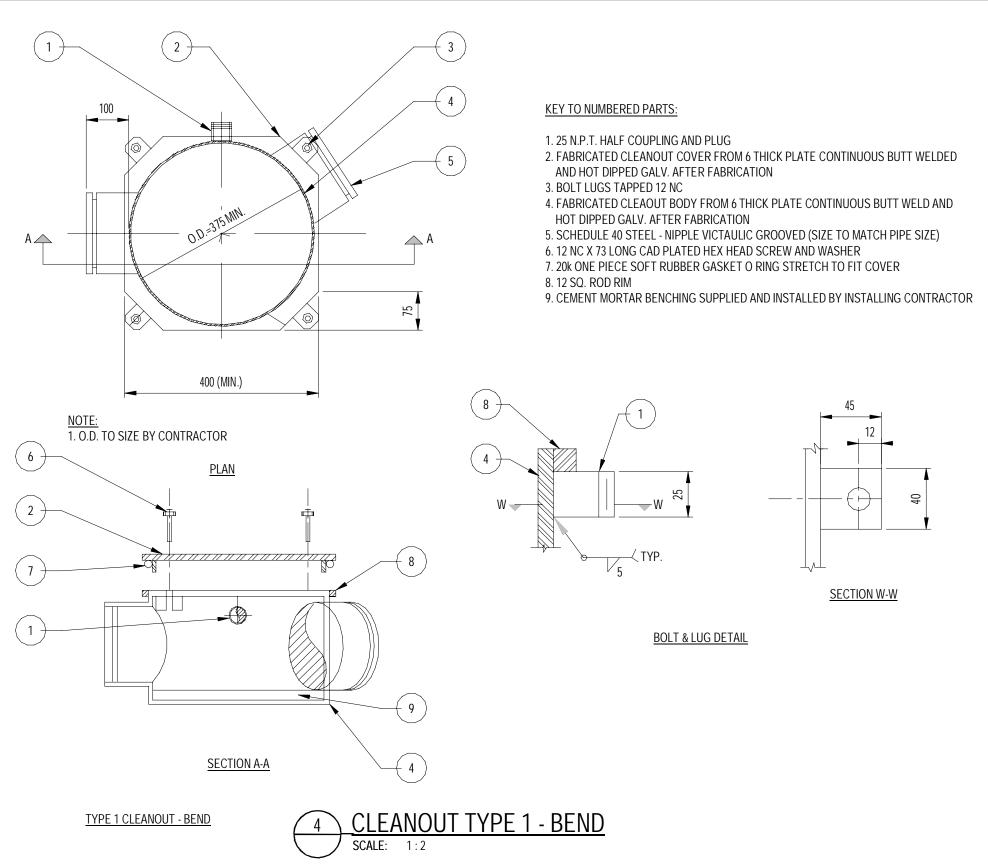
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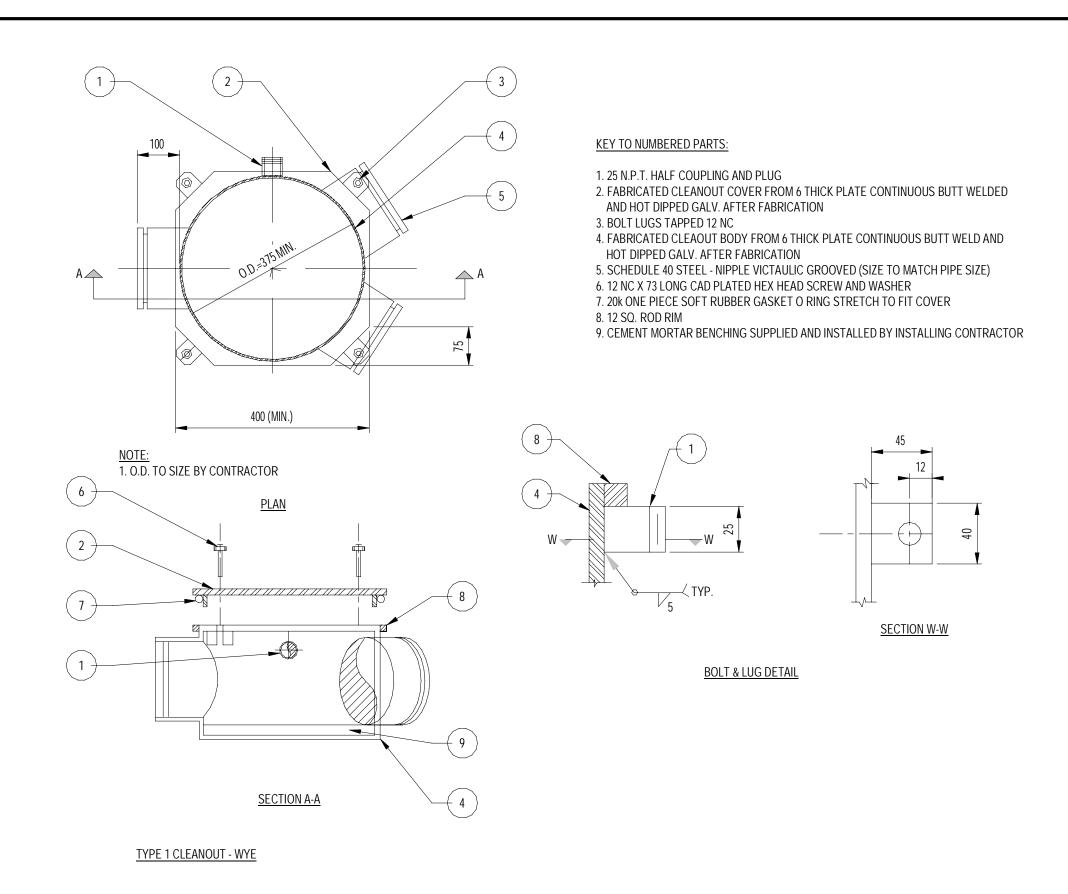
1. SEE DETAIL 1 ON SHEET C07 FOR GENERAL ACCESS VAULT NOTES.

TYPE 1 CLEANOUT - TEE

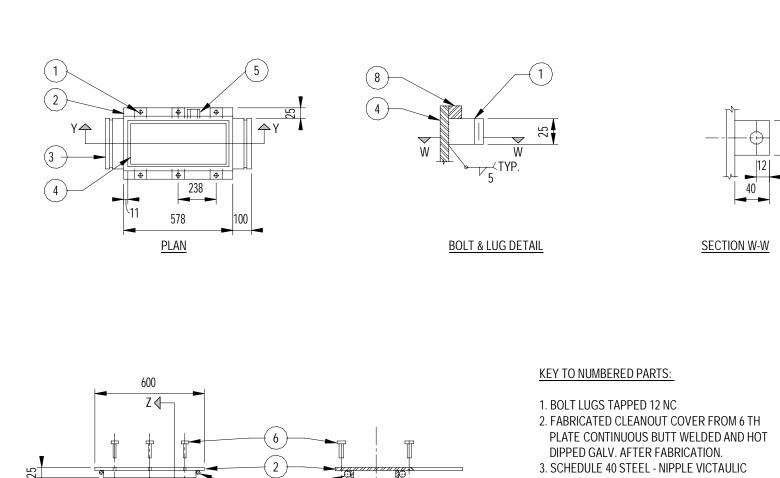
SECTION A-A

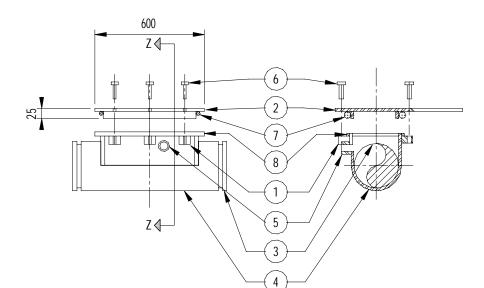












TYPE 2 CLEANOUT

2. FABRICATED CLEANOUT COVER FROM 6 TH PLATE CONTINUOUS BUTT WELDED AND HOT

3. SCHEDULE 40 STEEL - NIPPLE VICTAULIC GROOVED (SIZE TO MATCH PIPE SIZE). 4. FABRICATED CLEANOUT BODY FROM 6 TH PLATE CONTINUOUS BUTT WELD AND HOT DIPPED

GALV. AFTER FABRICATION. 5. 25 mm N.P.T. HALF COUPLING AND PLUG. 6. 12 mm NC x 73 mm LONG CAD PLATED HEX HEAD

SCREW AND WASHER. 7. 20k ONE PIECE SOFT RUBBER GASKET O RING STRETCH TO FIT COVER.

8. 12 SQ. ROD RIM.

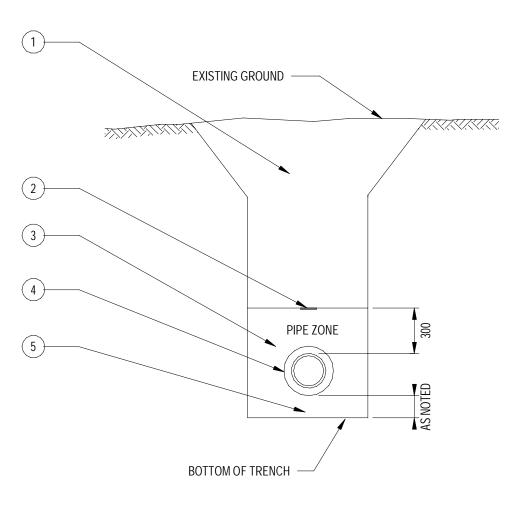
	SCALE: 1:2					SCALE: NTS		
Conditions of Use		CONSTRUCTION	Canada			DESIGN REVIEWED BY INV INV DRAWN CHECKED BY	GOVERNMENT OF NUNAVUT RANKIN INLET UTILIDOR REPLACEMENT	ргојест no. 20-3940
Verify elevations and/or dimensions on drawing prior to use. Report any discrepancies to Dillon Consulting Limited.		001/31/1001/01/	* 5			SCC ASW		SHEET NO.
Do not scale dimensions from drawing.						DATE NOVEMBER 2021		000
Do not modify drawing, re-use it, or use it for purposes other than those intended at the time of its preparation without prior written permission from Dillon Consulting Limited.			Nunavut	DILLON CONSULTING	2 CONSTRUCTION 1 TENDER	11/03/2021 ASW SCALE 07/16/2021 ASW AS indicated	ACCESS VAULT DETAILS 3 OF 4	C09

KEY TO NUMBERED PARTS:

- 1. SELECT NATIVE BACKFILL MATERIAL, OR ENGINEERED BACKFILL WHERE DIRECTED BY ENGINEER.
- 2. WARNING TAPE. 3. SAND BACKFILL, COMPACTED TO 90% STANDARD PROCTOR DRY DENSITY AS PER ASTM D698-07e1,
- MINIMUM 300 mm COVER OVER PIPES. 4. WATER MAIN OR SANITARY SEWER - DR11 HDPE PIPE c/w 75 mm SHOP APPLIED POLYURETHANE INSULATION FRP JACKET.
- 5. SAND BEDDING COMPACTED TO 90% STANDARD PROCTOR DRY DENSITY AS PER ASTM D698-07e1, 150 mm (230 mm IN ROCK).

- 1. PIPES TO BE SPACED 230 mm, OR GREATER, FROM TRENCH WALL AND OTHER PIPES TO ALLOW COMPACTION. 2. TEST PITS TO BE DUG EVERY 15m TO A DEPTH OF 500mm BELOW PIPE INVERT TO CHECK FOR PRESENCE OF SILT. SUBEXCAVATE AS REQUIRED, TO A DEPTH OF 450 mm BELOW PIPE INVERT AND BACKFILLED WITH GRANULAR B
- COMPACTED TO 95% STANDARD PROCTOR DRY DENSITY AS PER ASTM D698-07e1. 3. SANITARY SEWER TO HAVE A MINIMUM 3.0m COVER. IF COVER IS LESS THAN 3.0m, THE THICKNESS OF THE

TRENCH INSULATION TO BE INCREASED.



REINSTATEMENT NOTE

PAVED ROAD 60mm ASPHALT 100mm GRANULAR 'A' 300mm GRANULAR 'B'

GRAVEL ROAD 100mm GRANULAR 'A' 300mm GRANULAR 'B'

KEY TO NUMBERED PARTS:

mm (230 mm IN ROCK).

NOTES:

- 1. SELECT NATIVE BACKFILL MATERIAL, OR ENGINEERED BACKFILL WHERE DIRECTED BY ENGINEER.
- 2. WARNING TAPE. 3. SAND BACKFILL, COMPACTED TO 90% STANDARD PROCTOR DRY DENSITY AS PER ASTM D698-07e1, MINIMUM 300 mm COVER OVER PIPES.
- 4. WATER MAIN DR11 HDPE PIPE c/w 75 mm SHOP APPLIED POLYURETHANE INSULATION FRP JACKET. 5. SANITARY SERVICE - DR11 HDPE PIPE c/w 75 mm SHOP
- APPLIED POLYURETHANE INSULATION FRP JACKET. 6. SAND BEDDING COMPACTED TO 90% STANDARD PROCTOR DRY DENSITY AS PER ASTM D698-07e1, 150

BOTTOM OF TRENCH

1. PIPES TO BE SPACED 230 mm, OR GREATER, FROM TRENCH WALL AND OTHER PIPES TO ALLOW COMPACTION. 2. TEST PITS TO BE DUG EVERY 15m TO A DEPTH OF 500mm BELOW PIPE INVERT TO CHECK FOR PRESENCE OF SILT. SUBEXCAVATE AS REQUIRED, TO A DEPTH OF 450 mm BELOW PIPE INVERT AND BACKFILLED WITH GRANULAR B COMPACTED TO 95% STANDARD PROCTOR DRY DENSITY

AS PER ASTM D698-07e1. 3. SANITARY SEWER TO HAVE A MINIMUM 3.0m COVER. IF COVER IS LESS THAN 3.0m, THE THICKNESS OF THE TRENCH INSULATION TO BE INCREASED.

(3)— (4)— PIPE ZONE

EXISTING GROUND -

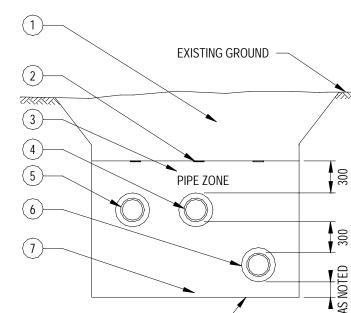
PAVED ROAD 60mm ASPHALT

GRAVEL ROAD 300mm GRANULAR 'B'

REINSTATEMENT

100mm GRANULAR 'A' 300mm GRANULAR 'B'

100mm GRANULAR 'A'



NOTES:

mm (230 mm IN ROCK).

KEY TO NUMBERED PARTS:

2. WARNING TAPE.

1. SELECT NATIVE BACKFILL MATERIAL, OR ENGINEERED

BACKFILL WHERE DIRECTED BY ENGINEER.

MINIMUM 300 mm COVER OVER PIPES.

3. SAND BACKFILL, COMPACTED TO 90% STANDARD

PROCTOR DRY DENSITY AS PER ASTM D698-07e1,

APPLIED POLYURETHANE INSULATION FRP JACKET.

5. RECIRCULATION LINE - DR11 HDPE PIPE c/w 75 mm SHOP

APPLIED POLYURETHANE INSULATION FRP JACKET.

6. SANITARY SERVICE - DR11 HDPE PIPE c/w 75 mm SHOP

APPLIED POLYURETHANE INSULATION FRP JACKET.

7. SAND BEDDING COMPACTED TO 90% STANDARD PROCTOR DRY DENSITY AS PER ASTM D698-07e1, 150

4. WATER MAIN - DR11 HDPE PIPE c/w 75 mm SHOP

1. PIPES TO BE SPACED 230 mm, OR GREATER, FROM TRENCH WALL AND OTHER PIPES TO ALLOW COMPACTION. 2. TEST PITS TO BE DUG EVERY 15m TO A DEPTH OF 500mm BELOW PIPE INVERT TO CHECK FOR PRESENCE OF SILT. SUBEXCAVATE AS REQUIRED, TO A DEPTH OF 450 mm BELOW PIPE INVERT AND BACKFILLED WITH GRANULAR B COMPACTED TO 95% STANDARD PROCTOR DRY DENSITY AS PER ASTM D698-07e1.

3. SANITARY SEWER TO HAVE A MINIMUM 3.0m COVER. IF COVER IS LESS THAN 3.0m, THE THICKNESS OF THE TRENCH INSULATION TO BE INCREASED.

<u>REINSTATEMENT</u>

BOTTOM OF TRENCH -

60mm ASPHALT PAVED ROAD 100mm GRANULAR 'A' 300mm GRANULAR 'B'

GRAVEL ROAD 100mm GRANULAR 'A' 300mm GRANULAR 'B'

TYPICAL TRENCH DETAIL
SCALE: NTS



TYPICAL TRENCH DETAIL WATERMAIN, RECIRCULATION AND SANITARY1 SCALE: NTS

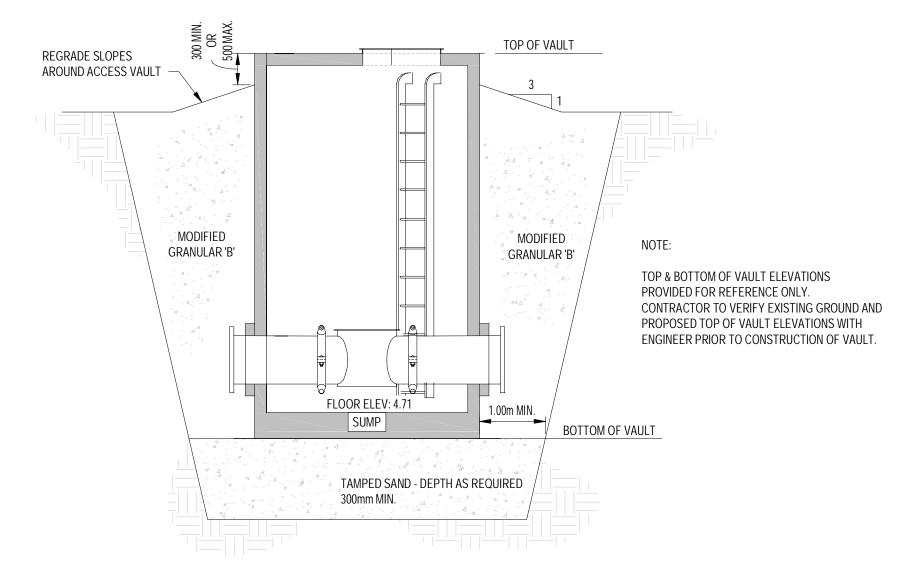
EXISTING GROUND BOTTOM OF TRENCH

NOTES:

- 1. PIPES TO BE SPACED AT 230mm, OR GREATER, FROM TRENCH WALL AND OTHER PIPES TO ALLOW COMPACTION.
- 2. TEST PITS TO BE DUG EVERY 15m TO DEPTH OF 500mm BELOW PIPE INVERT TO CHECK FOR PRESENCE OF SILT. SUBEXCAVATE TO A DEPTH OF 450mm BELOW PIPE INVERT AND BACKFILLED WITH GRANULAR B COMPACTED TO 90% STANDARD PROCTOR DRY DENSITY AS PER ASTM D698-07e1. 3. SERVICE PIPES TO HAVE A MINIMUM OF 600mm OF COVER
- TO TOP OF INSULATION.

KEY TO NUMBERED PARTS:

- WARNING TAPE
- 2. SELECT NATIVE BACKFILL MATERIAL, OR ENGINEERED BACKFILL WHERE DIRECTED BY ENGINEER.
- 3. SAND BACKFILL, COMPACTED TO 90% STANDARD PROCTOR, MINIMUM 300mm COVER OVER SERVICES PIPES.
- 4. 100mm DIA. SANITARY SERVICE DR11 HDPE PIPE c/w 75mm APPLIED POLYURETHANE INSULATION & FRP JACKET.
- 5. SAND BEDDING COMPACTED TO 90% STANDARD PROCTOR, 150mm (230mm IN ROCK) DEEP.
- 6. 100mm DIA. CARRIER PIPE- DR11 HDPE PIPE c/w 75mm POLYURETHANE INSULATION & FRP JACKET.
- 7. SUPPLY AND RECIRCULATION WATER SERVICE, COILED DR11 HDPE PIPE INSIDE CARRIER PIPE.



4 TYPICAL SERVICE TRENCH DETAIL

TYPICAL ACCESS VAULT DETAIL SCALE: NTS

Conditions of Use

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CONSTRUCTION





				- DESIGN - INV	REVIEWED BY	GOVERNMENT OF NUNAVUT RANKIN INLET UTILIDOR REPLACEMENT	PROJECT NO. 20-3940
				DRAWN	CHECKED BY ASW	TANKIN INLET OTILIDOK KLI LACLIMILINI	SHEET NO.
2	CONSTRUCTION	11/03/2021	ASW	DATE NOVE	MBER 2021	ACCESS VAULT DETAILS 4 OF 4	C10
1 No.	TENDER ISSUED FOR	07/16/2021 DATE	ASW BY	1	ndicated		