

KEY TO NU

GENERAL NOTES:

FILL VOID BETWEEN PRE-INSULATED PIPE AND PRE-FORMED INSULATION HALF-SHELLS WITH FOAMED-IN-PLACE URETHANE

IMBERED PARTS

E A R T H

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Tel: 867-873-6316 | Fax: 867-873-6407

- STYROFOAM, CUT TO MATCH L RADIUS.
- FILLER PIECE, 10mm THICK INSULATION.
- 38mm THICK
- STYROFOAM INSULATION.
- 20mm THICK HIGH DENSITY POLYETHYLENE SHEET.
- LADDER LENGT DRAWING 7453

- I.P.S. H.D.P.E.

- PIPE D.R.11

- - 10mm THICK x SQUARE STEEL (SEE DIMENSION TABLE)
 BASE
- TH AS REQUIRED, SEE DETAIL 32—202

Date
PERMIT NUMBER: P 005
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- 37mm@ PVC CONDUIT (ELECTRICAL) SEE DETAIL 'A'. FORGED STEEL FLANGE WELDED TO STEEL PIPE, 1035 kPA, ASA B 16.1, SIZE TO SUIT, FLAT FACED. 20 GAUGE METAL (DO NOT USE 6mm PLATE).
- P.E. STUB END BUTT FUSED TO H.D.P.E. PIPE.
- STEEL (GALVANIZED) SLIP-ON FLANGE TO SUIT H.D.P.E. PIPE STUB. DRILL TO ANSI B16.5 BOLT CIRCLES FOAMED-IN-PLACE INSULATION (URETHANE).
- HANDLE, 12mmø GALVANIZED STEEL F HEAT SHRINK SLEEVE (0.9mm)
 OLYETHYLENE SELF ADHESIVE).
- FIRST LAYER OF THICK BLACK P SECOND LAYER AS ITEM 15 AB OF HEAT SHRINK SLEEVE (SAME OVE).
- OUTER STEEL SI OUTER WALL 10 O.D. 445 mm Fi 330 mm FOR 11 OF ITEM (18) SLEEVE SECTION WELDED TO ACCESS VAULT O mm THICK PROTRUDING 200 mm, FOR 200 mm Ø , 380 mm FOR 150 mm Ø 100mm Ø VER FOR FLANGED JOINT, O.D. TO MATCH O.D.) SIZE TO SUIT, MASTIC COATED.

(a

- $10 \text{mm} \times 50 \text{mm}$ CONTINUOUSLY WELDED TO EXTERIOR BARREL URETHANE SHEET INSULATION CUT TO SIZE.
- 12mm CAD. PLATED STEEL BOLT, NUT & WASHER. 50mmø STD.(346mm I.D.) STEEL PIPE 100mm LONG, WELDED TO ACCESS VAULT, GALV.

 $\underset{(2)}{\overset{*}{\otimes}}\underset{(2)}{\overset{*}{\otimes}}\underset{(3)}{\overset{*}{\otimes}}\underset{(4)}{\overset{*}{\otimes}}$

- HYDRANT BARREL (McAVITY M67 204.8 O.D.)
- REINFORCING PL LIFTING LUGS — THREE PER ACCESS VAULT 150mm \times 75mm \times 12mm THICK WITH 38mmø LIFTING EYE LATE 200mm × 200mm × 12mm TERIOR WALL RADIUS
- 6mm THICK STEEL PLATE ACCESS VAULT CONSTRUCTION.
- 75mm URETHANE PIPE INSULATION, SHOP APPLIED.
- LINK SEAL

 $\begin{array}{c} (A) \\ (B) \\ (B) \end{array} \begin{array}{c} A = \begin{array}{c} DETAIL \text{ No.} \\ B = \begin{array}{c} LOCATED \end{array} \begin{array}{c} ON \end{array} \begin{array}{c} DRAWING \end{array} No.$

HINGES SPACED AT 400mm APART, SEE DETAIL 3/201

- ASKET $50 \text{mm} \times 3 \text{mm}$ COMPRESSIBLE NEOPRENE UBBER.
- HASP ASSEMBLY, SEE DETAIL 4/201 #12-30 PAN HEAD SHEET METAL SCREWS AT 100mm SPACING.

 $\begin{array}{c} * * * * * \\ \text{ (33)} \text{ (35)} \text{ (35)} \\ \text{ (36)} \text{ (37)} \text{ (37)} \\ \text{ (37)} \text{$

- 12mm x 38mm x 500mm STEEL BAR ALL AROUND HATCH (INSIDE HINGES), TAPPED FOR (36) 20mm x 38mm CLOSED CELL NEOPRENE ASTM 01056-85, GRADE ZA-CE1/FZMP PERMASTIK 1220X OR EQUAL.
- 6mm GALVANIZED BOLT NUT & WASHER AT 100mm SPACING.

*(34)

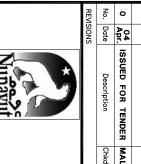
* (35)

- 6mm \times 31mm CAD. PLATED STEEL BOLT 150mm SPACING. 6.5mm x 17mm SPACER, GALVANIZED PIPE.
- - 3mm x32mm
 - SCHEDULE 80 STEEL PIPE, SIZE TO SUIT. x 20mm GALVANIZED IRON.
- 38mm WIDE TEFLON TAPE, LOW TEMPERATURE ADHESIVE, 15mil. OPRENE GASKET AS PER SPECIFICATION
- FULL FACE NEO

Approved MAL

- 1000mm LONG GRADE 30 REGULAR LINK CHAIN WITH SAFETY HOOK C/W SNAP LINKS ON BOTH SIDES
- HYDRANT (McAVITY M-67) AS PER SPECS 10mm STEEL RING TO MATCH 6mm WELD TO OUTER SLEEVE AND STEEL PIPE
- 10mm THICK STEEL PLATE, 50mm x 225mm
- 25mmø GALVANIZED STEEL BAR

PARTS MARKED SEE DETAILS ON AS X DRAWING 203



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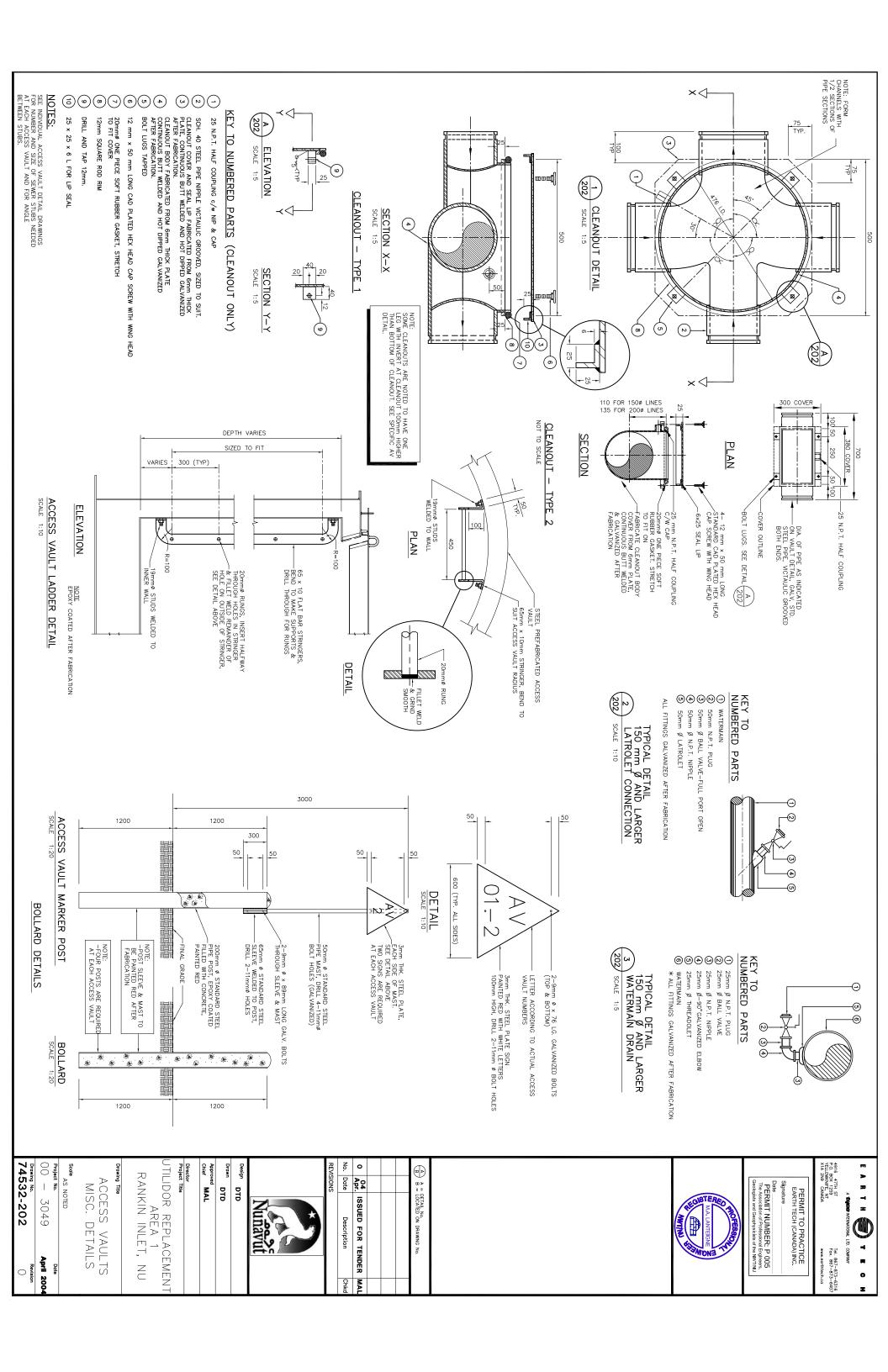
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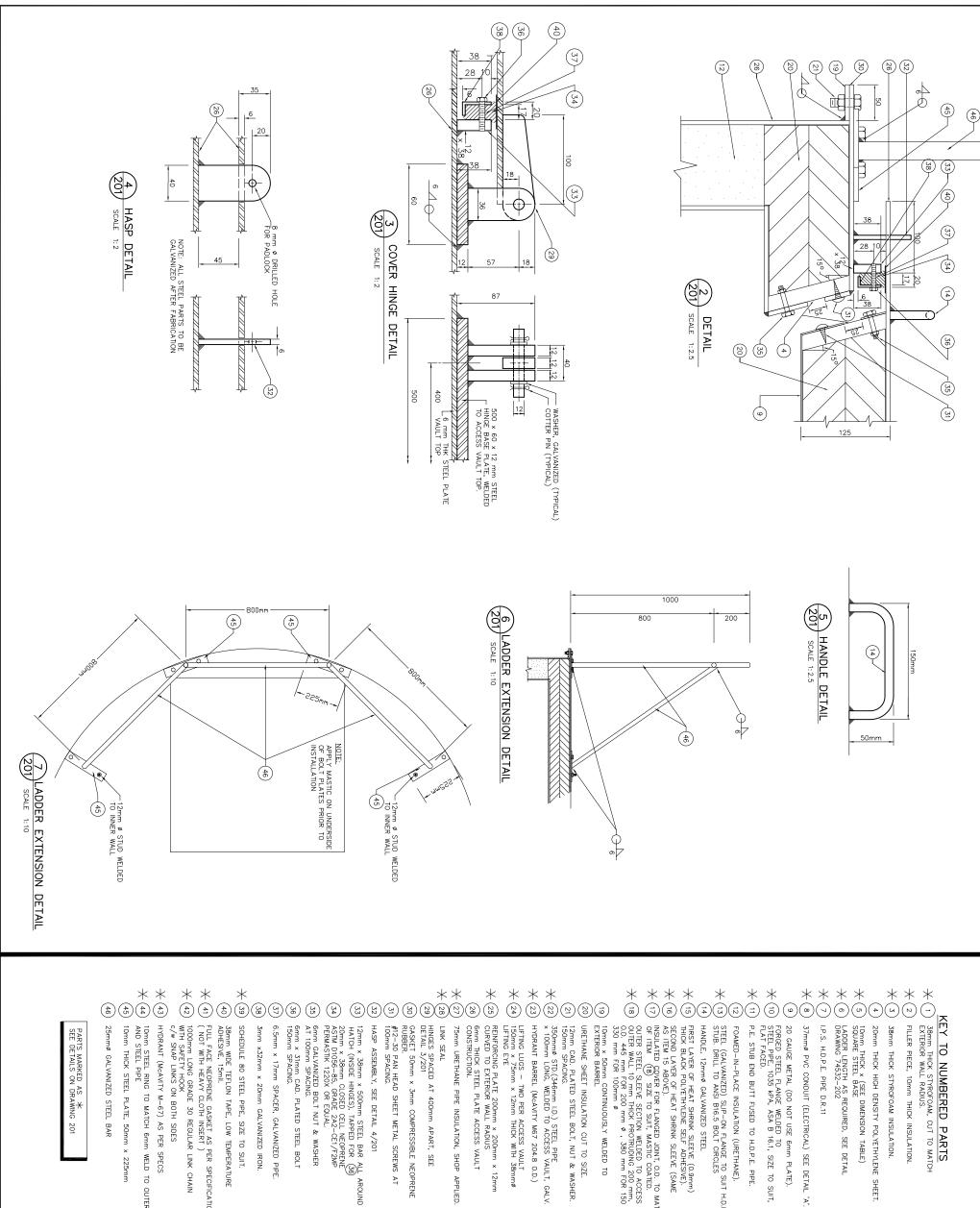
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AREA 1
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ACCESS VAULTS STANDARD DETAILS	Drawing Title
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74532-201 00 - 3049

April 2004 Revision





KEY TO NUMBERED PARTS

EARTH

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Tel: 867-873-6316 | Fax: 867-873-6407

- STYROFOAM, CUT TO MATCH L RADIUS.
- + $\binom{2}{2}$ FILLER PIECE, 10mm THICK INSULATION.
- 38mm THICK STYROFOAM INSULATION.
- 20mm THICK HIGH DENSITY POLYETHYLENE SHEET. (SEE DIMENSION TABLE) BASE

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- I.P.S. H.D.P.E. PIPE D.R.11

- LADDER LENGTH AS REQUIRED, SEE DETAIL DRAWING 74532—202

- FORGED STEEL FLANGE WELDED TO STEEL PIPE, 1035 kPA, ASA B 16.1, SIZE TO SUIT, FLAT FACED. 20 GAUGE METAL (DO NOT USE 6mm PLATE).
- P.E. STUB END ACE INSULATION (URETHANE). BUTT FUSED TO H.D.P.E. PIPE.
- HANDLE, 12mmø GALVANIZED STEEL STEEL (GALVANIZED) SLIP-ON FLANGE TO SUIT H.D.P.E. PIPE STUB. DRILL TO ANSI B16.5 BOLT CIRCLES

(2) ALL PREFABRICATED STEEL PARTS OF ACCESS VAUCISHALL BE SAND BLASTED AND FPOXY COATED INSIDE AND OUTSIDE CALD COLOR TO BE GALVANIZED (INSIDE COLOUR TO BE WHITE, OUTSIDE COLOR TO BE GREY)

(1) FILL VOID BETWEEN PIPE AND INSULATED COVER WITH FOAMED-IN-PLACE URETHANE

GENERAL

NOTES:

(3) CONSTRUCT ACCESS VAULT FROM 6mm STEEL PLATE WITH CONTINUOUS (FULLY) WELDED CONSTRUCTION, FABRICATE COMPLETELY PRIOR TO EPOXY COATING.

(4) ALL STEEL TO BE CSA G40-21 TYPE 260

- FIRST LAYER OF HEAT SHRINK SLEEVE (0.9mm) THICK BLACK POLYETHYLENE SELF ADHESIVE). OF HEAT SHRINK SLEEVE (SAME OVE).
- VER FOR FLANGED JOINT, O.D. TO MATCH O.D.

 SIZE TO SUIT, MASTIC COATED.

 SLEEVE SECTION WELDED TO ACCESS VAULT

 OF MOTHLICK PROTRUDING 200 mm,

 FOR 200 mm ø , 380 mm FOR 150 mm ø
- 10mm x 50mm CONTINUOUSLY WELDED TO EXTERIOR BARREL

(5) ALL PIPNG INSIDE THE ACCESS VAULT IS TO BE PREFABRICATED TO THE CONNECTIONS WITH THE EXTERIOR PIERS. PROVIDE LAL ACCESSORIS & PIPNG AND ALL THE PIECESSARY ATTACHMENTS.
LIUGS TO BE PER WELDED IN UP JACE PRIOR TO SAND BLASTING & EPOXY COATING

(6) ALL EXPOSED SUPFACES OF URETHANE INSULATION TO BE FIELD COATED WITH MASTIC.
(7) ALL BOLTS, NUTS & WASHERS TO BE CADMIUM PLATED

- 350mmø STD.(346mm I.D.) STEEL PIPE × 100mm LONG, WELDED TO ACCESS VAULT, GALV. 12mm CAD. PL, 150mm SPACINO ATED STEEL BOLT, NUT & WASHER.
- HYDRANT BARREL (McAVITY M67 204.8 O.D.)
- LIFTING LUGS TWO PER ACCESS VAULT 150mm \times 75mm \times 12mm THICK WITH 38mmø LIFTING EYE
- RENFORCING PLATE 200mm × 200mm × 12mm CURVED TO EXTERIOR WALL RADIUS 6mm THICK STREEL PLATE ACCESS VAULT CONSTRUCTION.

- 75mm URETHANE PIPE INSULATION, SHOP APPLIED.
- LINK SEAL
- HINGES SPACED AT 400mm APART, SEE DETAIL 3/201 GASKET 50mm \times 3mm COMPRESSIBLE NEOPRENE RUBBER.
- 12-30 PAN HEAD SHEET METAL SCREWS AT DOmm SPACING.
- HASP ASSEMBLY, SEE DETAIL 4/201

No. Date

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ISSUED FOR TENDER MAL Description

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- 12mm x 38mm x 500mm STEEL BAR ALL AROUND HATCH (INSIDE HINGES), TAPPED FOR (36)
 20mm x 38mm CLOSED CELL NEOPRENE
 ASTM D1056-85, GRADE 2A2-CE1/F2MP
 PERMASTIK 1220X OR EQUAL.
- 6mm GALVANIZ AT 100mm SPA ZED BOLT NUT & WASHER ACING.
- $6 mm \times 31 mm$ CAD. PLATED STEEL BOLT 150 mm SPACING.
- 6.5mm x 17mm SPACER, GALVANIZED PIPE.
- 3mm ×32mm × 20mm GALVANIZED IRON.
- SCHEDULE 80 STEEL PIPE, SIZE TO SUIT.
- 38mm WIDE TEFLON TAPE, LOW TEMPERATURE ADHESIVE, 15mil.
- FULL FACE NEOPRENE GASKET AS PER SPECIFICATION (NOT WITH HEAVY CLOTH INSERT) GRADE 30 REGULAR LINK CHAIN
- 1000mm LONG GRADE 30 REGULAI WITH SAFETY HOOK c/w SNAP LINKS ON BOTH SIDES
- HYDRANT (MCAVITY M-67) AS PER SPECS RING TO MATCH 6mm WELD TO OUTER SLEEVE
- 25mmø GALVANIZED STEEL BAR 10mm THICK STEEL PLATE, 50mm × 225mm

PARTS MARKED AS X SEE DETAILS ON DRAWING 201



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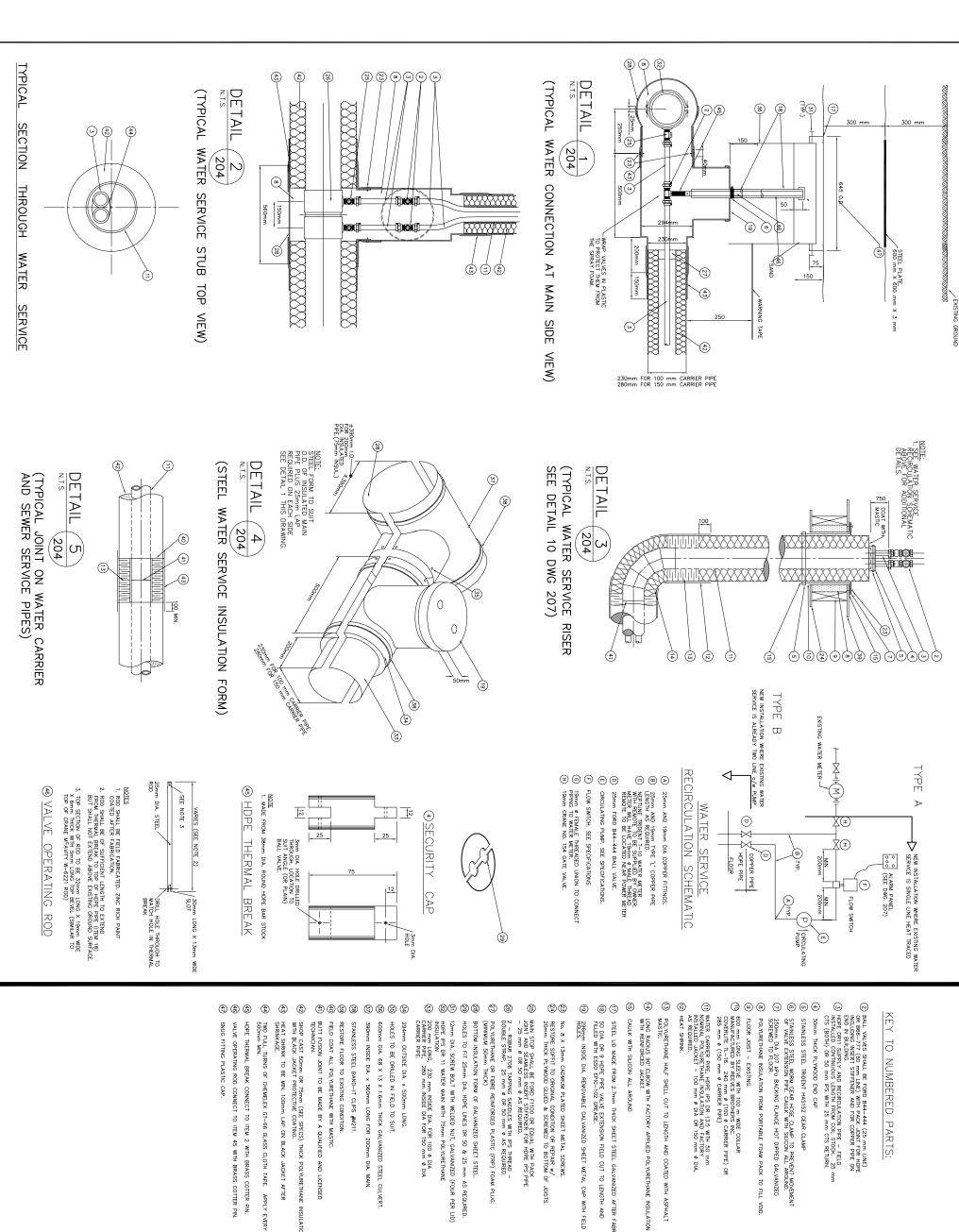
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TO NUMBERED PARTS:

EARTH

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- 2) BALL VALVES SHALL BE FORD BH4-444 (25 mm LINE)
 OR BB6-777. SIMPLE WITH PACK COURT FOR HOPE
 INCLUDING LINESEN STIFFENER AND FOR COPPER PRE ON
 END IN BUILDING
 ON BUILDING SHOPLY AND RECIPCULATION FIRE—FIELD
 ON HOPE DRIT SUPPLY AND RECIPCULATION FIRE—FIELD
 CTS (BOTH) OR 50 mm IPS WITH 25 mm CTS RETURN.

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- (6) STAINLESS STEEL WORM GEAR HOSE CLAMP TO PREVENT MOVEMENT OF VALVE EXTENSION PIPE. CAULK WITH SILICON ALL AROUND.
- 250 mm DIA 207 kPa BACKING FLANGE HOT DIPPED GALVANIZED SCREWED TO FLOOR. POLYURETHANE INSULATION FROM PORTABLE FOAM PACK TO FILL VOID.

SENERAL NOTES:

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.

- WATER CARRIER PIPE, HDPE IPS QR 13.5 WITH 50 mm WOMINAL FOURMETHANE INSULATION AND FACTORY INSTALLED JACKET 100 mm ø DIA OR 150 mm ø DIA, AS REQUIRED.
- (3) POLYURETHANE HALF SHELL MASTIC. CUT TO LENGTH AND COATED WITH ASPHALT

4. SUPPLY AND INSTALL ALL PARTS FOR COMPLETE SERVICE CONECTIONS AND LINES TO LOCATIONS AS SHOWN ON PLAN PROFILE DRAWINGS.

3. THE INSIDE SURFACES OF METAL, ON DETAIL 9, SHALL BE COATED WITH ESSO EPIC-102 GREASE.

ALL EXPOSED SURFACES INCLUDING FACTORY COATED SURFACES, OF POLYURETHANE TO BE FIELD COATED WITH MASTIC.

- VALVE EXTENSION FIELD CUT TO LENGTH AND 02 GREASE.
- STEEL LID MADE FROM 2.7mm THICK SHEET STEEL GALVANIZED AFTER FABRICATION
- $296 \mathrm{mm}$ inside dia. Removable galvanized sheet metal cap with field cut holes.
- No. 8 X 13mm CADMIUM PLATED SHEET METAL SCREWS.
- RESTORE SOFFIT TO ORIGINAL CONDITION OR REPAIR $\ensuremath{\mathbf{w}}/$ 20mm THICK PLYWOOD GLUED & SCREWED TO BOTTOM OF JOISTS.
- 2 ROBAR 2706 TAPPINO DOUBLE STRAP, 25 mm SADDLES WITH IPS THREAD - OR 50 mm Ø AS REQUIRED. F1100 OR EQUAL WITH PACK RT STIFFENER FOR HDPE IPS PIPE AS REQUIRED.
- REINFORCED PLASTIC (FRP) FOAM PLUG.
- HOLES TO FIT 25mm DIA. HDPE LINES OR 50 & 25 mm AS REQUIRED. BOTTOM INSULATION FORM OF GALVANIZED SHEET STEEL.
- 12mm DIA, SCREW BOLT WITH WELDED NUT, GALVANIZED (FOUR PER LID) HOPE IPS DR 11 WATER MAIN WITH 75mm POLYURETHANE INSULATION
- 200 mm LONG, 230 mm INSIDE DIA. FOR 100 ¢ DIA CARRIER PIPE, 280 mm INSIDE DIA FOR 150 mm ¢ DIA CARRIER PIPE.
- HOLES TO BE DRILLED IN FIELD TO SUIT. 294mm OUTSIDE DIA. x 500mm LONG.
- 600mm DIA. 68 X 13 X 1.6mm THICK GALVANIZED STEEL CULVERT.
- 390mm INSIDE DIA. x 560mm LONG FOR 200mm DIA. MAIN
- STAINLESS STEEL BAND-IT CLIPS #M211.
- FIELD COAT ALL POLYURETHANE WITH MASTIC. RESTORE FLOOR TO EXISTING CONDITION.
- BUTT FUSION JOINT TO BE MADE BY A QUALIFIED AND LICENSED TECHNICIAN:
- SHOP CAST 50mm OR 75mm (SEE SPECS) THICK POLYURETHANE INSULATION WITH BLACK JACKET PROTECTIVE COATING.
- HEAT SHRINK TO BE MIN. 100mm LAP ON BLACK JACKET AFTER SHRINKAGE.
- TWO FULL TURNS OF CHEMELEX GT $-66~{
 m GLASS}$ CLOTH TAPE. APPLY EVERY 500mm MIN.
- HDPE THERMAL BREAK CONNECT TO ITEM 2 WITH BRASS COTTER PIN. VALVE OPERATING ROD CONNECT TO ITEM 45 WITH BRASS COTTER PIN.
- SNUG FITTING PLASTIC CAR

Approved MAL Chief

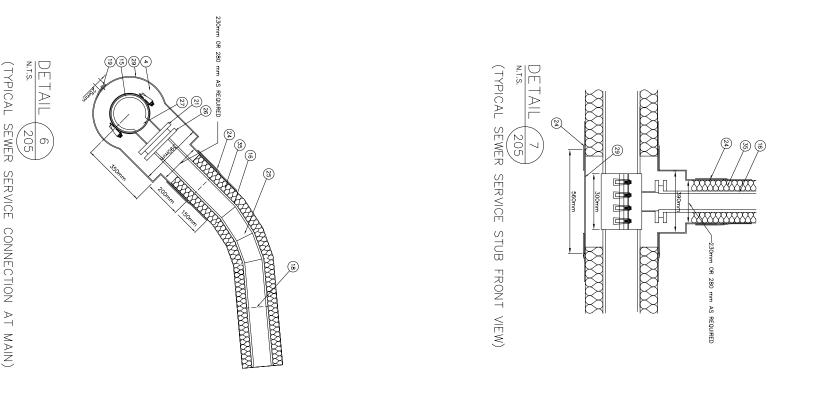
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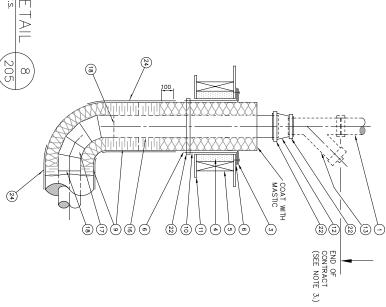


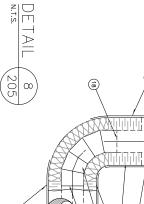
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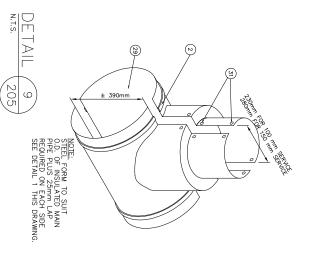
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(TYPICAL SANITARY SEWER RISER SEE DETAIL 10 DWG. 207)



(STEEL SEWER SERVICE INSULATION FORM)

KEY TO NUMBERED PARTS:

- EXISTING 75mm DIA. ABS PIPE.
- 250mm DIA 207 KPG BACKING FLANGE, HOT DIPPED GALVINIZED. SCREWED TO FLOOR. RESTORE FLOOR TO EXISTING CONDITION.
- POLYURETHANE INSULATION FROM PORTABLE FOAM PACK.
- FLOOR JOIST EXISTING.
- =NUMBER NOT USED= SILICON CAULKING

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- POLYURETHANE HALF SHELLS CUT TO LENGTH (OR FIELD APPLIED FOAM), COATED WITH ASPHALT MASTIC AND HEAT SHRINK.

- RESTORE SOFFIT TO ORIGINAL CONDITION OR REPAIR w/ 20mm THICK PLYWOOD GLUED & SCREWED TO BOTTOM OF JOISTS.

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(3)

- 100mm DIA \times 75mm DIA FERNCO SERIES 1056-43 COUPLING. (SIZE TO SUIT FOR 150 mm \varnothing SERVICE)
- 75mm DIA. ABS CLEANOUT WITH THREADED PLUG AS REQUIRED.

(i) (i)

- SANITARY MAIN, HDPE PIPE DR11 150mm OR 200mm DIA. WITH 75mm NOMINAL POLYURETHANE AND FACTORY INSTALLED JACKET.
- SANITARY SERVICE, HDPE IPS DR-13.5 WITH 50mm NOMINAL POLYURETHANE AND FACTORY INSTALLED JACKET. (100 mm ø 0R 150 mm ø AS REQUIRED)
- No. 8 X 13mm CADMIUM PLATED SHEET METAL SCREWS.

- STAINLESS STEEL TRIDENT HAS 152 GEAR CLAMPS.
- HEAT SHRINK, 150mm OVERLAP ON SHELLS AND PIPE
- JACKET.
- DUCTILE IRON SLIP ON FLANGE SUITABLE FOR USE WITH HDPE PIPE.

- FACTORY APPLIED 50mm NOM. POLYURETHANE INSULATION WITH POLYETHELENE JACKET.

4916 47TH ST P.O. BOX 1259 YELLOWKNIFE, NT X1A 2N9 CANADA

Tel. 867-873-6316 Fax. 867-873-6407 www.earthtech.ca

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- STAINLESS STEEL BAND-IT CLIPS #M211

4. SUPPLY AND INSTALL ALL PARTS FOR COMPLETE SERVICE CONECTIONS AND LINES TO LOCATIONS AS SHOWN ON PLAN PROFILE DRAWNGS.

2. ALL EXPOSED SURFACES INCLUDING FACTORY COATED SURFACES, OF POLYURETHANE TO BE FIELD COATED WITH MASTIC.

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.

GENERAL NOTES:

3. THE INSIDE SURFACES OF METAL, ON DETAIL 9, SHALL BE COATED WITH ESSO EPIC-102 GREASE.

- 600 mm LONG SLEEVE WITH 100 m WDE COLLAR MANUFACTURED BY RECYES BROTHERS INC. CONCRUTE T. 240 mm \$ (100 \$ CARRIER PIPE) OR 285 mm \$ (150 mm \$ CARRIER PIPE)

- LONG RADIUS 90' ELBOW WITH FACTORY APPLIED POLYURETHANE INSULATION WITH REINFORCED JACKET.
- FIELD BUTT FUSION JOINT MADE BY QUALIFIED AND LICENSED JOINTING TECHNICIAN.
- STAINLESS STEEL OUTLET SLEEVE. 100mm NOMINAL (ROBAR 6626 C/W 16mm NC T304 STAINLESS STEEL OUTLET SIZE. FASTENERS.
- HDPE DR11 45° BEND. FACTORY MANUFACTURED. 100 mm Ø OR 150 mm Ø AS REQUIRED.
- HOLE FOR SERVICE TO BE DRILLED IN MAIN WITH HOLE SAW.
- GALVANIZED SHEET STEEL FORM.
- HOLES TO BE DRILLED IN FIELD TO BE SUIT.

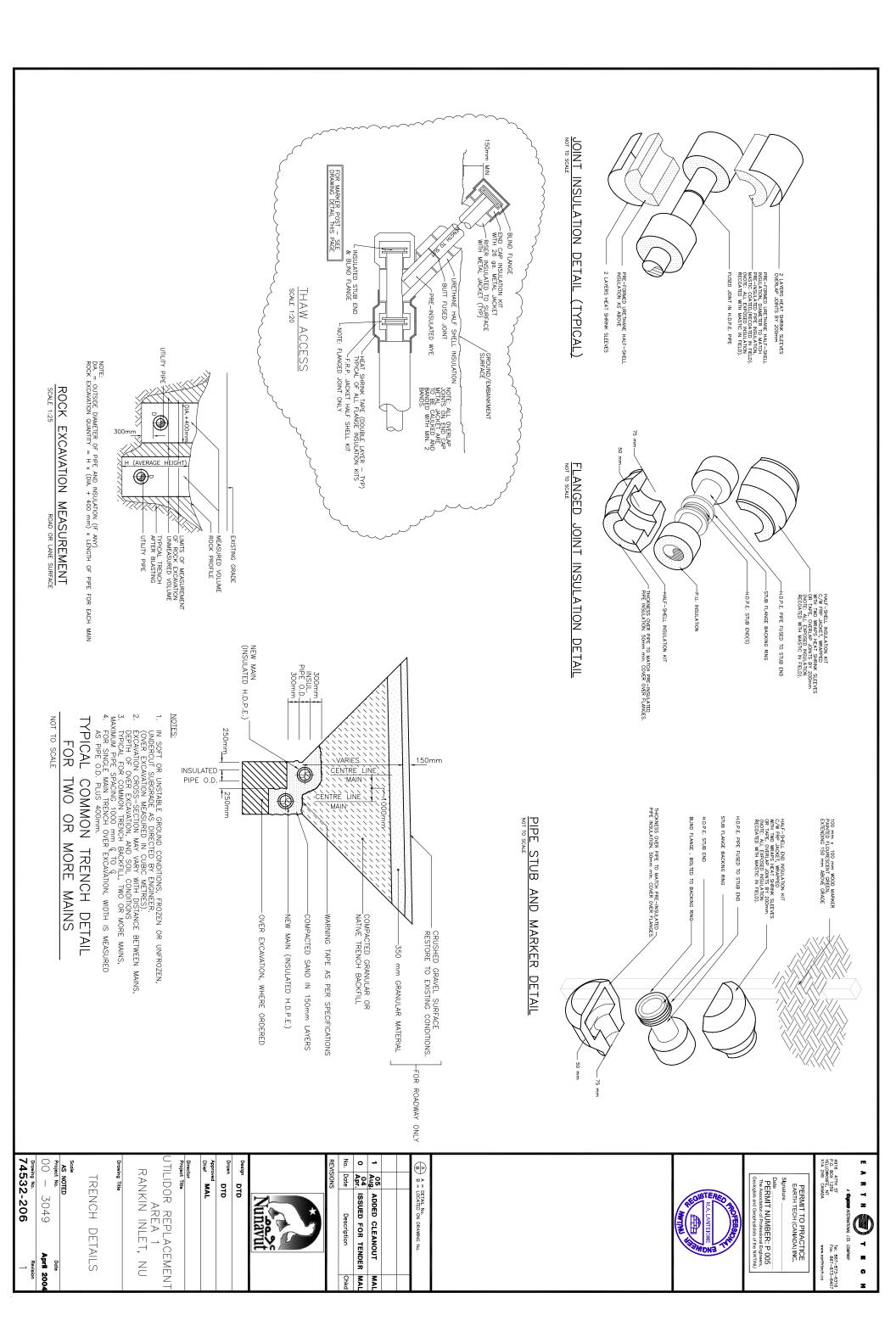
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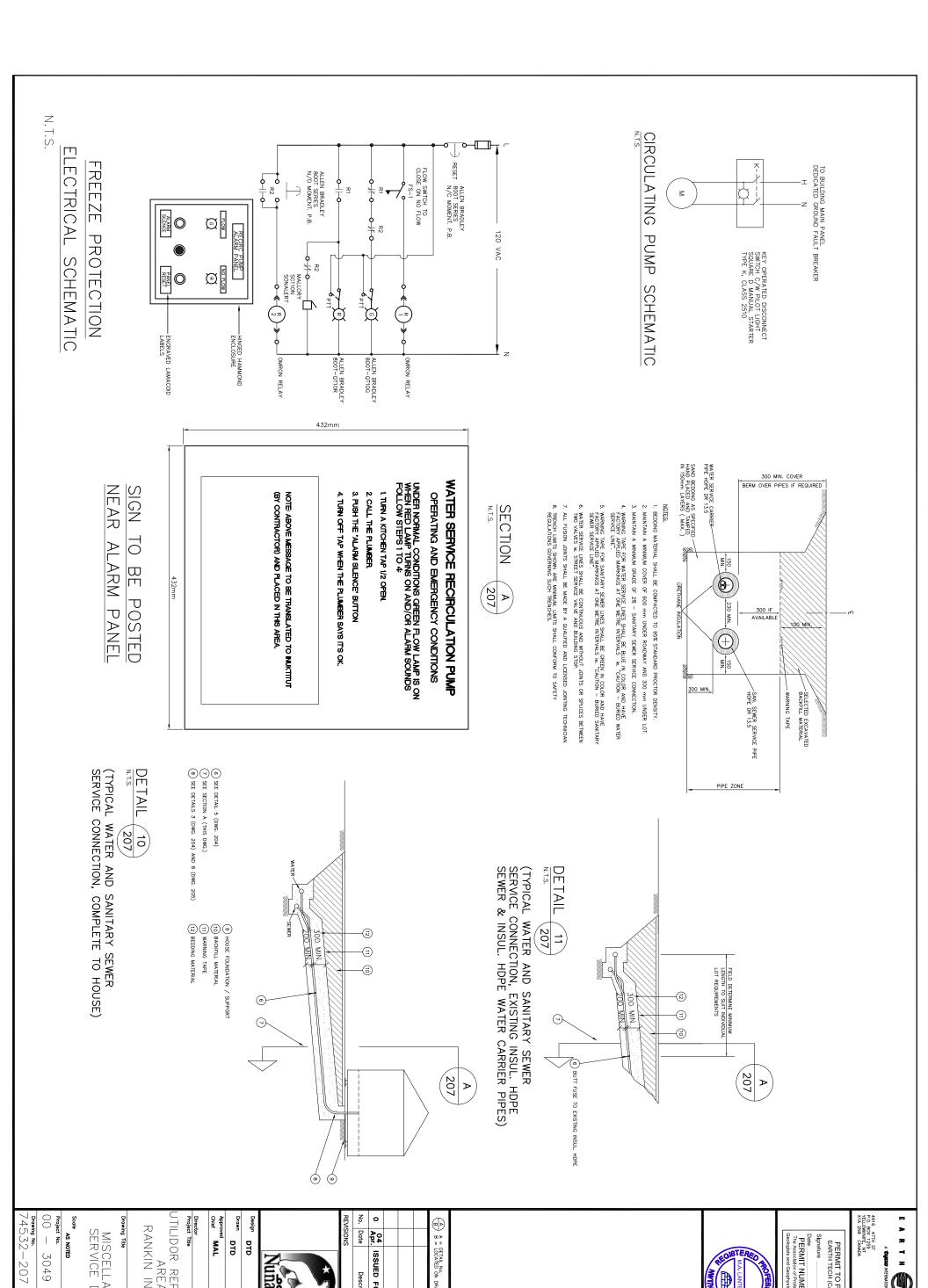
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Approved Chief MAL
Director
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UTILIDOR REPLACEMEN
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MISCELLANEOUS SERVICE DETAILS

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April 200 Revision

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Approved MAL Chief

Director Project Title

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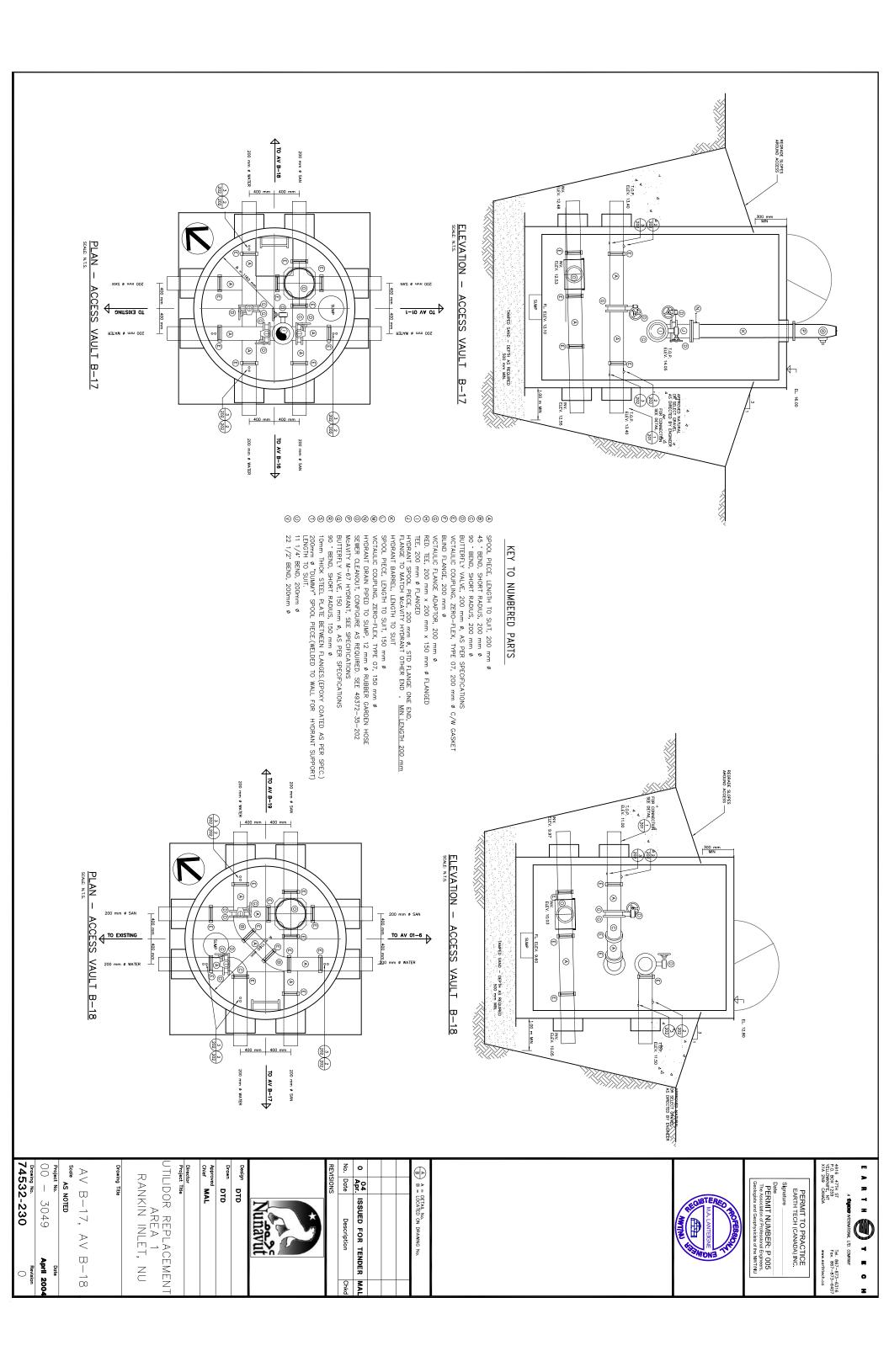
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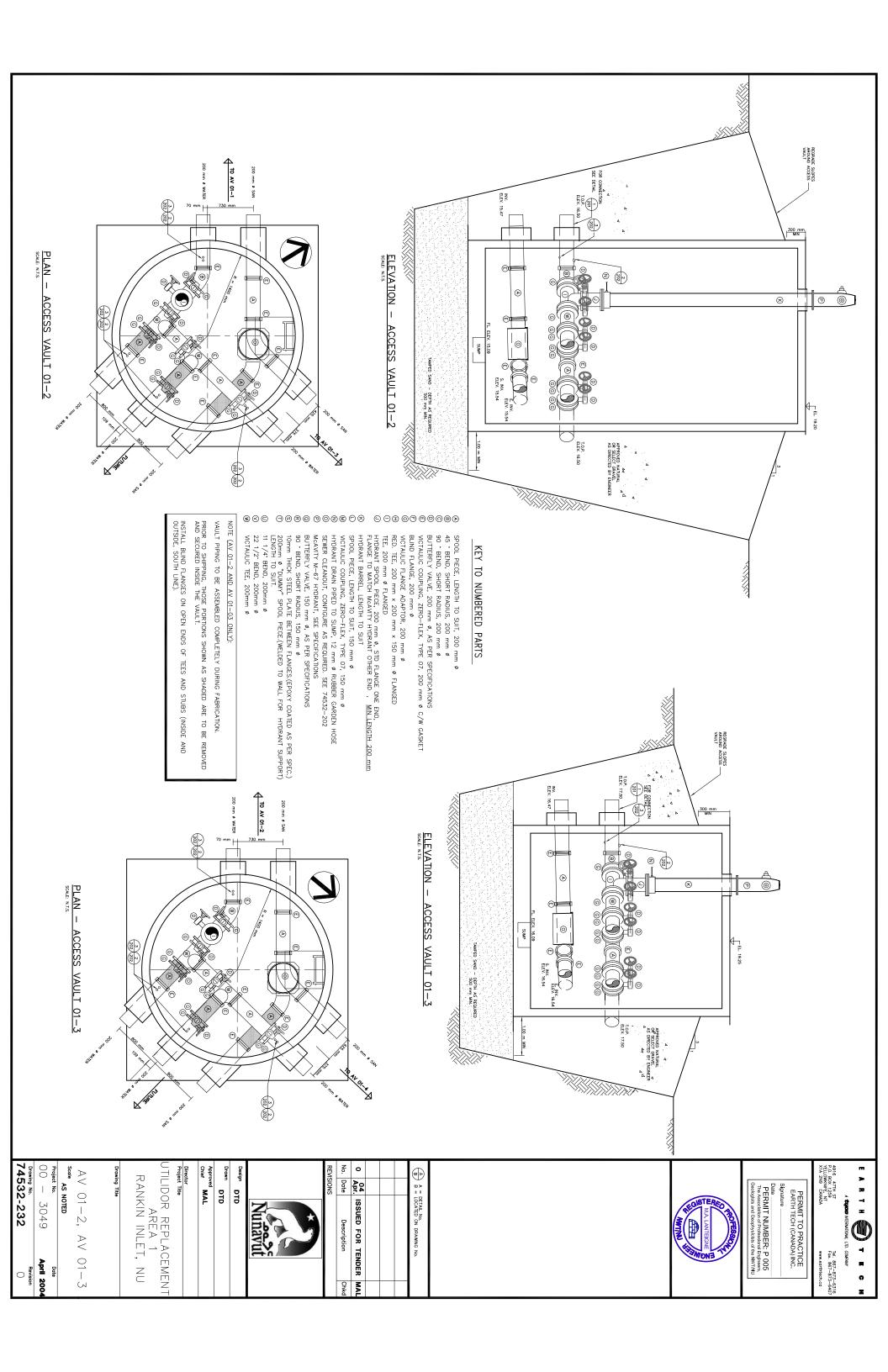
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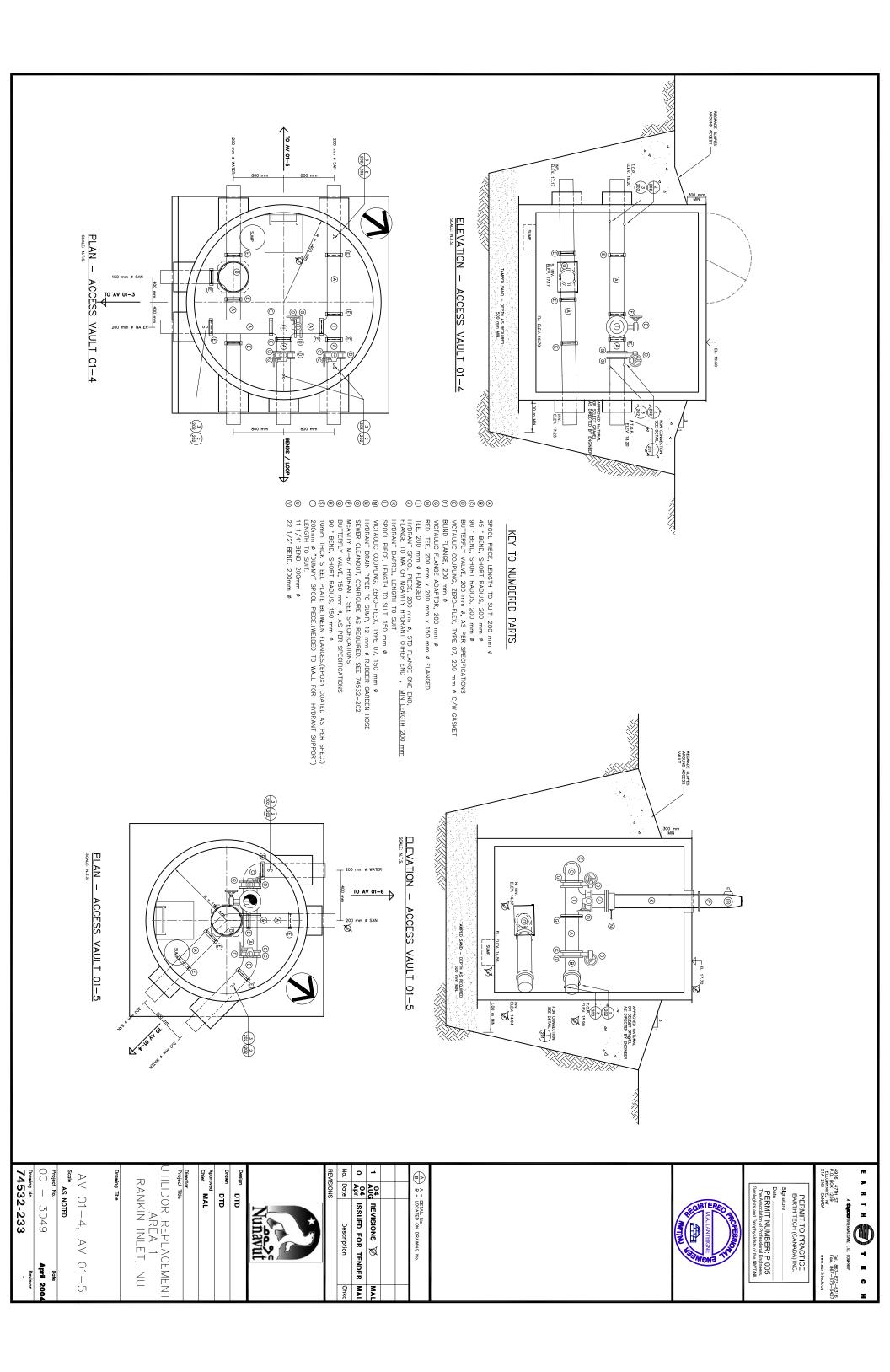
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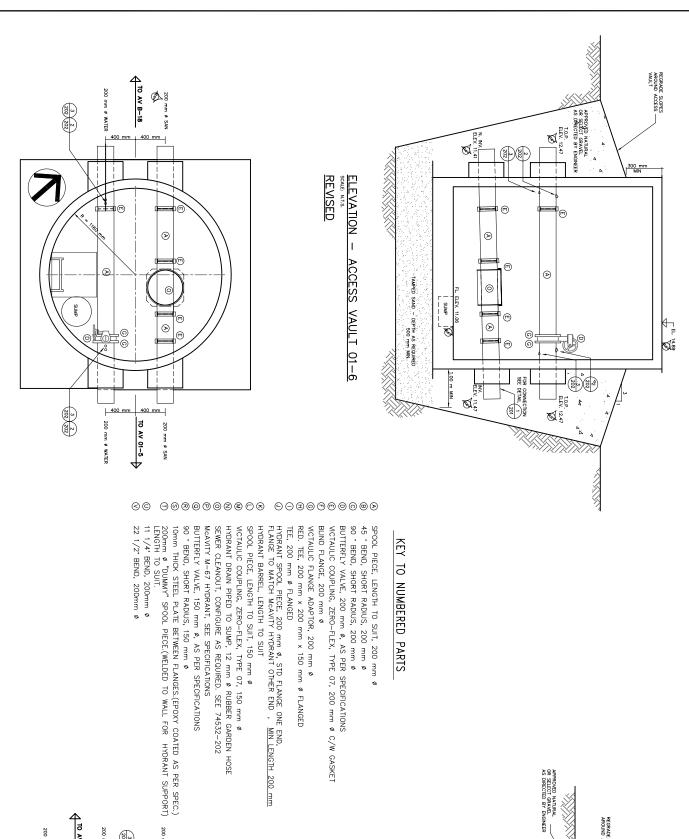
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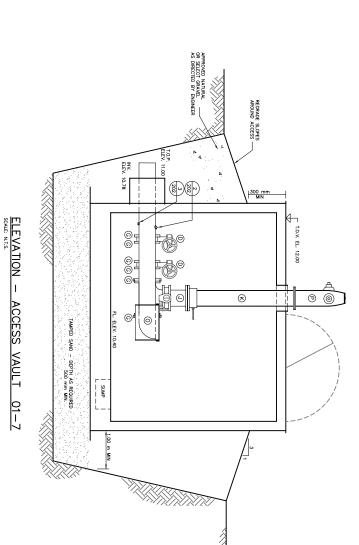
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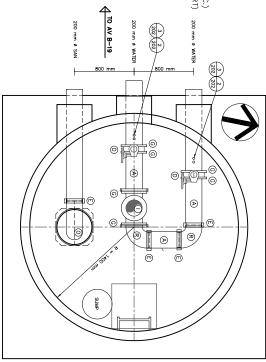


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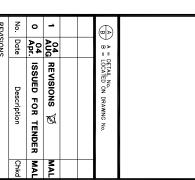
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UTILIDOR REPLACEMENT AREA 1 RANKIN INLET, NU

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