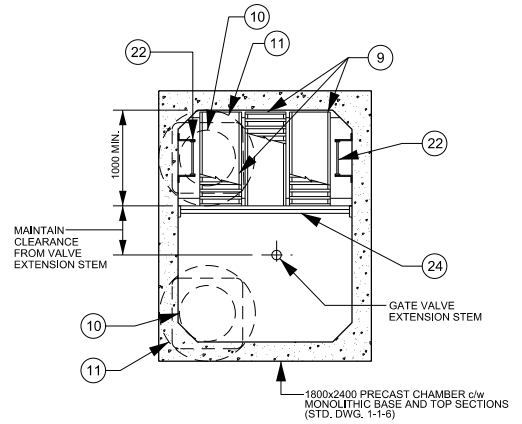


ITEM	ITEM DESCRIPTION
1	C.P.P. FEEDERMAIN AWWA C-301 AS PER DESIGN
2	750Ø I.D. TANGENTIAL FLANGED BRANCH (PIPE ACCESS), ≤ 1800Ø - 750Ø TANGENTIAL OPENING, > 1800Ø - 900Ø TANGENTIAL OPENING 750Ø I.D. FLANGED BRANCH (PIPE ACCESS)
3	750x300Ø TANGENTIAL REDUCING FLANGE (CARBON STEEL), EPOXY COATED CEMENT MORTAR LINED c/w 13Ø LIFTING ROD HANDLE ON TOP EDGE OF FLANGE
4	300Ø FLANGED SPOOL PIECE (CARBON STEEL) WELDED TO REDUCING FLANGE, EPOXY COATED (CEMENT MORTAR LINED)
5	300Ø FLANGED, RESILIENT SEAT GATE VALVE AWWA C509 FUSION BONDED EPOXY SHOP COAT FINISH ON EXTERIOR OF VALVE, FBE INTERIOR COATING TO BE ANSINSF 61 APPROVED c/w 50mm SQ. OPERATING NUT AND EXTENSION STEM
6	CONCRETE BASE c/w STEEL VALVE SUPPORT (STD. DWG. 1-2-6), CONCRETE BASE HEIGHT TO SUIT INSTALLATION
7	CPP WALL PIECE (STD. DWG. 1-3-4)
8	CHAMBER STEPS
9	SAFETY PLATFORM c/w 3 GRATINGS (STD. DWG. 1-2-1)
10	APPROVED ADJUSTMENT UNITS (STD. DWG. 1-1-6)
11	STANDARD FRAME AND COVER
12	VALVE BOX c/w SLEEVE AND EXTENSION STEM
13	UNSHRINKABLE FILL
14	UNDISTURBED GROUND
15	GRANULAR 'A'
16	BACKFILL AS SPECIFIED
17	SUMP c/w FRAME AND GRATE (STD. DWG. 1-1-8)
18	VALVE STEM EXTENSION SUPPORT (STD. DWG. 1-2-4) (POSITIONED TO SUIT AS PER STD. DWG. 1-2-1)
19	STEEL VALVE SUPPORT (STD. DWG. 1-2-6)
20	15MPa CONCRETE MUD MAT 150mm THK. MIN.
21	EQUIPMENT LIFTING SYSTEM CENTRED OVER TANGENTIAL REDUCING FLANGE (SEE NOTE 6)
22	ALUMINUM LADDER OPD 406.01 TO BE ATTACHED TO CHAMBER AND NOT ADJUSTMENT RINGS
23	100mm THICK RIGID POLYETHYLENE FOAM IF WATERMAIN IS IN ROCK OR SHALE TRENCH
24	ALUMINUM HANDRAIL c/w TOEBOARDS AND ALL SUPPORT BRACKETS AND FASTENERS POSITIONED ACROSS THE CHAMBER TO SUIT THE SAFETY PLATFORM LAYOUT
25	300Ø BLIND FLANGE



LAYOUT PLAN FOR SAFETY LANDINGS, ACCESS LADDERS AND HANDRAILING

NOTE: FRAME AND COVERS SHOWN ON PLAN AS HIDDEN LINES ABOVE

NOTE

- ALL VALVES TO BE RESILIENT SEAT TO AWWA C509, FUSION BONDED EPOXY (FBE) SHOP COAT FINISH ON INTERIOR AND EXTERIOR OF VALVE TO AWWA C550. INTERIOR COATING TO BE FBE ANSINSF 61 APPROVED.
- INTERIOR OF ALL STEEL (NOT STAINLESS STEEL) PIPE SHALL BE LIQUID EPOXY COATED TO AWWA C210 AND BE ANSINSF 61 APPROVED. ALL EXTERIOR SURFACES SHALL BE LIQUID EPOXY COATED TO AWWA C210.
- INTERIOR OF ALL DUCTILE IRON PIPE AND FITTINGS IN CONTACT WITH POTABLE WATER SHALL BE CEMENT MORTAR LINED TO AWWA C104.
- IF THE BASE OF ANY CHAMBER IS GREATER THAN 10.0m IN DEPTH THE CONTRACTOR SHALL SUPPLY A SHOP DRAWING, STAMPED BY P. ENG. LICENSED TO PRACTISE IN THE PROVINCE OF ONTARIO, FOR REVIEW OF THE BASE SLAB AND MANHOLE SECTIONS PRIOR TO FABRICATION.
- VALVE STEM EXTENSION SUPPORT BRACKETS SHALL SUPPORT TOTAL WEIGHT OF THE EXTENSION STEM, NO FORCES SHALL BE TRANSMITTED TO THE VALVE OR GEARBOX.
- DAYTON SUPERIOR P-38 NUT TYPE SLOTTED INSERT c/w DAYTON SUPERIOR F-49-A EYE BOLT EQUIPMENT LIFTING SYSTEM TO BE FACTORY CAST IN PLACE IN UNDERSIDE OF PRECAST CONCRETE MONOLITHIC TOP SECTION IN ACCORDANCE WITH OPSD 1101.019. MINIMUM SYSTEM CAPACITY TO BE 1,500kg.
- ALL NUTS, BOLTS AND WASHERS TO BE STAINLESS STEEL UNLESS OTHERWISE NOTED.
- ALL PIPING, FITTINGS, VALVES, APPURTENANCES AND MECHANICAL RESTRAINTS TO BE c/w DENSO PASTE, DENSO MASTIC AND DENSO TAPE OR APPROVED EQUAL, APPLIED TO MANUFACTURER'S RECOMMENDATIONS.



PUBLIC WORKS
STANDARD DRAWING

REV. DATE: APRIL 2014

APPROVED BY

DRAWN BY

A.P.

AINLEY GROUP

STD. DWG. NUMBER

SCALE

1-3-15

N.T.S.

TYPICAL DRAIN CHAMBER DETAILS
FOR CONCRETE PRESSURE PIPE
750 DIAMETER OR GREATER