

| ITEM | ITEM DESCRIPTION | | ITEM | ITEM DESCRIPTION | _ |
|------|---|----------------------------|------|---|---------|
| 1 | 750Ø CPP FEEDERMAIN AWWA C-301 AS PER DESIGN, BELL OR SPIGOT END TO | \Box | 19 | VALVE BOX c/w SLEEVE AND EXTENSION STEM, OPSD 1101.020 (TYP. ALL VALVES) |) , |
| | PLAIN STEEL-SHOULDER END (SPECIAL 750Ø FLANGED ACCESS BRANCH) | | 20 | VALVE STEM EXTENSION SUPPORT (STD. DWG. 1-2-4) (TYP. ALL VALVES) | |
| 2 | 750Ø CPP FEEDERMAIN AWWA C-301 AS PER DESIGN, BELL OR SPIGOT END TO FLANGE (SPECIAL 750Ø FLANGED ACCESS BRANCH) | Fittings | 21 | STEEL VALVE SUPPORT (STD. DWG. 1-2-6) | |
| 3 | 750Ø PLAIN STEEL-SHOULDER END TO WELDED FLANGE (FBE) | | 22 | CONCRETE VALVE SUPPORT (STD. DWG. 1-2-6) | _ 1 |
| 3 | c/w PIPE GAP ALLOWANCE FOR COUPLING | | 23 | CONCRETE PIPE SUPPORT (STD. DWG. 1-2-6) | _ ! |
| 4 | 750Ø FLANGED BUTTERFLY VALVE AWWA C-504 FUSION BOND EPOXY SHOP COAT FINISH ON EXTERIOR OF VALVE. FBE INTERIOR COATING | | 24 | EQUIPMENT LIFTING SYSTEM CENTRED OVER ALL VALVES (EXCLUDING MAIN LINE VALVE) AND OTHER APPURTENANCES (SEE NOTE 7) | ů |
| | TO BE ANSI/NSF 61 APPROVED. VALVE SEAT ADJUST ON ADAPTER SIDE, c/w OPERATOR /HAND WHEEL, VALVE TO BE SUITABLE FOR CONTINUOUS | CPP and | 25 | 12 GAUGE TWIN STRANDED TRACER WIRE. EXTEND UP CHAMBER WALL AND TERMINATE JUST BELOW FRAME AND COVER (ATTACH WITH S.S. WALL ANCHORS | 3) |
| 5 | SUBMERGED INSTALLATION 750Ø VICTAULIC AGS STYLE W77 COUPLING, FUSION BOND EPOXY SHOP COAT | Large Diameter | 26 | PRE-ENGINEERED ALUMINUM PLATFORM STRUCTURE c/w LADDER(S), HINGED PLATFORM, HANDRAILS AND KICK PLATE, SAFETY CHAINS AND EYEHOOKS | |
| | FINISH ON EXTERIOR, FBE INTERIOR COATING TO BE ANSI/NSF 61 APPROVED. | | 27 | ALUMINUM ACCESS LADDER, OPSD 406.010 | latfo |
| 6 | PIPE GAP AS PER MANUFACTURER'S RECOMMENDATIONS. DOUBLE PUDDLE FLANGE (BY PIPE SUPPLIER) | | 28 | Line Left Intentionally Blank | 7 |
| 7 | Line Left Intentionally Blank | | 29 | CAST IN PLACE RISER (OR SUITABLE PRECAST BOX ADJUSTMENT UNIT C/W WATERPROOF MEMBRANE AS PER STD. DWG. 1-1-6) | |
| 8 | 750Ø FLANGED BRANCH | | 30 | TWO PIECE VALVE CHAMBER COVER AS PER OPSD 402,030: | - |
| 9 | 750x75Ø REDUCING FLANGE TAPPED WITH 75 IPT c/w LIFTING HANDLES (SEE DETAIL) | | " | WORD "WATER" TO BE EMBOSSED IN COVER | |
| 10 | 75Ø COMBINATION AIR RELEASE VALVE ASSEMBLY, VALMATIC MODEL VM-203C | 1 | 31 | ACCESS RISER RIGID INSULATION (STD. DWG. 1-1-6) | |
| | INTERIOR & EXTERIOR OF VALVE SHALL BE FUSION BONDED EPOXY COATED ANSI/NSF 61 APPROVED (STD. DWG. 1-3-14). | | 32 | INTERIOR CHAMBER INSULATION (OR EXTERIOR) (STD. DWG. 1-1-6) | |
| 11 | Line Left Intentionally Blank | - 1 | 33 | REMOVABLE CONCRETE ROOF SLAB SECTIONS | pue |
| 12 | 150Ø FLANGED TANGENT BRANCH (FBE) | Diameter Pipe and Fittings | 34 | SUMP c/w FRAME AND GRATE (STD. DWG. 1-1-8) | _ { |
| 13 | 150Ø SHORT RADIUS ELBOW FLANGED (D.I.) | | 35 | CONCRETE MUD SLAB 100mm THICK MIN. | _ 3 |
| 14 | 150Ø TEE FLANGED (D.I.) | | 36 | UNDISTURBED GROUND OR COMPACTED SELECT BACKFILL TO 100% SPMDD | |
| 15 | 150Ø SPOOL PIECE FLANGE TO PLAIN END CLASS 53 D.I., CEMENT LINED | | 37 | 150Ø 304 SS VENTILATION HOOK-UP c/w 304 SS #10 MESH INSECT SCREEN | 7 790 |
| 16 | 150Ø FLANGED, RESILIENT SEAT GATE VALVE AWWA C509 FUSION BONDED EPOXY SHOP COAT FINISH ON EXTERIOR OF VALVE, FBE INTERIOR COATING TO BE ANSI/NSF 61 APPROVED CW 50mm SQ. OPERATING NUT AND EXTENSION STEM | | 38 | BREAK AWAY CONNECTION WITH WELDED FLANGE OR PLATE WITH 3-LIGHT DUTY CONC. ANCHORS WHICH WILL ENSURE THAT THE PIPE WILL SHEER AT THE CONC. INTERFACE | 100 |
| 47 | 150Ø VICTAULIC STYLE 31 COUPLING, FUSION BOND EPOXY SHOP COAT | | 39 | CONCRETE SUPPORT PIER 25MPa CONCRETE. | \perp |
| 17 | FINISH ON EXTERIOR, FBE INTERIOR COATING TO BE ANSI/NSF 61 APPROVED. | II D | 40 | 100Ø FLANGED BRANCH | ٦, |
| | PIPE GAP AS PER MAUNFACTURER'S RECOMMENDATIONS. | Small | 41 | 100Ø BLIND FLANGE | _[3 |
| 18 | 150Ø BLIND FLANGE (D.I.) | | 42 | 100Ø FLANGED, RESILIENT SEAT, FULL PORT BALL VALVE, 316 STAINLESS STEEL, LEVER OPERATED (LOCKABLE HANDLE). TRUELINE SERIES 515IIT | 2 |
| | | | | OR APPROVED EQUAL | Ľ |

NOTE

- 1. REFER TO TYPICAL LINE VALVE CHAMBER DETAIL 2 OF 2 (STD. DWG. 1-3-31) FOR SECTIONS.
- 2. ALL VALVES TO BE RESILIENT SEAT TO AWWA C504 OR AWWA C509, AS APPLICABLE, FUSION BONDED EPOXY (FBE) SHOP COAT FINISH ON INTERIOR AND EXTERIOR OF VALVE TO AWWA C550. INTERIOR COATING TO BE FBE ANSI/NSF 61 APPROVED.
- 3. INTERIOR OF ALL STEEL (NOT STAINLESS STEEL) PIPE SHALL BE LIQUID EPOXY COATED TO AWWA C210 AND BE ANSI/NSF 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.
- 5. VALVE STEM EXTENSION SUPPORT BRACKETS SHALL SUPPORT TOTAL WEIGHT OF THE EXTENSION STEM, NO FORCES SHALL BE TRANSMITTED TO THE VALVE OR GEARBOX.
- 6. THE BUTTERFLY VALVE TO BE INSTALLED WITH SEAT ADJUSTMENT SCREWS FACING THE REMOVABLE SPOOL PIECE ASSEMBLY.
- 7. DAYTON SUPERIOR P-38 NUT TYPE SLOTTED INSERT c/w DAYTON SUPERIOR F-49-A EYE BOLT EQUIPMENT LIFTING SYSTEM TO BE INSTALLED IN THE UNDERSIDE OF CONCRETE ROOF SLAB IN ACCORDANCE WITH OPSD 1101.019. MINIMUM SYSTEM CAPACITY TO BE 1,500kg.
- 3. ALL PIPE AND VALVE SUPPORTS AS PER STD. DWG. 1-2-6 c/w 6mm NEOPRENE BOND BREAKER AT ALL CONTACT POINTS. SUPPORT 150Ø BY-PASS ON ADDITIONAL CONCRETE SUPPORTS. PROVIDE CONCRETE PIPE SUPPORTS WITHIN A MAXIMUM DISTANCE OF ONE PIPE DIAMETER FROM ALL VICTAULIC COUPLINGS.
- 9. CHAMBERS TO BE WATERPROOFED AS PER STD. DWG. 1-1-6.

- 10. CO-ORDINATE ALL CHAMBER DESIGN ELEVATIONS INCLUDING PIPE INVERTS, 750Ø FLANGED BRANCH, FINISHED GRADE, TOP OF CHAMBER, FLOOR OF CHAMBER AND ACCESS PLATFORMS TO MAINTAIN MINIMUM CLEARANCES AS SHOWN.
- 11. IF PIPE SUPPLIER REQUIRES CROTCH PLATES ON 750Ø FLANGED BRANCH CONNECTION, CO-ORDINATE PLATFORM ELEVATION AND PLATFORM SUPPORT BEAMS TO ENSURE ADEQUATE CLEARANCE TO PIPE.
- 12. ALL PIPING AND FITTING DIMENSIONS ARE BASED ON CLASS 'D' (1035kPa) FLANGE REQUIREMENTS. ENSURE ADEQUATE CLEARANCE TO ALL PIPING AND FITTINGS IF REQUIRED CLASS OF FLANGES IS DIFFERENT.
- 13. ALL FLANGE BOLTS TO BE STAINLESS STEEL.
- 14. ALL STAINLESS STEEL PIPE WILL BE 304L SCHEDULE 40 TO ASTM A776.
- 15. ALL ALUMINUM IN CONTACT WITH CONCRETE SHALL RECEIVE TWO COATS OF BITUMINOUS PAINT.
- 16. TRACER WIRE MUST BE INSTALLED ACCORDING TO PEEL STANDARDS.
- 17. ALL COVERS LOCATED OFF PAVEMENT, SHALL BE RAISED A MIN. OF 150mm ABOVE SURROUNDING GRADE LEVEL TYP.
- 18. 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

TYPICAL LINE VALVE CHAMBER FOR 750 DIAMETER CONCRETE PRESSURE PIPE DETAIL 1 OF 2 REV. DATE: APRIL 2014

APPROVED BY

A.P.

STD. DWG. NUMBER

1-3-30

N.T.S.