



- NOTES:**
- APPROVED MAINTENANCE SHAFTS MAY BE MANUFACTURED FROM VARIOUS MATERIALS (E.G. PVC, POLYPROPYLENE) AND VARIOUS DESIGNS. AS SUCH JOINTING ARRANGEMENTS MAY VARY FROM THAT SHOWN ON THIS STANDARD DRAWING.
 - TYPE AND CLASS OF SEWER PIPES SHALL BE AS SPECIFIED ON THE PROJECT DESIGN PLANS / PROJECT SPECIFICATION.
 - MAXIMUM DEPTH TO INVERT OF MAINTENANCE SHALL NOT EXCEED 3000.
 - CONCRETE SHALL COMPLY WITH AS 1379. THRUST BLOCK CONCRETE IS TO BE GRADE N25 (25MPa, 20mm MAX AGGREGATE) AND WHERE APPLICABLE SHALL BE POURED AGAINST UNDISTURBED GROUND. PROVIDE FELT OR APPROVED PLASTIC BOND BREAKER BETWEEN FITTING AND CONCRETE.
 - ALL OTHER CONCRETE TO BE GRADE N32 (32 MPa, 20mm MAX AGGREGATE).
 - PVC PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH AS 2032. PIPE INSTALLATION SHALL COMPLY WITH THE PROJECT SPECIFICATION.
 - IN NON TRAFFICABLE AREAS IN ABORIGINAL COMMUNITIES, THE FSL IS TO BE 100 BELOW THE TOP OF THE HEAVY DUTY ACCESS COVER SURROUND.
 - AT CHANGES OF SEWER GRADE LAY THE MAINTENANCE SHAFT CHAMBER AT THE LESSER OF THE TWO SEWER GRADIENTS, PROVIDED THAT REQUIREMENTS OF NOTE 14 ARE SATISFIED.
 - USE A SHORT RADIUS POST FORMED BEND OF APPROPRIATE ANGLE TO ADJUST THE RISER SHAFT TO NOT GREATER THAN 0.5° FROM VERTICAL.
 - PLACE TYPE 2A BEDDING OR 3% STABILISED SAND AROUND MAINTENANCE SHAFT RISER IN LIFTS OF THE SAME HEIGHT AS ADJACENT TRENCH BACKFILL AND USE TEMPORARY SHIELDS SPANNING THE TRENCH TO SEPARATE SURROUND AND TRENCH BACKFILL.
 - USE ONLY THOSE MANUFACTURER'S PRODUCTS SHOWN APPROVED IN THE WATER AND SEWERAGE INFRASTRUCTURE PRODUCTS MANUAL.
 - ENGRAVE MAINTENANCE SHAFT NUMBER ON 150 x 50 PLASTIC EXTERIOR ENGRAVING LAMINATE. LAMINATE TO BE 1.5mm THICK WHITE OVER BLACK. LETTERS TO BE 30mm HIGH. ENGRAVING TO BE 4mm WIDE.
 - DEPTH OF CONCRETE FOR SURROUND TO SUIT HEIGHT OF CAST IRON MAINTENANCE SHAFT SURFACE ACCESS COVER AND FRAME.
 - PROVIDE PIPELINE UNDERLAY AND OVERLAY IN ACCORDANCE WITH THE PROJECT SPECIFICATION.
 - UNLESS OTHERWISE PERMITTED BY MANUFACTURER MINIMUM DROP ACROSS IN-LINE MAINTENANCE SHAFT CHAMBER IS 30mm. FOR ELBOW MAINTENANCE SHAFT CHAMBERS, MINIMUM DROP FROM INLET TO CENTRE OF CHAMBER IS 20mm AND FROM CENTRE OF CHAMBER TO OUTLET IS 20mm. MAXIMUM VERTICAL DEFLECTION AT INLET AND OUTLET IS ONE DEGREE UNLESS OTHERWISE PERMITTED BY MANUFACTURER. NO HORIZONTAL DEFLECTION ALLOWED AT INLET OR OUTLET.
 - FOR CAST IN-SITU CONCRETE SURROUNDS, MAINTENANCE SHAFT NUMBER MAY BE ENGRAVED INTO SURROUND, MINIMUM 50mm LETTERING.

NO	DESCRIPTION	DRN	DATE	CKD	APPD
5	NOTE 3 CHANGED.	J.W.	NOV '23	J.C.	D.C.
4	GENERAL AMENDMENTS 2018.	J.W.	SEPT '18	I.L.	D.C.
3	ADD NOTE 15 AND MINOR CHANGE TO CLASS D COVER ELEVATION.	RGI	MAY '07	R.J.	J.P.
2	UPDATE MESH DETAILS ON ELEVATION & ALTERNATIVE WIDE FLANGE DEEP FLANGE DETAIL.	A.C.	NOV '06	R.J.	J.P.
1	ACCESS COVER SIZE CHANGED, BEARERS ADDED.	A.C.	AUG '05	R.J.	J.P.



DES	P.S. / N.M.	SEWERAGE STANDARD DRAWING		
DRN	A.G.	SEWER MAINS		
CHK	P.S.	MAINTENANCE SHAFT		
APPD	N.McC	TYPICAL ARRANGEMENT		
SCALE	N.T.S.	A3	DRAWING NUMBER	5
ISSUED	MAY '01		W2-2-07	
ALL DIM. IN mm				
DRAFTING STANDARD TO A.S.1100		CAD PRODUCT - DO NOT AMEND MANUALLY		