

- GENERAL**
- INVERT LEVELS AND REFERENCE POINT DATA ARE SPECIFIED IN THE DESIGN DRAWINGS
 - INLET/OUTLET PIPES MAY JOIN STRUCTURE AT SKEW ANGLES
- CONCRETE AND REINFORCEMENT**
- ALL INSITU CONCRETE SHALL BE CLASS N32 IN ACCORDANCE WITH AS1379
 - ALL INSITU CONCRETE CORNERS SHALL HAVE A 20MM CHAMFER UNLESS OTHERWISE NOTED
 - CEMENT MORTAR SHALL CONSIST OF ONE PART PORTLAND CEMENT (OR SIMILAR) AND THREE PARTS SAND
 - SL81 REINFORCEMENT SHALL CONFORM WITH HARD DRAWN FABRIC TO AS4671
 - MINIMUM CLEAR COVER TO REINFORCEMENT SHALL BE 50MM
- LINER**
- THE LINER SHALL BE REINFORCED CONCRETE SPUN TO AS4058
 - THE MAXIMUM INLET/OUTLET PIPE INTERNAL DIAMETER MUST BE LESS THAN 60% OF THE LINER INTERNAL DIAMETER
 - MINIMUM SPACE OF 200MM BETWEEN HOLES IN LINER
 - MINIMUM 40% OF LINER SHALL REMAIN IN ANY HORIZONTAL PLANE
 - HOLES TO BE PUNCHED/CUT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION
 - THE LINER SHALL HAVE RELEVANT PROPERTIES AND REINFORCEMENT OF CLASS 2 RCP EXCEPT THAT REINFORCEMENT SHALL BE CIRCULAR
 - BRICK MANHOLES ARE TO BE IN ACCORDANCE WITH MRWA STANDARD DRAWING 200231-086 AND 200231-089

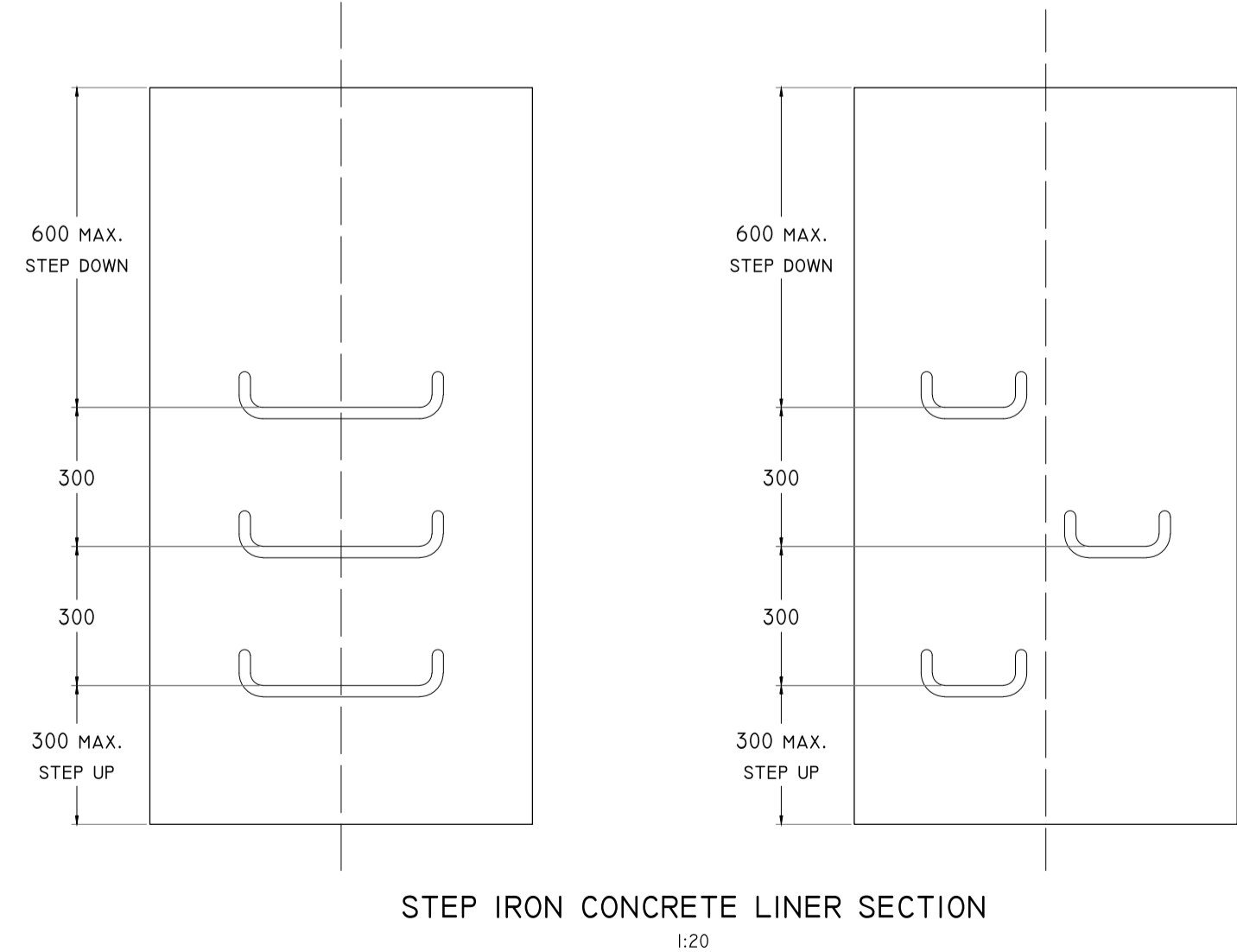


TABLE 1

PIT DEPTH	LINER DIAMETER	MAX CONNECTING PIPE DIAMETER
600 - 1800	1050	450
1800 - 3600	1200	675

TABLE 2

PIT DEPTH	LINER
600 - 1200	Ø900
> 1200	Ø1050

- STEP IRONS**
- DRAINAGE STRUCTURES DEEPER THAN 1200MM SHALL BE FITTED WITH STEP IRONS IN ACCORDANCE WITH AS1657
 - STEP IRONS SHALL BE LOCATED:
 - DIRECTLY BELOW THE OPENING IN THE COVER
 - DESIRABLY ON A WALL WITHOUT PIPE OPENINGS
 - ORIENTATE STEP IRONS OR LADDER TO ENABLE EASY ACCESS AND TO FACE ONCOMING TRAFFIC
 - MATERIAL FOR STEP IRONS SHALL BE N24 DEFORMED BAR (MICRO ALLOY DEFORMED BAR SHALL NOT BE USED)
 - APPROVED PREFABRICATED GALVANISED STEEL LADDER MAY BE USED IN DEEP DRAINAGE STRUCTURES IN ACCORDANCE WITH AS1657 AND FIXED WITH STAINLESS MASONRY ANCHORS ALL THREADED PORTION OF BAR AND NUTS SHALL BE DRILLED AND TAPPED OVERSIZE IN ACCORDANCE WITH AS1214 TO SUIT GALVANISING
 - STEP IRONS SHALL BE HOT DIP GALVANISED IN ACCORDANCE WITH AS4680



STANDARD DETAILS

NO.	ISSUE & REVISION	DATE
1	INFORMATION	21.12.16

ISSUED FOR INFORMATION

PROJECT CODE	001
SCALE	100% AT A1
DATE	21.12.16
DRAWN	PS
CHECKED	AR
APPROVED	AR

MANHOLE & CONNECTION PITS

DRAWING NUMBER

SD.04