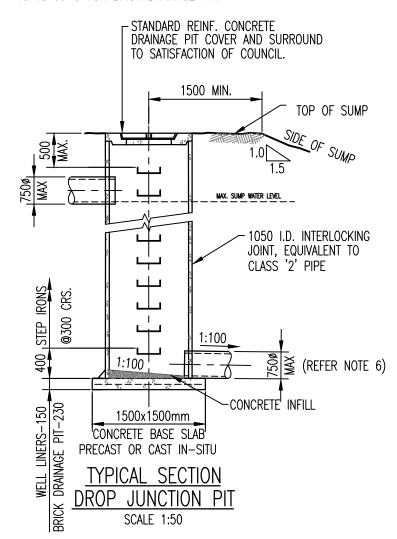
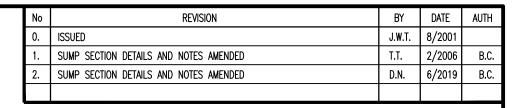
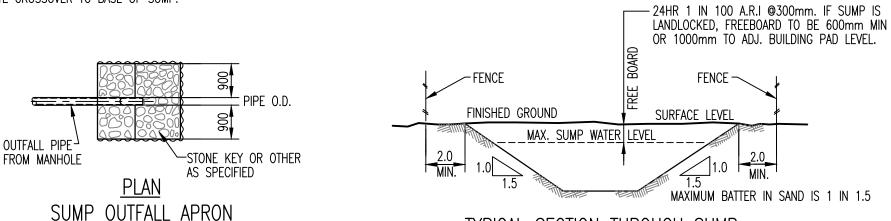
NOTES:

- 1. CONCRETE SHALL BE MINIMUM 20MPa COMPRESSIVE STRENGTH AT 28 DAYS.
- 2. FINISHED CONCRETE SURFACES SHALL NOT EXCEED THE TOLERANCES FOR CLASS 4 FORMWORK AS SPECIFIED IN AUSTRALIAN STANDARDS CONTROL OF CONCRETE SURFACES—FORMWORK.
- 3. PRECAST UNITS SHALL BE USED ONLY WITH COUNCIL'S APPROVAL.
- 4. ALL PIPES SHALL BE CLASS 2 SPUN REINFORCED CONCRETE.
- 5. ALL DRAINAGE PIT COMPONENTS TO BE DESIGNED TO ACCEPT AUSTROADS A14 LOADING STANDARD.
- 6. FOR PIPE SIZES GREATER THAN OR EQUAL TO 7500 REFER TO TS 03-3 FOR BRICK DRAINAGE PIT.



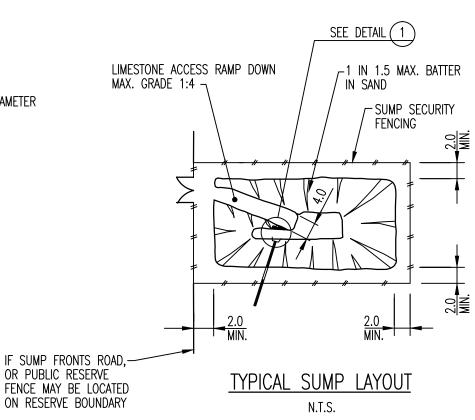
- 7. DROP JUNCTION PIT TO BE USED AT ALL SUMP SITES UNLESS OTHERWISE DIRECTED BY THE CITY.
- 8. LIMESTONE ACCESS RAMP TO BE 4m WIDE WITH 150mm COMPACTED LIMESTONE FROM END OF CONCRETE CROSSOVER TO BASE OF SUMP.





TYPICAL SECTION THROUGH SUMP

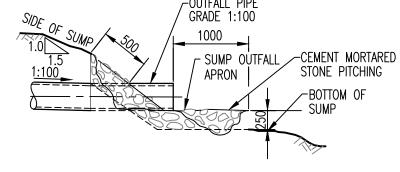
SCALE 1:200



HEIGHT TO PIPE 150 MIN

150mm MIN STONE PITCHING
OUTLETS CLOSE TO OPPOSITE BANK SHALL
HAVE STONE PITCHING TO WIDTH = 3 x PIPE DIAMETER
AND HEIGHT TO PIPE DIAMETER

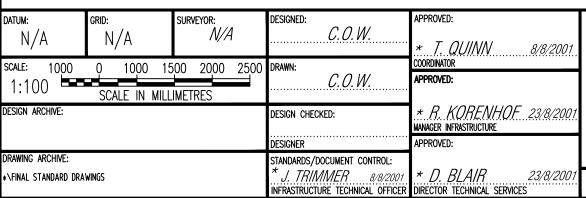
OUTFALL PIPE



SCALE 1:100

* INDICATES SIGNATURES ON ORIGINAL ISSUE OF DRAWING.

LOCALITY



DRAINAGE

SUMP AND SUMP OUTFALL DETAILS

STANDARD

CITY OF WANNEROO TECHNICAL SERVICES



INFRASTRUCTURE SERVICES

FILE No.

DRAWING No

SHEET

EVISION ORIGINAL DRG.SIZE

TS 03 - 4 - 2

A3

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