CULVERT NOTES:

5.

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- 1. REFER TO GENERAL TOLERANCES UNO
- 2. REFER PAGE 2 FOR TMR COMPLIANCE NOTES
- 3. ALL LIFTING POINTS TO BE USED WHEN LIFTING
- 4. MINIMUM STRENGTH OF CONCRETE SHALL BE 25MPA AT THE TIME OF LIFTING
- 5. NOMINAL COVER TO REINFORCEMENT 35MM
- REFER TO ANCON LIFTING ARRANGEMENT PLAN 6.
- 7. BOX CULVERTS COMPLIES TO AS1597.1-2010

EM # OTY		ERT TMR 600x600	-2A 1200mm	NOMINAL LENG	ГН
	. PART #	DESCRIPTIO	ON	MATERIAL	VOLUME
1 1	50202614	CONCRETE FIBR	E 50MPA	CONCRETE 50 MPa	0.27
2 4	50201274	FOOT ANCHOR ZP :	1.3Tx65mm	MS GR-250 GALV	
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GENERAL NOTES

- GENERAL NOTES, DESIGN STANDARDS AND SPECIFICATIONS, AND 1. CONSTRUCTION TOLERANCES SPECIFIED BELOW WILL TAKE PRECEDENCE.
- CONCRETE GRADE TO BE 50 MPA, FIBRE-REINFORCED. FIBRE CONTENT: 5KG/M3, FIBERCON MP47 2.
- 3. 4.
 - DESIGN LIFE OF 100 YEARS PER AS1597.1-2010
 - MINIMUM EXPOSURE CLASSIFICATION B2
 - NOMINAL COVER TO REINFORCEMENT 35MM
- REINFORCEMENT IS SHOWN DIAGRAMMATICALLY AND IS DENOTED AS 5. FOLLOWS: BAR NOTATION PREFIX LETTER FOLLOWED BY DIAMETER IN MILLIMETERS.
 - R STRUCTURAL GRADE 250 PLAIN ROUND BAR TO AS4671 N - DEFORMED BAR, GRADE 500, ALL BARS TO AS4671
 - SL/RL GRADE 500 WELDED MESH TO AS4671
- DESIGN CAPACITY OF CLASS L REINFORCEMENTS HAS BEEN REDUCED 6. BY 20%.
- 7. ALLOWABLE SOIL BEARING PRESSURE IS 150 KPA. 8.
 - MINIMUM COMPRESSIVE STRENGTHS FOR:
 - HANDLING 20 MPA
 - TRANSPORTING 32 MPA
- 9. TACK WELDS BETWEEN DEFORMED BARS AND MESH MUST COMPLY WITH AS1554.3.

TEST PROCEDURE

- TESTING OF UNITS SHALL OCCUR AT 28 DAYS FROM THE DATE OF 1. MANUFACTURE.
- SET UP TESTING APPARATUS IN ACCORDANCE WITH APPENDIX G, AS 2. 1597.1-2010.
- EACH TEST SPECIMEN WILL BE SUBJECTED TO PROVING TEST LOAD, AND THEN LOADED TO THE ULTIMATE TEST LOAD AFTER PASSING. 3.
- FOR SERVICEABILITY STATE, EACH SPECIMEN SHOULD SUSTAIN 134.4 4. KN (1.2 TIMES PROVING TEST LOAD OF 112 KN) WITHOUT DEVELOPING CRACKS GREATER THAN 0.30mm (PROVING TEST LOAD APPLIED) AND 0.20mm (PROVING TEST LOAD REMOVED)
- FOR ULTÍMATE STATE, RECORDED RESULTS SHALL BE MÍNIMUM OF 5. 262.6 KN VERTICAL LOAD (1.3 TIMES ULTIMATE TEST LOAD OF 202 KN). COEFFICIENT OF VARIATION SHALL NOT BE GREATER THAN 0.15.

DESIGN STANDARDS AND SPECIFICATIONS CULVERTS HAVE BEEN DESIGNED AND MANUFACTURED IN ACCORDANCE WITH THE FOLLOWING CODES/STANDARDS/SPECIFICATIONS/DOCUMENTS:

- AS1597.1-2010 (PRECAST REINFORCED CONCRETE BOX
- CULVERTS PART 1: SMALL CULVERTS)
- AS3600-2018 (CONCRETE STRUCTURES)
- AS5100.5:2017 (BRIDGE DESIGN: CONCRETE)
- MRTS24 DATED JUL 2017 (MANUFACTURE OF PRECAST CONCRETE CULVERTS)
- MRTS70 DATED NOV 2018 (CONCRETE)
- MRTS71 DATED NOV 2021 (REINFORCING STEEL)
- MRTS273 DATED NOV 2020 (FIBRE-REINFORCED CONCRETE)

• SPAN: +5, -5

- HEIGHT: +5, -5
- THICKNESS: +5, -3
- LENGTH: +10, -10
- COVER TO REINFORCEMENT: +10, -5



REINFORCEMENT ARRANGEMENT SCALE 1:10



N12-400 HORIZONTAL BARS (EPICOR NO.: 50207480 REO 12 660mm - QTY: 4 OFF)

SL82 MESH