NOTES:

1. CUT INLET AND OUTLET PIPES TO BE SHAPED AROUND MANHOLE WITH REINFORCEMENT LEFT EXPOSED AND CUT TO LAP INTO CHAMBER REINFORCEMENT.

2. APPROPRIATE HOLES TO BE CUT INTO MANHOLE CHAMBER SECTIONS (MINIMUM 300 mm TO TOP OR BOTTOM OF UNIT).

3. CUT EXPOSED CHAMBER REINFORCEMENT AT INLET TO LAP WITH INLET PIPES REINFORCEMENT AND CONNECT REINFORCEMENT BY WELDING.

4. FILL REMAINING GAP WITH AN EPOXY RESIN MORTAR, POLYESTER RESIN MORTAR OR MAGNESIUM PHOSPHATE CEMENT MORTAR.

5. AT OUTLET, TURN EXPOSED CHAMBER REINFORCEMENT OUT AND INCLUDE IN THE CONCRETE SURROUND. DO NOT ENCLOSE THE RUBBER RING JOINT IN THE CONCRETE SURROUND.

6. PLATED INTERIOR OF OUTLET INCLUDING EXPOSED PIPE REINFORCEMENT.

7. STANDARD STEP IRONS TO BE GALVANISED OR LEAD COATED IRON 300 WIDE FIXED INTO REINFORCED CONCRETE CHAMBER.

8. CONCRETE BASE SLAB, ROOF SLAB AND MANHOLE/GULLY PIT TO BE CONCRETE GRADE NS5 BASE SLABS TO BE CONSTRUCTED IN NATURAL MATERIAL, OF SAFE BEARING CAPACITY OF 800 kPa.

9. CONCRETE BACKFILL/REINFORCEMENT AROUND INLET AND OUTLET PIPES TO BE CONCRETE GRADE NS3.

10. COVER TO REINFORCEMENT FOR INSTU CONCRETE TO BE 10 mm.

11. PRECAST MANHOLE CHAMBERS TO BE CONSTRUCTED FROM CLASS 2 CONTINUOUS CIRCULAR REINFORCED CONCRETE PIPES DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH AS 4133.

12. PRECAST MANHOLE CHAMBERS TO BE MANUFACTURED USING CONCRETE GRADE NS3 WITH MINIMUM COVER TO REINFORCEMENT OF 15 mm.

13. MANHOLE CHAMBER JOINTS TO BE INTERNAL FLUSH JOINTS, MORTARED SMOOTH WITH EPOXY MORTAR, PREPARED AND APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

14. LENGTH AND LOCATION OF PRECAST UNITS TO SUIT INVERT LEVELS OF GULLY PIT GRATES AND PIPES.

15. FOR DETAILS OF GULLY PIT'S REFER TO R0220-30.

16. BACKFILLING AROUND SIDES OF MANHOLE CHAMBERS TO BE PERFORMED IN ACCORDANCE WITH ESTABLISHED SITE CONTRACT PROCEDURES AND SPECIFICATIONS AS DEFINED BY THESE SPECIFICATIONS. BACKFILL SHALL BE A SELECTED BACKFILL AND THE BACKFILL PROCEDURE SHALL CONFORM TO THE SPECIFICATION FOR "BACKFILLING AND COMPACTION AGAINST THE SIDES OF COLLECTORS AND WINDHANLES." WATER LAYERS ARE ADDED AND COMPACTED SIMULTANEOUSLY AROUND THE CIRCUMFERENCE OF THE STRUCTURE TO AVOID DIFFERENTIAL LOADING.

17. ALL METAL INSERTS, FITTINGS, GRATES, HANDRAILS, LADDERS, BOLTS ETC. AND STRUCTURES TO BE SUPPLIED NOT GALVANISED UNLESS NOTED OTHERWISE. ALL MASONRY ANCHORS AND BOLTS NOTED AS "ST" TO BE STAINLESS STEEL GRADE 316 OR SIMILAR.

18. GRATING PATTERN AND BAR SIZES MAY VARY BUT SHALL BE CLASS 3 AND BYCYCLE SAFE IN ACCORDANCE WITH AS 964 AND OTHERWISE STATED.

19. DEPTH NOT GREATER THAN 90 cm INLET AND OUTLET PIPES TO BE GALVANISED OR LEAD COATED IRON 300 WIDE FIXED INTO REINFORCED CONCRETE CHAMBER.

20. ALL METAL INSERTS, FITTINGS, GRATES, HANDRAILS, LADDERS, BOLTS ETC. AND STRUCTURES TO BE SUPPLIED NOT GALVANISED UNLESS NOTED OTHERWISE. ALL MASONRY ANCHORS AND BOLTS NOTED AS "ST" TO BE STAINLESS STEEL GRADE 316 OR SIMILAR.

21. PLASTER INTERIOR OF OUTLET INCLUDING EXPOSED PIPE REINFORCEMENT.

22. USE RESIN MORTAR OR MAGNESIUM PHOSPHATE CEMENT MORTAR.

23. FILL REMAINING GAP WITH AN EPOXY MORTAR, POLYESTER RESIN MORTAR OR MAGNESIUM PHOSPHATE CEMENT MORTAR.

24. CUT INLET AND OUTLET PIPES TO BE SHAPED AROUND MANHOLE WITH REINFORCEMENT LEFT EXPOSED AND CUT TO LAP INTO CHAMBER REINFORCEMENT.

25. APPROPRIATE HOLES TO BE CUT INTO MANHOLE CHAMBER SECTIONS (MINIMUM 300 mm TO TOP OR BOTTOM OF UNIT).

26. CUT EXPOSED CHAMBER REINFORCEMENT AT INLET TO LAP WITH INLET PIPES REINFORCEMENT AND CONNECT REINFORCEMENT BY WELDING.

27. FILL REMAINING GAP WITH AN EPOXY RESIN MORTAR, POLYESTER RESIN MORTAR OR MAGNESIUM PHOSPHATE CEMENT MORTAR.

28. AT OUTLET, TURN EXPOSED CHAMBER REINFORCEMENT OUT AND INCLUDE IN THE CONCRETE SURROUND. DO NOT ENCLOSE THE RUBBER RING JOINT IN THE CONCRETE SURROUND.

29. PLATED INTERIOR OF OUTLET INCLUDING EXPOSED PIPE REINFORCEMENT.

30. STANDARD STEP IRONS TO BE GALVANISED OR LEAD COATED IRON 300 WIDE FIXED INTO REINFORCED CONCRETE CHAMBER.

31. CONCRETE BASE SLAB, ROOF SLAB AND MANHOLE/GULLY PIT TO BE CONCRETE GRADE NS5 BASE SLABS TO BE CONSTRUCTED IN NATURAL MATERIAL, OF SAFE BEARING CAPACITY OF 800 kPa.

32. CONCRETE BACKFILL/REINFORCEMENT AROUND INLET AND OUTLET PIPES TO BE CONCRETE GRADE NS3.

33. COVER TO REINFORCEMENT FOR INSTU CONCRETE TO BE 10 mm.

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37. LENGTH AND LOCATION OF PRECAST UNITS TO SUIT INVERT LEVELS OF GULLY PIT GRATES AND PIPES.

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41. PLASTER INTERIOR OF OUTLET INCLUDING EXPOSED PIPE REINFORCEMENT.

42. USE RESIN MORTAR OR MAGNESIUM PHOSPHATE CEMENT MORTAR.

43. FILL REMAINING GAP WITH AN EPOXY MORTAR, POLYESTER RESIN MORTAR OR MAGNESIUM PHOSPHATE CEMENT MORTAR.

44. CUT INLET AND OUTLET PIPES TO BE SHAPED AROUND MANHOLE WITH REINFORCEMENT LEFT EXPOSED AND CUT TO LAP INTO CHAMBER REINFORCEMENT.

45. APPROPRIATE HOLES TO BE CUT INTO MANHOLE CHAMBER SECTIONS (MINIMUM 300 mm TO TOP OR BOTTOM OF UNIT).

46. CUT EXPOSED CHAMBER REINFORCEMENT AT INLET TO LAP WITH INLET PIPES REINFORCEMENT AND CONNECT REINFORCEMENT BY WELDING.

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48. AT OUTLET, TURN EXPOSED CHAMBER REINFORCEMENT OUT AND INCLUDE IN THE CONCRETE SURROUND. DO NOT ENCLOSE THE RUBBER RING JOINT IN THE CONCRETE SURROUND.

49. PLATED INTERIOR OF OUTLET INCLUDING EXPOSED PIPE REINFORCEMENT.

50. STANDARD STEP IRONS TO BE GALVANISED OR LEAD COATED IRON 300 WIDE FIXED INTO REINFORCED CONCRETE CHAMBER.

51. CONCRETE BASE SLAB, ROOF SLAB AND MANHOLE/GULLY PIT TO BE CONCRETE GRADE NS5 BASE SLABS TO BE CONSTRUCTED IN NATURAL MATERIAL, OF SAFE BEARING CAPACITY OF 800 kPa.

52. CONCRETE BACKFILL/REINFORCEMENT AROUND INLET AND OUTLET PIPES TO BE CONCRETE GRADE NS3.

53. COVER TO REINFORCEMENT FOR INSTU CONCRETE TO BE 10 mm.

54. PRECAST MANHOLE CHAMBERS TO BE CONSTRUCTED FROM CLASS 2 CONTINUOUS CIRCULAR REINFORCED CONCRETE PIPES DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH AS 4133.

55. PRECAST MANHOLE CHAMBERS TO BE MANUFACTURED USING CONCRETE GRADE NS3 WITH MINIMUM COVER TO REINFORCEMENT OF 15 mm.

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58. FOR DETAILS OF GULLY PIT'S REFER TO R0220-30.