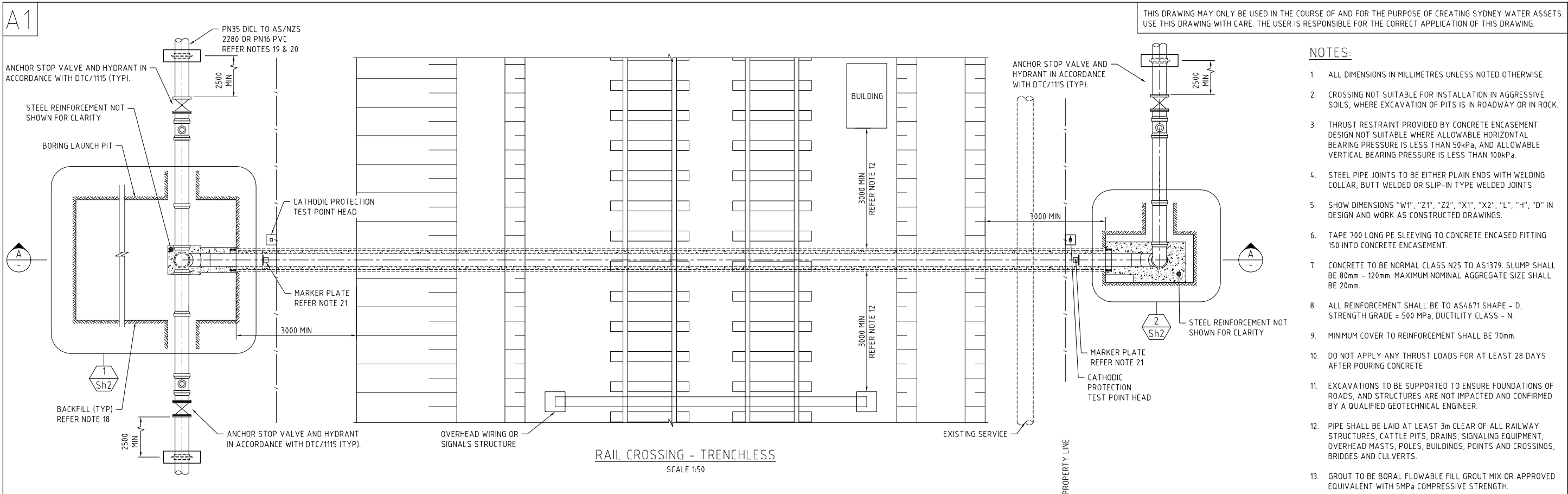


A1



NOTES:

- ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
- CROSSING NOT SUITABLE FOR INSTALLATION IN AGGRESSIVE SOILS, WHERE EXCAVATION OF PITS IS IN ROADWAY OR IN ROCK.
- THRUST RESTRAINT PROVIDED BY CONCRETE ENCASEMENT. DESIGN NOT SUITABLE WHERE ALLOWABLE HORIZONTAL BEARING PRESSURE IS LESS THAN 50kPa, AND ALLOWABLE VERTICAL BEARING PRESSURE IS LESS THAN 100kPa.
- STEEL PIPE JOINTS TO BE EITHER PLAIN ENDS WITH WELDING COLLAR, BUTT WELDED OR SLIP-IN TYPE WELDED JOINTS
- SHOW DIMENSIONS "W1", "Z1", "Z2", "X1", "X2", "L", "H", "D" IN DESIGN AND WORK AS CONSTRUCTED DRAWINGS.
- TAPE 700 LONG PE SLEEVING TO CONCRETE ENCASED FITTING 150 INTO CONCRETE ENCASEMENT.
- CONCRETE TO BE NORMAL CLASS N25 TO AS1379. SLUMP SHALL BE 80mm - 120mm. MAXIMUM NOMINAL AGGREGATE SIZE SHALL BE 20mm.
- ALL REINFORCEMENT SHALL BE TO AS4671 SHAPE - D, STRENGTH GRADE = 500 MPa, DUCTILITY CLASS - N.
- MINIMUM COVER TO REINFORCEMENT SHALL BE 70mm.
- DO NOT APPLY ANY THRUST LOADS FOR AT LEAST 28 DAYS AFTER POURING CONCRETE.
- EXCAVATIONS TO BE SUPPORTED TO ENSURE FOUNDATIONS OF ROADS, AND STRUCTURES ARE NOT IMPACTED AND CONFIRMED BY A QUALIFIED GEOTECHNICAL ENGINEER.
- PIPE SHALL BE LAID AT LEAST 3m CLEAR OF ALL RAILWAY STRUCTURES, CATTLE PITS, DRAINS, SIGNALING EQUIPMENT, OVERHEAD MASTS, POLES, BUILDINGS, POINTS AND CROSSINGS, BRIDGES AND CULVERTS.
- GROUT TO BE BORAL FLOWABLE FILL GROUT MIX OR APPROVED EQUIVALENT WITH 5MPa COMPRESSIVE STRENGTH.
- FOR DETAILS OF CATHODIC TEST POINTS REFER DTC/1137.
- HORIZONTAL CLEARANCE TO EXISTING SERVICES TO BE MINIMUM 600mm IN ACCORDANCE WITH AS4799.
- APPROVAL FROM RELEVANT RAIL AUTHORITY REQUIRED PRIOR TO CONSTRUCTION COMMENCEMENT.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH DTC/1136 & DTC/1137.
- EXCAVATED OR IMPORTED BACKFILL MATERIAL SHALL HAVE A PARTICLE SIZE NOT GREATER THAN 75mm. FILL SHALL BE FREE FROM ORGANICS OR OTHER DELETERIOUS MATERIALS. THE BACKFILL MATERIAL SHALL BE PLACED IN 200mm LAYERS AND COMPACTED TO 60% OF STANDARD MAXIMUM DRY DENSITY (AS1289.5.6.1). TESTS ARE TO BE TAKEN AT EACH 800mm OF BACKFILL IN EACH EXCAVATION PIT.
- ALL DICL PIPES \leq DN300 TO HAVE SEAL COATING FOR CEMENT MORTAR LINING. ALL DICL FITTINGS SHALL BE THERMAL BONDED POLYMERIC COATED IN ACCORDANCE WITH AS 4158.
- PVC PIPE TO BE PN16 SERIES 2 PVC-M TO AS/NZS 4765, PVC-U TO AS/NZS 1477 OR PVC-O TO AS/NZS 4441 (MATERIAL CLASS \geq 450).
- MARKER PLATE TO BE LOCATED WITHIN 200mm OF RAILWAY FENCE. BOTTOM OF MARKER PLATE TO BE 800mm ABOVE GROUND LEVEL. MARKER PLATE TO BE READ FROM INSIDE RAIL PROPERTY. POST TO BE 50x50 ALUMINIUM (4mm THICK) PLACED 300mm INTO CONCRETE FOOTING (300mm x 300mm x 400mm DEEP) THE MARKER PLATE SHALL INCLUDE THE WORDS "SYDNEY WATER BURIED WATERMAIN IN EMERGENCY RING 132090." IN 25mm HIGH LETTERS TO AS1319.
- DESIGNED FOR MAXIMUM:
 - 120m HEAD OPERATING PRESSURE
 - 150m HEAD TEST PRESSURE

