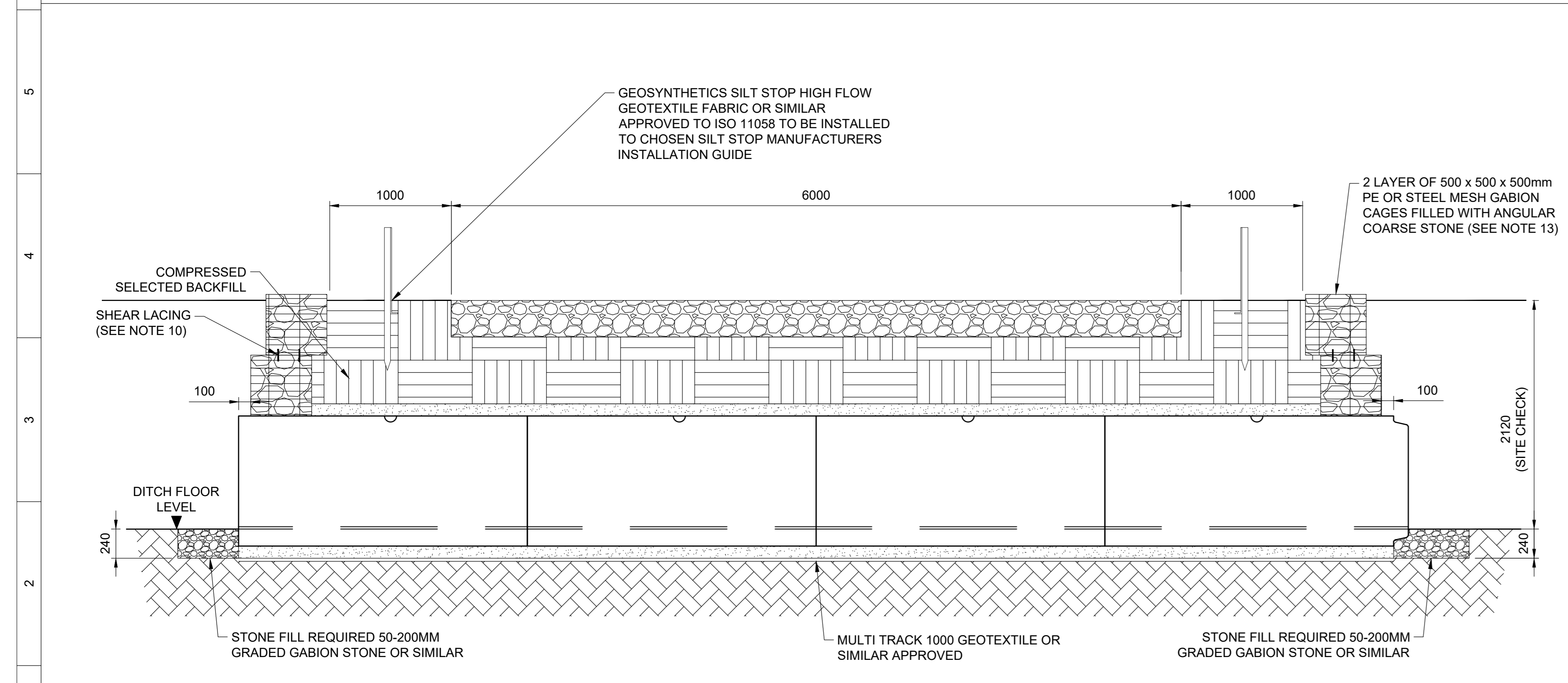
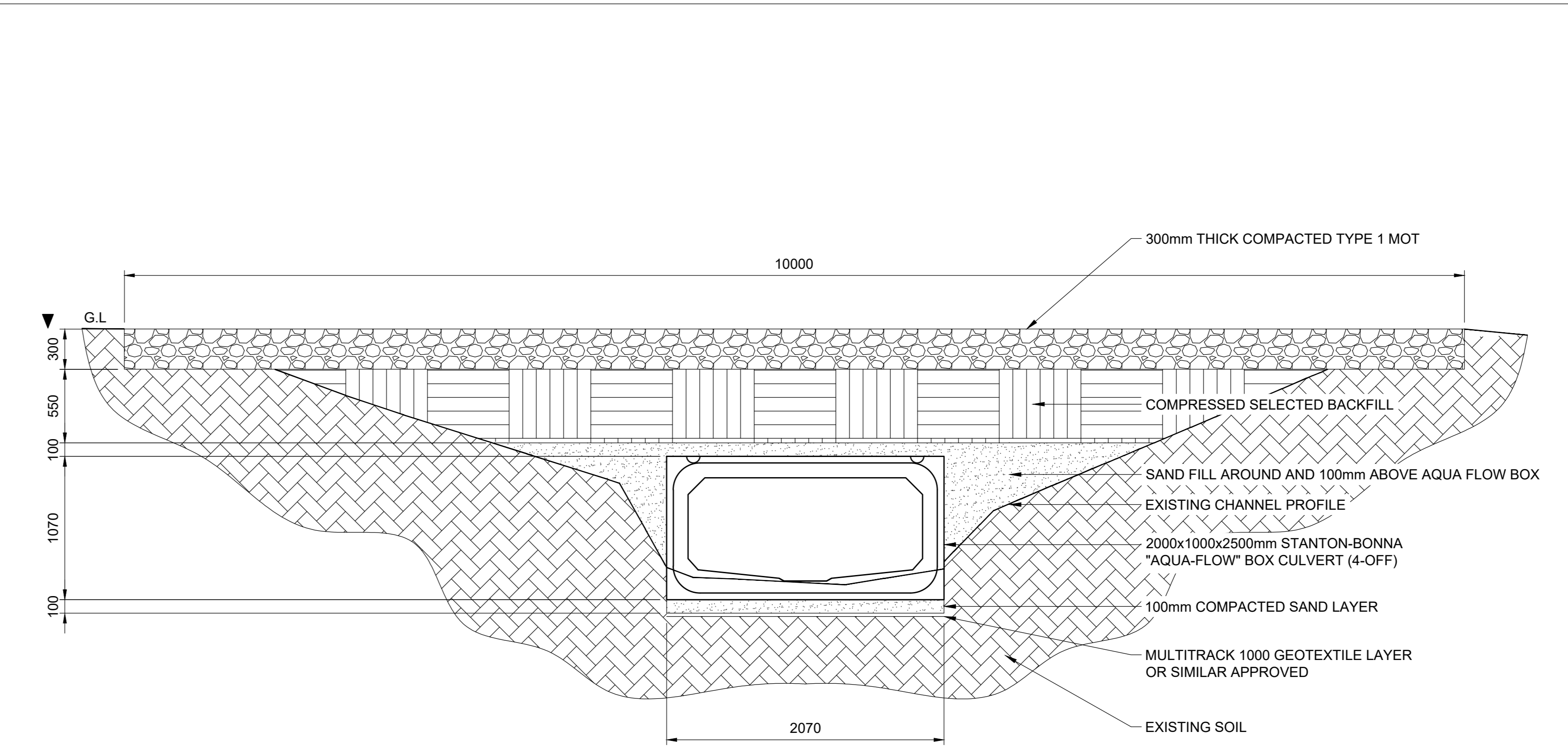


**PLAN VIEW**  
(SCALE 1:33.3)



**SECTION A-A**  
(SCALE 1:25)



**SECTION B-B**  
(SCALE 1:25)

- NOTES:**
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
  - ALL WORKMANSHIP AND QUALITY CONTROL TO BE IN ACCORDANCE WITH CADENT SPECIFICATIONS GD/SPICE/1, AND GD/SPICE/2.
  - ALL MADE GROUND SHALL BE EXCAVATED, REMOVED AND REPLACED WITH GRANULAR FILL TO SUITABLE FORMATION LEVEL. BACKFILL MATERIAL UNDERNEATH SLAB TO BE TYPE 1 GRANULAR MATERIAL IN ACCORDANCE WITH CADENT SPEC GD/SPICE/1.
  - SOFT OR UNSUITABLE GROUND BELOW FORMATION LEVEL SHALL BE EXCAVATED AND FILLED WITH GRANULAR FILL, PLACED AND COMPACTED IN LAYERS OF 225mm MAXIMUM THICKNESS.  
  
SOFT AND UNSUITABLE MATERIAL INCLUDES ORGANIC MATERIAL (FIBROUS, SPONGY OR SOFT DARK MATERIAL), SOFT CLAYS (COHESIVE MATERIAL THAT CAN BE MOULDED BY LIGHT FINGER PRESSURE)  
  
GRANULAR FILL TO BE COMPACTED TO ACHIEVE A MINIMUM 4% CBR VALUE. GRANULAR FILL TO BE PLACED ON A SINGLE LAYER OF TERRAM OR SIMILAR TO AVOID MIGRATION OF THE GRANULAR MATERIAL INTO THE COHESIVE SUB FORMATION ANY LARGE VOIDS TO BE REPORTED TO THE SITE ENGINEER FOR INVESTIGATION.
  - ALL AGGREGATES IN ACCORDANCE WITH BS EN 12620:2002+A1:2008, WITH MAXIMUM AGGREGATE SIZE OF 20mm.
  - FORMWORK TO BE CARRIED OUT IN ACCORDANCE WITH BS5975 CODE OF PRACTICE FOR FALSEWORK.
  - ALL FILL SHALL BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING 225mm THICK.
  - ALL WORKS TO CONFORM TO GD/PM/SSW/2 AND HSG 47 REQUIREMENTS, AND CLIENT SAFETY STANDARDS AND ELECTRIC OVERHEAD CABLES ARE TO BE PROTECTED FROM ANY POSSIBLE CONTACT FROM CONSTRUCTION PLANT IN ACCORDANCE WITH THE ELECTRIC CODES (GS 6).
  - MINIMUM GROUND BEARING PRESSURE OF 100kN/m<sup>2</sup> TO BE ACHIEVED AT FORMATION LEVEL PRIOR TO PLACING OF CULVERT SECTIONS.
  - ALL GABION PANEL INTERSECTIONS ARE TO BE LACED WITH WIRE MATCHING THE GABION MESH.
  - INTERNAL BRACING WIRES ARE TO BE PROVIDED TO EXPOSED FACES. WIRE TO MATCH GABION MESH. WIRE TO BE PROVIDED AT 1/3 AND 2/3 GABION HEIGHT FOR 1.0M HIGH GABIONS AND 1/2 HEIGHT FOR 0.5M HIGH GABIONS.
  - GABION INFILL STONE SHALL BE HARD AND DURABLE AND 150mm NOMINAL SIZE BUT NOT LESS THAN 100mm AND NOT GREATER THAN 200mm.
  - GABION INFILL STONE SHALL BE ANGULAR AND PLACED FLAT TO MINIMISE VOIDS AND PROVIDE A DENSE STABLE MASS. GABION STONE SHALL BE HAND PICKED AFTER PLACING BY MACHINE. STONES TO THE FRONT SHALL BE SELECTED AND HAND PLACED TO PROVIDE A NEAT FINISH.

**CONCRETE SPECIFICATION:**

STRUCTURAL CONCRETE SHALL BE EITHER:

C28/35 WITH 5% AIR ENTRAINED, DESIGN SULPHATE CLASS DS-4 AND SITE ACEC CLASSIFICATION AC-4S, WITH MAXIMUM W/C RATIO 0.45, MINIMUM 360kg/m<sup>3</sup> AND FREEZE/THAW RESISTANT AGGREGATES WITH MAX SIZE 20mm. PERMISSIBLE CEMENT COMBINATIONS: IIIb + SR

OR

C40/50 WITH DESIGN SULPHATE CLASS DS-4 AND SITE ACEC CLASSIFICATION AC-4S, WITH MAXIMUM W/C RATIO 0.35, MINIMUM 380kg/m<sup>3</sup> AND FREEZE/THAW RESISTANT AGGREGATES WITH MAX SIZE 20mm. PERMISSIBLE CEMENT COMBINATIONS: IIIa+SR AND IIIb+SR

BLINDING CONCRETE TO COMPLY WITH CIVIL DESIGN REPORT APPENDIX C.

6	ISSUED FOR CONSTRUCTION	DR	AR	MA	27/04/21
5	APPRAISAL COMMENTS ADDED	DR	AR	MA	22/04/21
4	APPROVERS COMMENTS ADDED	DR	AR	MA	16/04/21
3	ISSUED FOR G17	DR	AR	MA	01/04/21
REV	DESCRIPTION	DRN	CHK	APP	DATE

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**Cadent**  
Your Gas Network

PROJECT  
**ULVERSTON PIPELINE DIVERSION**

TITLE  
**TEMPORARY FLUMED CROSSING DETAILS DX3**

ISSUE  
**FOR CONSTRUCTION**

SCALE	SIZE	ORIGINATOR	DATE CREATED
AS SHOWN	A0	DR	18/01/21

EXTERNAL DRAWING NO.	INTERNAL DRAWING NO.	REVISION
	1359-ULVE-CI-C-002	6