

Precast Pipeline Crossing

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Pipeline bridge crossings are installed to provide protection for existing oil, gas and utility pipelines at intersections with roads and vehicle access points. Every crossing is unique with a different set of factors such as soil conditions and traffic loading and intensity.

The illustration on this information sheet shows a pipeline crossing specific to the pipe shown in the diagram. Typically beams are cast off-site and placed at the crossing location on concrete abutments. In this example the abutments are mass concrete poured in sections and connected with dowel bars. Four lifting points were provided in each precast beam. Halfen stainless steel sockets were used with Halfen lifting loops. Stainless steel bolts are threaded into sockets when lifting loops are not in use.

The grade of concrete used in the beam units is a RC32/40 and the units were placed on bearing strips on the concrete abutments. The concrete is sampled at time of casting and cube testing certificates can be provided if required.



KM 35653
KM 575102
KM 88041
KM 68270



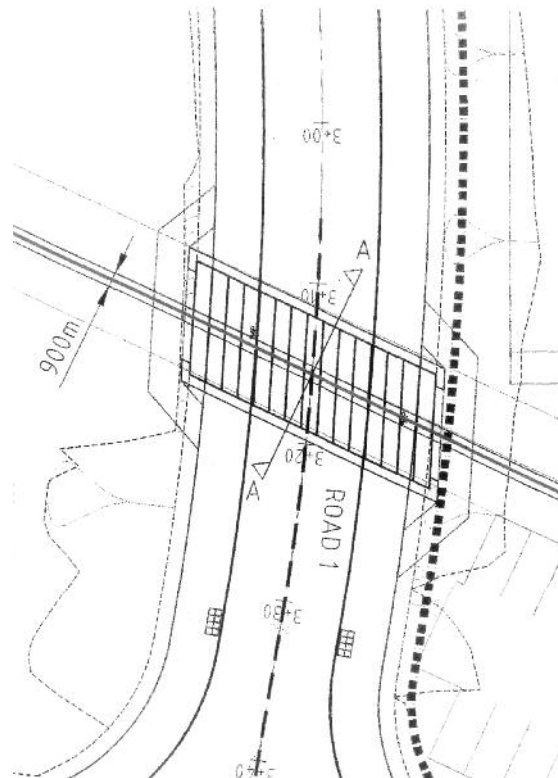
BS EN ISO 9001
BS EN ISO 14001
BS OHSAS 18001

IMR 78163

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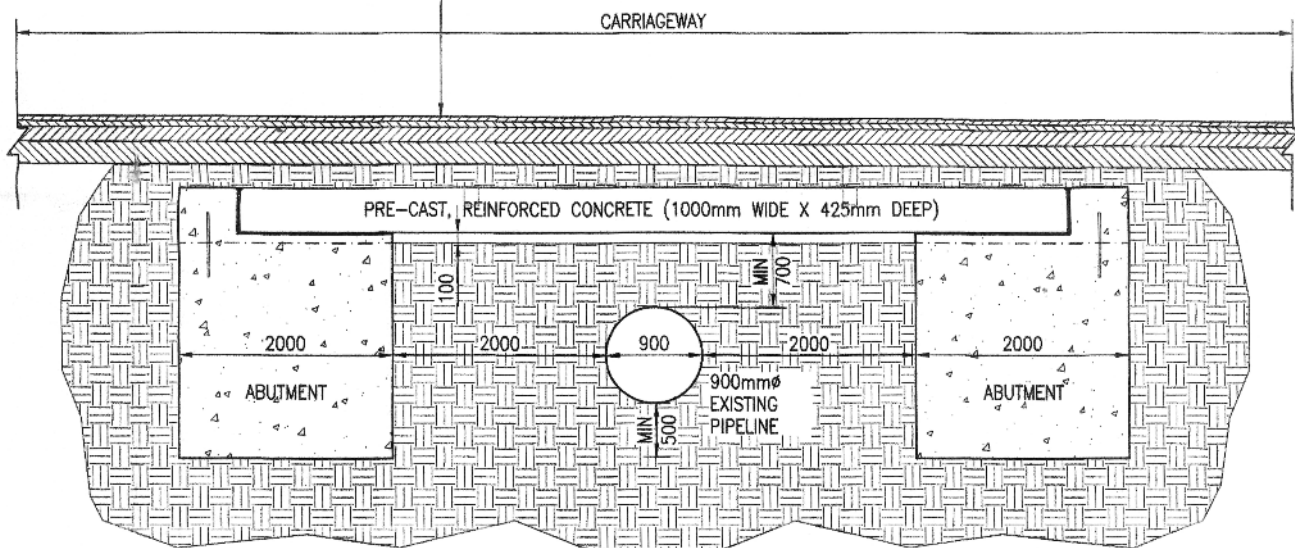
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STANDARD ROAD CONSTRUCTION

- 45mm HOT ROLLED ASPHALT SURFACE COURSE TO S.H.W CLAUSE 910 OR 911.
- 55mm CLOSE GRADED MACADAM BINDER COURSE TO S.H.W CLAUSE 912 GROUP 3 CLAUSE 7.3.
- 140mm DENSE MACADAM BASE TO S.H.W CLAUSE 903.
- 210mm GRANULAR TYPE 1 SUB BASE TO S.H.W CLAUSE 803.



**SECTION ACROSS PROPOSED "BRIDGE"
CROSSING EXISTING PIPELINE (SECTION A-A)**

SCALE 1:50



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