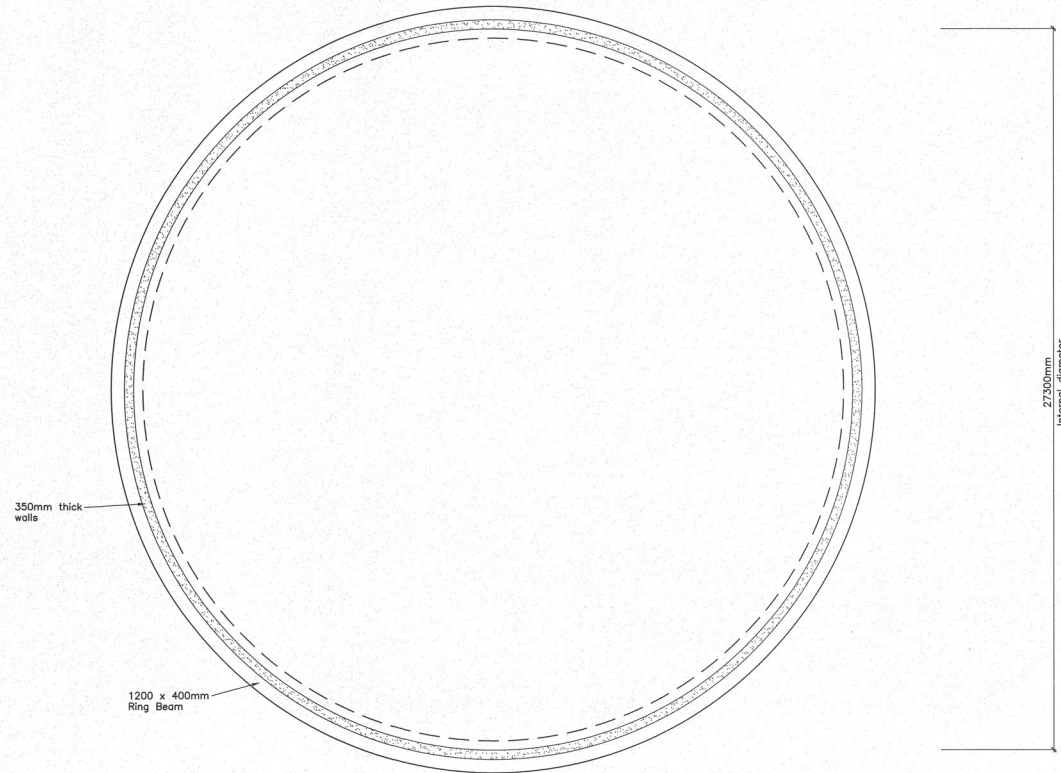




PLAN – WATER TANK LAYOUT

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**PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL**

Approval no: DEV2019/1026

Date: 17/08/2021



Issue	Date	App'd	DESCRIPTION
P1	14.7.21	<i>[Signature]</i>	Preliminary Issue, Initial Review only



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SCALE 1:100
DATE 14.7.21
DRAWN A.Salliba
DESIGNED P.Andresen
APPROVED *[Signature]*

**Client: PANTHERS CONCRETE TANKS
Proposed Water Tank at
Southwest Pipeline, Wyaralong Qld.**

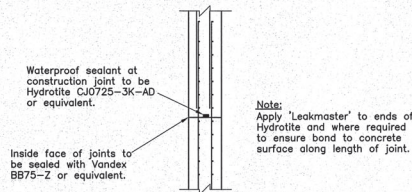
27.3m DIAMETER TANK

DRAWING NUMBER
107791-1
ISSUE
P1

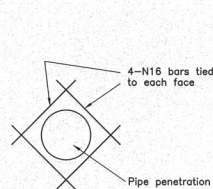


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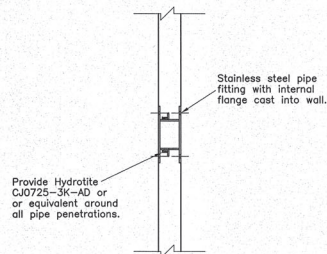
ISSUE
P1



DETAIL - WALL JOINT.



DETAIL - TYPICAL PENETRATION



DETAIL - TYPICAL WALL PENETRATION

GENERAL

1. The tank has been designed in accordance with the requirements of "Concrete Structures for Retaining Liquids, AS3735" and "Concrete Structures, AS3600".
2. These drawings shall be read in conjunction with all other drawings and project technical specifications and with such other written instructions as may be issued during the course of the contract. Any discrepancy shall be referred to the Designer before proceeding with the work.
3. All materials and workmanship shall be in accordance with the relevant and current Australian Codes and with the requirements of relevant building authorities except where varied by these drawings and the specification.
4. All setout dimensions shown shall be confirmed on site by the Contractor before work commences. Drawings shall not be scaled for dimensions.
5. During construction the structure shall be maintained in a stable condition and no part shall be overstressed.
6. Proprietary items specified do not indicate a preference, alternates having similar properties and performance may be substituted following approval.

SITE PREPARATION AND FOUNDATIONS

1. Base of tank to be excavated to bearing on firm uniform natural ground with a minimum safe bearing capacity of at least 300kPa.
2. Provide a 100mm minimum thick layer of CBR15 crushed rock below tank floor slab.

FORMWORK

1. The contractor shall be responsible for the design and performance of all formwork and falsework.

FORMWORK STRIPPING

1. Formwork used in first (base) wall section is to remain in place with additional metal formwork positioned for second wall pour.

After completion of second wall section, formwork used in construction of first section is to be removed and repositioned for third and final wall section.

Metal formwork used in construction of second and third wall sections are to be removed 12 hours minimum after completion for third and final wall section.

WATERSTOPS

1. All construction joints in walls to be sealed in accordance with the construction details. Hydrotite CJ0725-3K-AD or equivalent to be positioned at all construction joints. Following completion of tank all construction joints to be sealed with Vandex BB75-Z or equivalent.

CONCRETE

1. Specification and supply of concrete shall be in accordance with AS1379:2007.
2. Concrete shall be from an approved source and shall comply with the requirements of the project specifications and details specified.
3. Concrete shall be supplied on a performance basis to the concrete grade specified.
4. **CONCRETE MIX GRADE S40:**
Minimum cement content (kg/m³) 400
Maximum aggregate size (mm) 20
Water/cement ratio 0.45
Low Shrinkage Concrete to be used throughout.
Basic shrinkage strain – 500um at 56 days measured and tested in accordance with AS1012.13.
5. Concrete cover to reinforcement shall be as shown on design drawings for this project. Maintain cover to all reinforcement with support on bar chairs spaced at 600mm maximum centres bothways.

REINFORCEMENT

1. Reinforcement is presented diagrammatically and not necessarily in true projection.
2. Reinforcement symbols:
N Denotes Grade 500N deformed bars in accordance with AS/NZ4671,
SL Denotes Grade 500L deformed welded wire mesh to AS/NZ4671.
3. Fabric/welded wire mesh to be lapped 2 transverse wires plus 25mm.
4. Reinforcing bars or mesh must not be pulled into position through wet concrete.
5. Welding of reinforcement is not permitted unless shown on drawings or approved by the Designer. Welding of reinforcement where shown or approved to comply with Table F4, Appendix F of AS/NZ1554.3. The minimum effective length of each weld to comply with the following Table
6. Splices in reinforcement to be made only in the positions shown. The Designers approval to be obtained for any other splice locations.
7. Laps in reinforcing bars to be as specified below. Laps to be staggered where deemed possible.
BAR N12 N16 N20 N24
500 650 800 1000
8. Rebending of reinforcement by mechanical or any other means is not permitted without approval of Designer.
9. Mechanical splices shall only be used where approved by the Designer.
10. Where earthing via reinforcement cages is used, testing of the earthing installation is to be carried out prior to concrete placement.

Note:
Laps in wall fabric reinforcement to be staggered by Builder to ensure correct cover is maintained to N24 starter bars and horizontal bars.
Builder to ensure concrete mix design and vibration allows for adequate compaction at base of wall section pours.

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SCALE	1:20
DATE	14.7.21
DRAWN	A.Saliba.
DESIGNED	P.Andresen.
APPROVED	

Client: PANTHERS CONCRETE TANKS
Proposed Water Tank at
Southwest Pipeline, Wyaralong Qld.
27.3m DIAMETER TANK

DRAWING NUMBER
107791-3
ISSUE
P1