

Elite SOIL TESTING PTY LTD

Po Box 644, Kallangur Qld 4503
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Email: admin@elitesoiltesting.com.au Website: www.elitesoiltesting.com.au

ABN: 97 113 538 748

ACN: 113 538 748

148 Algester Road **148 Algester Road, Calamvale.**



Report Date: 19 April 2023
Job Number: J22104
Contractor: JK Williams Contracting (Qld)
Superintendent: Sunvale
Principal Client: HB Qld Pty Ltd

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APPENDIX A Site Progress Photos

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Job Number: J22104
Wednesday, 19 April 2023

JK Williams Contracting (Qld)
PO BOX 5157
Algester Qld 4115

Attention: Mr. Don Ford

RE: 148 Algester Road.

SCOPE OF WORKS

Elite Soil Testing was commissioned by JK Williams Contracting (Qld) to provide Geotechnical Inspection and Testing on a “Level 1” basis in accordance with SECTION 8 of AS 3798-2007 “Guidelines on Earthworks for Commercial and Residential Developments”.

The primary objective of Level One Inspection and Testing is for the GITA to be able to express an opinion on the compliance of the work. The GITA is responsible for ensuring that inspections and testing are sufficient for this purpose and that personnel are on site while earthwork operations are undertaken. Such operations include the supervision of following:

- (a) Removal of topsoil.
- (b) Foundation approval.
- (c) Test/ proof rolling.
- (d) Placement of fill material.
- (e) Compaction and moisture conditioning of fill material.
- (f) Testing of insitu and fill materials.

This report is provided to show conformity with the “Level 1” specification in accordance with SECTION 8 of AS 3798-2007 “Guidelines on Earthworks for Commercial and Residential Developments” for the various stages of earthworks associated with this project.

THE PROJECT

The project encompasses the construction of 49 new residential allotments with its associated infrastructure including roadwork's, stormwater, and sewer drainage plus water reticulation. Earthworks operations were carried out over several periods between 1ST September 2022 through to 20th March 2023.

Some filling was required as part of the development and for this work the scope of the Level 1 inspection and testing was:

- (i) Carry out inspection of proposed fill areas to check adequacy of fill foundation.
- (ii) Provide supervision and compaction control testing of placed fill materials.

FILL FOUNDATION

The stripped surfaces of proposed fill areas were inspected, and proof rolled prior to placement and compaction of fill. Compliance of the fill foundation and approval to begin filling these areas was granted when inspections showed completion of removal of topsoil, organics and remediation of any uncontrolled fill material as well as soundness (minimum deflection) under test rolling. Lot 24 required extra remediation works to remove wet unsuitable insitu sandy clay material prior to filling this area.

CONTROLLED FILL

Onsite fill material was considered suitable for use as controlled fill. This fill material was moisture conditioned and placed in near-horizontal layers of uniform thickness across the fill area. Each fill layer was placed and compacted using the following plant: D6 dozer, excavators, 615 scrapers, 815 compactor, padfoot roller and water truck.

FIELD DENSITY LOCATIONS

Field density test locations were selected at random, and staggered across the fill areas. The test locations as described on the Field Density Report were not professionally surveyed and should only be considered as the approximate location.

TEST RESULTS

Test results on fill foundation and controlled fill placed under supervision indicate that the minimum specification requirement of greater than 95% Dry Density Ratio in accordance with AS1289 .5.3.1, 5.8.1, 5.1.1, 5.4.1 (standard compaction test) was achieved. Refer to Appendix B for Individual Lot Certificates.

CONCLUSION

We confirm that vegetation, topsoil, and any unsuitable materials were removed and that a sound base for the proposed filling was provided. We confirm that the results obtained from compaction control testing, together with observations made during supervised earthworks operations, indicate that the fill materials placed to design levels can be termed as "Controlled Fill".

This report is limited to within the dates of earthworks mentioned and areas shown. The limitations on Level 1 Certification unless otherwise stated in this report do not address or include; slope stability, soft, reactive or contaminated soils, backfill to trenches and/or retaining walls, excavated trenches/ pits and topsoil placed after controlled filling. Information provided in this report is based on that which has been provided by the client and third parties. Elite Soil Testing have relied upon this information and presumed its accuracy. If further assumptions are to be added Elite Soil Testing reserves the right to amend this report.

This report is produced for the clients and the relevant statutory authorities. It is not to be used or released in whole or in part for any manner by any other party.



Anthony Jeffrey
Managing Director

Appendix A

SITE PROGRESS PHOTOS





Appendix B

INDIVIDUAL LOT CERTIFICATES

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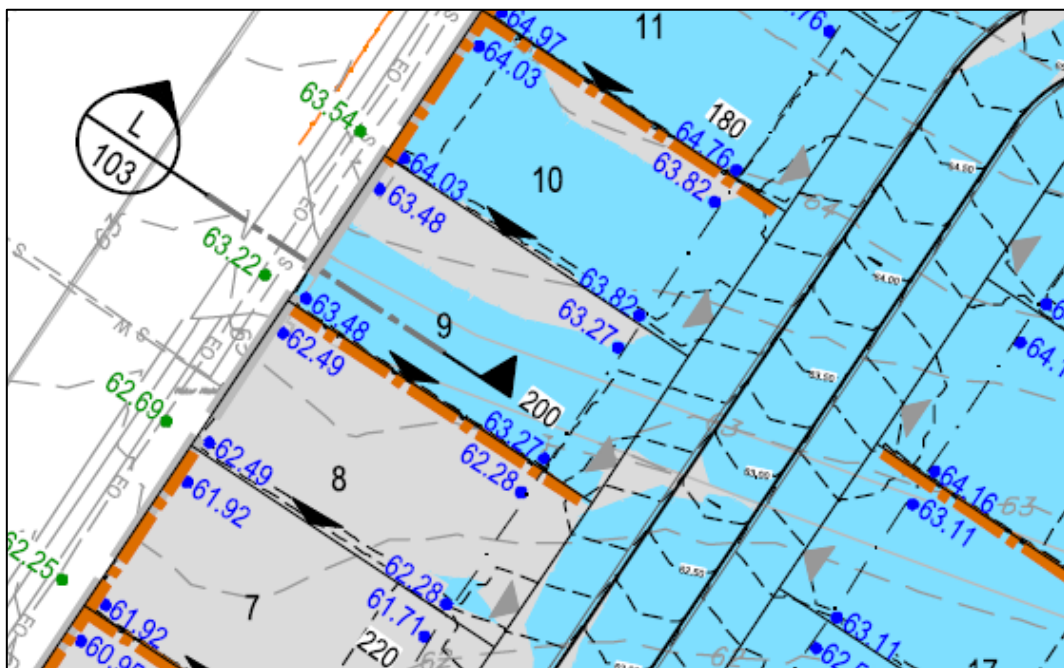
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**CERTIFICATE OF CONTROLLED FILLING
EARTHWORKS OPERATIONS
(AS3798-2007 SECTION 8 – Level 1)
148 Algester Road
148 Algester Road, Calamvale.
Lot 9**



 Approximate lateral extent and maximum depth of controlled filling to 0.3m.
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A geotechnical site investigation and foundation design for the specific ground conditions should be carried out on this lot prior to building, when house type and location is known.



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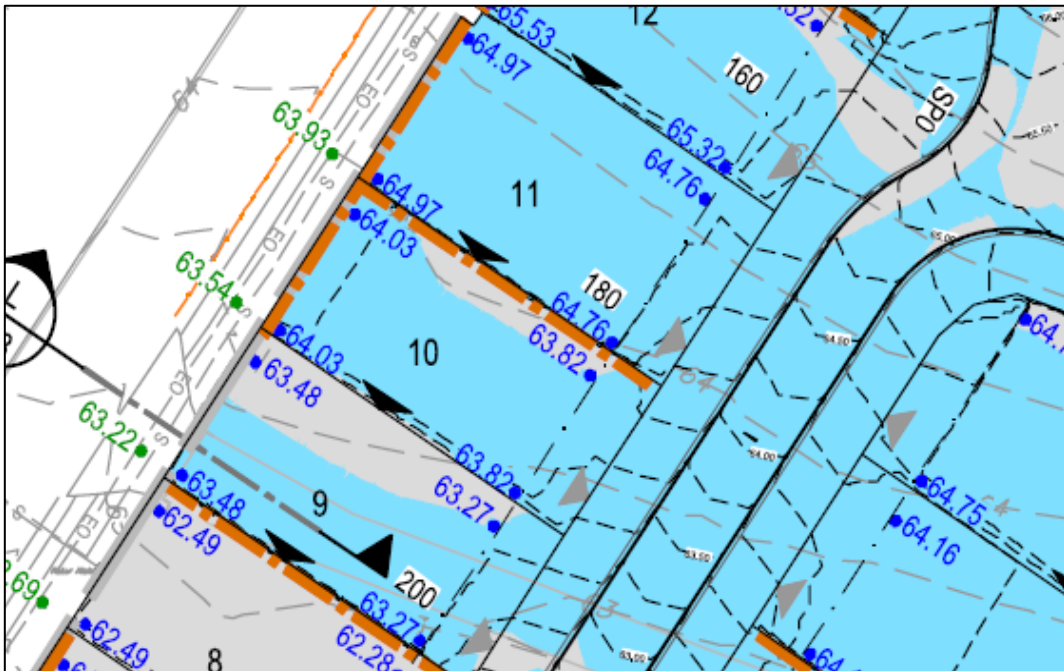
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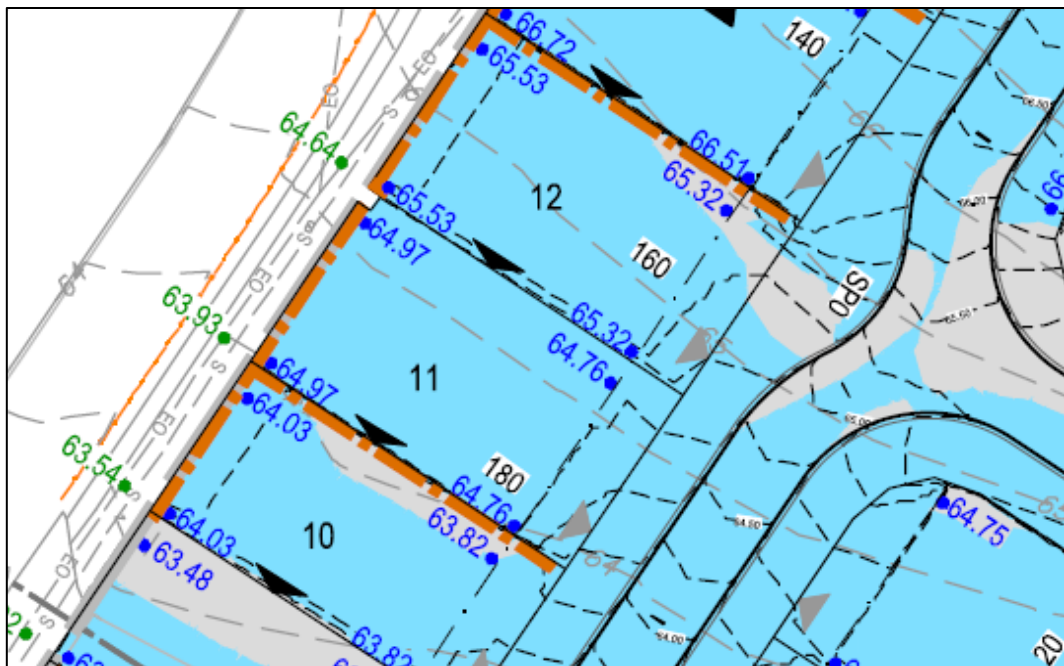
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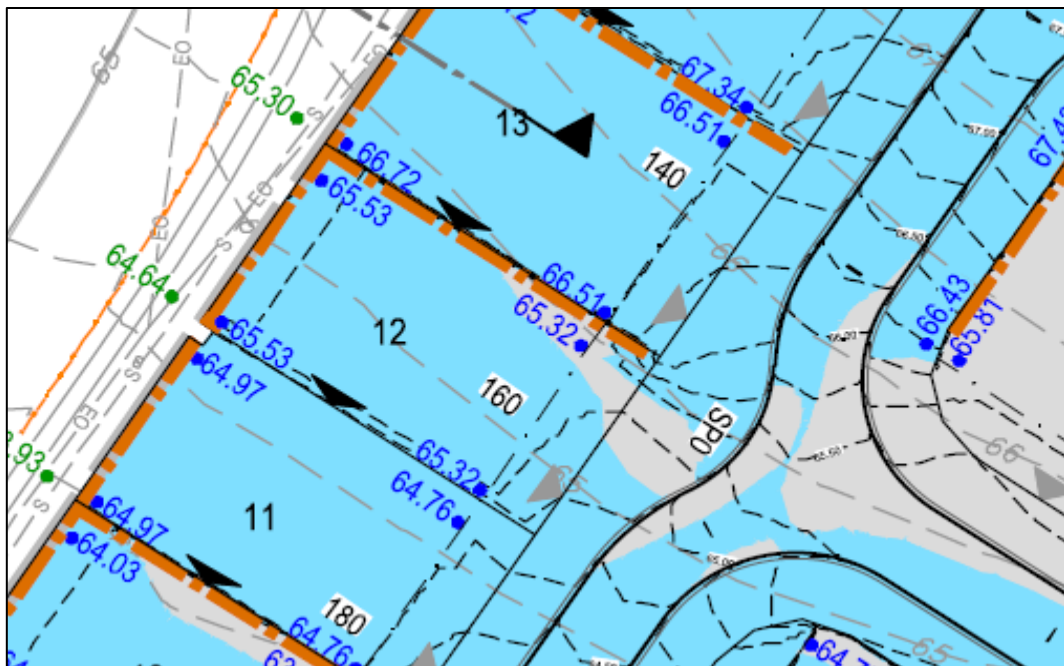
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Lot 12**



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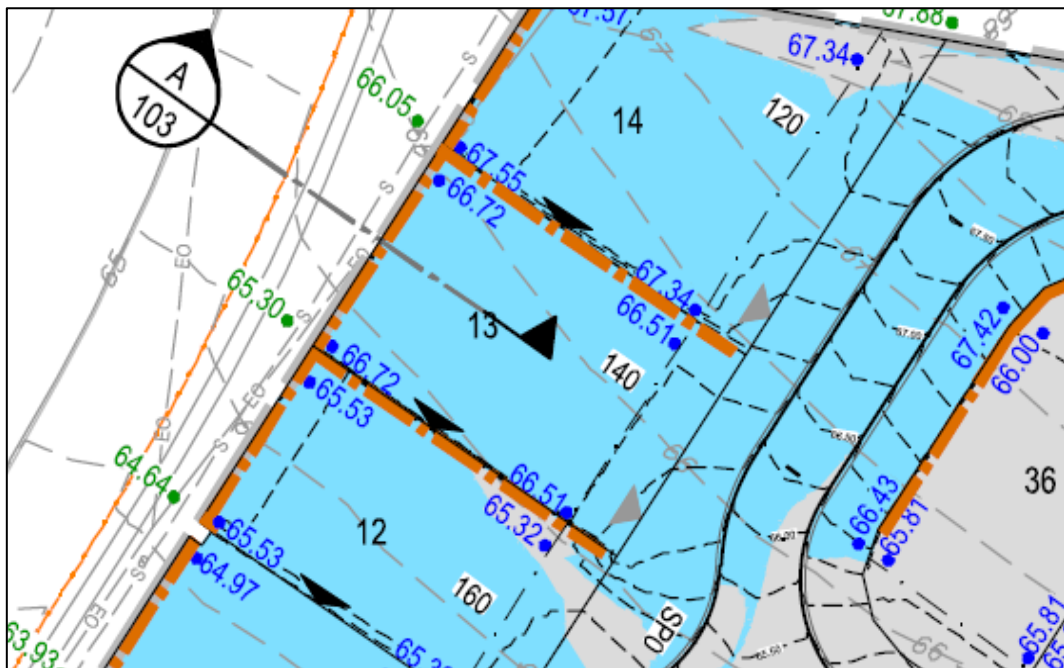
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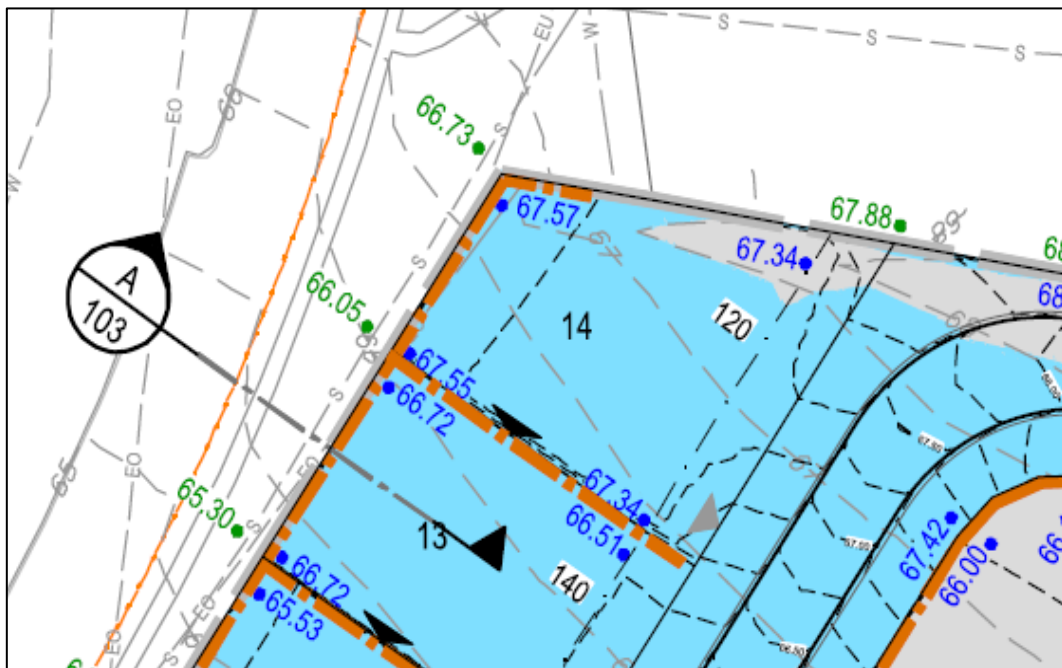
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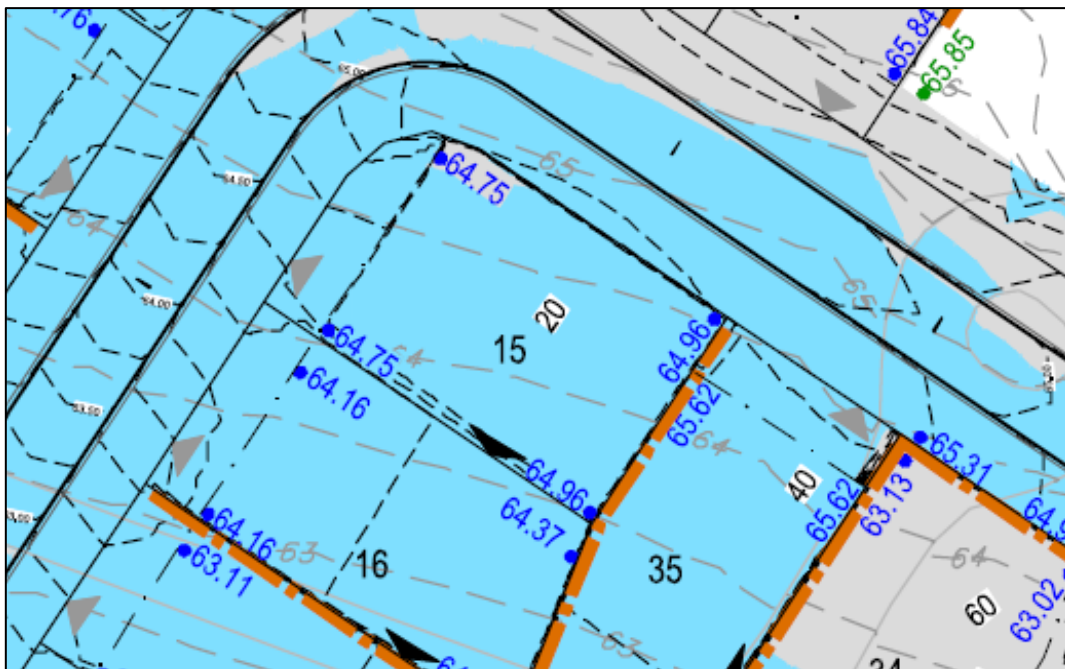
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Lot 15**



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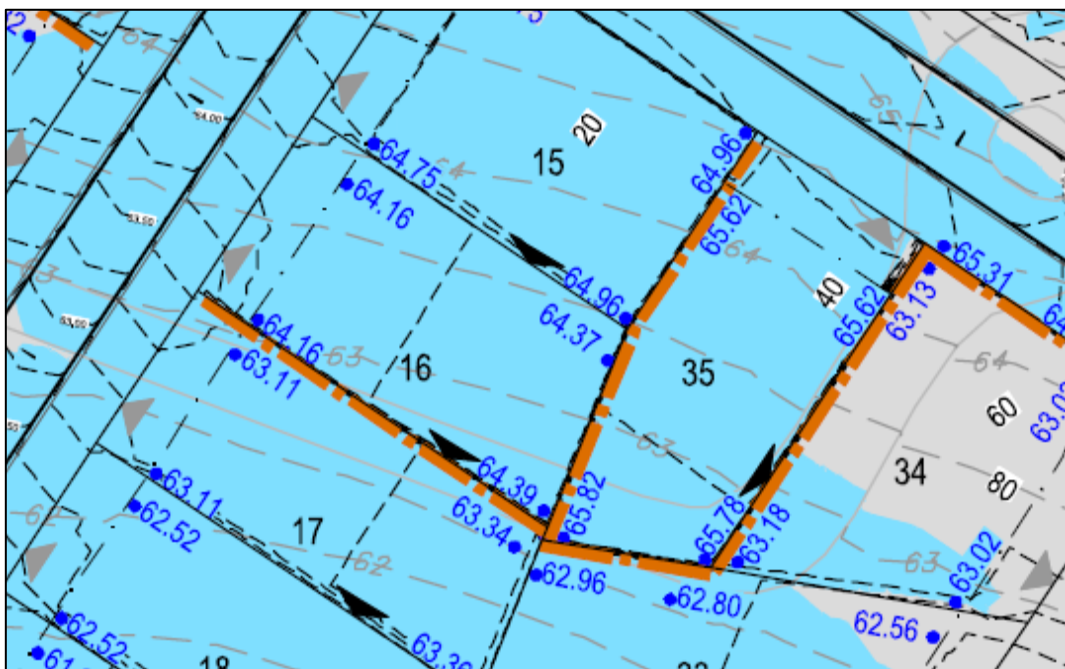
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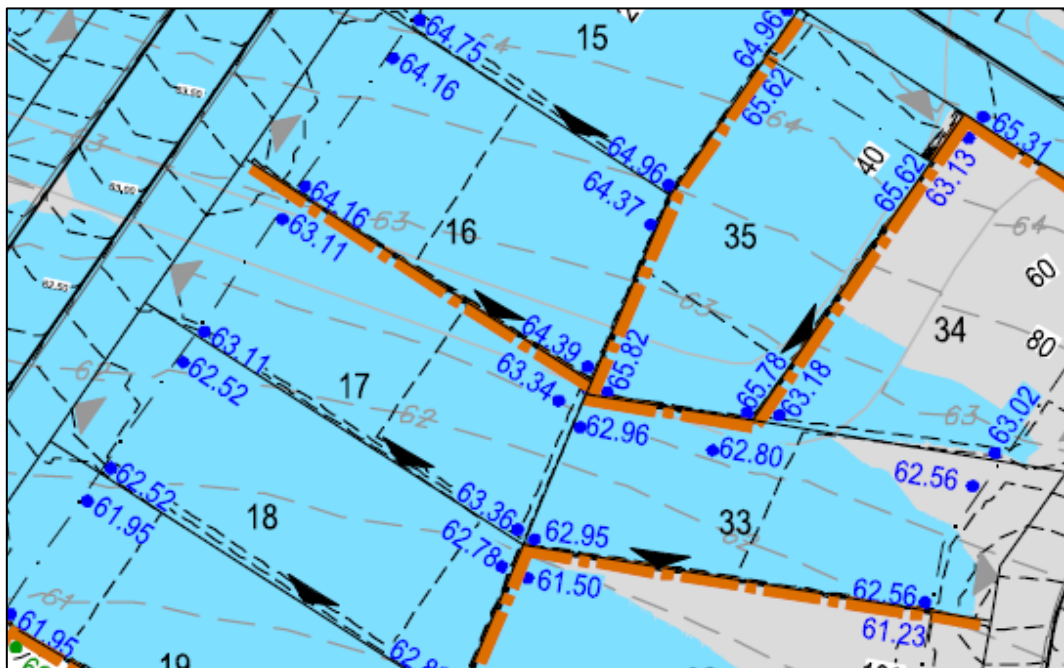
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Lot 17**



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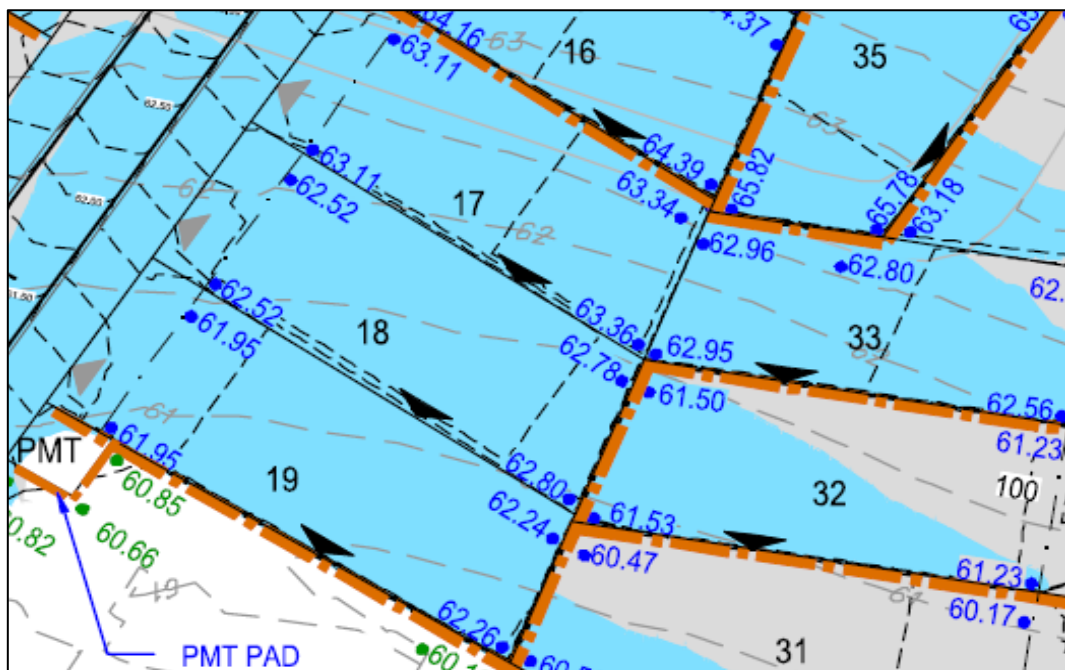
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Lot 18**



Approximate lateral extent and maximum depth of controlled filling to 1.8m.
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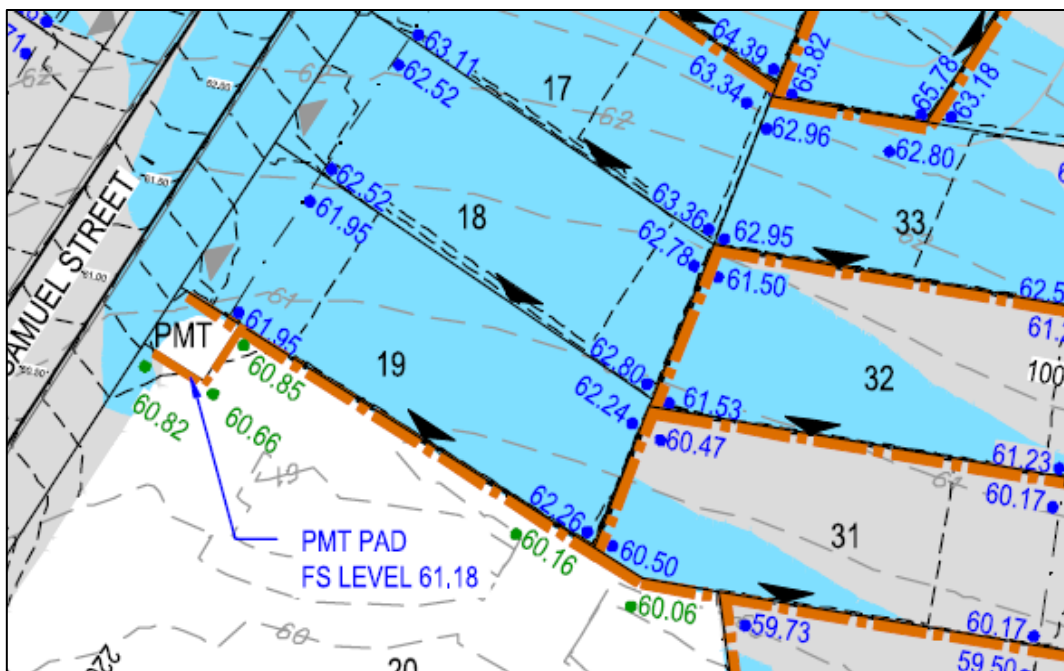
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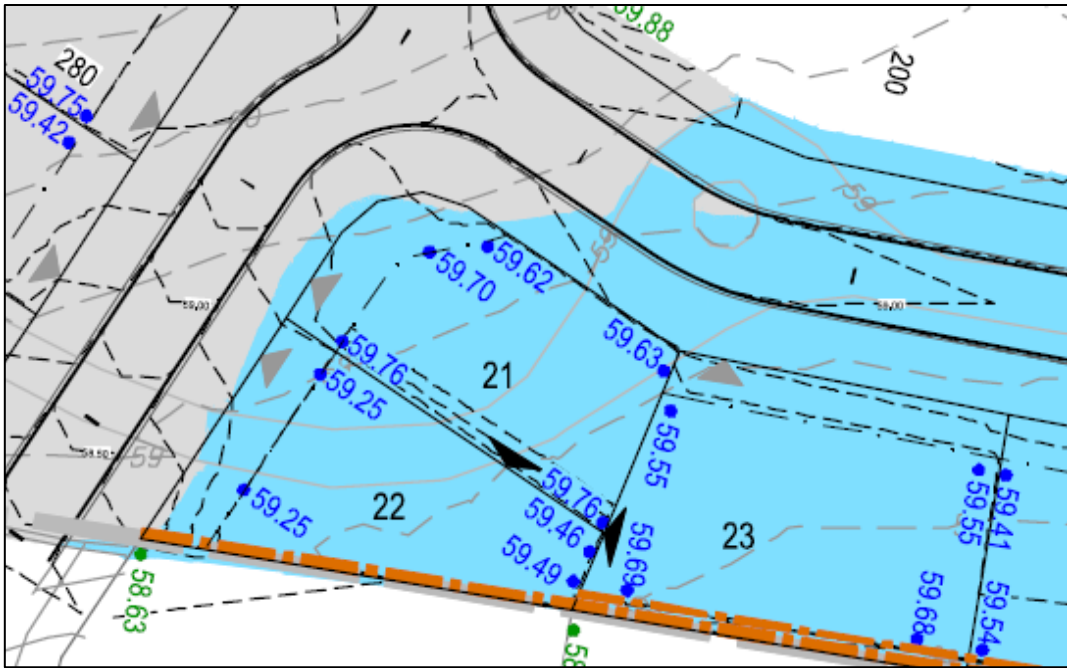
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Lot 21**



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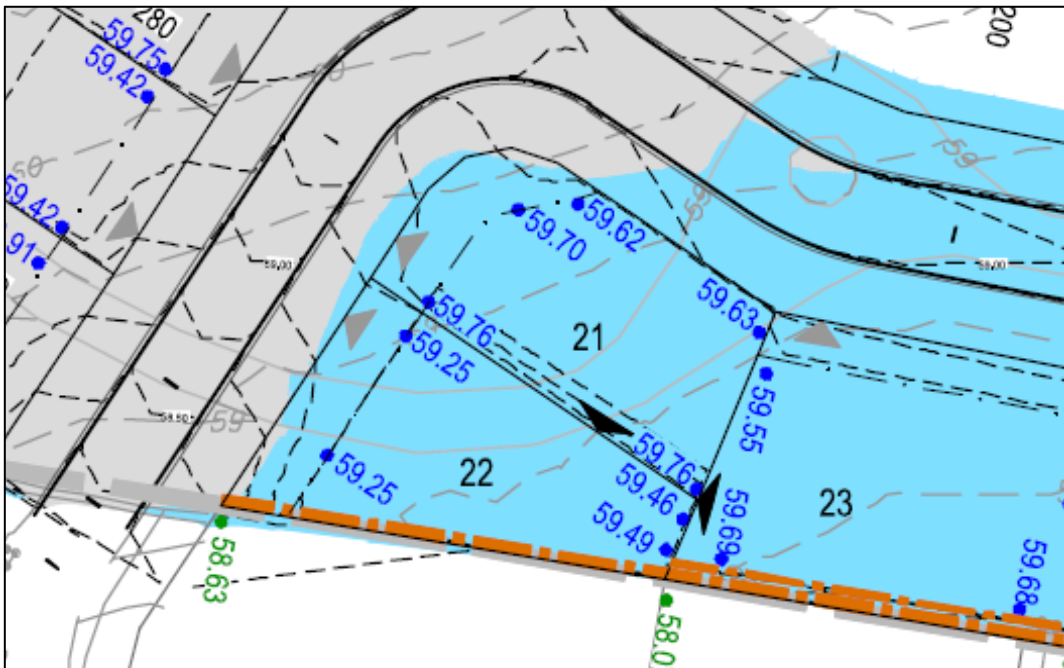
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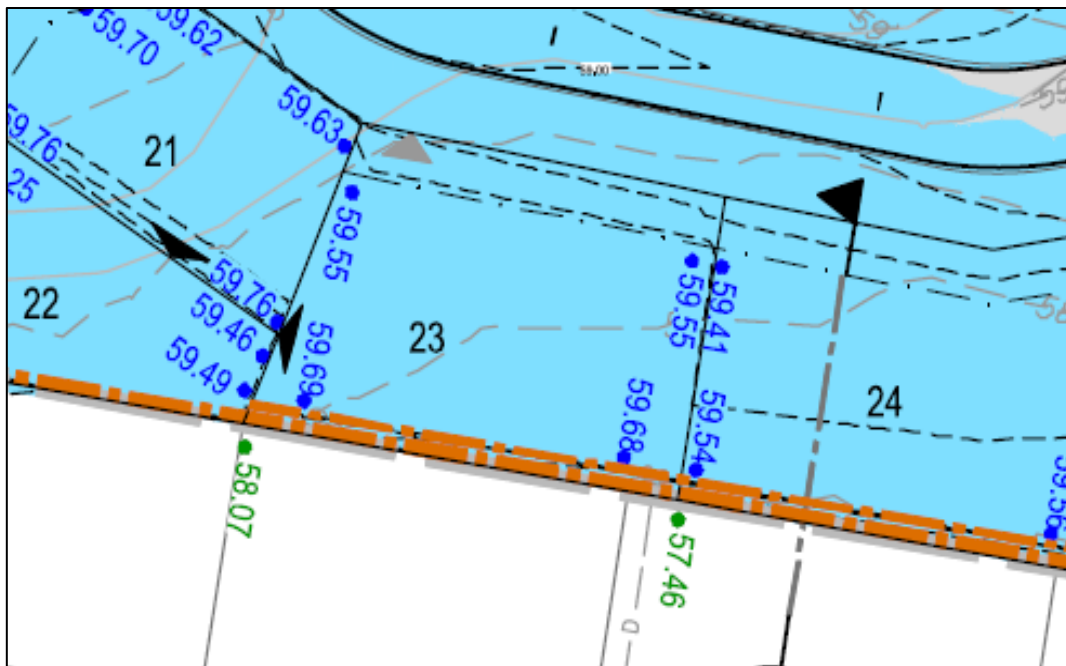
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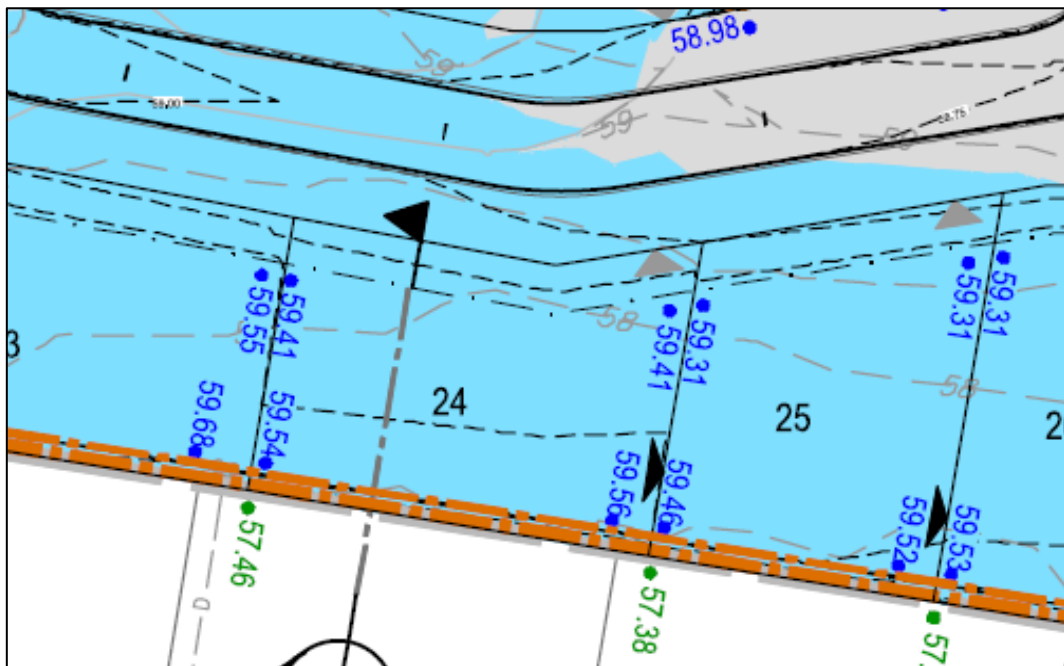
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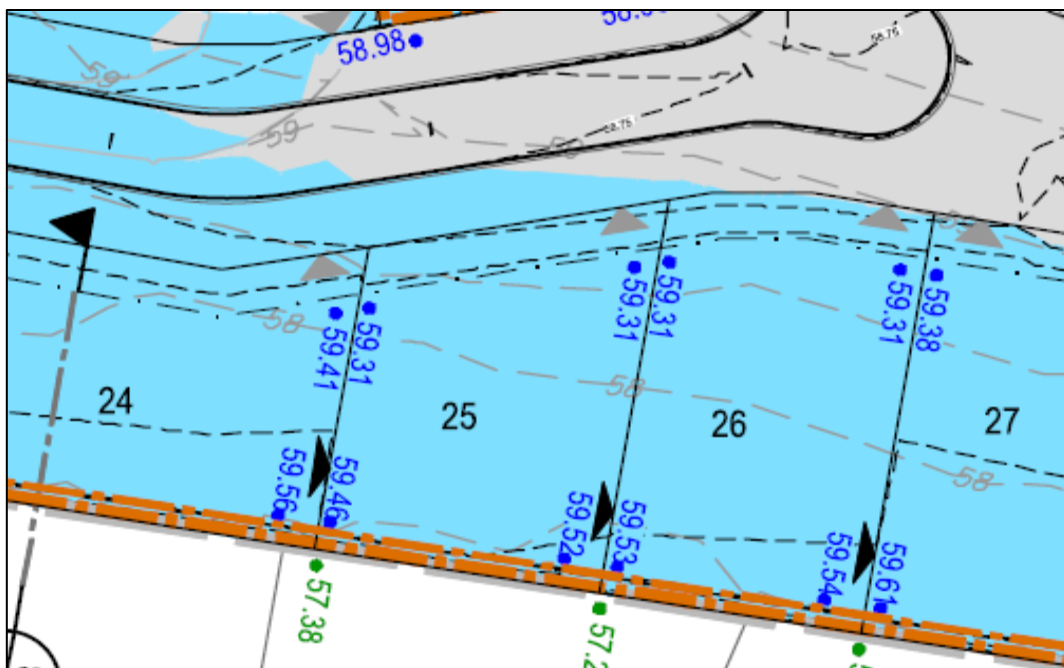
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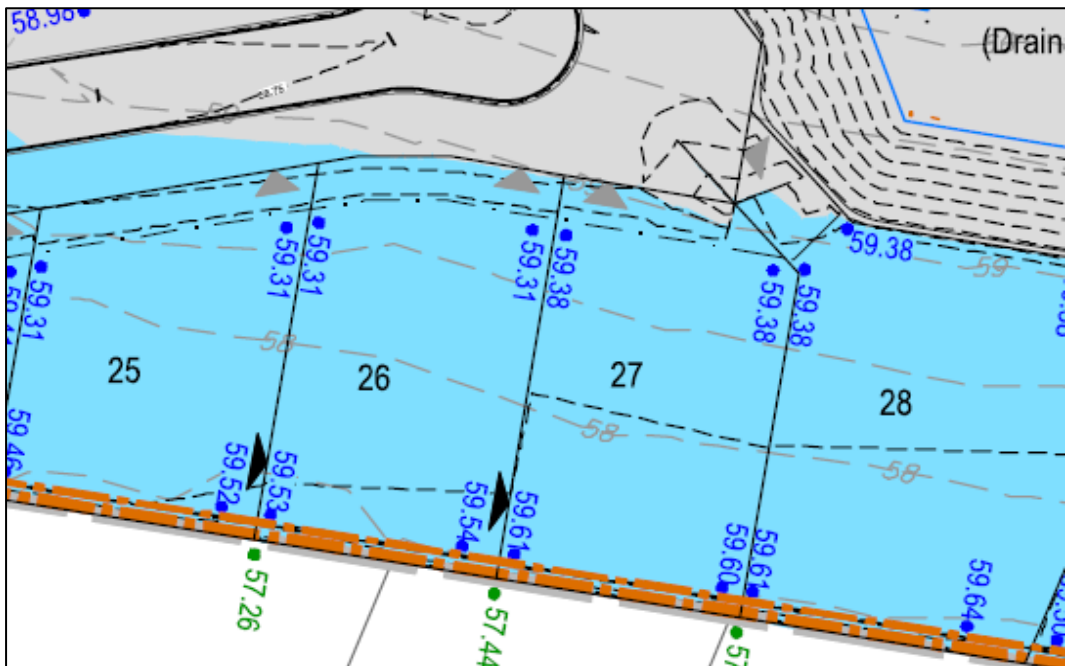
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Lot 26**



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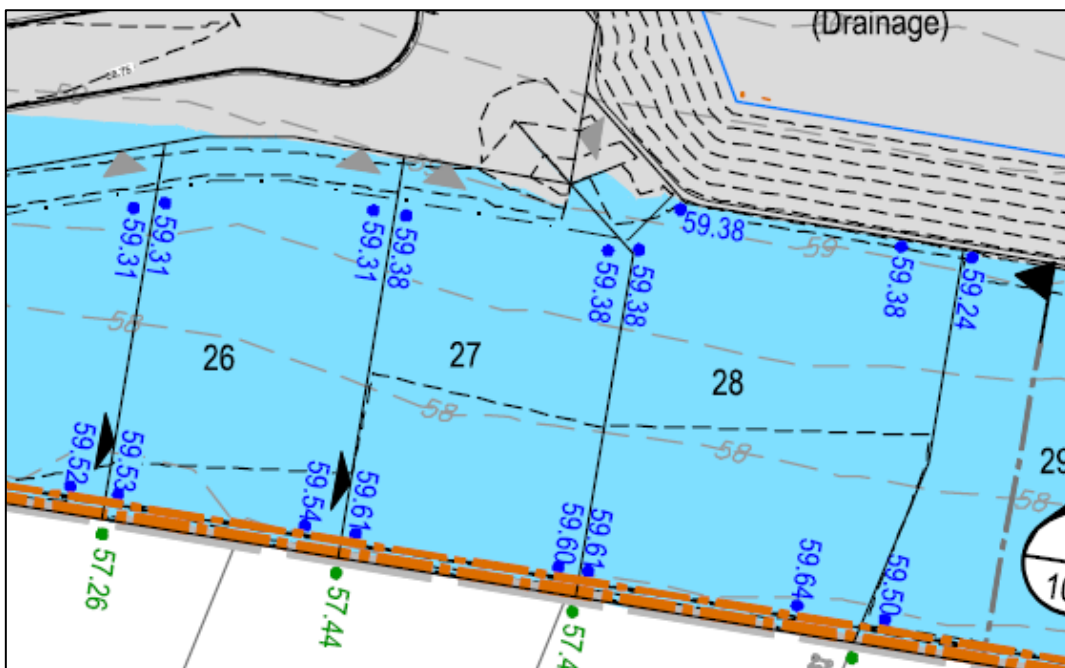
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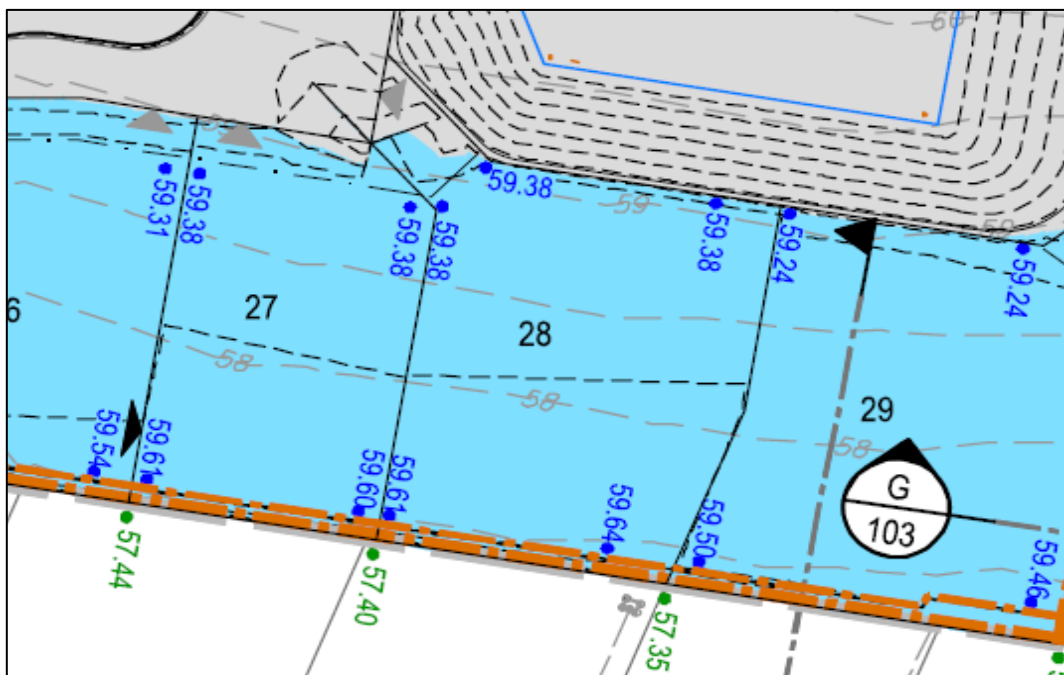
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EARTHWORKS OPERATIONS
(AS3798-2007 SECTION 8 – Level 1)
148 Algester Road
148 Algester Road, Calamvale.
Lot 28**



 Approximate lateral extent and maximum depth of controlled filling to 2.5m.
Level 1 Certification is limited to within this area.

Filling in the areas defined above have been carried out to meet the requirements of the specification and Level 1 Certification as per AS3798 – 2007 “Guidelines on Earthworks for Commercial and Residential Developments” and is considered to be ‘Controlled Fill’ as defined in AS2870 “Residential Slabs & Footings”.

A geotechnical site investigation and foundation design for the specific ground conditions should be carried out on this lot prior to building, when house type and location is known.



Anthony Jeffrey
Managing Director

Elite SOIL TESTING PTY LTD

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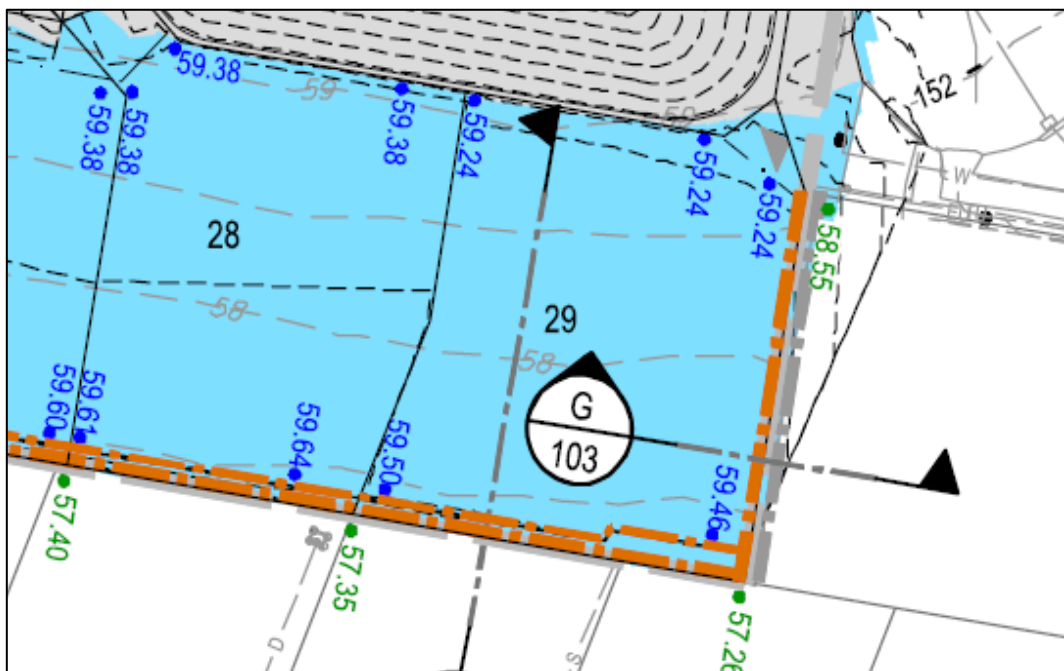
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ABN: 97 113 538 748

ACN: 113 538 748

**CERTIFICATE OF CONTROLLED FILLING
EARTHWORKS OPERATIONS
(AS3798-2007 SECTION 8 – Level 1)
148 Algester Road
148 Algester Road, Calamvale.
Lot 29**



Approximate lateral extent and maximum depth of controlled filling to 2.5m.
Level 1 Certification is limited to within this area.

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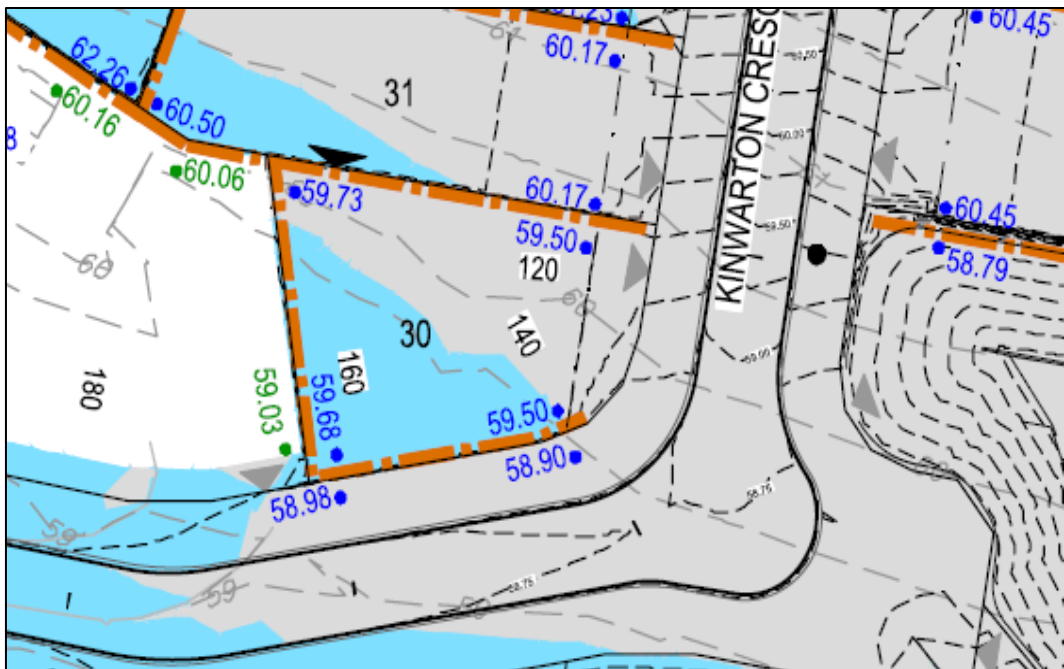
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**CERTIFICATE OF CONTROLLED FILLING
EARTHWORKS OPERATIONS
(AS3798-2007 SECTION 8 – Level 1)
148 Algester Road
148 Algester Road, Calamvale.
Lot 30**



 Approximate lateral extent and maximum depth of controlled filling to 0.6m.
Level 1 Certification is limited to within this area.

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Managing Director

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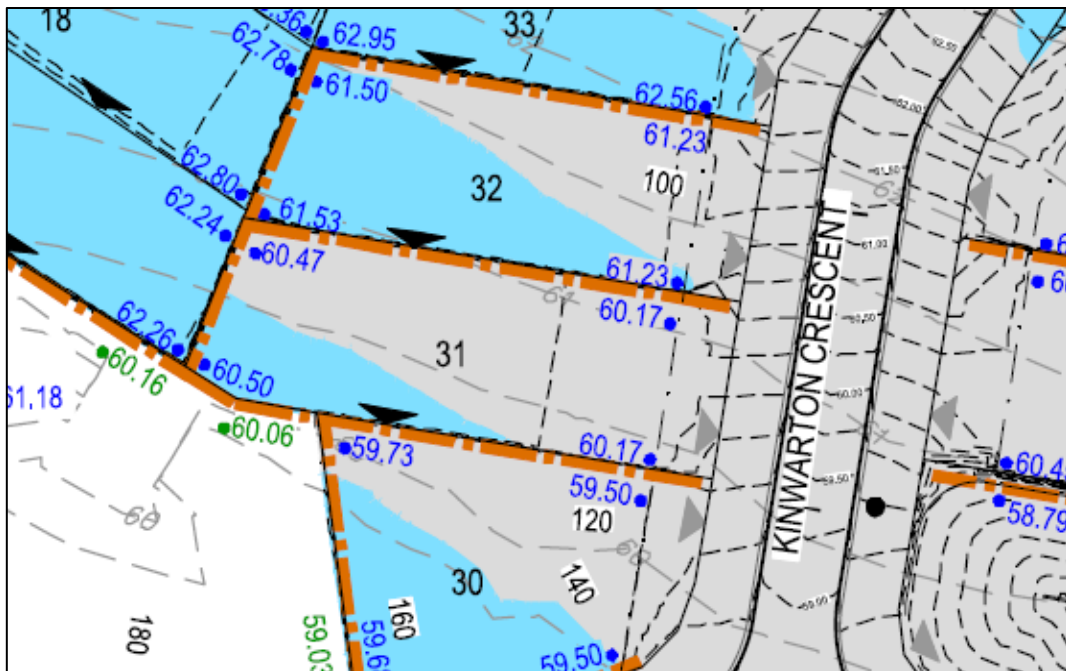
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**CERTIFICATE OF CONTROLLED FILLING
EARTHWORKS OPERATIONS
(AS3798-2007 SECTION 8 – Level 1)
148 Algester Road
148 Algester Road, Calamvale.
Lot 31**



Approximate lateral extent and maximum depth of controlled filling to 0.5m.
Level 1 Certification is limited to within this area.

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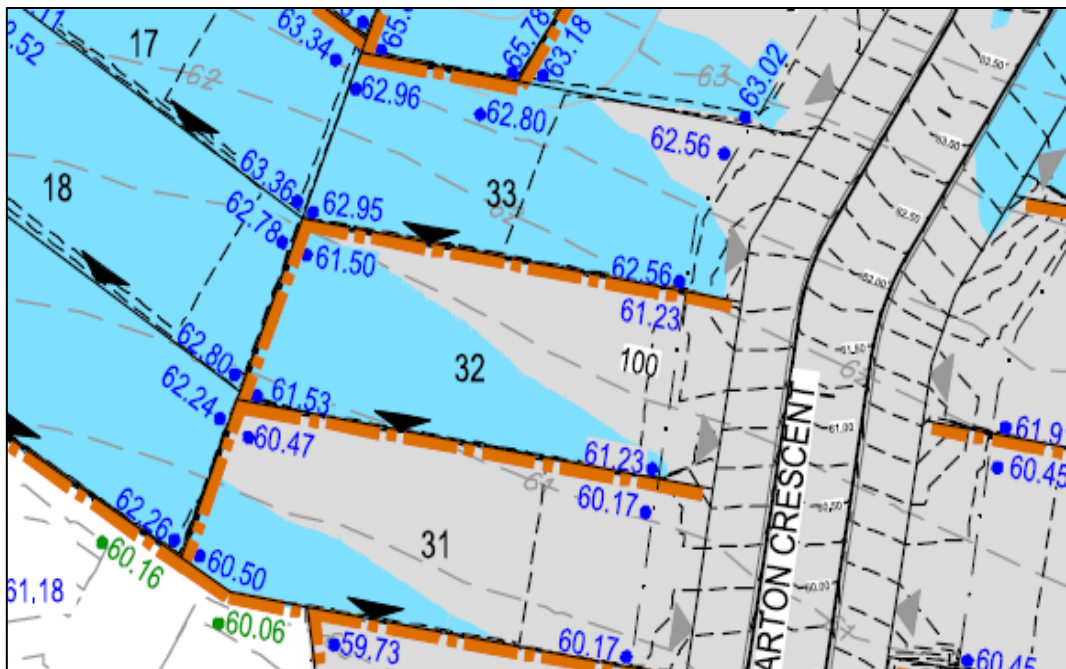
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EARTHWORKS OPERATIONS
(AS3798-2007 SECTION 8 – Level 1)
148 Algester Road
148 Algester Road, Calamvale.
Lot 32**



Approximate lateral extent and maximum depth of controlled filling to 0.5m.
Level 1 Certification is limited to within this area.

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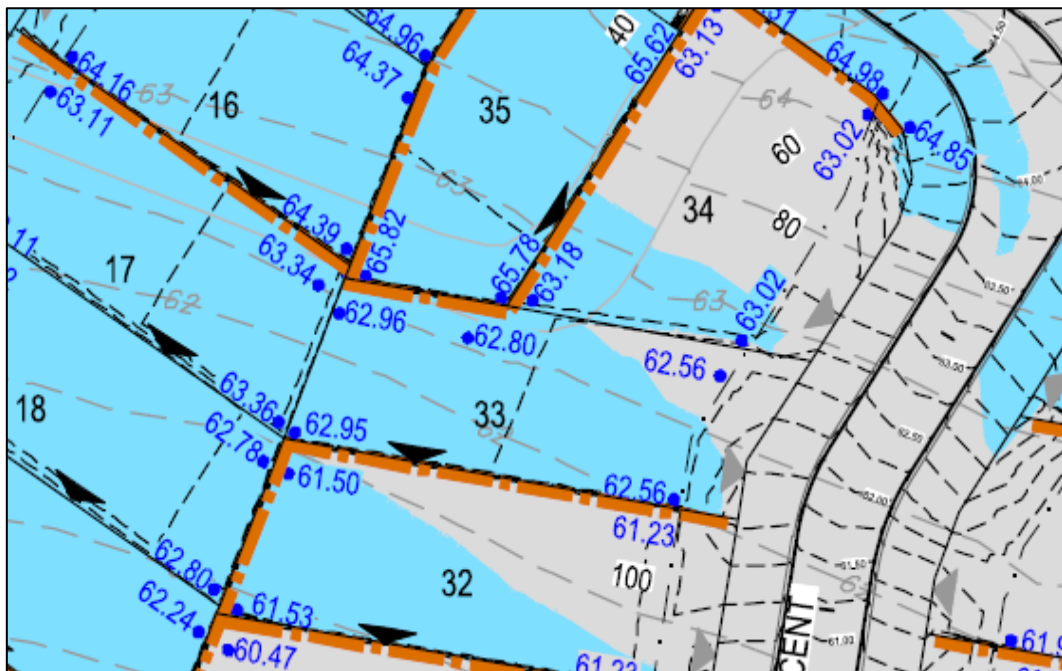
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**CERTIFICATE OF CONTROLLED FILLING
EARTHWORKS OPERATIONS
(AS3798-2007 SECTION 8 – Level 1)
148 Algester Road
148 Algester Road, Calamvale.
Lot 33**



 Approximate lateral extent and maximum depth of controlled filling to 1.6m.
Level 1 Certification is limited to within this area.

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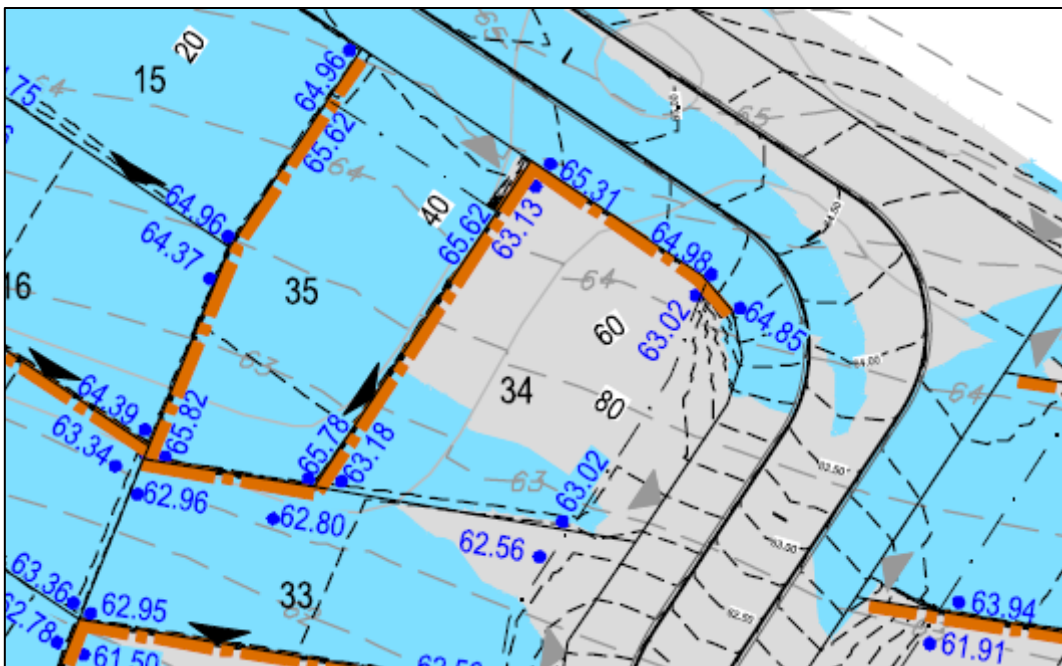
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EARTHWORKS OPERATIONS
(AS3798-2007 SECTION 8 – Level 1)
148 Algester Road
148 Algester Road, Calamvale.
Lot 34**



Approximate lateral extent and maximum depth of controlled filling to 0.3m.
Level 1 Certification is limited to within this area.

Filling in the areas defined above have been carried out to meet the requirements of the specification and Level 1 Certification as per AS3798 – 2007 “Guidelines on Earthworks for Commercial and Residential Developments” and is considered to be ‘Controlled Fill’ as defined in AS2870 “Residential Slabs & Footings”.

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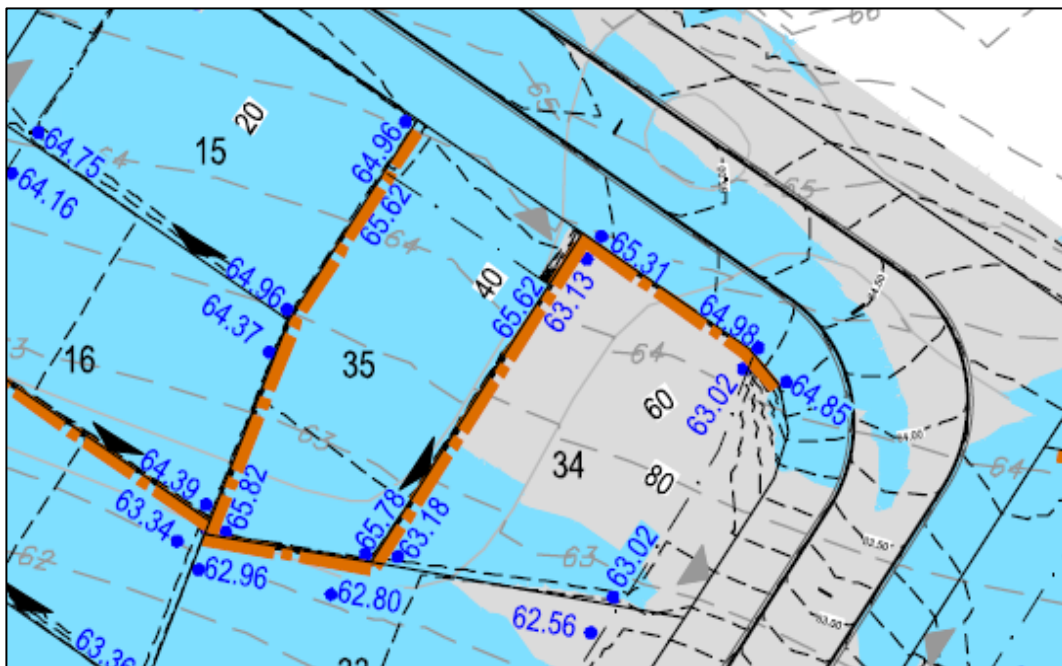
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(AS3798-2007 SECTION 8 – Level 1)
148 Algester Road
148 Algester Road, Calamvale.
Lot 35**



Approximate lateral extent and maximum depth of controlled filling to 3.3m.
Level 1 Certification is limited to within this area.

Filling in the areas defined above have been carried out to meet the requirements of the specification and Level 1 Certification as per AS3798 – 2007 “Guidelines on Earthworks for Commercial and Residential Developments” and is considered to be ‘Controlled Fill’ as defined in AS2870 “Residential Slabs & Footings”.

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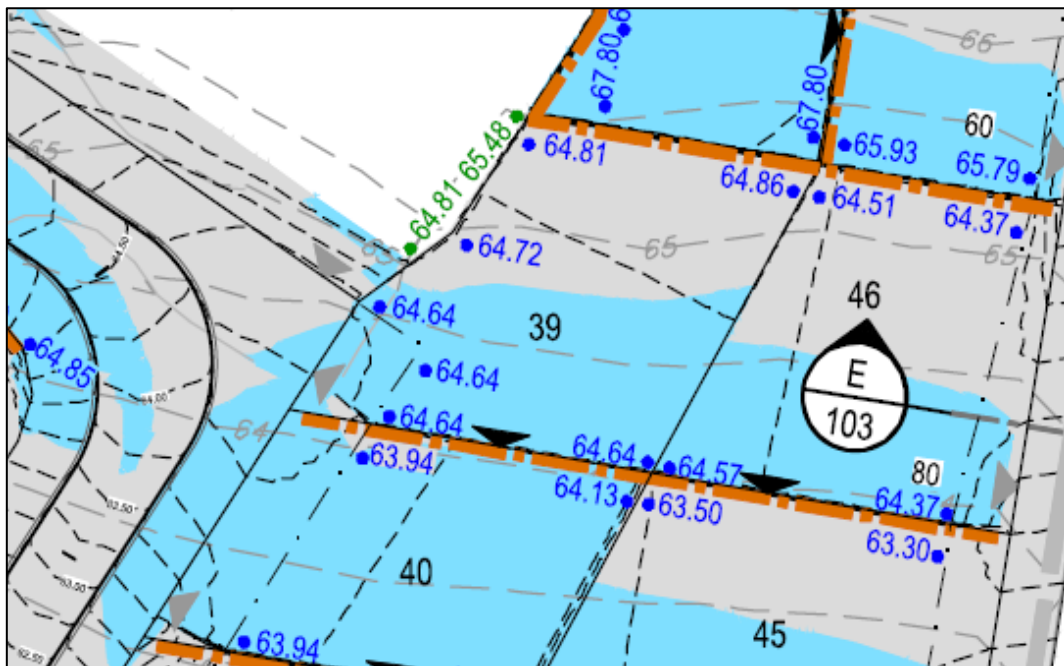
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(AS3798-2007 SECTION 8 – Level 1)
148 Algester Road
148 Algester Road, Calamvale.
Lot 39**



 Approximate lateral extent and maximum depth of controlled filling to 0.4m.
Level 1 Certification is limited to within this area.

Filling in the areas defined above have been carried out to meet the requirements of the specification and Level 1 Certification as per AS3798 – 2007 “Guidelines on Earthworks for Commercial and Residential Developments” and is considered to be ‘Controlled Fill’ as defined in AS2870 “Residential Slabs & Footings”.

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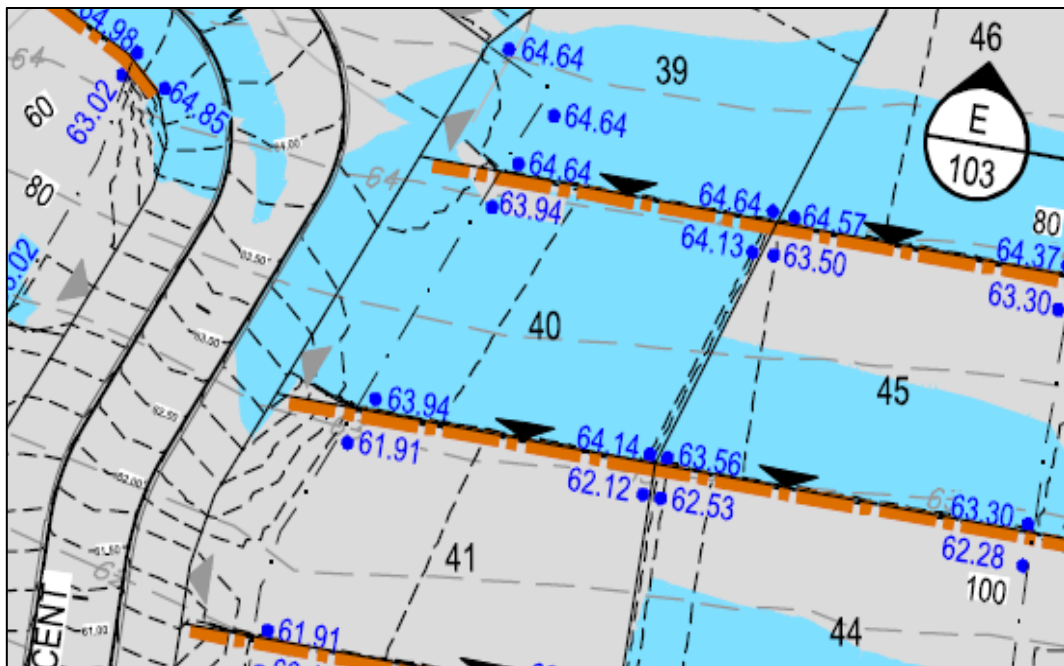
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**CERTIFICATE OF CONTROLLED FILLING
EARTHWORKS OPERATIONS
(AS3798-2007 SECTION 8 – Level 1)
148 Algester Road
148 Algester Road, Calamvale.
Lot 40**



 Approximate lateral extent and maximum depth of controlled filling to 1.0m.
Level 1 Certification is limited to within this area.

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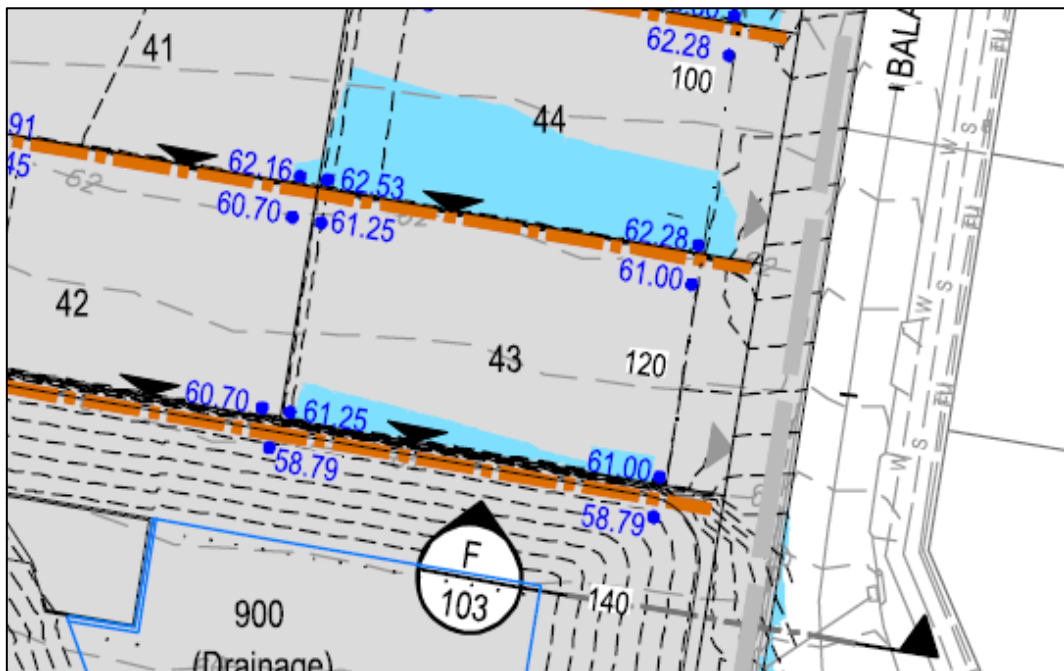
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**CERTIFICATE OF CONTROLLED FILLING
EARTHWORKS OPERATIONS
(AS3798-2007 SECTION 8 – Level 1)
148 Algester Road
148 Algester Road, Calamvale.
Lot 43**



 Approximate lateral extent and maximum depth of controlled filling to 0.3m.
Level 1 Certification is limited to within this area.

Filling in the areas defined above have been carried out to meet the requirements of the specification and Level 1 Certification as per AS3798 – 2007 “Guidelines on Earthworks for Commercial and Residential Developments” and is considered to be ‘Controlled Fill’ as defined in AS2870 “Residential Slabs & Footings”.

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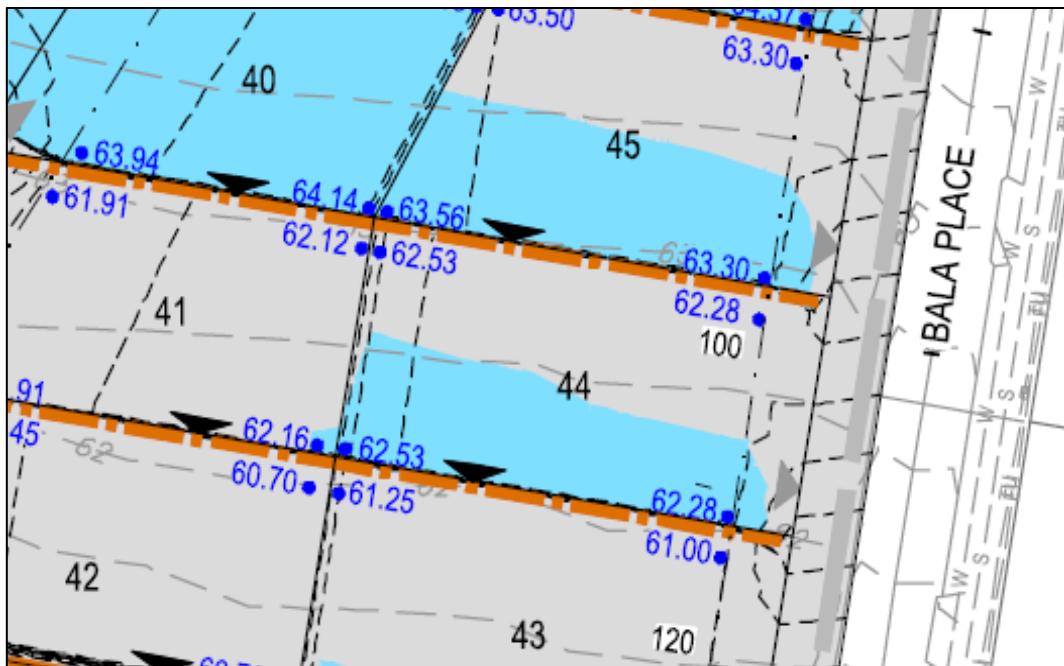
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**CERTIFICATE OF CONTROLLED FILLING
EARTHWORKS OPERATIONS
(AS3798-2007 SECTION 8 – Level 1)
148 Algester Road
148 Algester Road, Calamvale.
Lot 44**



 Approximate lateral extent and maximum depth of controlled filling to 0.6m.
Level 1 Certification is limited to within this area.

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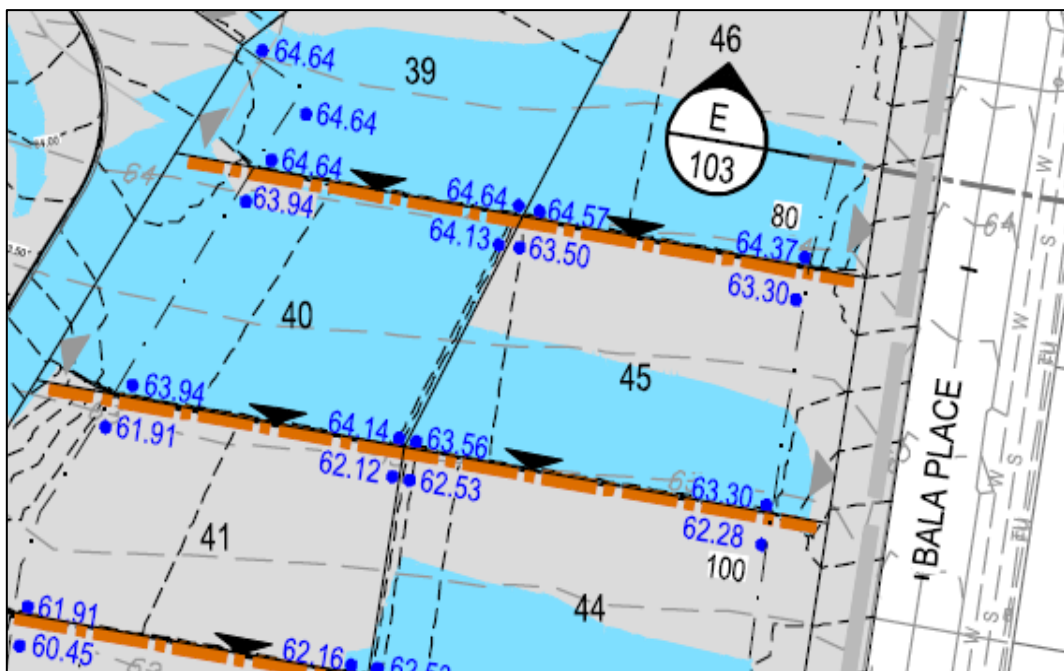
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**CERTIFICATE OF CONTROLLED FILLING
EARTHWORKS OPERATIONS
(AS3798-2007 SECTION 8 – Level 1)
148 Algester Road
148 Algester Road, Calamvale.
Lot 45**



 Approximate lateral extent and maximum depth of controlled filling to 0.6m.
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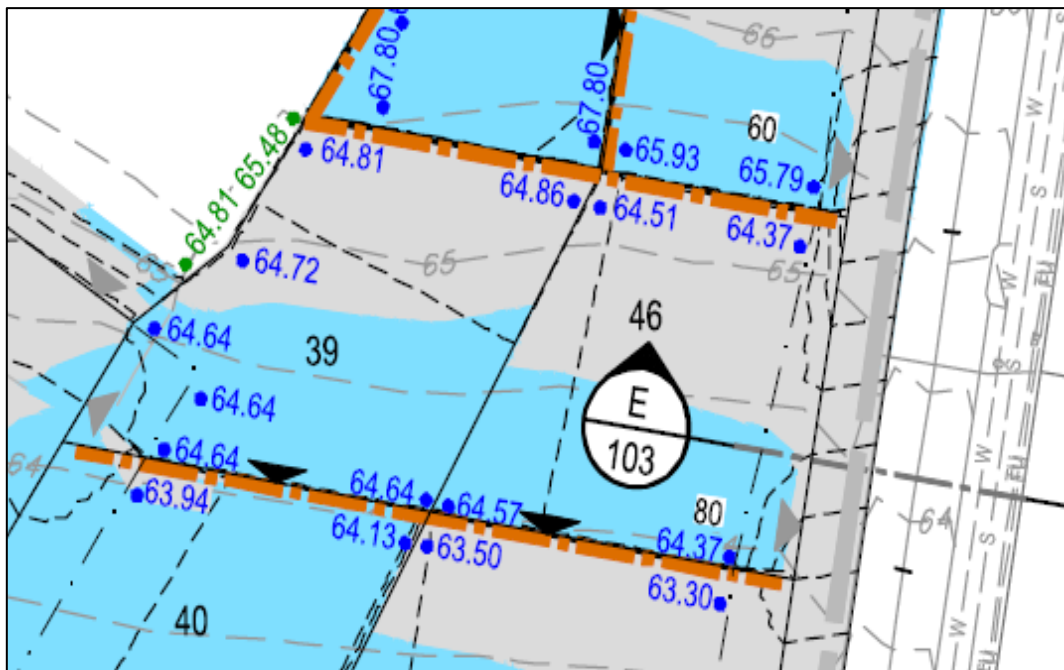
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**CERTIFICATE OF CONTROLLED FILLING
EARTHWORKS OPERATIONS
(AS3798-2007 SECTION 8 – Level 1)
148 Algester Road
148 Algester Road, Calamvale.
Lot 46**



Approximate lateral extent and maximum depth of controlled filling to 0.5m.
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Managing Director

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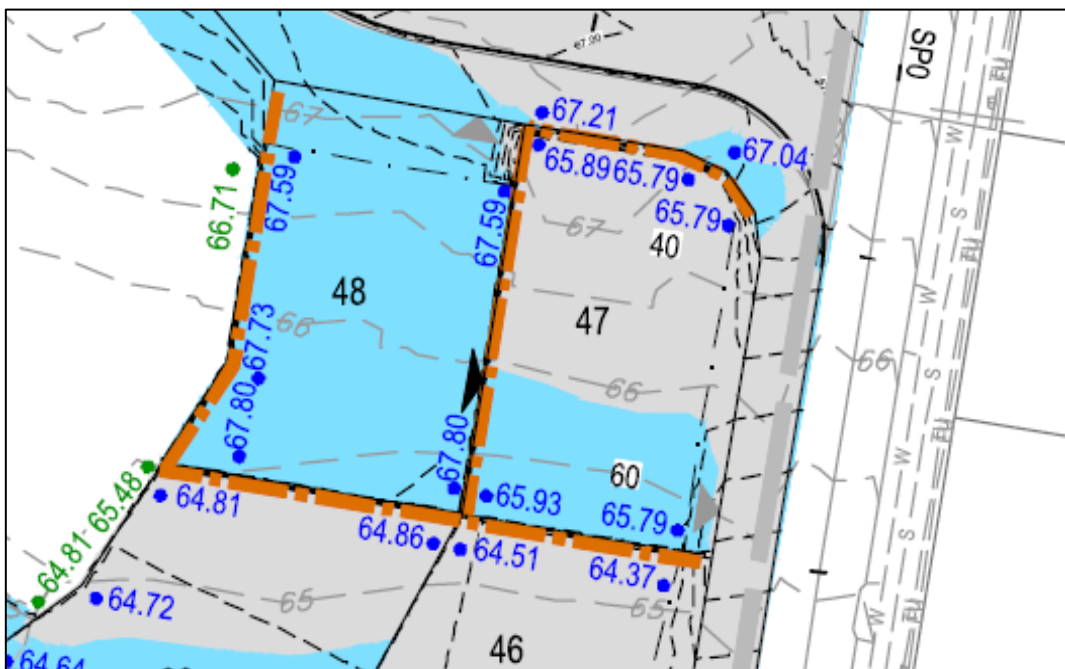
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EARTHWORKS OPERATIONS
(AS3798-2007 SECTION 8 – Level 1)
148 Algester Road
148 Algester Road, Calamvale.
Lot 47**



Approximate lateral extent and maximum depth of controlled filling to 0.7m.
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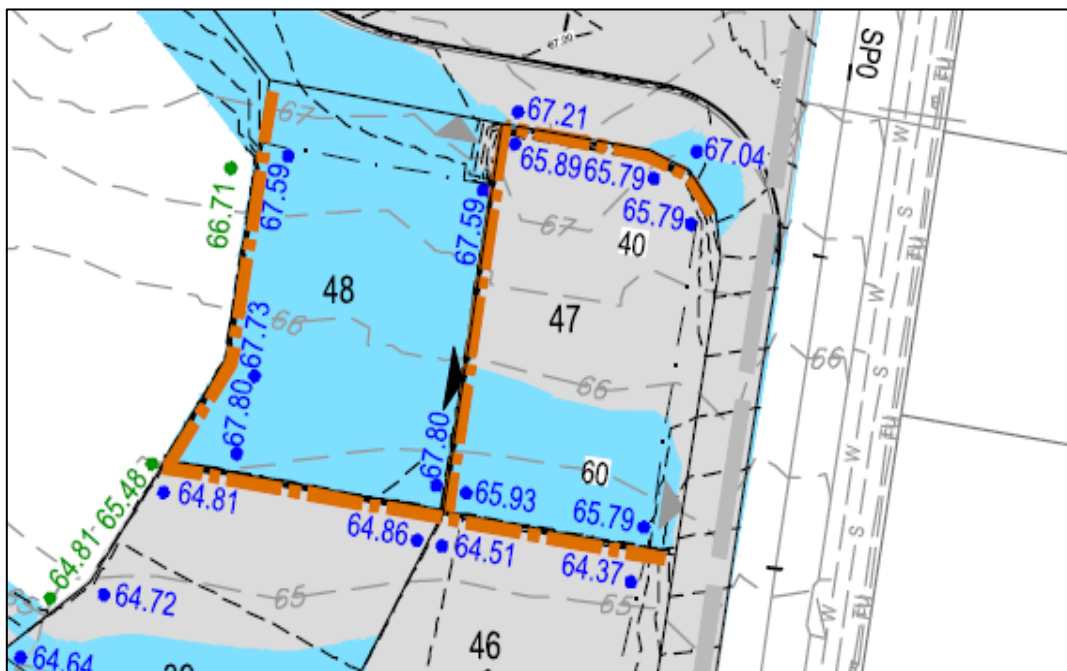
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(AS3798-2007 SECTION 8 – Level 1)
148 Algester Road
148 Algester Road, Calamvale.
Lot 48**



 Approximate lateral extent and maximum depth of controlled filling to 2.5m.
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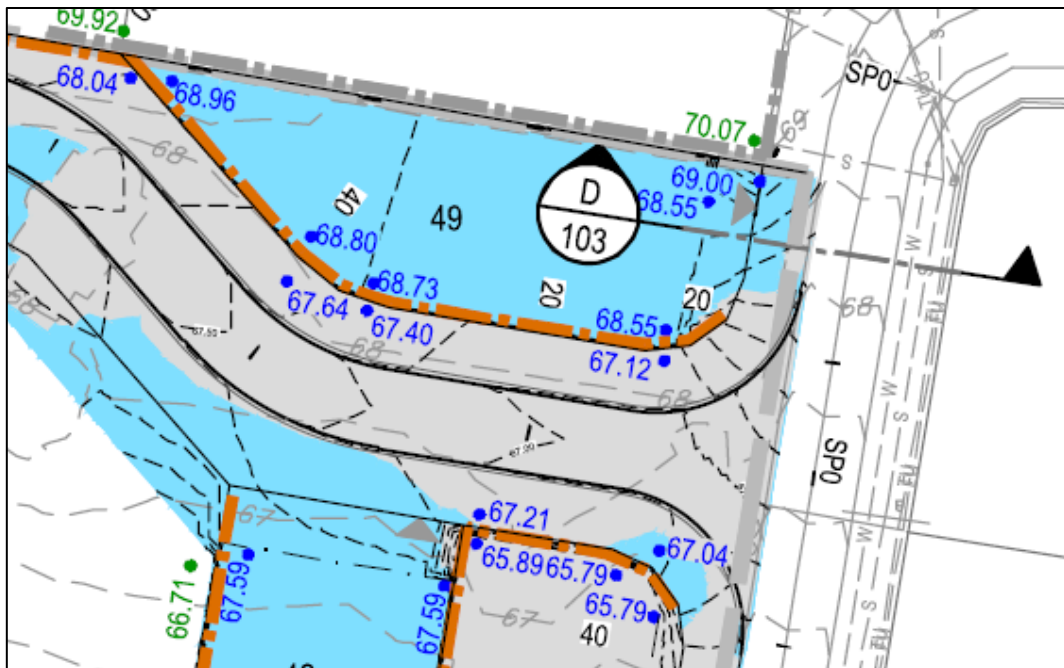
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(AS3798-2007 SECTION 8 – Level 1)
148 Algester Road
148 Algester Road, Calamvale.
Lot 49**



Approximate lateral extent and maximum depth of controlled filling to 1.0m.
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Managing Director