

**EXISTING SERVICES LOCATIONS**  
THE DESIGN DETAILED ON THIS PLAN HAS BEEN PREPARED BASED ON SERVICE AUTHORITY AS CONSTRUCTED INFORMATION.  
NO POT HOLING HAS BEEN UNDERTAKEN TO VERIFY EXISTING SERVICES LOCATIONS AND DEPTHS.  
IT IS THE CONTRACTORS RESPONSIBILITY TO UNDERTAKE POT HOLING (HYDROVAC EXCAVATION) PRIOR TO COMMENCEMENT OF CONSTRUCTION.

**NOTE:**  
THE CONTRACTOR IS TO ENSURE THAT FOOTINGS FOR RETAINING WALLS ARE CLEAR OF THE PROPOSED SEWER AND ROOFWATER LINES.

**RETAINING WALL CERTIFICATION**  
1. CIVIL CONTRACTOR TO OBTAIN DESIGN AND CONSTRUCTION RPEQ CERTIFICATION FOR ALL CONCRETE SLEEPER, SANDSTONE BOULDER & CONCRETE BLOCK RETAINING WALLS.  
2. WALL DESIGN AND CERTIFICATION TO BE PROVIDED TO SUPERVISING ENGINEER PRIOR TO CONSTRUCTION.  
3. CONSTRUCTION CERTIFICATION TO BE PROVIDED TO SUPERVISING ENGINEER PRIOR TO "ON MAINTENANCE" INSPECTION.

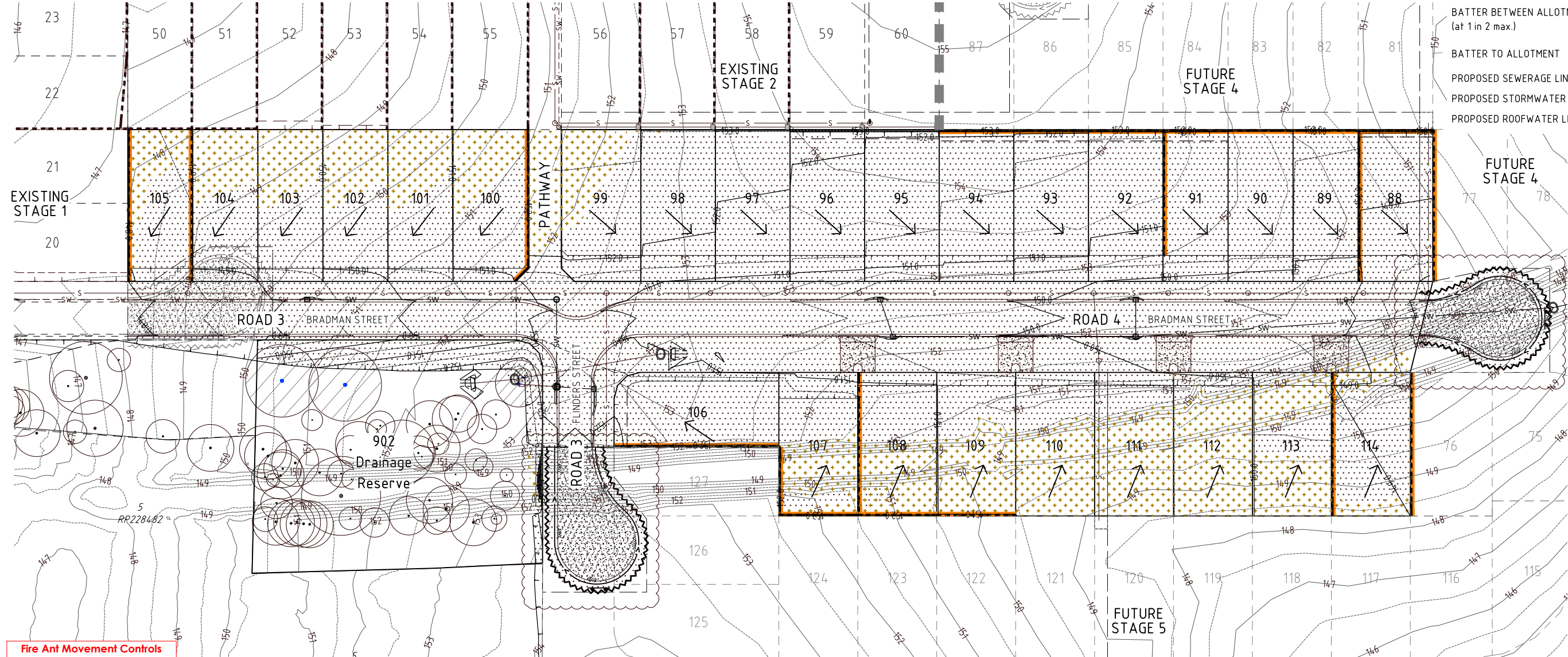
**SAFETY FENCE NOTE**  
STAR PICKET AND SAFETY BARRIER MESH FENCE TO BE ERECTED ON TOP OF ALL RETAINING WALLS GREATER THAN 1.0m IN HEIGHT

**SPOT LEVELS**  
ALL LEVELS SHOWN ARE FINISHED SURFACE.  
SUBTRACT 100mm FOR EARTHWORKS LEVELS TO BATTERS & PARK AREAS, 150mm TO VERGES & 250mm TO ALLOTMENTS ALLOWING FOR TOPSOIL THICKNESS.

**TREE LEGEND**  
TREES TO BE RETAINED AND PROTECTED  
TREES TO BE RETAINED AND REQUIRES THE SUPERVISION OF ANY EXCAVATION OR SERVICES WORKS WITHIN THE HATCHED PROTECTION ZONE BY AN ARBORIST ON SITE.

**TPZ**  
Tree Protection Zone  
All vegetation to be protected in accordance with AS4970 - Protection of Trees on Development Sites & any conditions of approval.

**LEGEND:**  
EXISTING CONTOURS  
FINISHED CONTOURS  
PROPOSED KERB AND CHANNEL  
SPOT LEVELS (#19.62 DENOTES NATURAL SURFACE LEVEL)  
PROPOSED FILL  
PROPOSED CUT  
PROPOSED CONCRETE SLEEPER RETAINING WALL  
PROPOSED "A GRADE" SANDSTONE RETAINING WALL  
BATTER BETWEEN ALLOTMENTS (at 1 in 2 max.)  
BATTER TO ALLOTMENT  
PROPOSED SEWERAGE LINE  
PROPOSED STORMWATER LINE  
PROPOSED ROOFWATER LINE



**Fire Ant Movement Controls**  
To prevent the spread of fire ants, the Queensland Government has implemented controls that apply to individuals and commercial operators, to restrict the movement of materials that could carry fire ants including soil, turf, potted plants, mulch, baled hay or straw, animal manures, mining or quarry products.  
Penalties apply for non-compliance with the movement controls. If you are unsure of your obligations under the Biosecurity Act 2014 contact the relevant Queensland State Government Department.

**EPZ**  
Environmental Protection Zone to be clearly demarcated onsite and protected in accordance with the conditions of approval.

THIS APPROVAL SHOULD NOT BE TAKEN TO CONSTITUTE PERMISSION TO ENTER NEIGHBOURING PROPERTIES TO CONSTRUCT (INCLUDING ASSOCIATED WORKS SUCH AS DRAINAGE AND EXCAVATION) ANY BUILT TO BOUNDARY WALL OR FENCES. PERMISSION MUST BE OBTAINED FROM RELEVANT PROPERTY OWNERS.

**FOR MAINTENANCE OF EXISTING VEGETATION AND REMOVAL, WHERE PERMITTED REFER TO THE APPROVED VEGETATION MANAGEMENT PLAN AND NAL PERMITS**

**FOR NOTES AND DETAILS**  
REFER DWG No.M2584E\_3 EW04

**PRIOR TO COMMENCEMENT OF WORKS REFER TO VEGETATION MANAGEMENT PLAN.**

**JFOP URBAN CONSULTANTS**  
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**PLANNERS**  
URBAN DESIGNERS  
SURVEYORS  
ENGINEERS  
LANDSCAPE ARCHITECTS

**SCALE:**  
1:500  
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THIS SCALE SHOWN IS ORIGINAL DRAWING SCALE  
0 5 10 15 20 25 30 35 40 45 50 Metres  
(A1) 1:500  
(A3) 1:1000  
DO NOT SCALE FROM THIS DRAWING - USE ONLY DIMENSIONS PROVIDED - IF IN DOUBT PLEASE ENQUIRE

**APPROVED**  
T. McKINNEY  
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RPEQ 5691  
J. PAPPAS  
RPEQ 6086  
H. WATSON  
RPEQ 6200

**DESIGNED**  
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DRAWN  
WN  
CHECKED  
PNH  
DATE: AHD

**ISSUE:**  
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RFI AMENDMENTS  
ISSUE FOR OPERATIONAL WORKS APPROVAL  
DATE: 28/10/21  
CDV  
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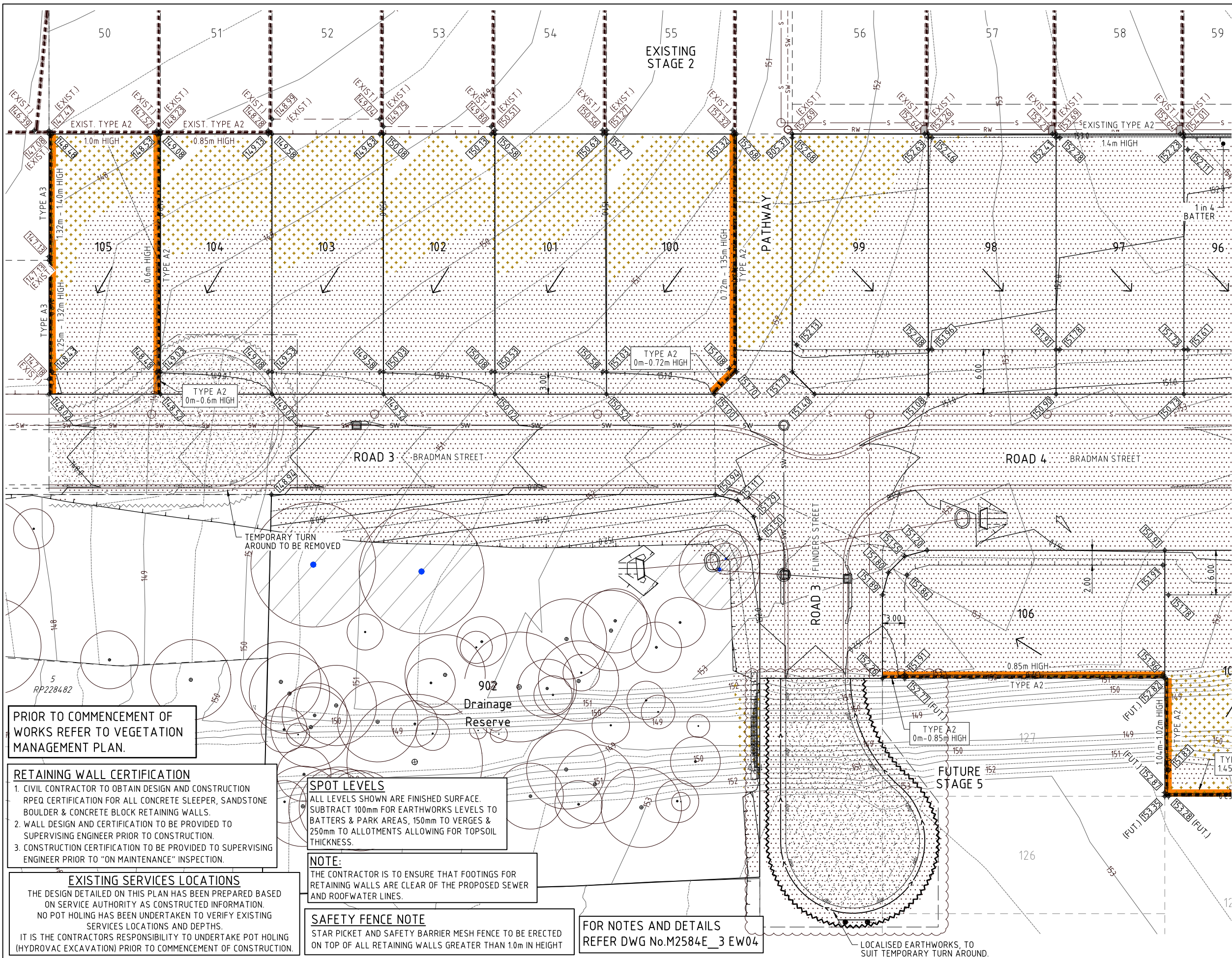
**TITLE:**  
EARTHWORKS LAYOUT PLAN  
DFC (PROJECT MANAGEMENT PTY LTD)  
'ARCHERS WAY' ESTATE - STAGE 3  
AT 22-80 CASH STREET, D'AGUILAR

**DENNIS FAMILY CORPORATION**  
M2584E\_3  
PLAN: EW01  
ISSUE: B  
MOROTON BAY REGIONAL COUNCIL REF: DA/38032/2019/V3VR  
FILE NAME: EARTHWORKS.DWG

**DIAL BEFORE YOU DIG**  
www.1100.com.au  
The Essential First Step

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- LEGEND:**
- EXISTING CONTOURS ——— 32 ———
- FINISHED CONTOURS ——— 32 ———
- PROPOSED KERB AND CHANNEL
- SPOT LEVELS  
(#19.62 DENOTES NATURAL SURFACE LEVEL)
- PROPOSED FILL
- PROPOSED CUT
- PROPOSED CONCRETE SLEEPER RETAINING WALL
- BATTER BETWEEN ALLOTMENTS  
(at 1 in 2 max.)
- BATTER TO ALLOTMENT
- PROPOSED SEWERAGE LINE — S —
- PROPOSED STORMWATER LINE — SW —
- PROPOSED ROOFWATER LINE — RW —

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PRIOR TO COMMENCEMENT OF WORKS REFER TO VEGETATION MANAGEMENT PLAN.

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**NOTE:**

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**SAFETY FENCE NOTE**

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FOR NOTES AND DETAILS REFER DWG No.M2584E\_3 EW04

NORTH:

SCALE:

1:250

A1

THIS SCALE SHOWN IS ORIGINAL DRAWING SCALE

0 2.5 5 7.5 10 12.5 (A1) 1:250 25 Metres

(A3) 1:500

DO NOT SCALE FROM THIS DRAWING - USE ONLY DIMENSIONS PROVIDED - IF IN DOUBT PLEASE ENQUIRE

APPROVED

FOR AND ON BEHALF OF JFP URBAN CONSULTANTS PTY LTD

DESIGNED

CHECKED

DATUM: AHD

ISSUE:

B

RFI AMENDMENTS

ISSUE FOR OPERATIONAL WORKS APPROVAL

DETAILS:

28/10/21

16/09/21

CDV

CDV

INIT:

TITLE:

EARTHWORKS LAYOUT DETAILS PLAN - SHEET 1 OF 2

DFC (PROJECT MANAGEMENT PTY LTD)

'ARCHERS WAY' ESTATE - STAGE 3 AT 22-80 CASH STREET, D'AGUILAR

DETAILS:

JOB NO:

M2584E\_3

PLAN:

EW02

ISSUE:

B

MORETON BAY REGIONAL COUNCIL REF:

DA/38032/2019/V3VR

FILE NAME: EARTHWORKS.DWG



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JFP URBAN CONSULTANTS PTY. LTD. A.C.N. 050 414 045

PLANNERS  
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FILE NAME: EARTHWORKS.DWG







EARTHWORKS NOTES

1. ALL LOTS TO BE FREE DRAINING TO ROOFWATER DRAINAGE OR ROADWAY.
- CLEARING AND GRUBBING**
2. ANY CLEARING REQUIRED TO BE UNDERTAKEN BY THE CONTRACTOR IS TO BE STRICTLY IN ACCORDANCE WITH THE COUNCIL APPROVED VEGETATION MANAGEMENT PLAN, INCLUDING THE LIMITS OF ALLOWABLE CLEARING, TREE PROTECTION REQUIREMENTS AND THE USE OF A FAUNA SPOTTER/CATCHER, AS SPECIFIED.
3. UNLESS OTHERWISE SPECIFIED OR DIRECTED, THE AREA TO BE CLEARED IS THAT REQUIRED BY SITE REGRADING WORKS, INCLUDING THE AREA OCCUPIED BY THE COMPLETED ROAD FORMATION AND ASSOCIATED DRAINAGE WORKS AND EROSION AND SEDIMENTATION MEASURES, THE CONTRACTOR SHALL ENSURE THAT ONLY THE ABSOLUTE MINIMUM AREA FOR CONSTRUCTION IS CLEARED.
4. THE AREA WITHIN THE LIMITS OF CLEARING SHALL BE CLEARED OF ALL VEGETATION, BOTH LIVING AND DEAD, ALL MINOR MAN-MADE STRUCTURES (SUCH AS FENCES, BUILDING MATERIAL AND EXISTING DRIVEWAYS), ALL RUBBISH AND OTHER MATERIALS WHICH, IN THE OPINION OF THE SUPERINTENDENT, ARE UNSUITABLE FOR USE IN THE WORKS WITH THE EXCEPTION OF CERTAIN TREES MARKED FOR PRESERVATION.
5. ALL TREES AND STUMPS ON OR WITHIN THE LIMITS OF CLEARING, THAT ARE TO BE REMOVED BY GRUBBING OPERATION SHALL BE CARRIED OUT TO A DEPTH OF 0.5m BELOW THE NATURAL SURFACE OR 1.5 METRES BELOW THE FINISHED SURFACE LEVEL, WHICHEVER IS THE LOWER.

TOPSOIL

6. ALL TOPSOIL ON ROADWORKS AREAS SHALL BE STRIPPED AND STOCKPILED PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS OPERATIONS. A TOPSOIL DEPTH OF 150mm HAS BEEN USED TO DETERMINE TOPSOIL AND EARTHWORK QUANTITIES. THE CONTRACTOR IS TO SATISFY HIMSELF OF THE ACCURACY OF THESE QUANTITIES AND TO MAKE ANY NECESSARY ALLOWANCE IF HE DISAGREES WITH QUANTITIES.

EARTHWORKS

7. EARTHWORKS ARE TO BE IN ACCORDANCE WITH AS 3798 "GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS" (LATEST ISSUE - INCLUDING ALL AMENDMENTS).
8. ALL FILLING SHALL BE COMPLETED TO A LEVEL 1 ARRANGEMENT, UNDER THE SUPERVISION OF THE PRINCIPAL'S APPOINTED GEOTECHNICAL ENGINEER.
9. THE EARTHWORKS QUANTITIES FOR ROADWORKS ARE CALCULATED USING THE MINIMUM ALLOWABLE TOTAL PAVEMENT THICKNESS (NOMINAL PAVEMENT). VARIATIONS TO THE PAVEMENT DEPTHS WILL BE PAYABLE AT THE RATES SHOWN IN THE PRICED SCHEDULE OF RATES.
10. "CUT" AND "FILL" QUANTITIES HAVE BEEN CALCULATED TO THE UNDERSIDE OF THE TOPSOIL LAYER.
11. ALL EARTHWORK QUANTITIES HAVE BEEN CALCULATED AND BILLED IN THE CONTRACT AS "NETT" QUANTITIES, THAT IS NO ALLOWANCE FOR BULKING OR COMPACTION HAS BEEN MADE.
12. ALL FILL PLACED ON THIS SITE IS TO COMPRISE OF ONLY NATURAL EARTH AND ROCK AND IS TO BE FREE OF ALL CONTAMINANTS (REFER TO THE ENVIRONMENTAL PROTECTION ACT 1994 SECTION 11), NO DEMOLITION MATERIAL IS TO BE USED.

ALLOTMENT FILLING COMPACTION/TESTING

13. MATERIAL TO BE PLACED IN 300mm(MAXIMUM) LAYERS AND COMPACTED TO A MINIMUM OF 95% AS 1289(STANDARD) OF THE MAXIMUM DRY DENSITY. THE INSITU DENSITY OF THE FILL MATERIAL SHALL BE TESTED AT THE RATE OF ONE LOCATION PER ALLOTMENT AT THE FOLLOWING INTERVALS
- TOTAL DEPTH LESS THAN 300mm: -NO TEST REQUIRED
  - TOTAL DEPTH OF FILL 300mm - 600mm: -ONE(1) TEST PER ALLOTMENT
  - TOTAL DEPTH EXCEEDING 600mm: -ONE(1) TEST IN THE FIRST LAYER THEN -ONE(1) TEST ON EACH ALTERNATIVE LAYER PLACED OVER THE FIRST LAYER

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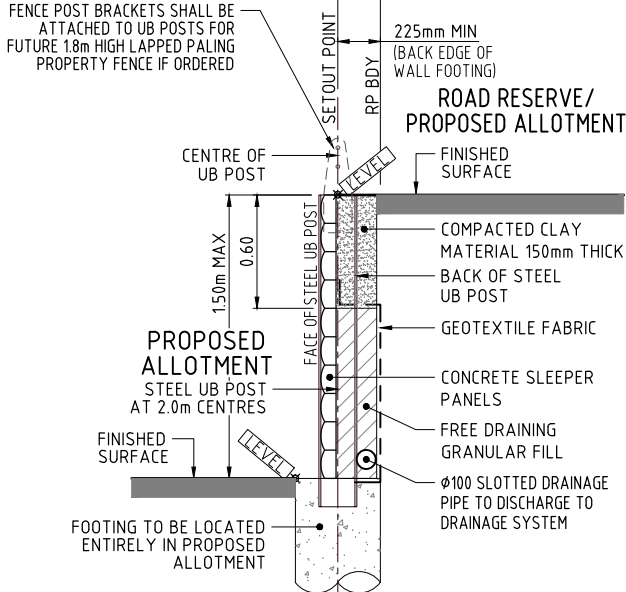
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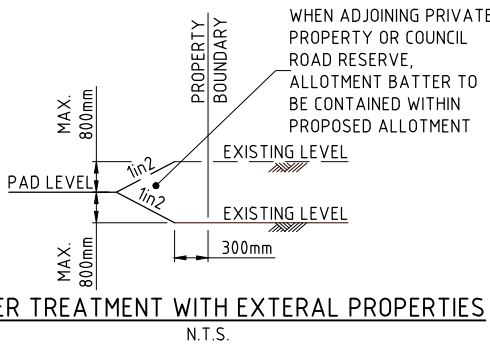
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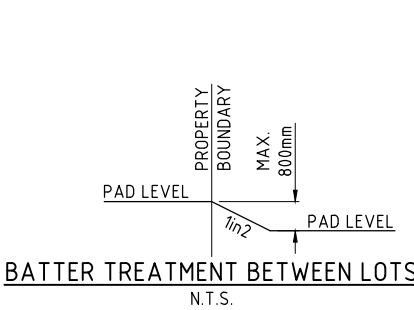


TYPICAL SECTION - TYPE A2  
CONCRETE SLEEPER/UB POST RETAINING WALL

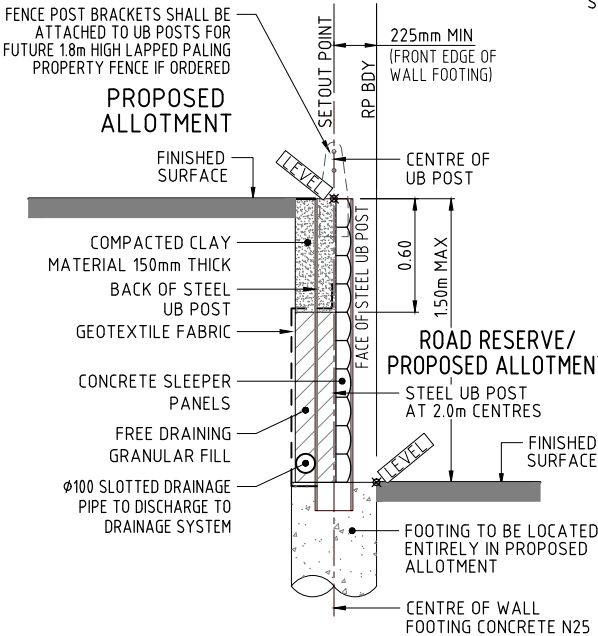
SCALE 1:20  
NOTE: RETAINING WALL DESIGN (INCLUDING FENCE POST BRACKETS AND FITTINGS) AND CONSTRUCTION CERTIFICATION TO INCORPORATE LOADING FROM FUTURE 1.8m HIGH LAPPED PALING PROPERTY FENCE



BATTER TREATMENT WITH EXTERNAL PROPERTIES



BATTER TREATMENT BETWEEN LOTS



TYPICAL SECTION - TYPE A3  
CONCRETE SLEEPER/UB POST RETAINING WALL

SCALE 1:20  
NOTE: RETAINING WALL DESIGN (INCLUDING FENCE POST BRACKETS AND FITTINGS) AND CONSTRUCTION CERTIFICATION TO INCORPORATE LOADING FROM FUTURE 1.8m HIGH LAPPED PALING PROPERTY FENCE

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