


DENOTES OVERLAND FLOW PATH

OVERALL SITE PLAN
SCALE 1:500

FOR INFORMATION
NOT FOR CONSTRUCTION

C	OVERLAND FLOW PATH ADDED	PG	18/06/20
B	ISSUE FOR DA	PG	12/06/20
A	PRE-DA DOCUMENTATION	-	26/05/20
ISSUE	DESCRIPTION	APPROVED	DATE

CLIENT



ARCHITECT

CALDERFLOWER
architecture

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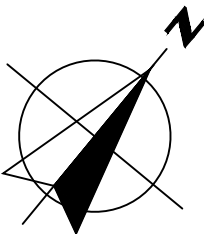


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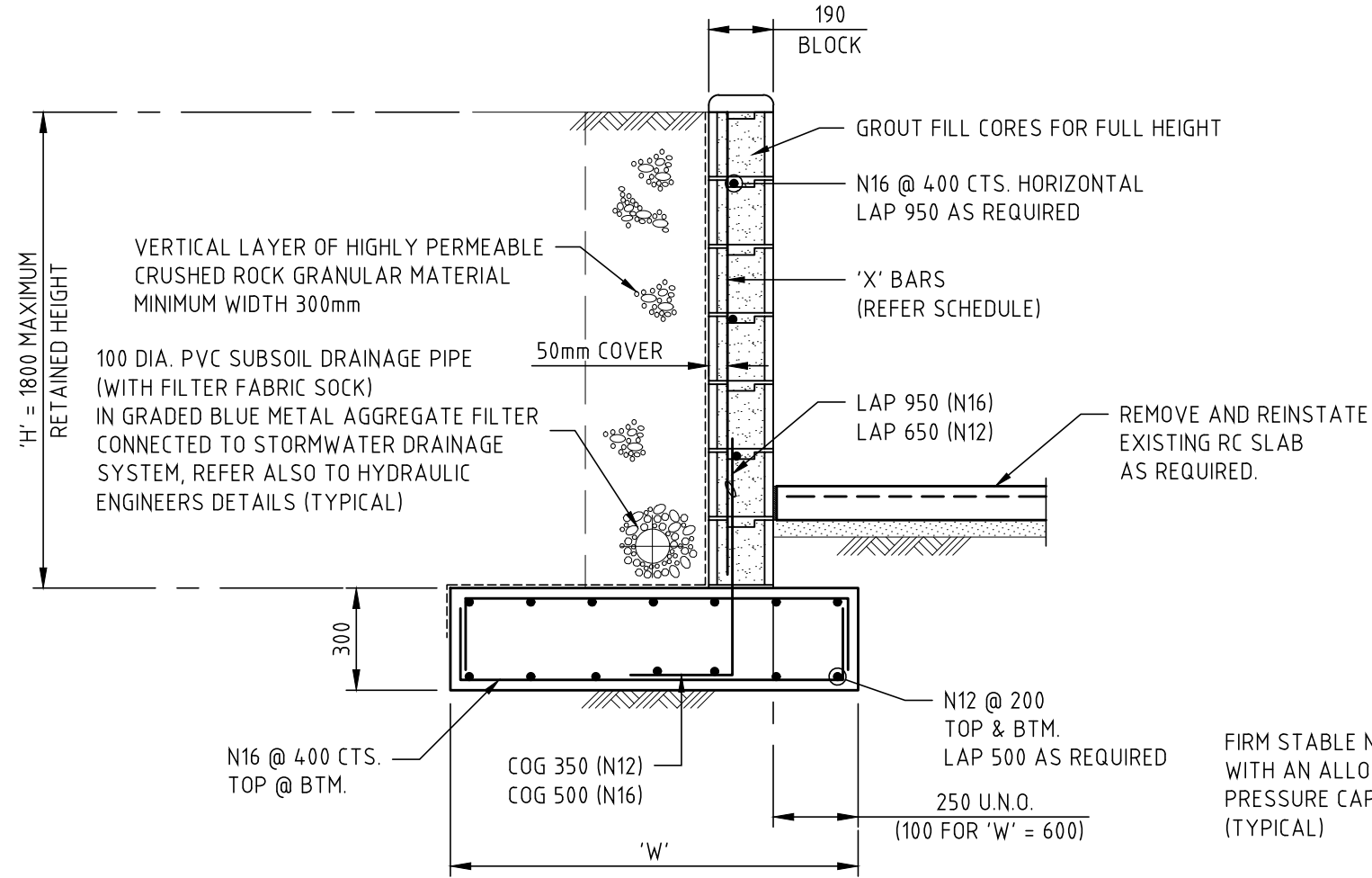
PROJECT
Residential Aged Care Facility
7 Martin Close & 42 Stronach Avenue,
East Maitland, NSW 2323

TITLE
OVERALL SITE PLAN

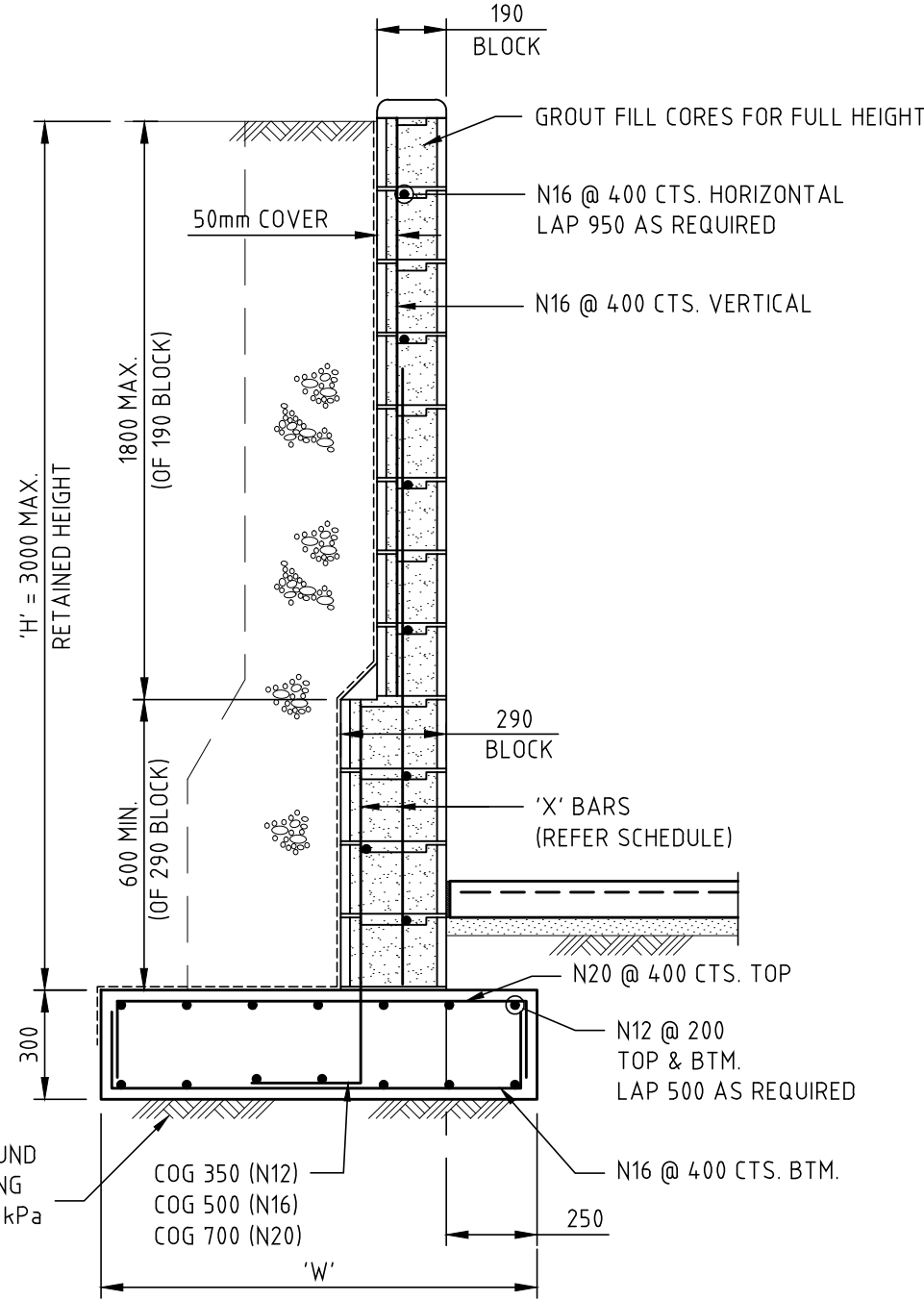
SCALES		DATE	
as noted @ A1		APR, 2020	
DRAWN	DESIGN	VERIFIED	APPROVED
CKE	CA / PG	CA	PG
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ISSUE	PROJECT No.	DRAWING No.	
C	191030	SW.02	



BLOCK RETAINING WALL 'RW1' SCHEDULE			
WALL TYPE	WALL HEIGHT 'H'	FOOTING WIDTH 'W'	REINFORCEMENT 'X' BARS
'B'	2400 - 3000	2200	N20@200 CTS.
	1800 - 2400	1800	N20@400 CTS.
'A'	1400 - 1800	1200	N16@400 CTS.
	1000 - 1400	1000	N16@400 CTS.
	750 - 1000	800	N12@400 CTS.
	UP TO 750	600	N12@400 CTS.

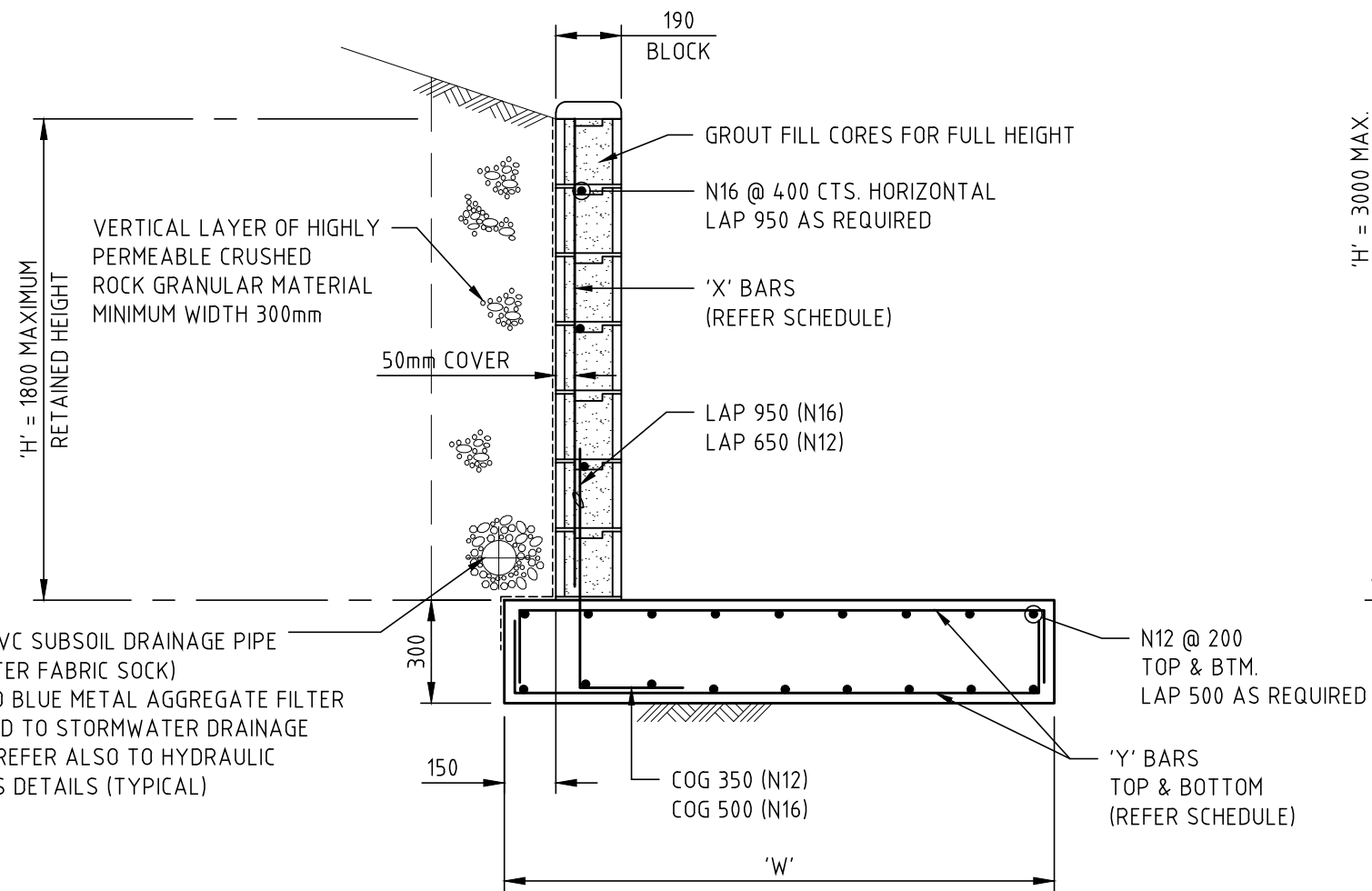


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SCALE 1:20

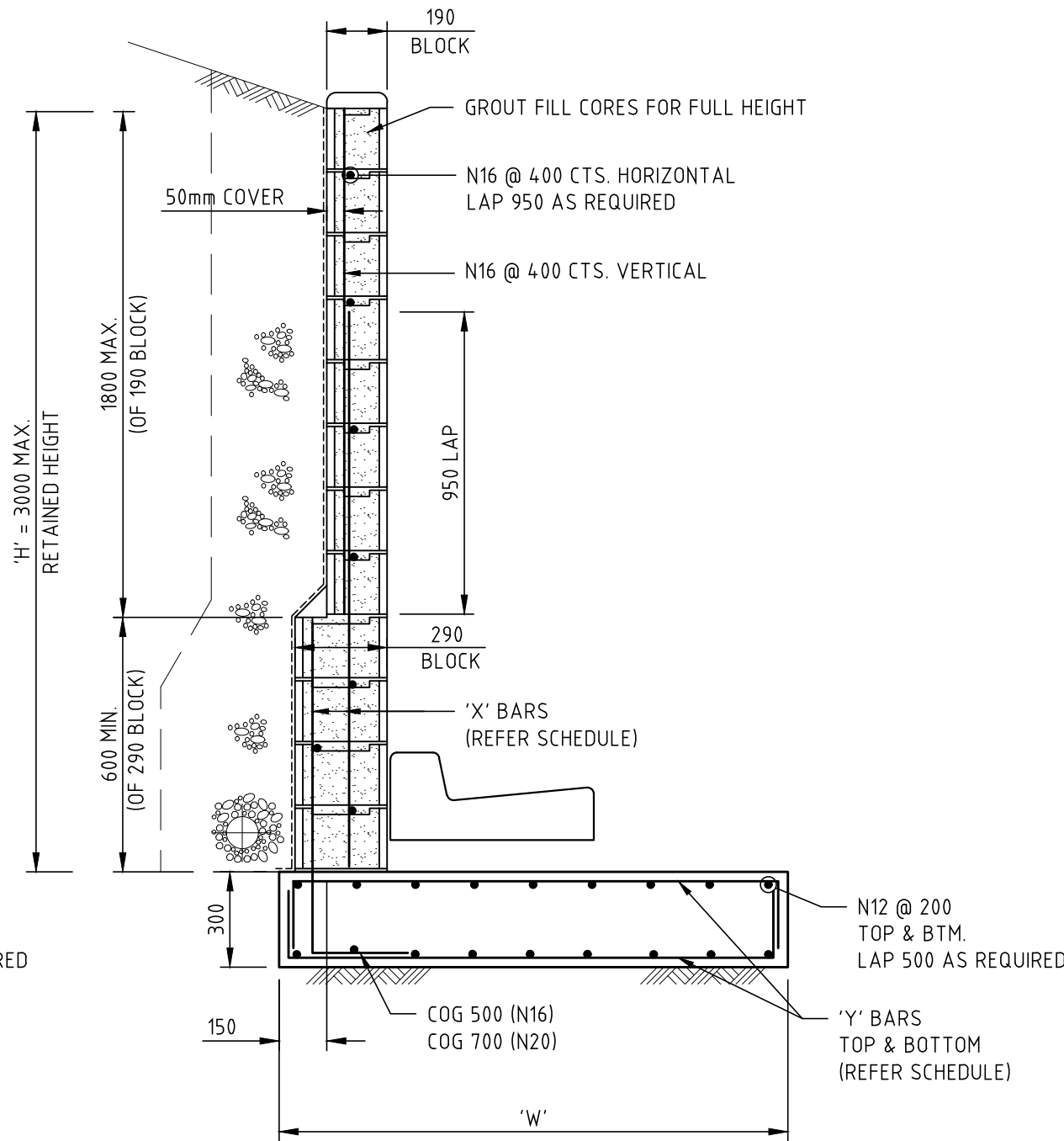


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SCALE 1:20
DETAILS AS SHOWN ON TYPE 'A' U.N.O.

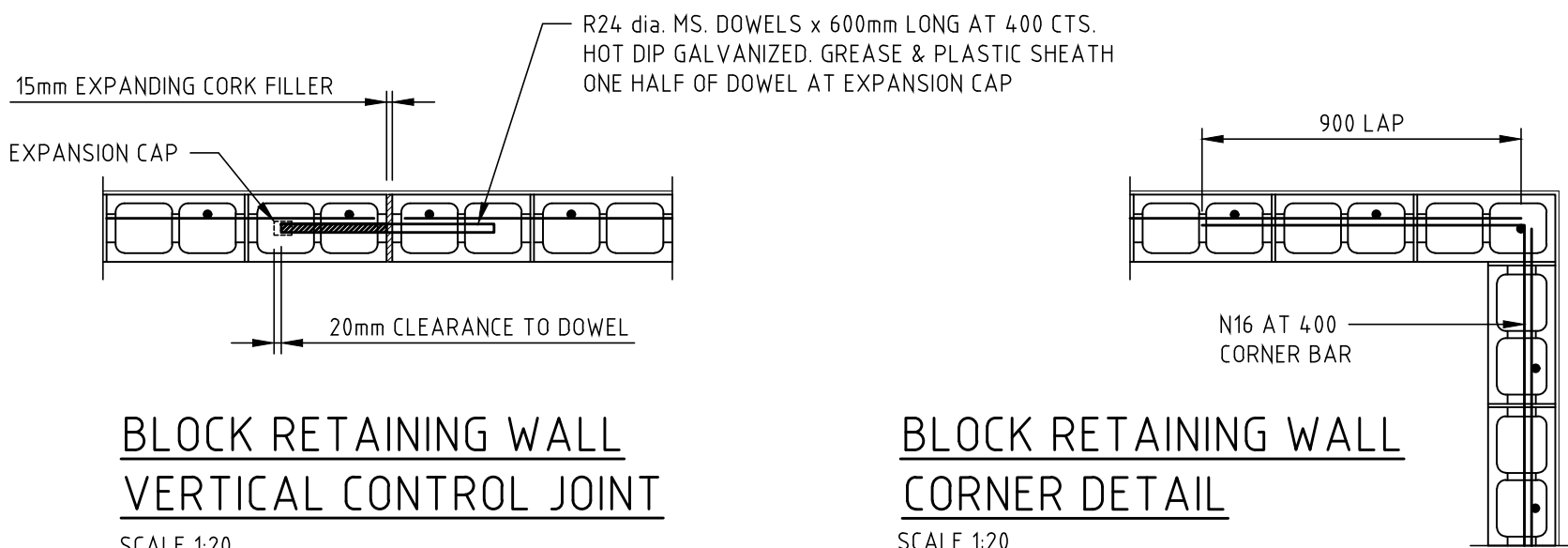
BLOCK RETAINING WALL 'RW2' SCHEDULE				
WALL TYPE	WALL HEIGHT 'H'	FOOTING WIDTH 'W'	REINFORCEMENT 'X' BARS	REINFORCEMENT 'Y' BARS
'B'	2400 - 3000	2600	N20 @ 200 CTS.	N20 @ 400 CTS.
	1800 - 2400	2000	N16 @ 400 CTS.	N16 @ 400 CTS.
'A'	1000 - 1800	1600	N16 @ 400 CTS.	N16 @ 400 CTS.
	UP TO 1000	1000	N12 @ 400 CTS.	N16 @ 400 CTS.



R.C. BLOCK RETAINING WALL TYPE 'A' - 'RW2'
SCALE 1:20

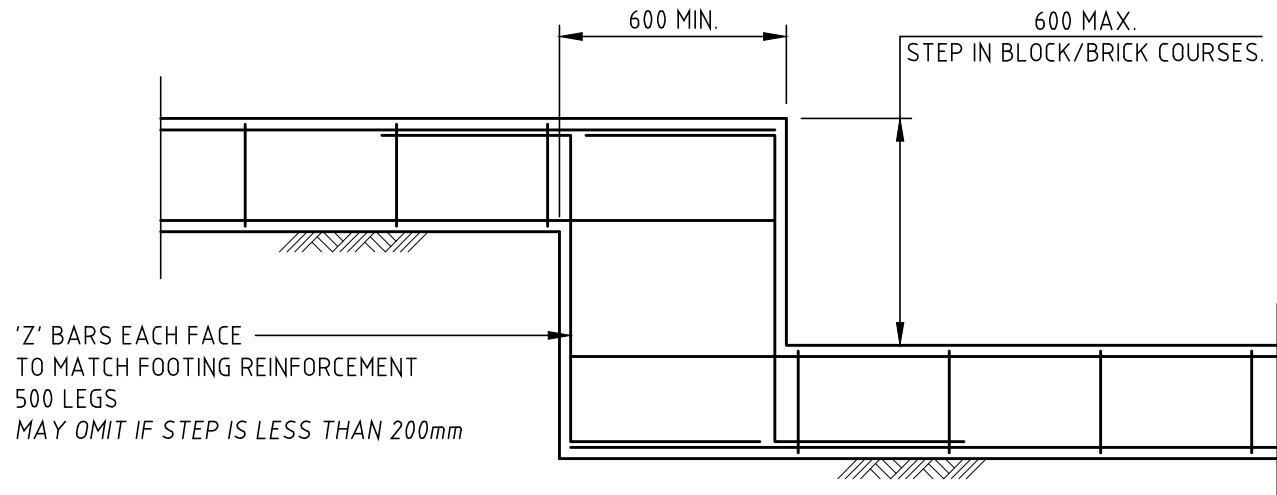


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SCALE 1:20
DETAILS AS SHOWN ON TYPE 'A' U.N.O.

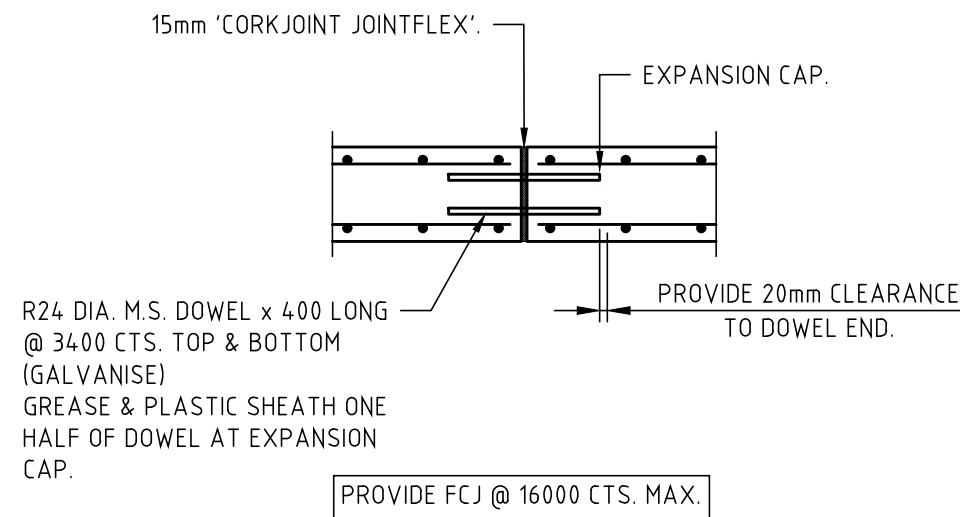


BLOCK RETAINING WALL VERTICAL CONTROL JOINT
SCALE 1:20
REFER TO ARCHITECT'S DRAWINGS FOR LOCATIONS
PROVIDE AT MAXIMUM 8000mm CTS.
5000mm FROM CORNERS U.N.O.

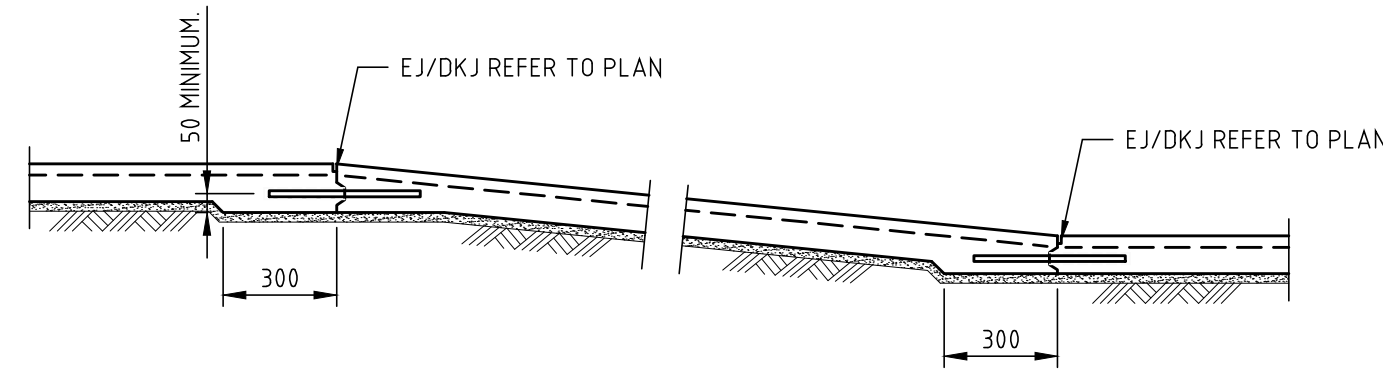
BLOCK RETAINING WALL CORNER DETAIL
SCALE 1:20



TYPICAL RETAINING WALL STRIP FOOTING STEP DETAIL
SCALE 1:20
USE AS REQUIRED TO SUIT GROUND CONDITIONS



TYPICAL RETAINING WALL FOOTING CONTROL JOINT FCJ DETAIL
SCALE 1:20



TYPICAL SECTION THROUGH RAMP
SCALE 1:20

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B A	ISSUE FOR DA PRE-DA DOCUMENTATION	PG -	12/08/20 26/05/20
ISSUE	DESCRIPTION	APPROVED	DATE

CLIENT
fresh hope
care

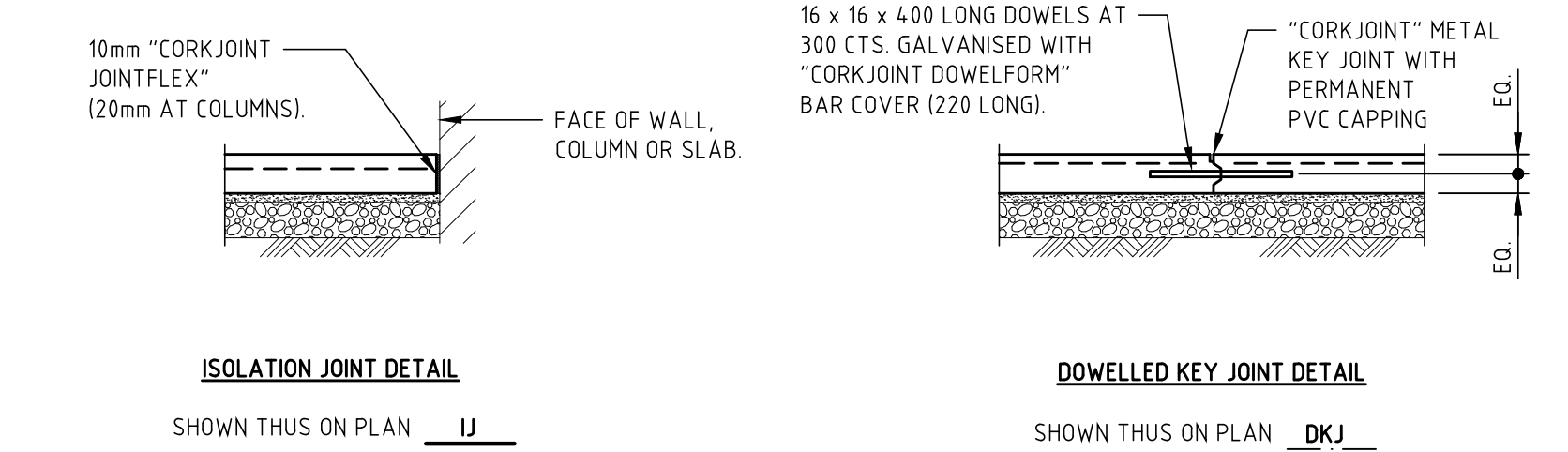
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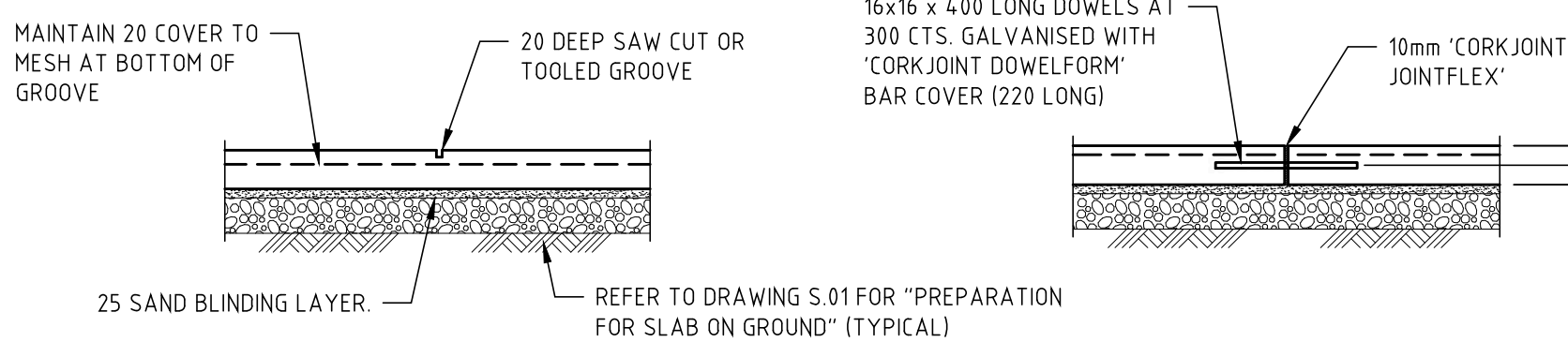
PROJECT
Residential Aged Care Facility
7 Martin Close & 42 Stronach Avenue,
East Maitland, NSW 2323

TITLE
CIVIL WORKS DETAILS
SHEET 01

SCALES as noted @ A1	DATE APR. 2020
DRAWN CKE	DESIGN CA / PG
VERIFIED CA	APPROVED PG
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ISSUE B	DRAWING No. 191030SW.12



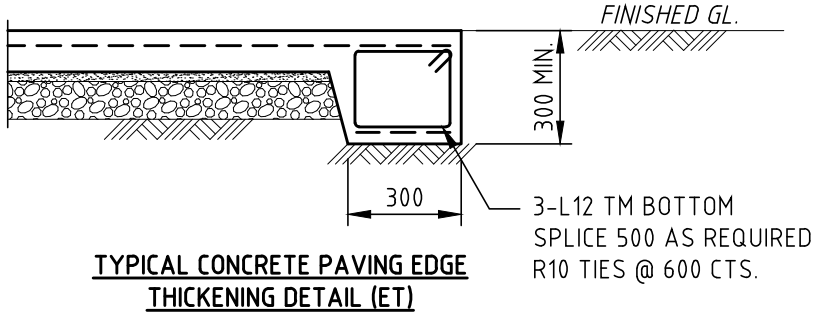
DOWELLED KEY JOINT DETAIL
SHOWN THUS ON PLAN _DKJ_



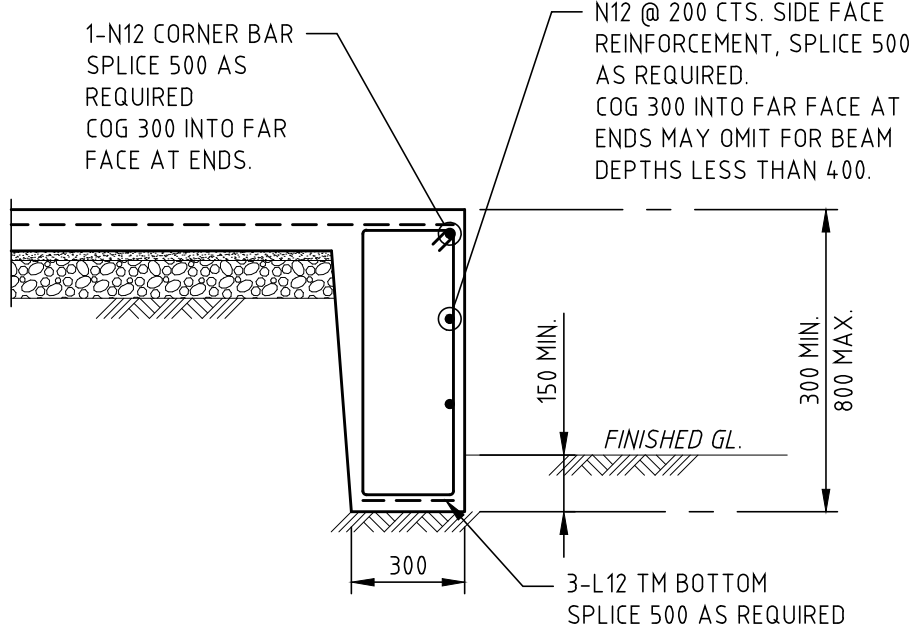
SAWN/TOOLED JOINT DETAIL
SHOWN THUS ON PLAN _SJ_

EXPANSION JOINT DETAIL
SHOWN THUS ON PLAN _EJ_

TYPICAL EXTERNAL CONCRETE FOOTPATH PAVEMENT JOINT DETAILS
SCALE 1:20
100mm THICK PAVING SLABS WITH SL92 MESH TOP THROUGHOUT U.N.O.

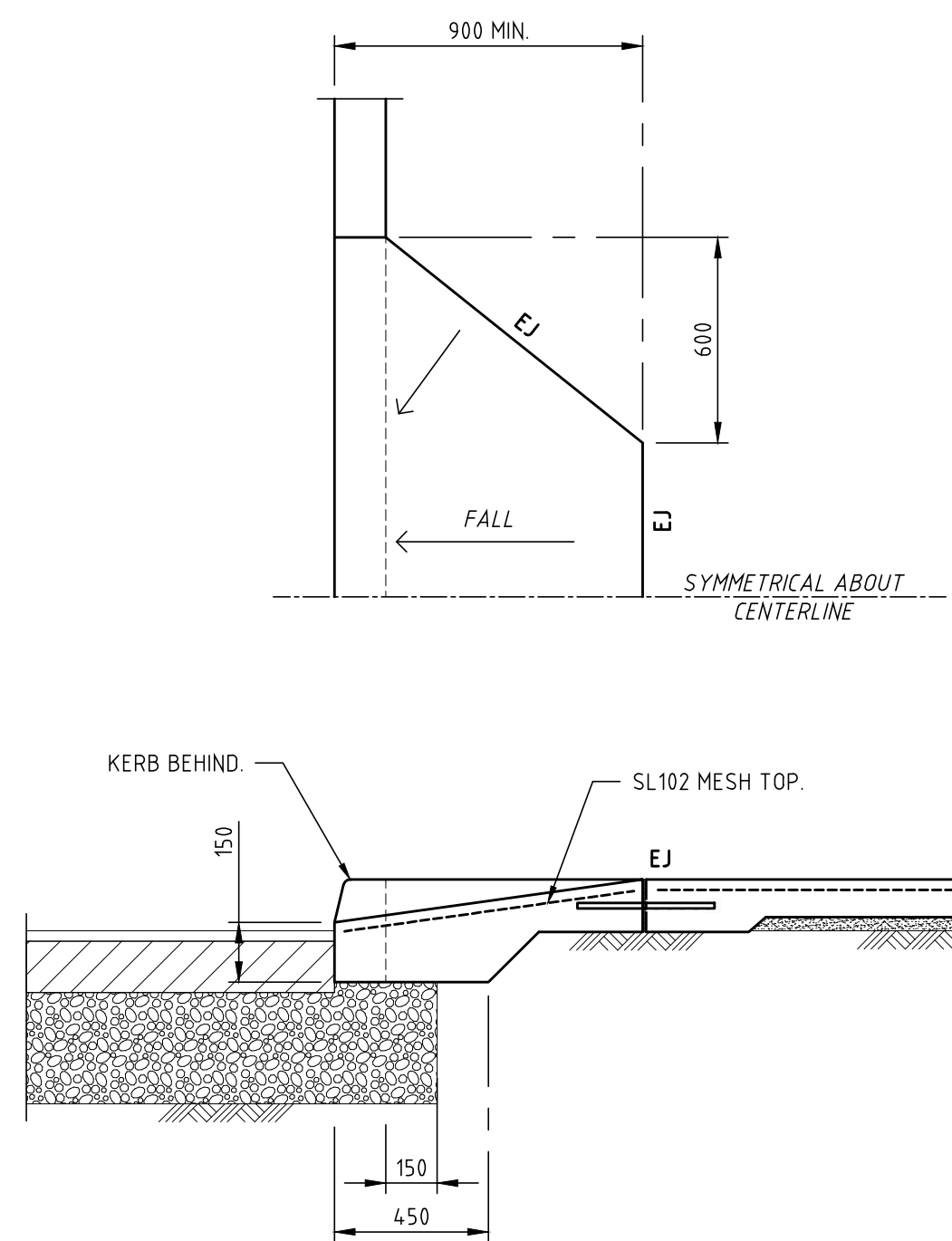


TYPICAL CONCRETE PAVING EDGE THICKENING DETAIL (ET)
SHOWN THUS ON PLAN _ET_

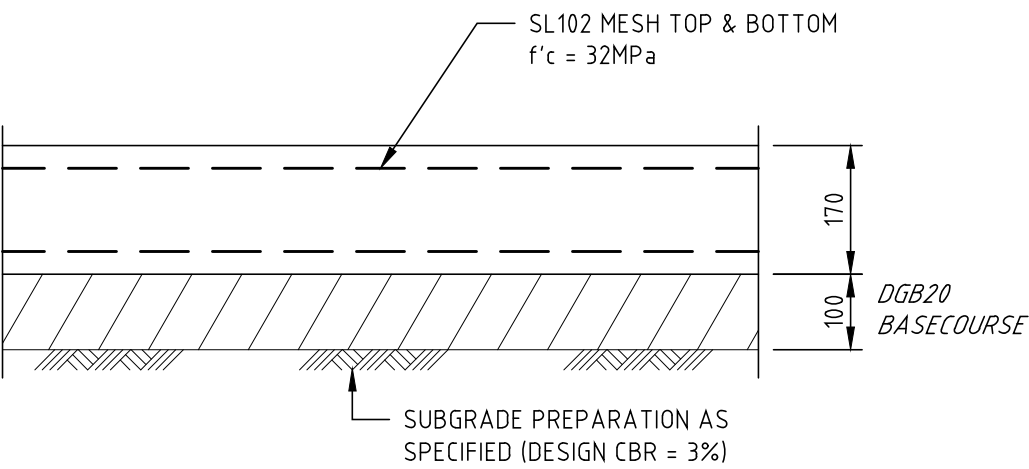


TYPICAL CONCRETE PAVING EDGE THICKENING DETAIL (ET1)
SHOWN THUS ON PLAN _ET1_

SAW CUTTING TABLE	
DAILY MAXIMUM TEMP. (°C)	LATEST TIME FOR SAWING (HOURS)
< 10	48
10 - 20	36
20 - 30	24
> 30	12

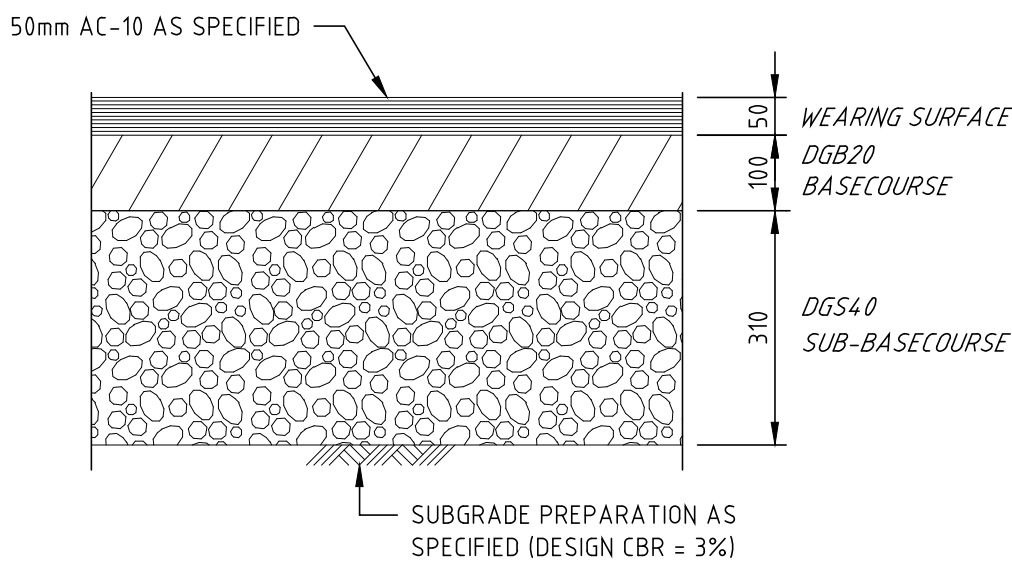


TYPICAL PEDESTRIAN ACCESS RAMP (PRAM RAMP) DETAILS
SCALE 1:20



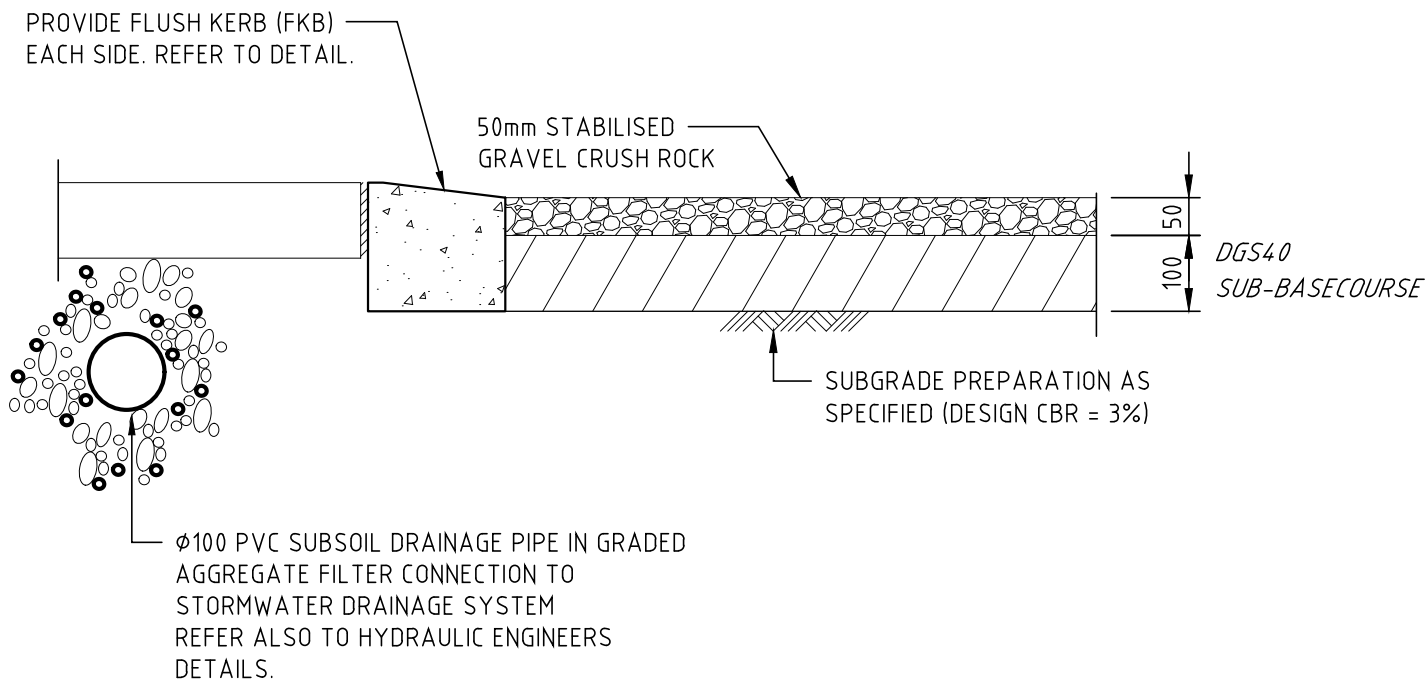
TYPICAL CONCRETE DRIVEWAY PAVEMENT SECTION

SCALE 1:10
DESIGN TRAFFIC LOADING = 2x10⁵ ESA



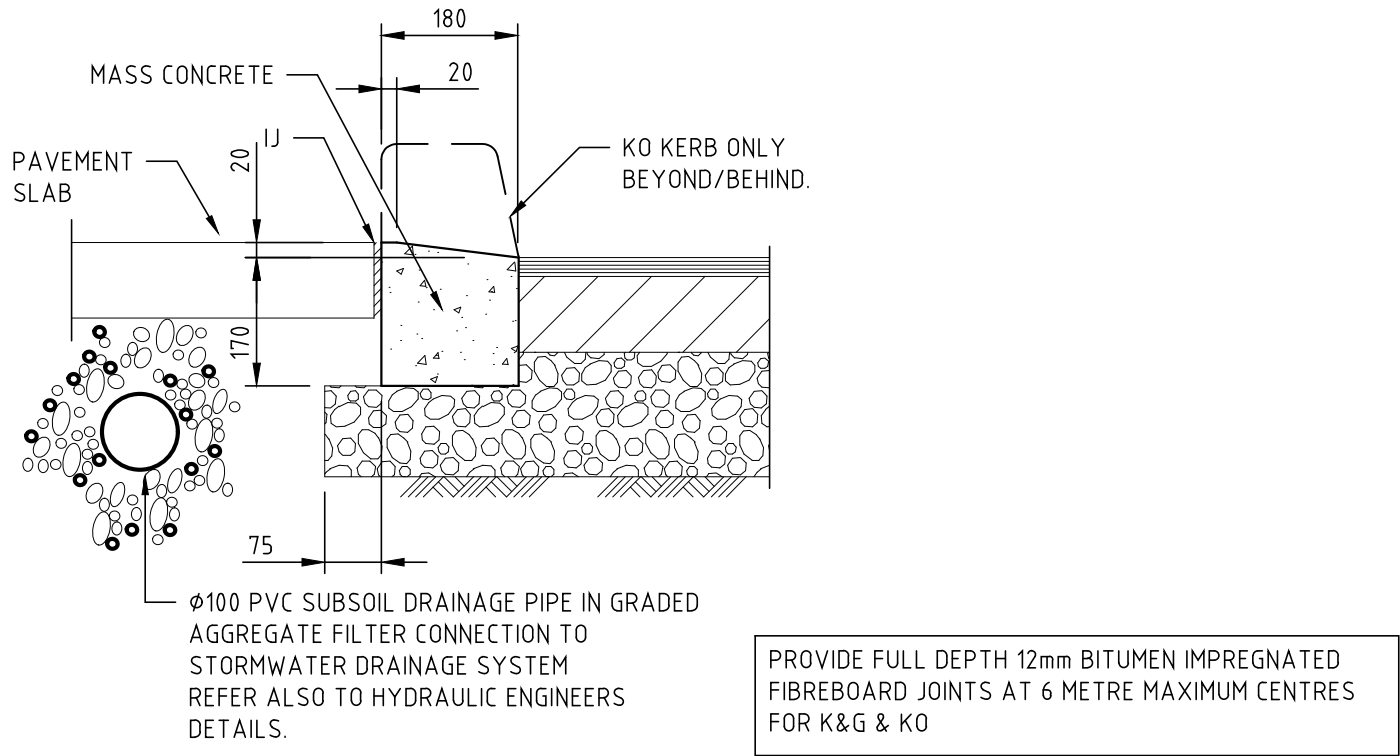
TYPICAL FLEXIBLE PAVEMENT SECTION

SCALE 1:10
DESIGN TRAFFIC LOADING = 6x10⁶ ESA



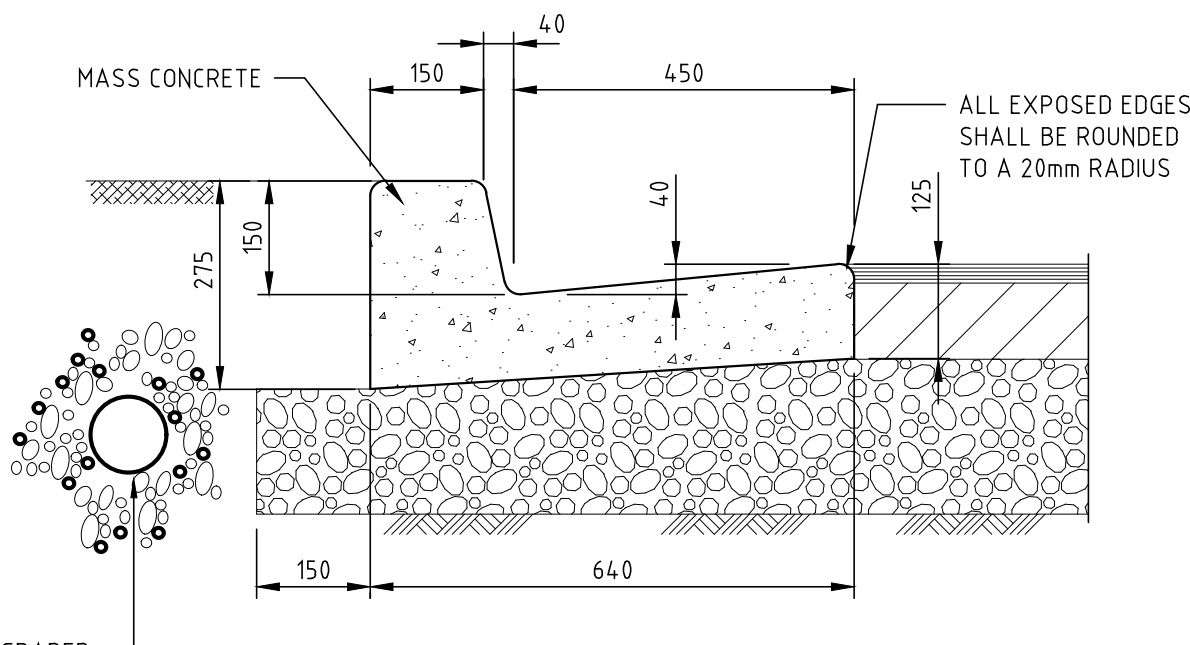
TYPICAL MAINTENANCE TRACK SECTION

SCALE 1:10



TYPICAL FKB FLUSH KERB DETAIL

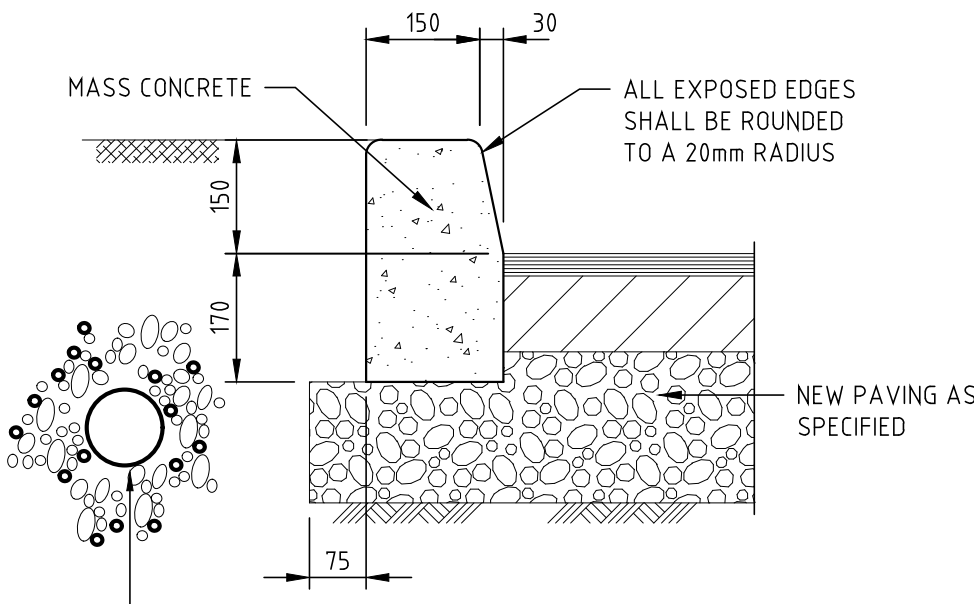
SCALE 1:10



TYPICAL 'KG' KERB & GUTTER DETAIL

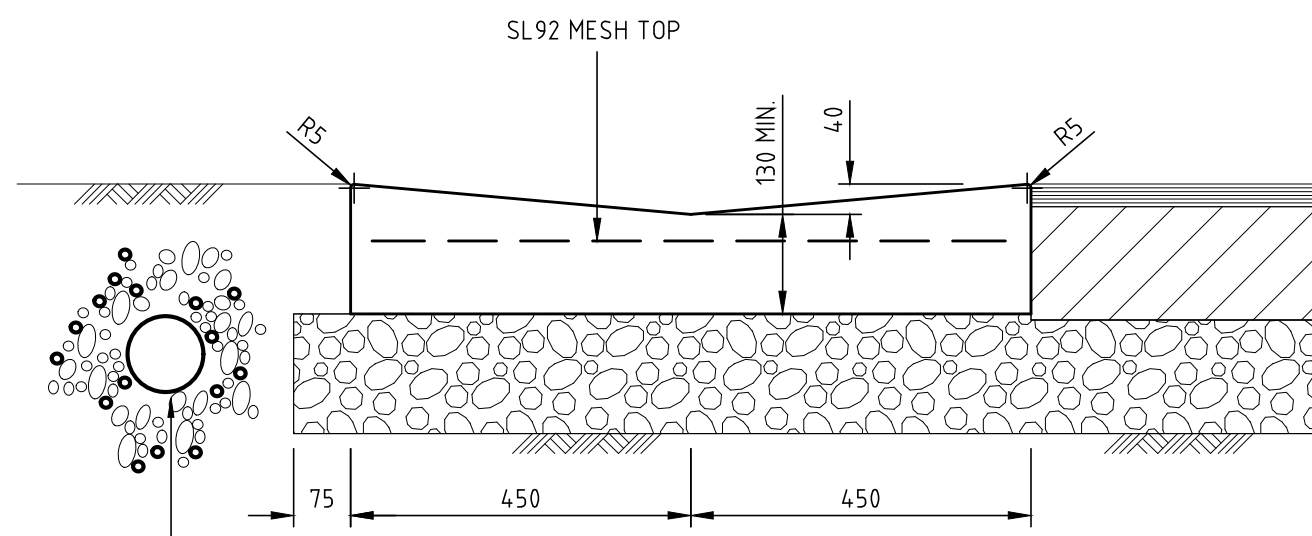
SCALE 1:10

DENOTED 'KG' ON PLAN
PROVIDE FULL DEPTH 12mm BITUMEN IMPREGNATED FIBREBOARD JOINTS AT 6 METER MAXIMUM CENTRES



TYPICAL 'KO' KERB ONLY DETAIL

SCALE 1:10



'V' DRAIN DETAIL

SCALE 1:10

PROVIDE FULL DEPTH 12mm BITUMEN IMPREGNATED FIBREBOARD JOINTS AT 6 METRE MAXIMUM CENTRES U.N.O.

SPECIFICATION FOR CONSTRUCTION OF ROAD PAVEMENT

- All work to be in accordance with the Specification.

SUBGRADE

- Clear the area to be occupied by the pavement and its adjuncts. Break up and remove foundations, slabs, paving etc. found on the surface or within 300mm of the basecourse. Remove all topsoil and organic matter and grub out all roots and stumps. Remove all rubble remaining from excavations.
- The subgrade material (natural ground below excavations) shall be thoroughly compacted by proof rolling with a minimum of 8 passes of a 10 tonne dead weight static smooth drum roller. This proof rolling shall be inspected by the geotechnical engineering consultant, to determine the extent of replacement of any unsuitable material encountered. The cost of all such work shall be deemed to be included in the Contractors tender.
- Any soft, yielding, organic or other unsuitable material in the subgrade shall be removed for a depth of at least 300mm and holes so formed shall be filled with approved filling compacted in 150mm layers as specified below.
- Bring all filling on to the site unless it can be provided from spoil recovered from the site. Filling shall be sound clean stable material, free of perishable material or any other material that will not form stable fill. The fill material shall be capable of consolidation so that it is firm and unyielding throughout its depth.
- Place filling in layers not exceeding 200mm thick when measured loose. Bring filling to optimum moisture content (+/- 2%) by watering and compact each layer thoroughly and uniformly with a vibrating roller.
- Consolidate each layer of filling to obtain a uniform density of not less than 100% of the standard maximum dry density of the material as determined by AS1289.5.1.1.

SUBBASE

- The sub-basecourse layer shall consist of 310mm finished compacted thickness of crushed rock in accordance with RTA QA Specification 3051 and RTA QA Specification R71. The material used for this course shall be a Class 2 DGS 40 in accordance with the aforementioned standards.

Design Original Subgrade CBR = 3.0%
Design Traffic Loading = 6 x 10⁶ ESA

BASE

- The basecourse layer shall consist of 100mm finished compacted thickness of crushed rock in accordance with RTA QA Specification 3051 and RTA QA Specification R71. The material used for this course shall be Class 1 DGB 20 in accordance with the aforementioned standards.

WEARING SURFACE

- The wearing surface course shall be provided with an initial two coat hot bitumen seal.
- The wearing surface course shall be a 50mm compacted thickness of 25mm asphaltic concrete laid on the two coat seal in accordance with RTA QA Specification R116.

TESTING

- The Contractor shall allow for testing at the rate of one test per 100 square metres of surface area for each of the following finished surfaces, with a minimum of three tests for each compacted layer.
 - Subgrade
 - Sub-basecourse
 - Basecourse
- The Contractor shall allow for testing at the rate of one test per 30 cubic metres for the filling, with a minimum of three tests for each compacted layer.
- The location of all tests shall be to the approval of the Superintendent.
- The Contractor shall obtain from a registered N.A.T.A. testing authority documented test evidence proving that the compaction figures as required for the materials specified herein have been obtained. The cost of such work shall be deemed to be included in the Contractor's Tender. Test results for each stage (i.e. subgrade, subbase, basecourse and fill where applicable) to be submitted to the Superintendent prior to proceeding to the next stage of the works.

GENERAL

- These civil drawings shall be read in conjunction with all architectural and other consultant's drawings and specifications and with such other written instructions as may be issued during the course of the contract. Any discrepancy shall be referred to the Superintendent before proceeding with the work.
- All materials and workmanship shall be in accordance with the relevant current Standards Australia Codes and with the Building Code of Australia.
- All dimensions shown on these civil drawings shall be verified by the Contractor on site. These structural drawings shall not be scaled for dimensions.
- The method of construction and the maintenance of safety during construction is the responsibility of the Contractor. If any structural element presents difficulty in respect of constructability or safety, the matter shall be referred to the Structural Engineer for resolution before proceeding with the work.
- During construction the structure shall be maintained in a stable condition and no part shall be overstressed. The design, installation and maintenance of all temporary propping, bracing and shoring shall be provided by the Contractor to keep the works and excavations stable at all times. The cost of all such work shall be deemed to be included in the Contractor's tender.

PREPARATION FOR SLAB ON GROUND

- Clear the area to be occupied by the pavement and its adjuncts. Break up and remove slabs, foundations, paving, etc. found on the surface or within 300mm of the basecourse. Remove all topsoil and organic matter and grub out all roots and stumps. Remove all rubble remaining from excavations.
- The subgrade material (natural ground below the excavations) shall be thoroughly compacted by proof rolling with a minimum of 8 passes of a 10 tonne dead weight roller. This proof rolling shall be inspected by an approved geotechnical engineering consultant, engaged by the contractor, to determine the extent of replacement of any unsuitable material. The cost of these inspections shall be deemed to be included in the contractors tender.
- Any soft, yielding, organic or other unsuitable material in the subgrade shall be removed for a depth of at least 300mm and holes so formed shall be filled with approved filling compacted in 150mm layers as specified below.
- Bring all filling on to the site unless it can be provided from spoil recovered from the site. Filling shall be sound clean stable material free of perishable material or any other material that will not form stable fill. The fill material shall be capable of consolidation so that it is firm and unyielding throughout its depth.
- Place filling in layers not exceeding 200mm thick when measured loose. Bring filling to optimum moisture content (+/- 2%) by watering and compact each layer thoroughly and uniformly with a vibrating roller where practicable. Hand tamp in areas not accessible to a vibrating roller.
- For the backfilling of localised excavations lightweight compaction equipment is to be used and filling placed in layers not exceeding 100mm thick when measured loose.
- Consolidate each layer of filling to obtain a uniform density strictly between 98% and 102% of the standard maximum dry density of the material as determined by AS2159.5.1.1.
- The basecourse layer (directly below the slab) shall consist of 100mm finished compacted thickness of crushed rock blinded with 25mm of sand.
- The basecourse material shall be clean, tough, durable and free of any weathered or disintegrated stone, clay, organic matter or any other deleterious materials.
- The crushed rock shall be compacted with approved equipment to obtain a uniform density of not less than 100% of the standard maximum dry density of material as determined by AS1289.5.1.1.
- Finish the basecourse to the following tolerances:
 - Variation from design level - 5mm
 - Variation from 3000mm straight edge - 5mm
- All earthworks shall be carried out under Level 1 control as defined in AS3798.
- The Contractor shall allow for testing at the rate of one test per 200 square metres of surface area for each of the following finished surfaces, with a minimum of three tests for each compacted layer:
 - Subgrade
 - Basecourse (at surface of crushed rock)
- The Contractor shall allow for testing at the rate of one test per 30 cubic metres for the filling, with a minimum of three tests for each compacted layer.
- The location of all tests shall be to the approval of the Superintendent.
- The Contractor shall obtain approval from a registered N.A.T.A. testing authority documented test evidence proving that the compaction figures as required for the materials specified herein have been obtained. The cost of such work shall be deemed to be included in the Contractor's Tender.

FOR INFORMATION NOT FOR CONSTRUCTION

C	ISSUE FOR QA	PG	12/06/20
B	FLUSH KERB DETAIL ADDED	PG	02/06/20
A	PRE-DA DOCUMENTATION	-	26/05/20
ISSUE	DESCRIPTION	APPROVED	DATE

CLIENT



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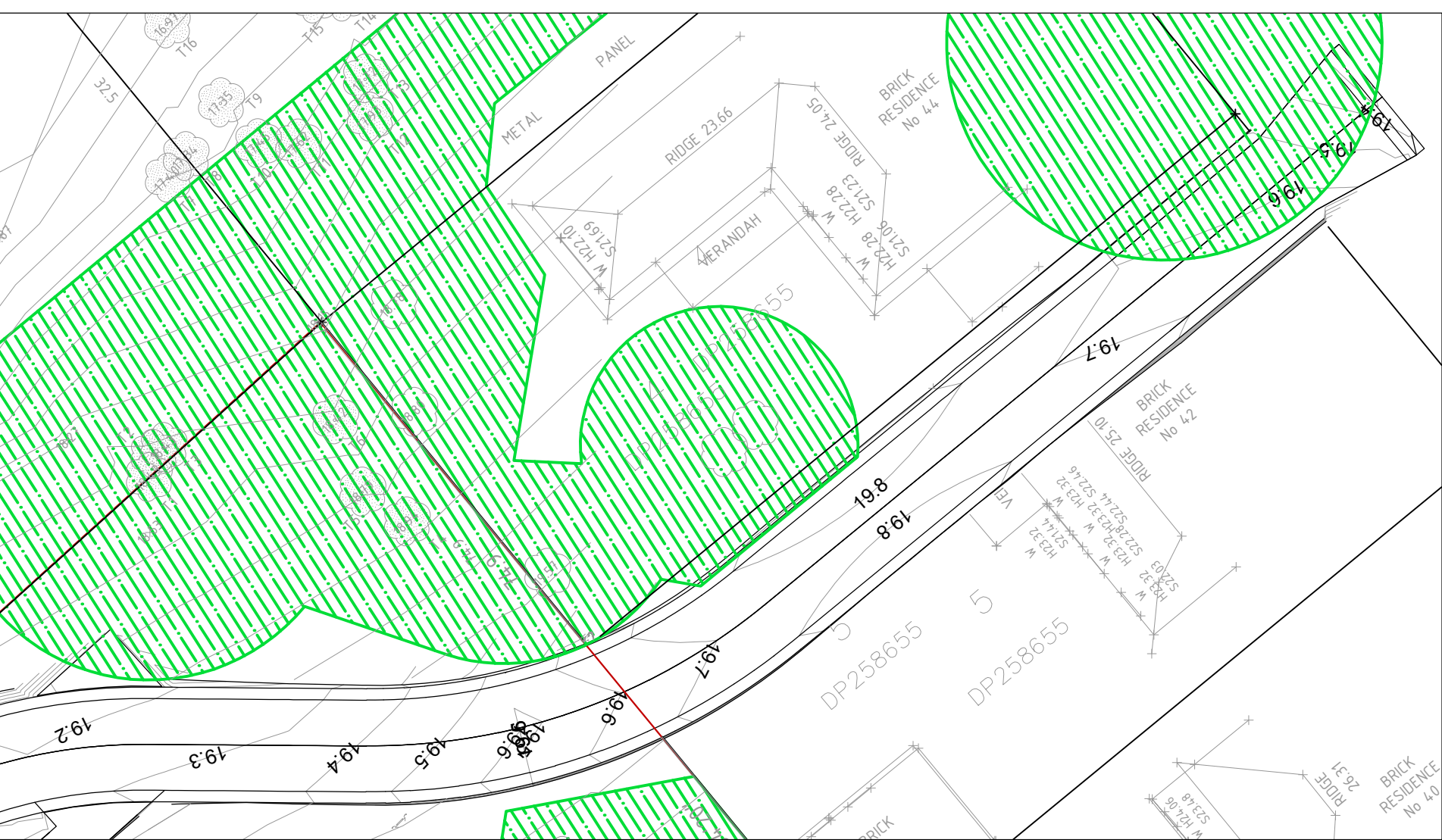


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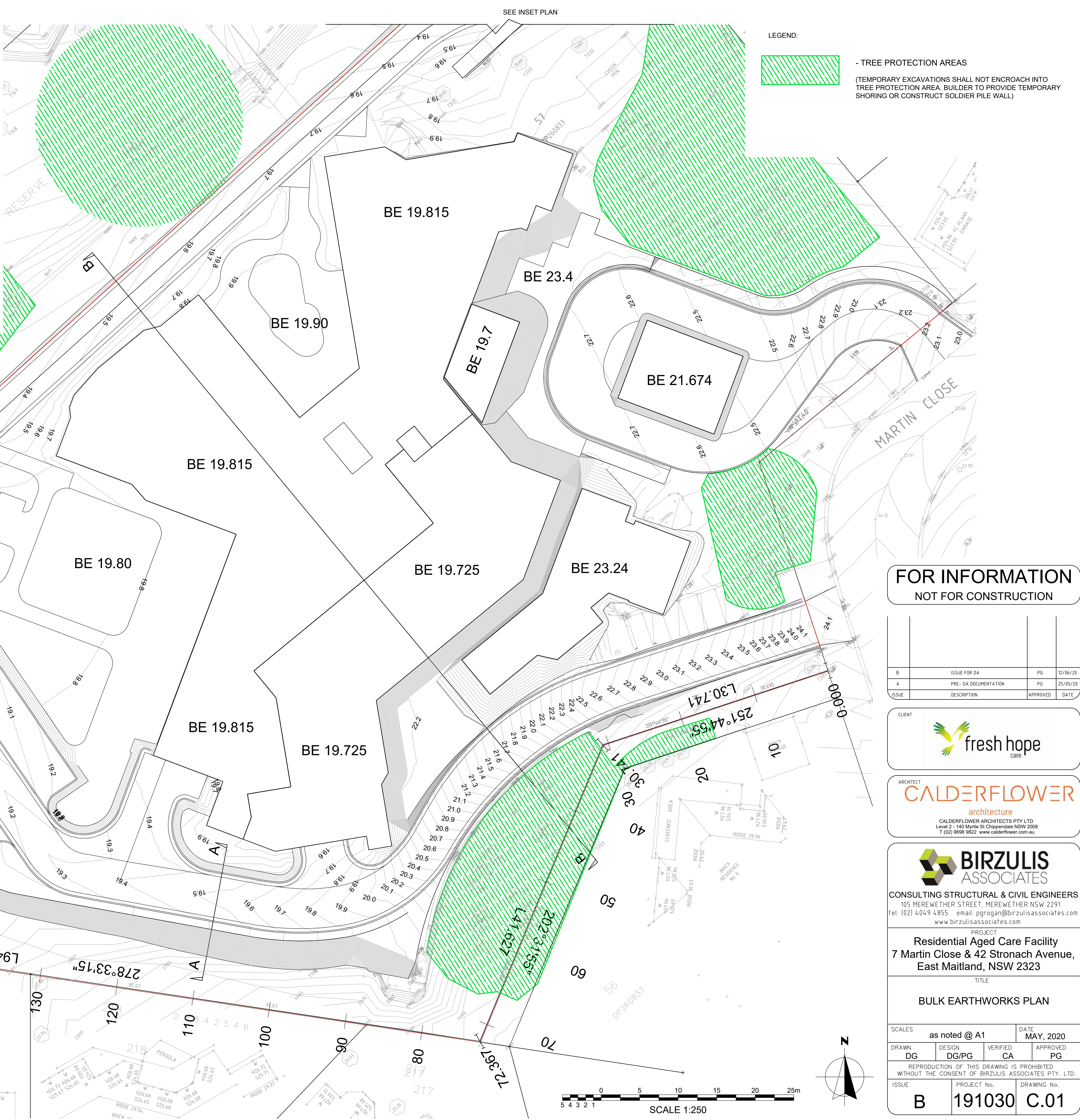
PROJECT
Residential Aged Care Facility
7 Martin Close & 42 Stronach Avenue,
East Maitland, NSW 2323

TITLE
CIVIL WORKS DETAILS
SHEET 02

SCALES	as noted @ A1	DATE	APR, 2020
DRAWN	DESIGN	VERIFIED	APPROVED
CKE	CA / PG	CA	PG
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ISSUE	PROJECT No.	DRAWING No.	
C	191030	SW.13	



INSET PLAN



LEGEND:

- TREE PROTECTION AREAS

(TEMPORARY EXCAVATIONS SHALL NOT ENCROACH INTO TREE PROTECTION AREA. BUILDER TO PROVIDE TEMPORARY SHORING OR CONSTRUCT SOLDIER PILE WALL)

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NOT FOR CONSTRUCTION

B	ISSUE FOR DA	PG	12/06/20
A	PRE- DA DOCUMENTATION	PG	25/05/20
	DESCRIPTION	APPROVED	DATE

CLIENT

ARCHITECT

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architecture

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PROJECT

Residential Aged Care Facility
7 Martin Close & 42 Stronach Avenue,
East Maitland, NSW 2323

TITLE































BULK EARTHWORKS PLAN

SCALES	as noted @ A1	DATE	MAY, 2020
DRAWN	DG	DESIGN	DG/PG
		VERIFIED	CA
		APPROVED	PG
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ISSUE	PROJECT No.	DRAWING No.	
B	191030	C.01	

NOTES:

1. CLASS IV/V BEDROCK MAY BE CUT VERTICAL IN LIEU OF 1H:1V SUBJECT TO REGULAR INSPECTIONS AND ADVICE BY THE GEOTECHNICAL CONSULTANT. INSPECTIONS SHALL BE CARRIED OUT AT 10M MAX CENTRES ALONG THE EXCAVATION FACE AND EVERY 1.5M DEPTH MAX OF EXCAVATION. THE COST OF THESE INSPECTIONS SHALL BE INCLUDED IN THE CONTRACTOR'S TENDER (TYPICAL)

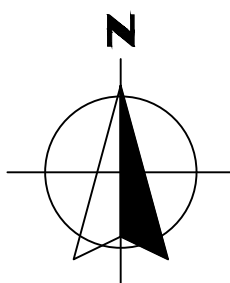
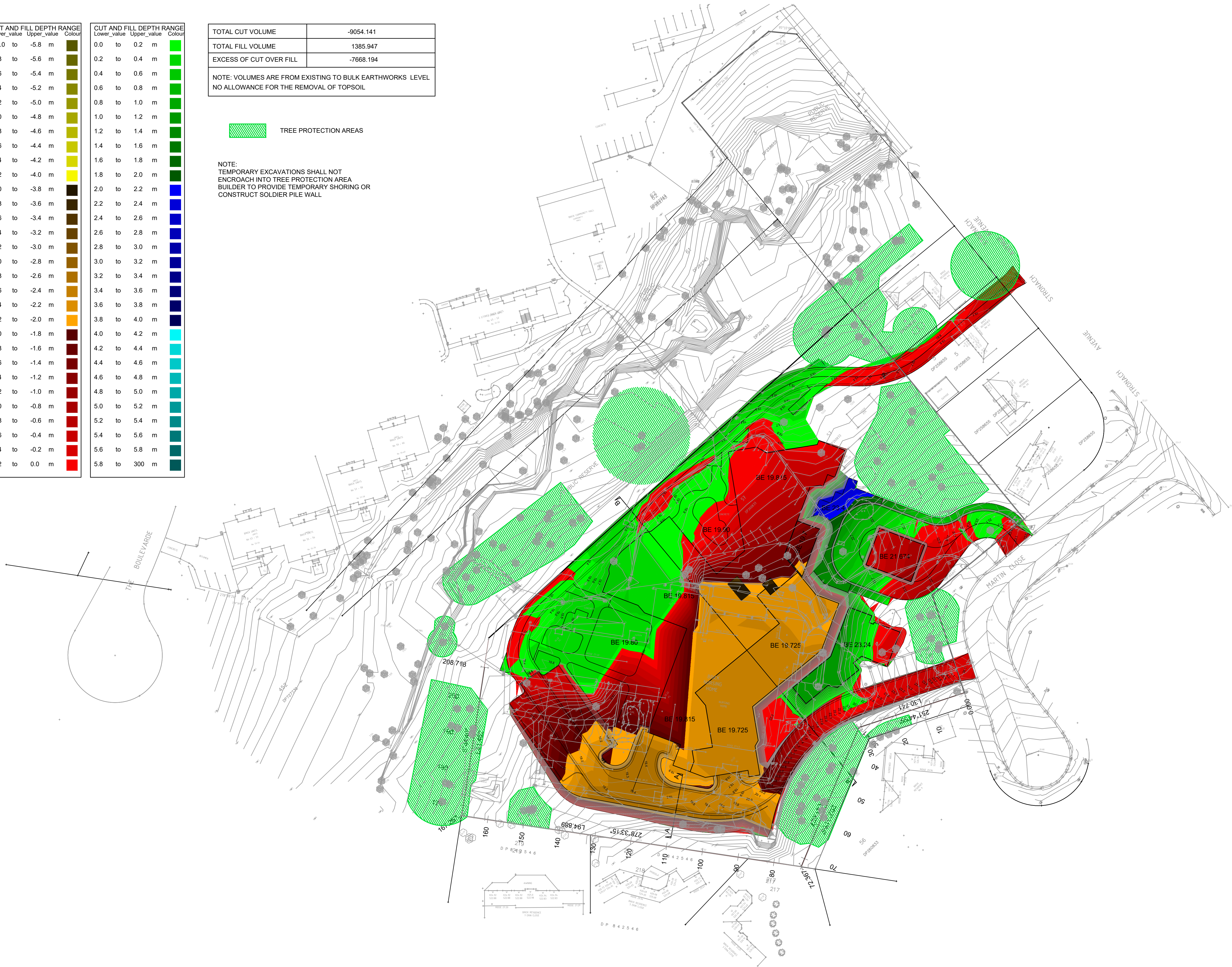
2. SHOULD ANY ADVERSE JOINTS OR DEFECTS BE PRESENT, THAN THE CONTRACTOR SHALL FOLLOW THE CONSTRUCTION METHODOLOGY OF THE GEOTECHNICAL CONSULTANT WITH APPROVAL FROM THE SUPERINTENDENT (TYPICAL)

TUNING AND FILL DEPTH RANGE				Colour
Lower_value		Upper_value		
0.0	to	0.2	m	
0.2	to	0.4	m	
0.4	to	0.6	m	
0.6	to	0.8	m	
0.8	to	1.0	m	
1.0	to	1.2	m	
1.2	to	1.4	m	
1.4	to	1.6	m	
1.6	to	1.8	m	
1.8	to	2.0	m	
2.0	to	2.2	m	
2.2	to	2.4	m	
2.4	to	2.6	m	
2.6	to	2.8	m	
2.8	to	3.0	m	
3.0	to	3.2	m	
3.2	to	3.4	m	
3.4	to	3.6	m	
3.6	to	3.8	m	
3.8	to	4.0	m	
4.0	to	4.2	m	
4.2	to	4.4	m	
4.4	to	4.6	m	
4.6	to	4.8	m	
4.8	to	5.0	m	
5.0	to	5.2	m	
5.2	to	5.4	m	
5.4	to	5.6	m	
5.6	to	5.8	m	
5.8	to	300	m	

TOTAL CUT VOLUME	-9054.141
TOTAL FILL VOLUME	1385.947
EXCESS OF CUT OVER FILL	-7668.194
NOTE: VOLUMES ARE FROM EXISTING TO BULK EARTHWORKS LEVEL NO ALLOWANCE FOR THE REMOVAL OF TOPSOIL	



NOTE:
TEMPORARY EXCAVATIONS SHALL NOT
ENCROACH INTO TREE PROTECTION AREA
BUILDER TO PROVIDE TEMPORARY SHORING OR
CONSTRUCT SOLDIER PILE WALL



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B	ISSUE FOR DA	PG	12/06/20
A	PRE- DA DOCUMENTATION	PG	25/05/20
ISSUE	DESCRIPTION	APPROVED	DATE

CLIENT



ARCHITECT

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CALDERFLOWER
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CALDERFLOWER ARCHITECTS PTY LTD
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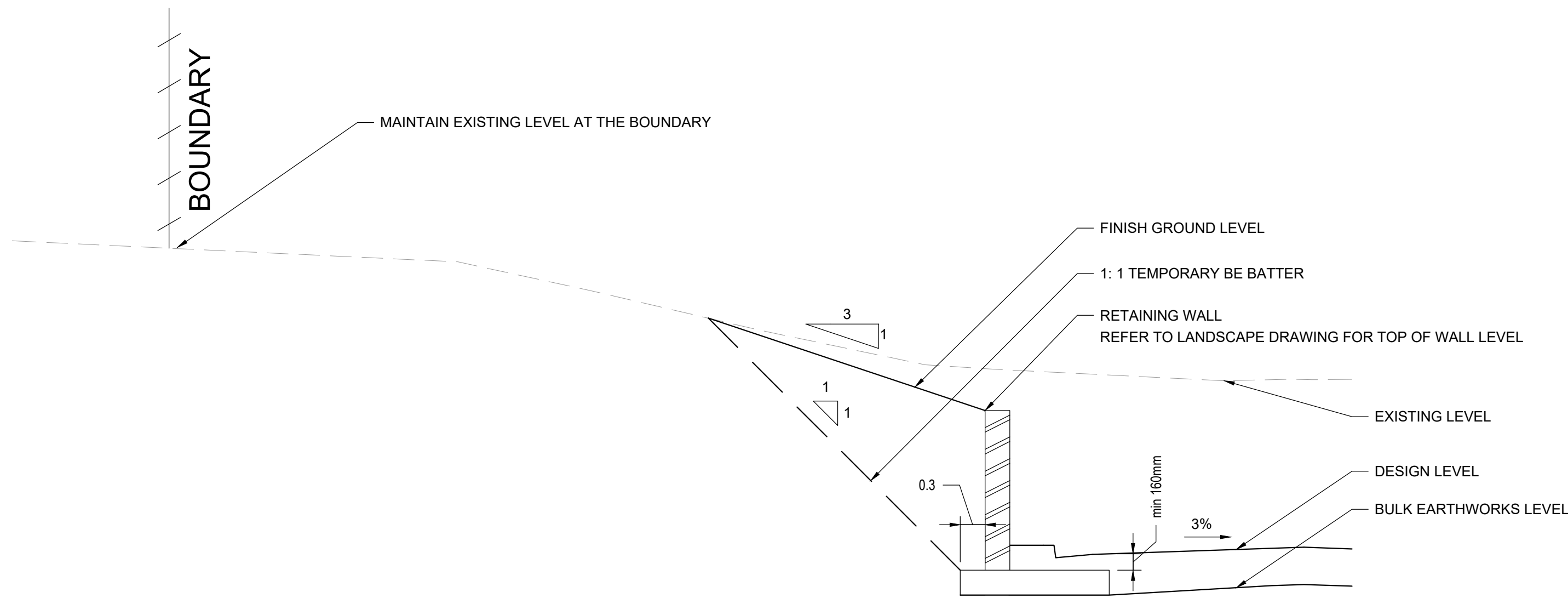
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tel: (02) 4049 4855 email: pgrogan@birzulisassociates.com
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PROJECT
Residential Aged Care Facility
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East Maitland, NSW 2323

TITLE

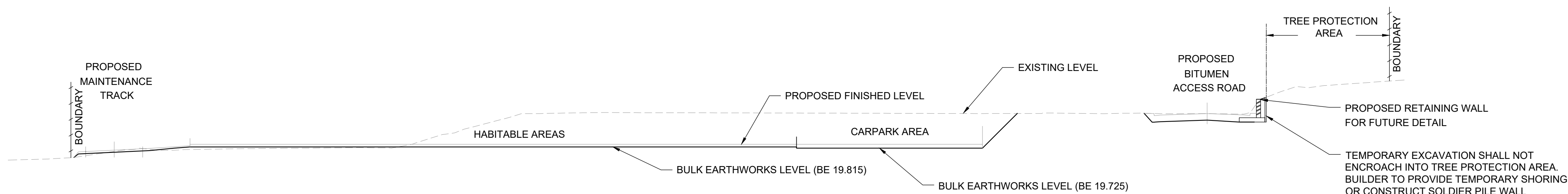
BULK EARTHWORKS
CUT AND FILL PLAN

SCALES		as noted @ A1		DATE MAY, 2020	
DRAWN DG		DESIGN DG/PG		VERIFIED - APPROVED -	
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ISSUE B		PROJECT No. 191030		DRAWING No. C.02	



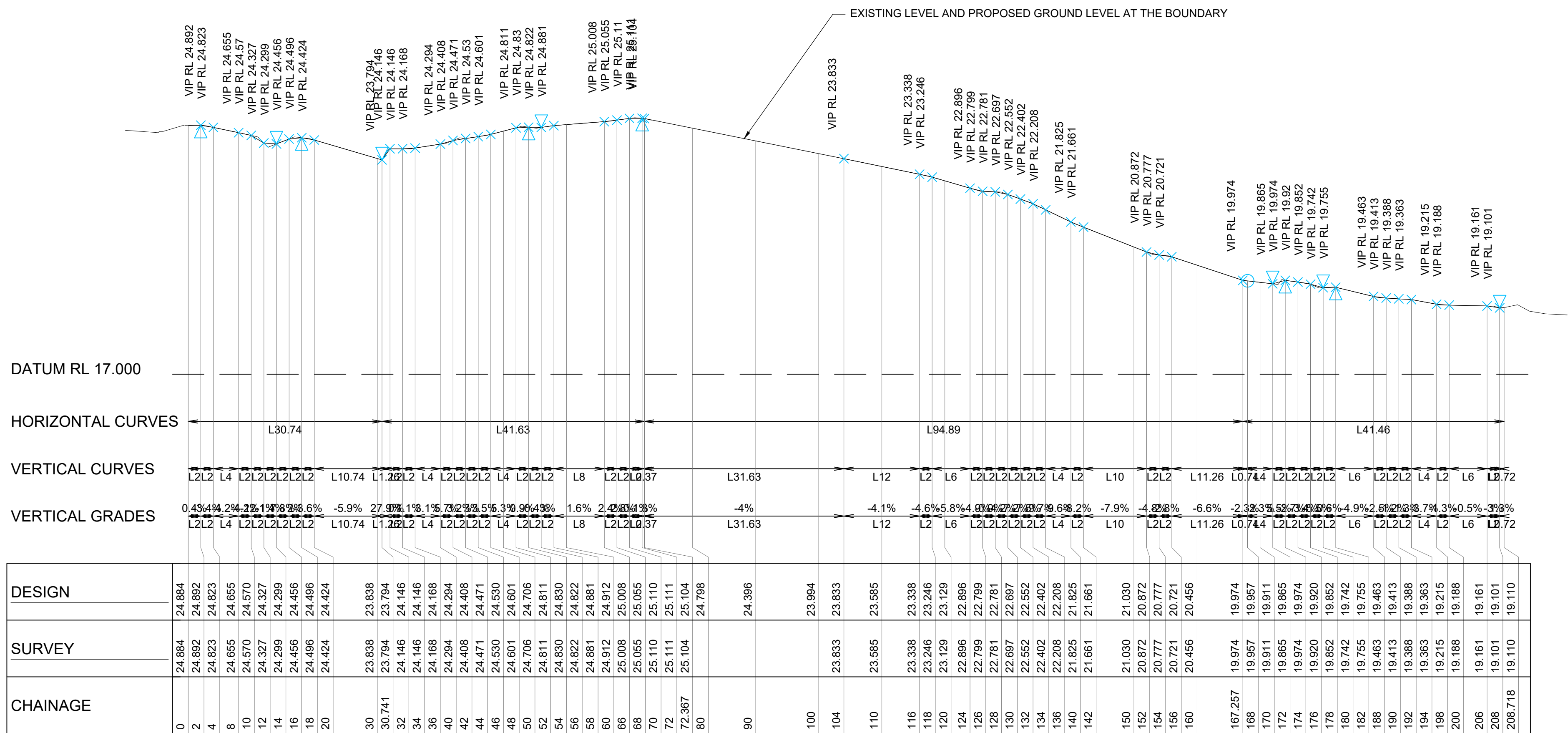
SECTION THRU A-A

SCALE 1:50



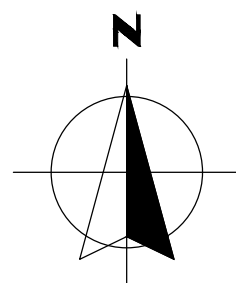
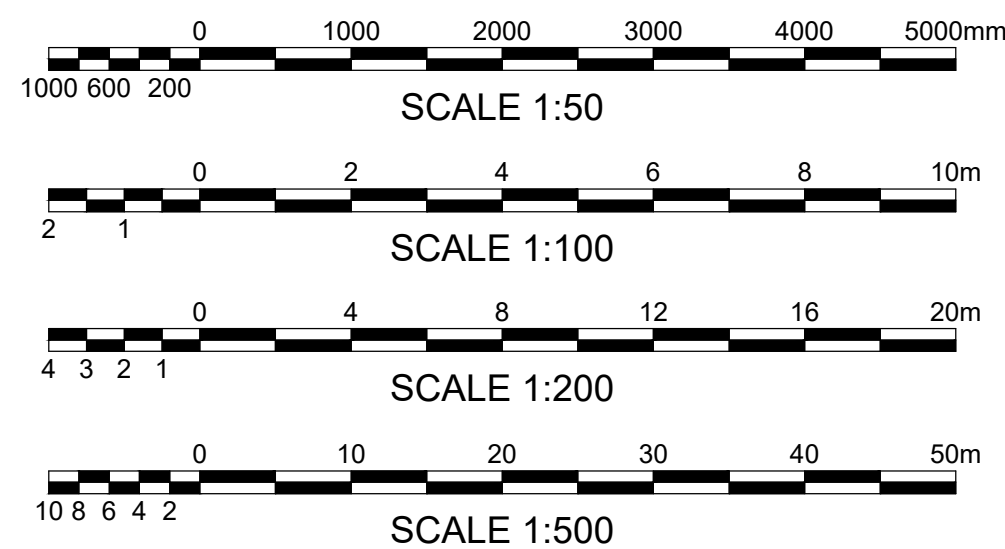
SECTION THRU B-B

SCALE 1:200



- LONGITUDINAL SECTION

A1 HORZ SCALE 1:500
A1 VERT SCALE 1:100



FOR INFORMATION
NOT FOR CONSTRUCTION

B	ISSUE FOR DA	PG	12/06/20
A	PRE- DA DOCUMENTATION	PG	25/05/20
ISSUE	DESCRIPTION	APPROVED	DATE



PROJECT
Residential Aged Care Facility
7 Martin Close & 42 Stronach Avenue,
East Maitland, NSW 2323

TITLE BULK EARTHWORKS SECTIONS			
SCALES as noted @ A1		DATE MAY, 2020	
DRAWN DG	DESIGN DG/PG	VERIFIED CA	APPROVED PG
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ISSUE A	PROJECT No. 191030	DRAWING No. C.03	

GENERAL NOTES.

1. THIS PLAN IS A CONCEPT PLAN ONLY FOR STORMWATER DISPOSAL & EROSION CONTROL. IT IS NOT SUITABLE FOR CONSTRUCTION. THIS PLAN SHOULD BE ADAPTED BY THE BUILDER DURING DEMOLITION, EXCAVATION & CONSTRUCTION PHASES TO ENSURE ADEQUATE PERFORMANCE.

2. ALL DRAINAGE LAYOUT & DETAILS ARE DIAGRAMMATIC & INDICATIVE ONLY. ACTUAL LOCATION, SIZES, LEVELS & GRADES MAY LATER WHEN DETAIL DESIGN WORKS ARE DOCUMENTED.

CLAY SOILS

A SYSTEM SHALL BE INSTALLED TO EITHER:

1. TRANSPORT STORMWATER RUNOFF WITH SUSPENDED SOLIDS FROM SITE VIA PUMP TRUCKS.

2. TREAT THE STORMWATER RUNOFF WITH SUSPENDED SOLIDS SO THE DISCHARGE WATER QUALITY TO COUNCIL STORMWATER DRAINAGE SYSTEM HAS A MAXIMUM CONCENTRATION OF SUSPENDED SOLIDS THAT DOES NOT EXCEED 50 MILLIGRAMS PER LITRE IN ACCORDANCE WITH THE PROTECTION OF THE ENVIRONMENT OPERATION ACT (POEO 1997) AND SHALL BE APPROVED BY THE LOCAL COUNCIL.

EROSION & SEDIMENTATION CONTROL NOTES

1. CONTRACTOR SHALL PROVIDE SEDIMENT FENCING MATERIAL DURING CONSTRUCTION TO THE LOW SIDE OF THE WORKS. THE SEDIMENT FENCING MATERIAL TO CYCLONE WIRE SECURITY FENCE. SEDIMENT CONTROL FABRIC SHALL BE AN APPROVED MATERIAL (EG. HUMES PROPEX SILT STOP) STANDING 300mm ABOVE GROUND & EXTENDING 150mm BELOW GROUND.

2. EXISTING DRAINS LOCATED WITHIN THE SITE SHALL ALSO BE ISOLATED BY SEDIMENT FENCING MATERIAL.

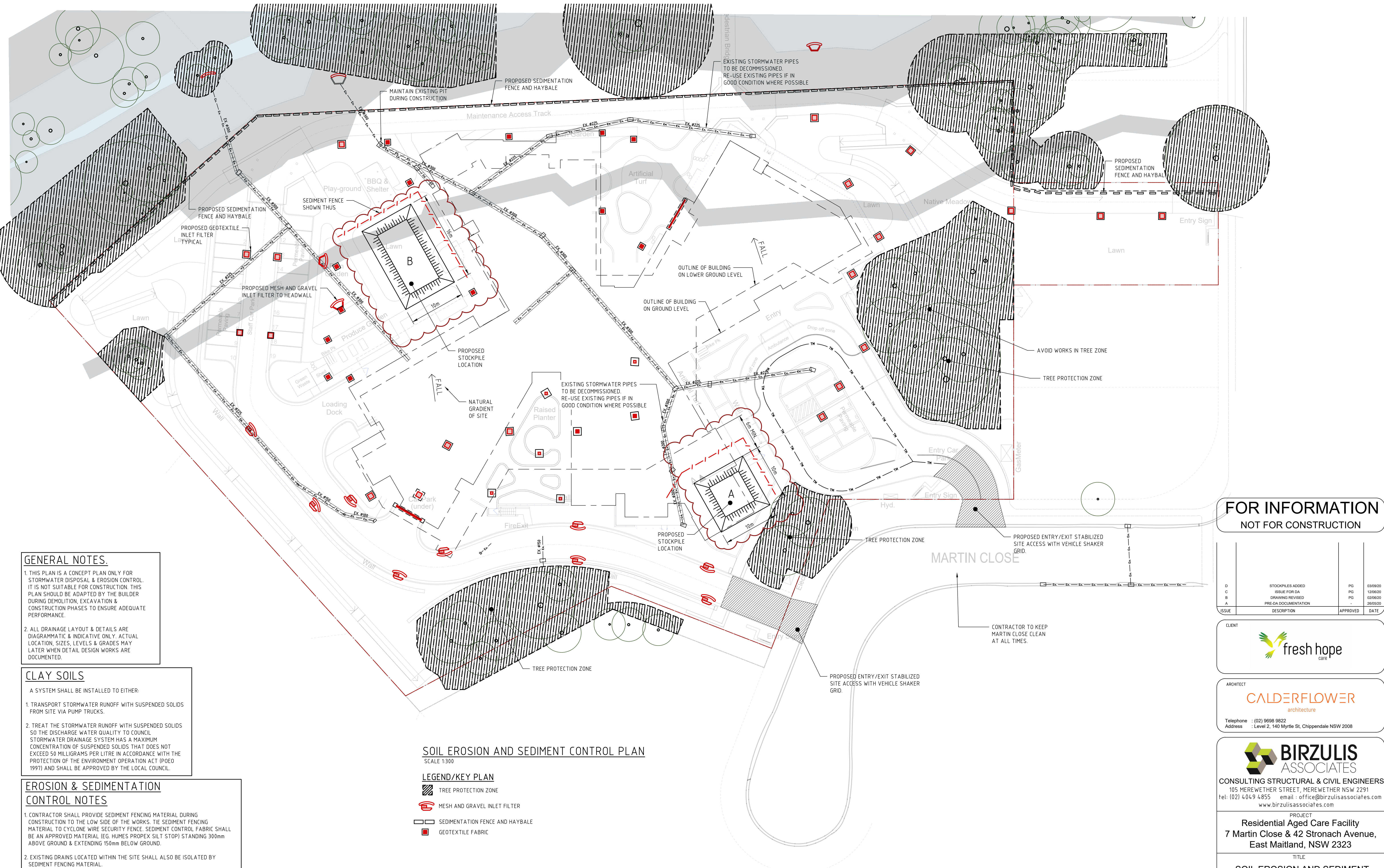
3. NO PARKING OR STOCKPILING OF MATERIAL IS PERMITTED ON THE LOWER SIDE OF THE SEDIMENT FENCE.

4. GRASS VERGES SHALL BE MAINTAINED AS MUCH AS PRACTICAL TO PROVIDE A BUFFER ZONE TO THE CONSTRUCTION SITE.

5. CONSTRUCTION ENTRY/EXIT SHALL BE VIA THE LOCATION NOTED ON THE DRAWING. CONTRACTOR SHALL ENSURE ALL DROPPABLE SOIL & SEDIMENT IS REMOVED PRIOR TO CONSTRUCTION TRAFFIC EXITING SITE. CONTRACTOR SHALL ENSURE ALL CONSTRUCTION TRAFFIC ENTERING & LEAVING THE SITE DO SO IN A FORWARD DIRECTION.

SOIL EROSION AND SEDIMENT CONTROL PLAN
SCALE 1:300

- LEGEND/KEY PLAN**
- TREE PROTECTION ZONE
 - MESH AND GRAVEL INLET FILTER
 - SEDIMENTATION FENCE AND HAYBALE
 - GEOTEXTILE FABRIC



FOR INFORMATION
NOT FOR CONSTRUCTION

D	STOCKPILES ADDED	PG	03/08/20
C	ISSUE FOR DA	PG	12/08/20
B	DRAWING REVISED	PG	02/08/20
A	PRE-DA DOCUMENTATION		26/05/20
ISSUE	DESCRIPTION	APPROVED	DATE

CLIENT

ARCHITECT

CALDERFLOWER
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PROJECT

Residential Aged Care Facility
7 Martin Close & 42 Stronach Avenue,
East Maitland, NSW 2323

TITLE

SOIL EROSION AND SEDIMENT CONTROL PLAN

SCALES	as noted @ A1	DATE	APR' 2020
DRAWN	DESIGN	VERIFIED	APPROVED
JM	CA / PG	CA	PG
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D	191030	SW.10	

