



henry&hymas

4 December 2020

Our Ref: 20224/td – searsrev1

ETHOS URBAN
173 Sussex Street
Sydney NSW 2000

Attention: Chris Forrester

**Re: CIVIL AND STORMWATER STATEMENT TO SUPPORT SEARS SUBMISSION, PART
14**

**SUBJECT PREMISES: EASTERN CREEK RETAIL CENTRE, LOT 3. ROOTY HILL ROAD
SOUTH, EASTERN CREEK**

This stormwater statement has been prepared to support the application to the Department of Planning, Industry and Environment (DPIE) for the Lot 3 site. Specifically, part 14 of the Secretary's Environmental Assessment Requirements (SEARS) relates to stormwater requirements as described below. The Civil and Stormwater concept drawings prepared by Henry and Hymas should be read in conjunction with this statement letter. It should be noted that these plans are only conceptual in nature and that full detailed design of the stormwater measures required to address the items described below will be provided as part of the subsequent State Significant Development application for the detailed design.

Changes from previous approval plans

The previously submitted and approved plans for the overall lot 3 site consisted of graded earthworks pads. The lot 3 site was previously shown as being divided into two separate pad sites. The earthworks levels directed runoff from the west at RL44.30 (approx.) to the east to RL43.00 where a temporary sedimentation basin was located. Because the Lot 3 site was originally divided into 2 pads, a separate sedimentation basin was detailed for the eastern section of what is now the overall Lot 3 site. On this section of the lot (previously known as Pad 4), the earthworks levels graded from RL42.70 (approx.) in the north to RL41.30 (approx.) in the southern corner of the pad to a sediment basin. The intention of the earthworks pad design was to show how the site could be graded to levels that would allow it to remain in a benched state until such time that development for the lot was confirmed. The proposed earthworks levels were also used to ensure that the site would facilitate an eventual flat BEW pad level of RL43.00. The proposed earthworks levels for the approved submission are shown on our plans 17D83_S96_BE01, C101, C104 and C104. These plans are provided as an attachment to this statement letter.

The concept plans detail how the site stormwater system will convey flows through the site and to the previously approved and constructed communal water quality and quantity subdivision basins. Our drawing list for our concept plans is provided below.



SEARS PART 14 RESPONSES

14.1

The existing site falls in an easterly direction and eventually discharges under the M7 through the northern outlet culvert. Once developed, the site will lie between the existing Beggs Road Cul-De-Sac and Church Street to the south and north respectively. The discharge point for the developed site will be into the previously designed, approved and built overland flow channel that runs towards the communal northern water quality and detention basin. The location of the site's discharge point is shown on the drawing 20224_DA_C105. In addition to the site generated stormwater, there is runoff from the upstream catchment of Beggs Road and a portion of Rooty Hill Road South. The previously approved subdivision catchment plan drawing 17771_CC_C250 details that there is 1.307ha of catchment that would flow down Beggs Road and then to the communal northern water quality and detention basin. Because the proposed Lot 3 development will block a substantial amount of area of the current overland flow path, we have designed a proposed 1.7m wide and 0.7m (min) deep concrete channel to convey the 1.307ha upstream catchment and also up to 2.244ha of the Lot 3 catchment. The flows that were previously calculated as part of the subdivision design are in the order of 1.79m³/s. The concrete channel has a minimum base slope of 1.5% and will have the capacity to convey these flows. Downstream of this proposed concrete channel, a 1500 wide and 600 deep box culvert is proposed to convey the flows under the extension of the subdivision internal access road. This culvert has been previously designed and approved under the subdivision stormwater design. Once the flows discharge from the culvert, they are directed to the existing northern Water Quality and Detention Basin. Both the culvert and channel are shown on drawings 20224_DA_C104 and C105. It should be noted that the sizing of the channel between Lot 2 & 3 and the 1500x600 culvert has been sized based on 3.555ha of catchment. Because the Lot 3 internal drainage will now discharge at a location further downstream, the flow of 1.79m³/s is conservative. The final catchment that is being directed to the proposed concrete channel and culvert will only be 1.307ha.

14.2

Because the entirety of the Lot 3 drainage system is directed to the existing open channel (as shown on drawing 20224_DA_C105), the flows will be directed to the subdivision water quality and detention basin. This is in accordance with the approved subdivision stormwater design. As such, all flows off the Lot 3 site will be controlled to rates which are in accordance with Blacktown City Council's On Site Detention Policy – Blacktown City Council Development Control Plan (2005) – Appendix B. Prior to the detention basin, the site flows will be directed to the subdivision water quality bio filtration basin. This basin will be effective in treating and removing pollutants to levels as stipulated in Council's Development Control Plan (2015) – Part J. By meeting these water quantity and quality targets, there will be no adverse impacts to the hydrology or water quality of the existing downstream and receiving systems.

14.4



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As described in item 14.2 above, the Lot 3 site stormwater system will be compliant with Blacktown City Council's On Site Detention Policy – Blacktown City Council Development Control Plan (2005) – Appendix B and also Part J – Water Sensitive Urban Design and Integrated Water Management. Part of the Lot design will include the design and documentation of an appropriately sized Gross Pollutant Trap (GPT). This will be needed in order to meet the previously approved subdivision water quality system. The Church Street intersection and road upgrades have not been documented at this stage, however the future DA for the detailed design will show the drainage system and any required easements.

DRAWING LIST

DRAWING SCHEDULE	
20224_DA_C000	COVER SHEET, DRAWING SCHEDULE, NOTES AND LOCALITY SKETCH
20224_DA_BE01	CUT AND FILL PLAN
20224_DA_BE02	BULK EARTHWORKS SECTIONS
20224_DA_C100	GENERAL ARRANGEMENT PLAN - GROUND LEVEL
20224_DA_C100a	GENERAL ARRANGEMENT PLAN - BASEMENT LEVEL
20224_DA_C101	DETAIL CIVIL PLAN, SHEET 1 OF 6
20224_DA_C102	DETAIL CIVIL PLAN, SHEET 2 OF 6
20224_DA_C103	DETAIL CIVIL PLAN, SHEET 3 OF 6
20224_DA_C104	DETAIL CIVIL PLAN, SHEET 4 OF 6
20224_DA_C105	DETAIL CIVIL PLAN, SHEET 5 OF 6
20224_DA_C106	DETAIL CIVIL PLAN, SHEET 6 OF 6
20224_DA_C107	DETAIL CIVIL PLAN - BASEMENT, SHEET 1 OF 3
20224_DA_C108	DETAIL CIVIL PLAN - BASEMENT, SHEET 2 OF 3
20224_DA_C109	DETAIL CIVIL PLAN - BASEMENT, SHEET 3 OF 3
20224_DA_C110	TYPICAL SITE SECTIONS, SHEET 1 OF 3
20224_DA_C111	TYPICAL SITE SECTIONS, SHEET 2 OF 3
20224_DA_C112	TYPICAL SITE SECTIONS, SHEET 3 OF 3
20224_DA_C130	ACCESS ROAD CL LONG SECTION AND CHAINAGES PLAN

Please contact the undersigned if you have any queries or concerns.

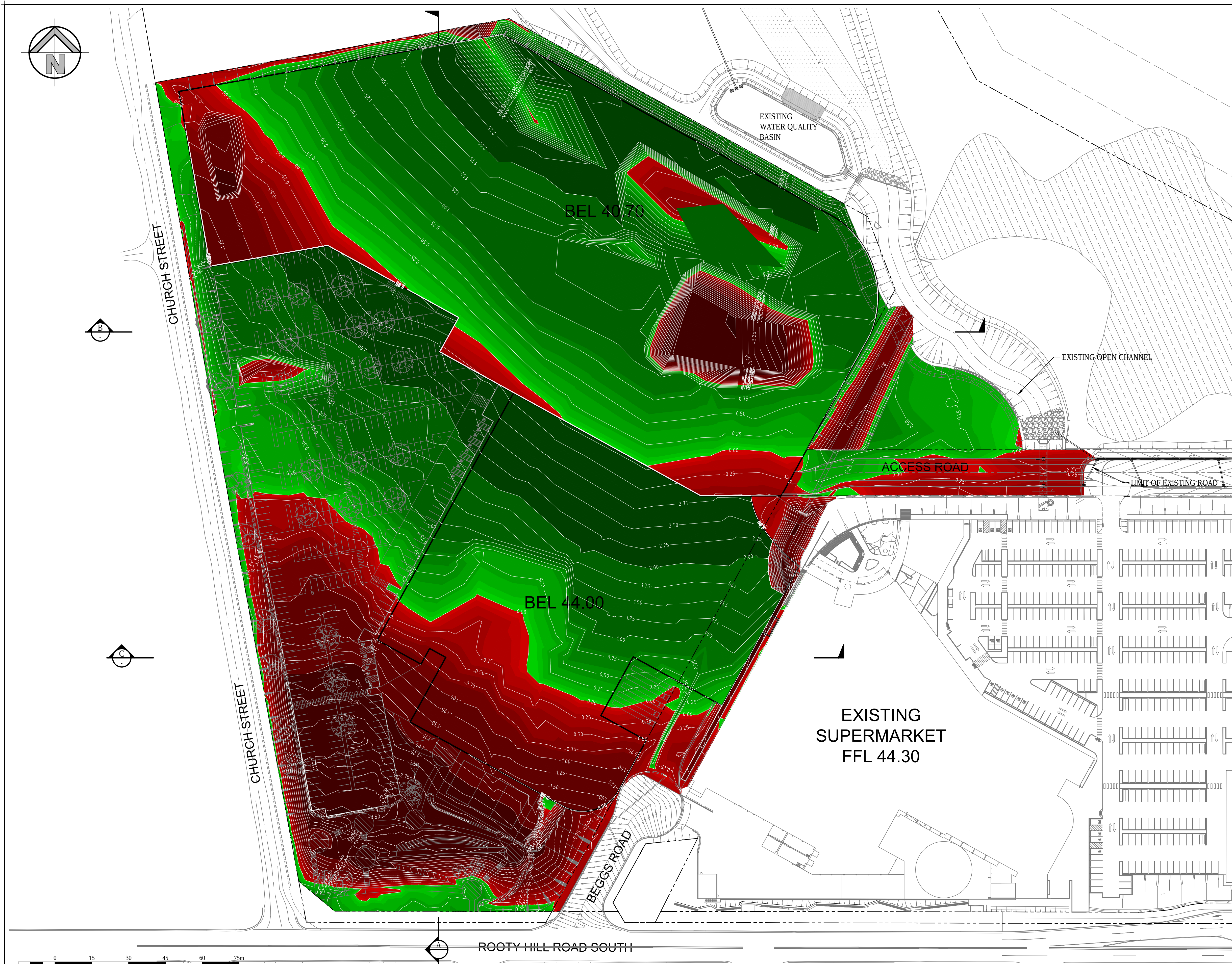


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Yours faithfully,

TOM DEMPSEY

For, and on behalf of,
H & H Consulting Engineers Pty Ltd



LEGEND

- EXISTING BOUNDARY
- 0.50 DEPTH CONTOUR FOR FILL
- 0.50 DEPTH CONTOUR FOR CUT

DEPTH RANGE			
Lower_value	Upper_value	Colour	
-6	to	-4	Meters
-4	to	-2	Meters
-2	to	-1	Meters
-1	to	-.8	Meters
-.8	to	-.6	Meters
-.6	to	-.4	Meters
-.4	to	-.2	Meters
-.2	to	-.1	Meters
-.1	to	-.05	Meters
-.05	to	.0	Meters
.0	to	.05	Meters
.05	to	.1	Meters
.1	to	.2	Meters
.2	to	.4	Meters
.4	to	.6	Meters
.6	to	.8	Meters
.8	to	1	Meters
1	to	2	Meters
2	to	4	Meters
4	to	6	Meters

EARTHWORKS QUANTITIES

- (APPROXIMATE ONLY)
- NOT TO BE USED FOR CONTRACTUAL PURPOSES. TENDERERS TO DETERMINE VOLUMES USING THEIR OWN METHOD OF CALCULATION.
- ASSUMED SLAB AND PAVEMENT THICKNESS OF 300mm USED FOR CALCULATIONS.

- EARTHWORKS QUANTITIES -	
TOTAL AREA (8.1 ha)	
CUT	33910 m³
FILL	62250 m³
EXCESS OF FILL	28340 m³
TOPSOIL STRIPPING '100mm' OF 8100m² NOT INCLUDED IN CALCULATION	
EXCAVATION FOR SERVICE TRENCHES NOT INCLUDED IN CALCULATION	
FUTURE EXCAVATION FOR SERVICES 580m³/Ha *5.1Ha = 2980m³ NOT INCLUDED IN CALCULATION	



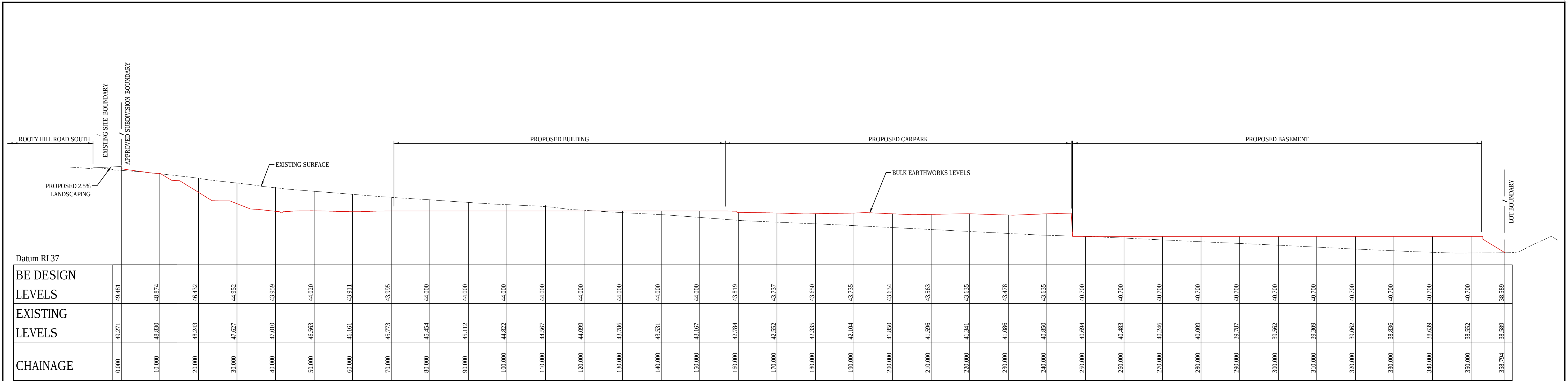
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CUT AND FILL PLAN

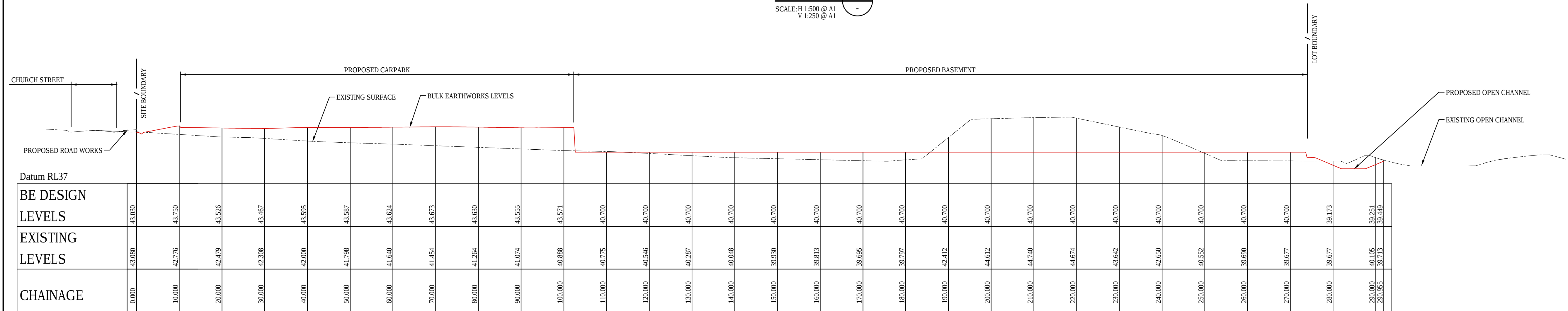
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CONCEPT

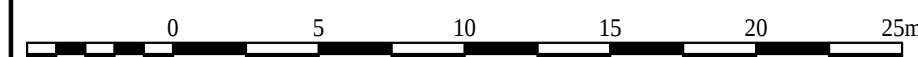
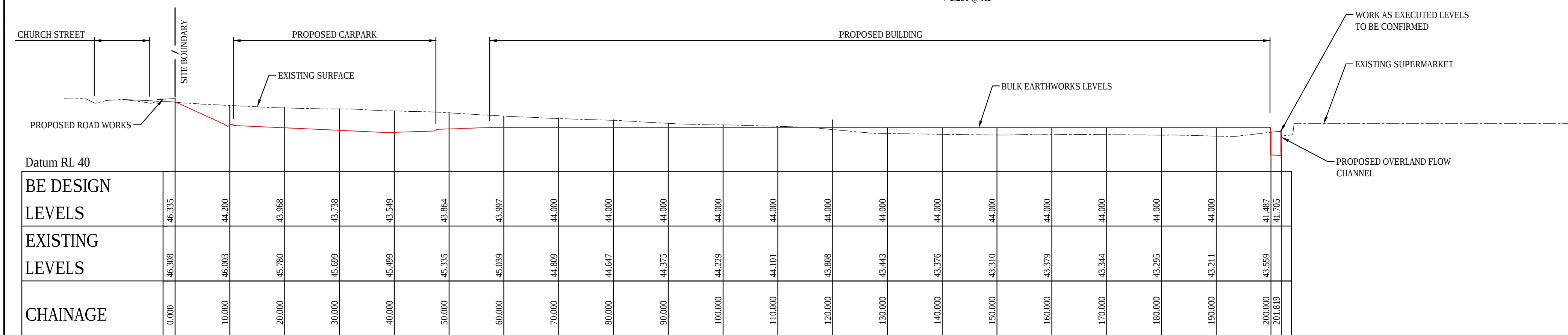
SURVEY INFORMATION				Client				Project			
SURVEYED BY				FRASER PROPERTY AUSTRALIA				PROPOSED STAGE 3 ECQ PRECINCT			
DATE:				i2C ARCHITECTS				ROOTY HILL ROAD SOUTH, EASTERN CREEK NSW			
ORIGIN OF LEVELS:				This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.				CUT AND FILL PLAN			
REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	Drawn	Designed
02	ISSUED FOR INFORMATION	LC	TD	21.12.2020						L.Caha	L.Caha
01	ISSUED FOR INFORMATION	LC	TD	20.11.2020						Checked T.Dempsey	Approved A.Francis
										Drawing number	
										20224_DA_BE01	
										02	



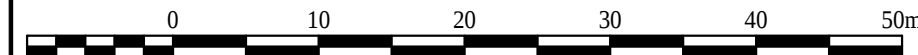
SECTION A
SCALE: H 1:500 @ A1
V 1:250 @ A1



SECTION B
SCALE: H 1:500 @ A1
V 1:250 @ A1



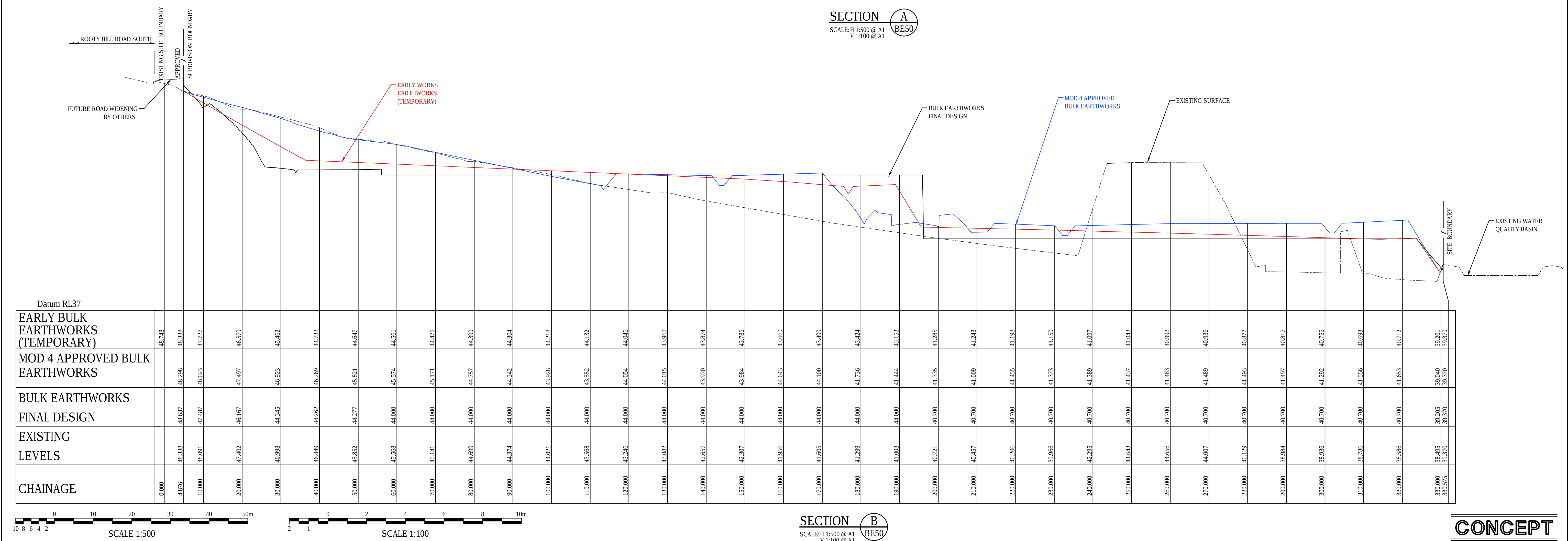
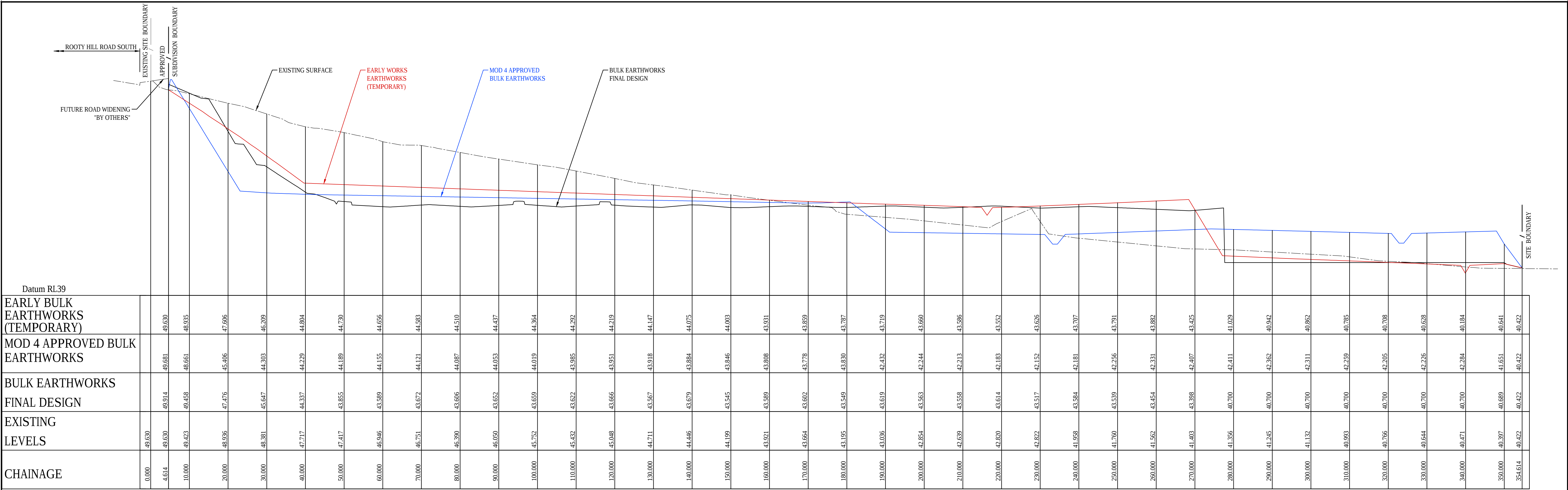
SCALE 1:250



SCALE 1:500

SECTION C
SCALE: H 1:500 @ A1
V 1:250 @ A1

SURVEY INFORMATION SURVEYED BY DATE: ORIGIN OF LEVELS:											Client FRASER PROPERTY AUSTRALIA	Level 5, 79 Victoria Avenue Chatswood NSW 2067  Telephone +61 2 9417 8400 Facsimile +61 2 9417 8337 Email email@rhconsult.com.au Web www.henryhymas.com.au	 henryhymas	Project PROPOSED STAGE 3 ECQ PRECINCT ROOTY HILL ROAD SOUTH, EASTERN CREEK NSW	Drawn L.Caha	Designed L.Caha	Date MAY 2018																																										
											Architect i2C ARCHITECTS			Checked T.Dempsey	Approved A.Francis	Scale AS SHOWN @ A1																																											
											Title BULK EARTHWORKS SECTIONS				Drawing number 20224_DA_BE02		Revision 01																																										
<table><thead><tr><th>REVISION</th><th>ISSUED FOR INFORMATION</th><th>LC</th><th>TD</th><th>19.11.2020</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr><tr><th>DRAWN</th><th>DESIGNED</th><th>DATE</th><th>REVISION</th><th>AMENDMENT</th><th>DRAWN</th><th>DESIGNED</th><th>DATE</th><th></th><th></th><th></th><th></th></tr></thead><tbody><tr><td>01</td><td>ISSUED FOR INFORMATION</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>												REVISION	ISSUED FOR INFORMATION	LC	TD	19.11.2020								DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE					01	ISSUED FOR INFORMATION											This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.											
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01

ISSUED FOR INFORMATION

LC

TD

21.12.2020

REVISION

AMENDMENT

DRAWN

DESIGNED

DATE

REVISION

AMENDMENT

DRAWN

DESIGNED

DATE

Client

FRASER PROPERTY AUSTRALIA

Architect

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Project

PROPOSED STAGE 3 ECQ PRECINCT
ROOTY HILL ROAD SOUTH, EASTERN CREEK NSW

Title

BULK EARTHWORKS - EARLY WORKS
SITE SECTIONS, SHEET 1 OF 2

Drawn
L.Caha

Designed
L.Caha

Date
DEC 2020

Checked
T.Dempsey

Approved
A.Francis

Scale
AS SHOWN @ A1

Drawing number

20224_DA_BE51

Revision

01



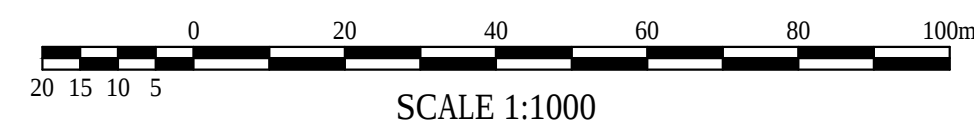
CONCEPT

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	EXISTING BOUNDARY
	EXTENT OF EXISTING CUMBERLAND WOOD PLAINS AREA TO BE REMOVED

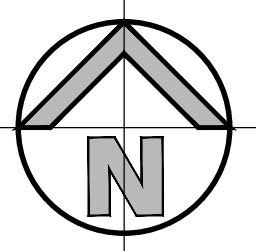
FOR THE INTERNAL SUBDIVISION ACCESS ROAD AND BASINS, THE CONSTRUCTION
LEVEL DRAWINGS HAVE BEEN USED ON THESE PLANS. WORKS AS EXECUTED PLANS
WERE NOT AVAILABLE AT THE TIME OF PREPARING THESE CONCEPT PLANS.



OVERALL PLAN
SCALE 1:1000

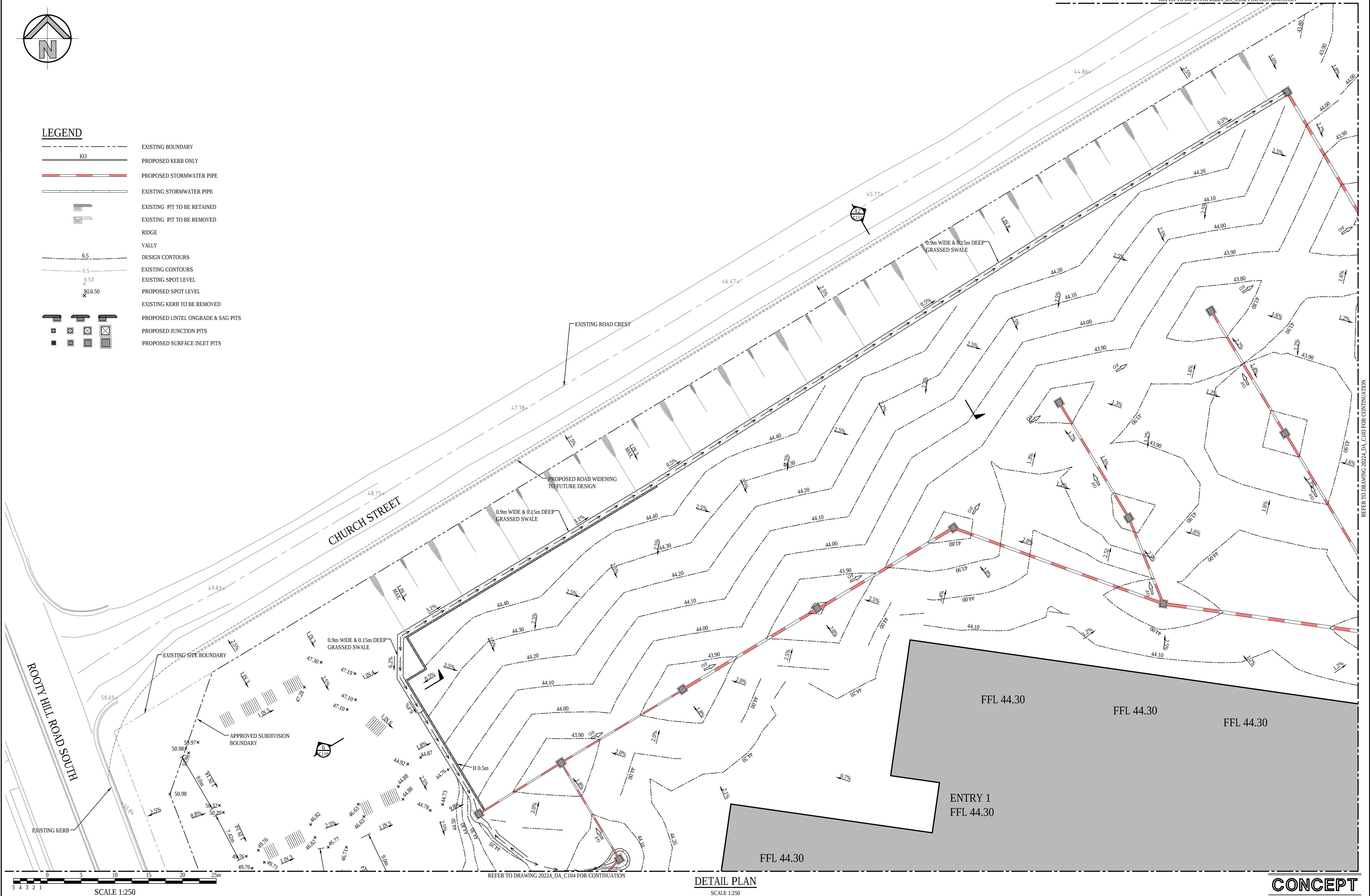
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LEGEND

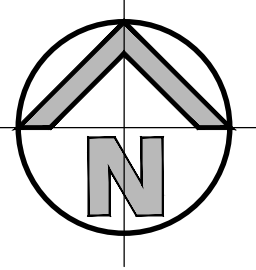
- EXISTING BOUNDARY
- PROPOSED KERB ONLY
- PROPOSED STORMWATER PIPE
- EXISTING STORMWATER PIPE
- EXISTING PIT TO BE RETAINED
- EXISTING PIT TO BE REMOVED
- RIDGE
- VALLY
- DESIGN CONTOURS
- EXISTING CONTOURS
- EXISTING SPOT LEVEL
- PROPOSED SPOT LEVEL
- EXISTING KERB TO BE REMOVED
- PROPOSED LINTEL ONGRADE & SAG PITS
- PROPOSED JUNCTION PITS
- PROPOSED SURFACE INLET PITS



DETAIL PLAN
SCALE 1:250

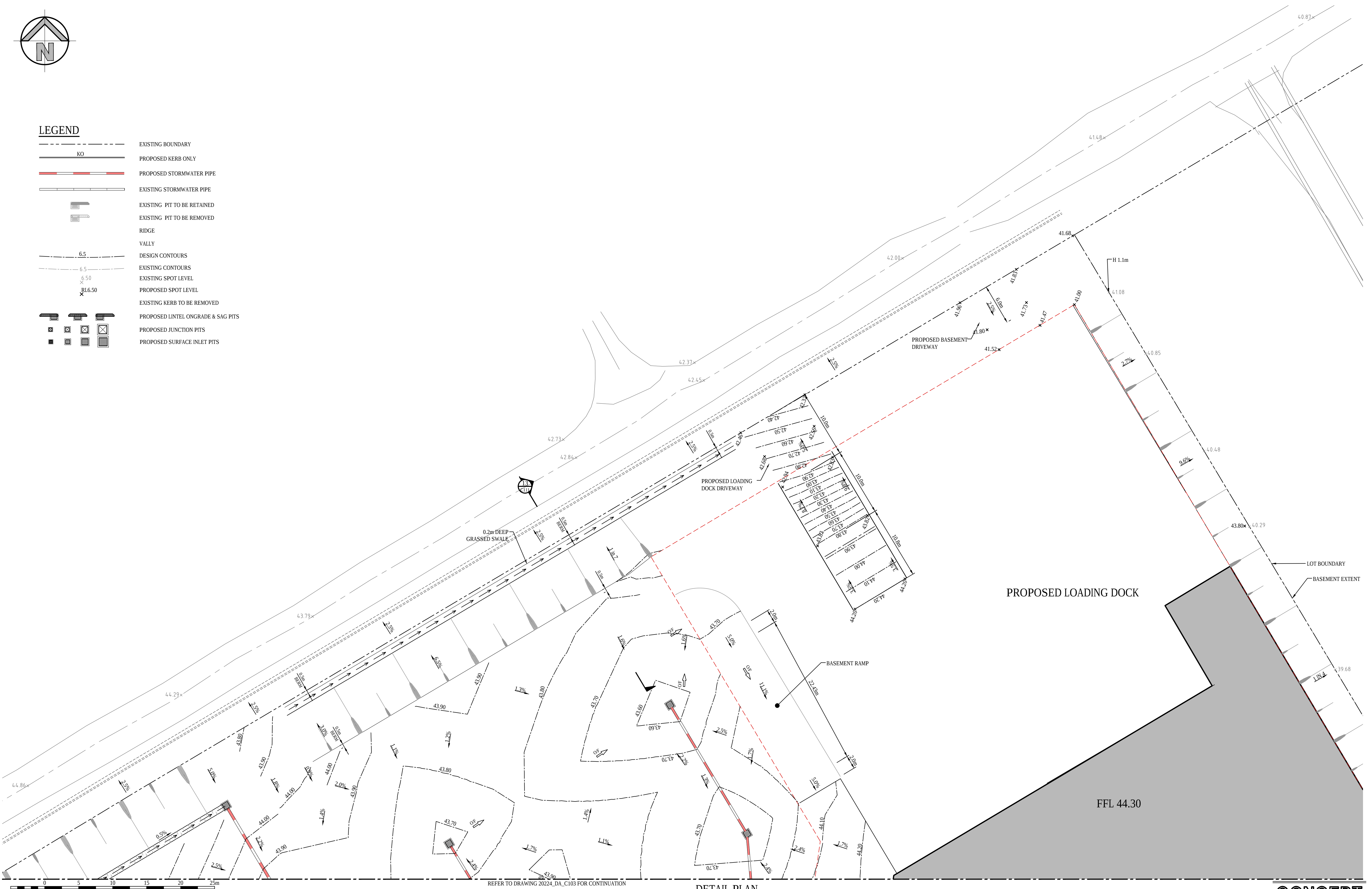
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LEGEND

- EXISTING BOUNDARY
- PROPOSED KERB ONLY
- PROPOSED STORMWATER PIPE
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- EXISTING PIT TO BE REMOVED
- RIDGE
- VALLY
- DESIGN CONTOURS
- EXISTING CONTOURS
- EXISTING SPOT LEVEL
- PROPOSED SPOT LEVEL
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- PROPOSED LINTEL ONGRADE & SAG PITS
- PROPOSED JUNCTION PITS
- PROPOSED SURFACE INLET PITS



54321

SCALE 1:250

REFER TO DRAWING 20224_DA_C103 FOR CONTINUATION

DETAIL PLAN

SCALE 1:250

CONCEPT

20224_DA_C102

02

Client

FRASER PROPERTY AUSTRALIA

Architect

i2C ARCHITECTS

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Project

PROPOSED STAGE 3 ECQ PRECINCT
ROOTY HILL ROAD SOUTH, EASTERN CREEK NSW

Title

DETAIL CIVIL PLAN
SHEET 2 OF 6

Drawn

L.Caha

Designed

L.Caha

Checked

T.Dempsey

Approved

A.Francis

Drawing number

20224_DA_C102

Revision

02

Drawn

L.Caha

Designed

L.Caha

Checked

T.Dempsey

Approved

A.Francis

Drawing number

20224_DA_C102

Revision

02



DETAIL PLAN

SCALE 1:250

CONCEPT

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
02	ISSUED FOR INFORMATION	MS	TD	22.12.2020					
01	ISSUED FOR INFORMATION	LC	TD	20.11.2020					

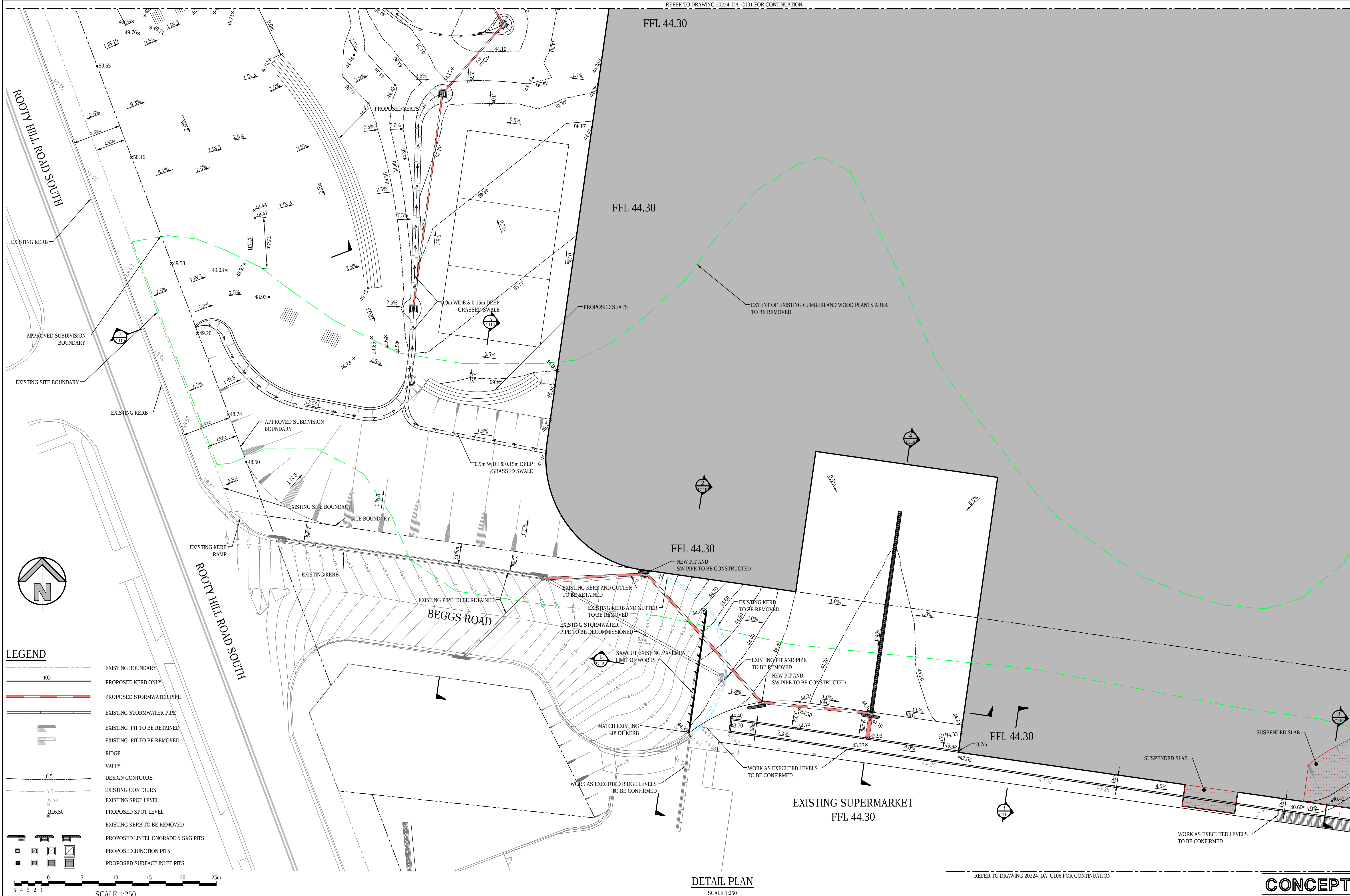
Client	FRASER PROPERTY AUSTRALIA
Architect	i2C ARCHITECTS
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Project	PROPOSED STAGE 3 ECQ PRECINCT ROOTY HILL ROAD SOUTH, EASTERN CREEK NSW
Drawn	L.Caha
Designed	L.Caha
Checked	T.Dempsey
Approved	A.Francis
Title	DETAIL CIVIL PLAN SHEET 3 OF 6

Drawing number	20224_DA_C103
Revision	02



LEGEND

- EXISTING BOUNDARY
- PROPOSED KERB ONLY
- PROPOSED STORMWATER PIPE
- EXISTING STORMWATER PIPE
- EXISTING PIT TO BE RETAINED
- EXISTING PIT TO BE REMOVED
- RIDGE
- VALLY
- DESIGN CONTOURS
- EXISTING CONTOURS
- EXISTING SPOT LEVEL
- PROPOSED SPOT LEVEL
- EXISTING KERB TO BE REMOVED
- PROPOSED LINTEL ONGRADE & SAG PITS
- PROPOSED JUNCTION PITS
- PROPOSED SURFACE INLET PITS

SCALE 1:250

DETAIL PLAN
SCALE 1:250

REFER TO DRAWING 20224_DA_C106 FOR CONTINUATION

CONCEPT

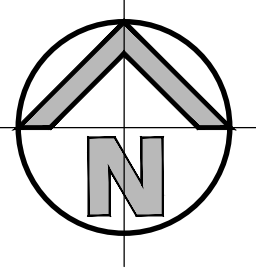
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				Architect i2C ARCHITECTS				Checked T.Dempsey				Approved A.Francis				Title DETAIL CIVIL PLAN SHEET 4 OF 6				Drawing number 20224_DA_C104				Revision 02				Scale 1:250 @ A1			
REVISION				AMENDMENT				DRAWN				DESIGNED				DATE															
02				ISSUED FOR INFORMATION				MS				TD				22.12.2020															
01				ISSUED FOR INFORMATION				LC				TD				20.11.2020															



SCALE 1:250

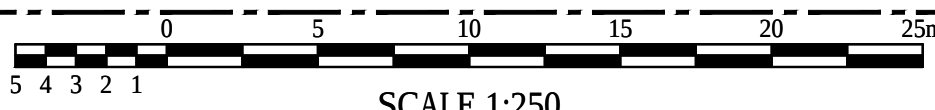
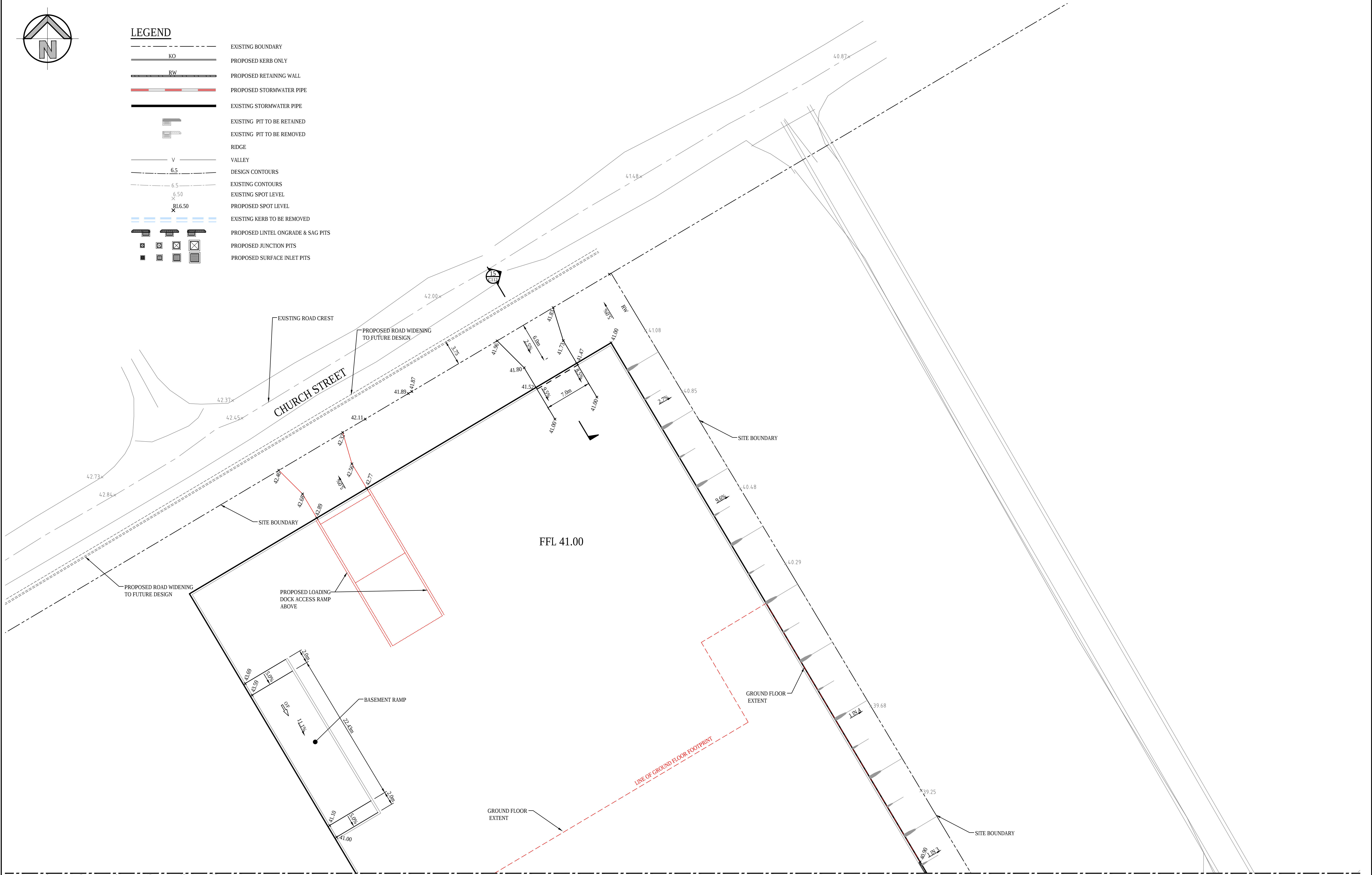
CONCEPT

[illegible]



LEGEND

- EXISTING BOUNDARY
- KO --- PROPOSED KERB ONLY
- RW --- PROPOSED RETAINING WALL
- PROPOSED STORMWATER PIPE
- EXISTING STORMWATER PIPE
- EXISTING PIT TO BE RETAINED
- EXISTING PIT TO BE REMOVED
- RIDGE
- VALLEY
- 6.5 --- DESIGN CONTOURS
- 6.5 --- EXISTING CONTOURS
- 6.50 --- EXISTING SPOT LEVEL
- R16.50 --- PROPOSED SPOT LEVEL
- EXISTING KERB TO BE REMOVED
- PROPOSED LINTEL ONGRADE & SAG PITS
- PROPOSED JUNCTION PITS
- PROPOSED SURFACE INLET PITS



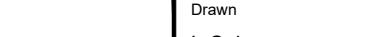
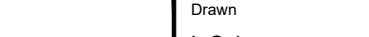
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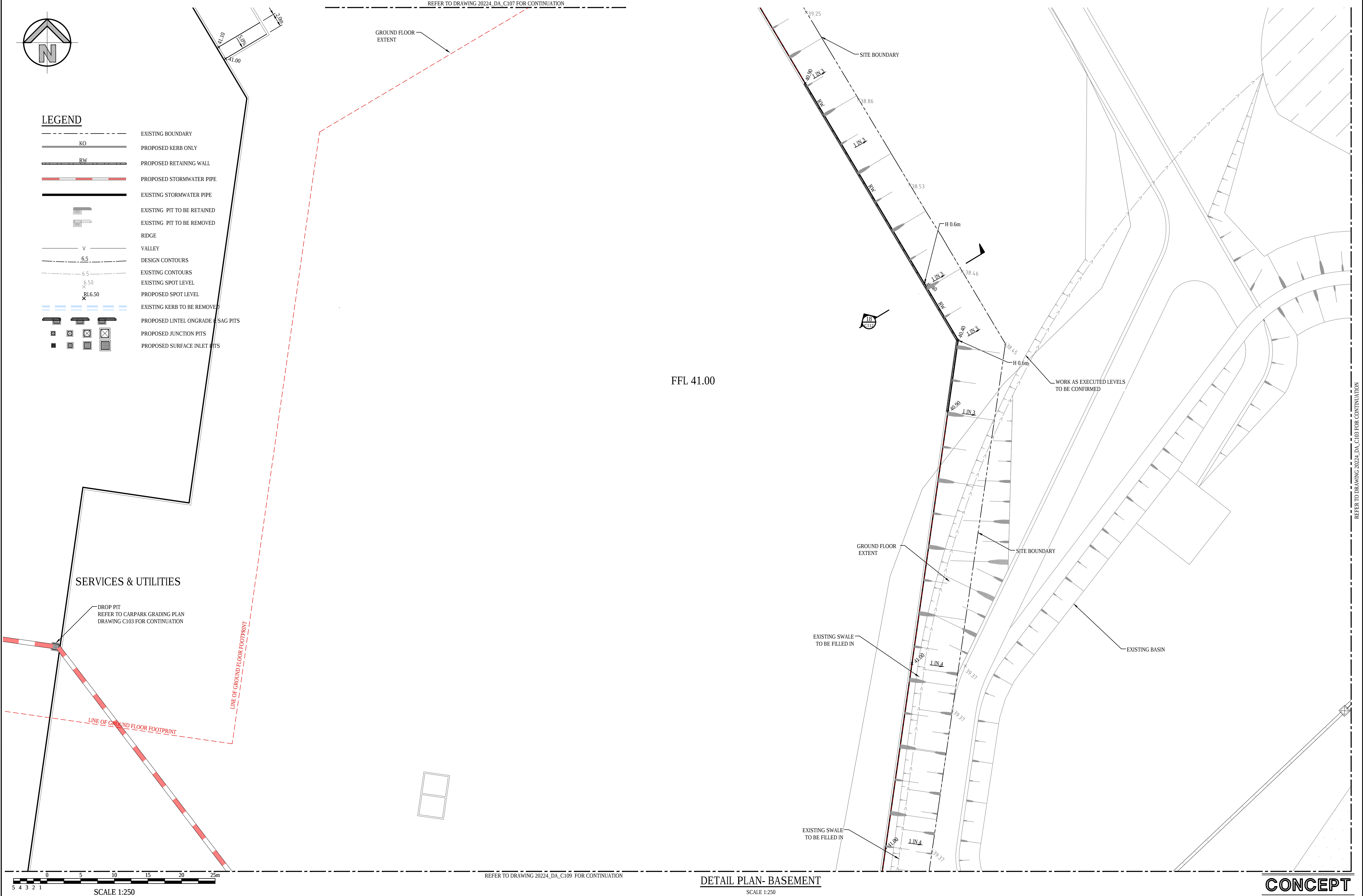
REFER TO DRAWING 20224_DA_C108 FOR CONTINUATION

DETAIL PLAN- BASEMENT

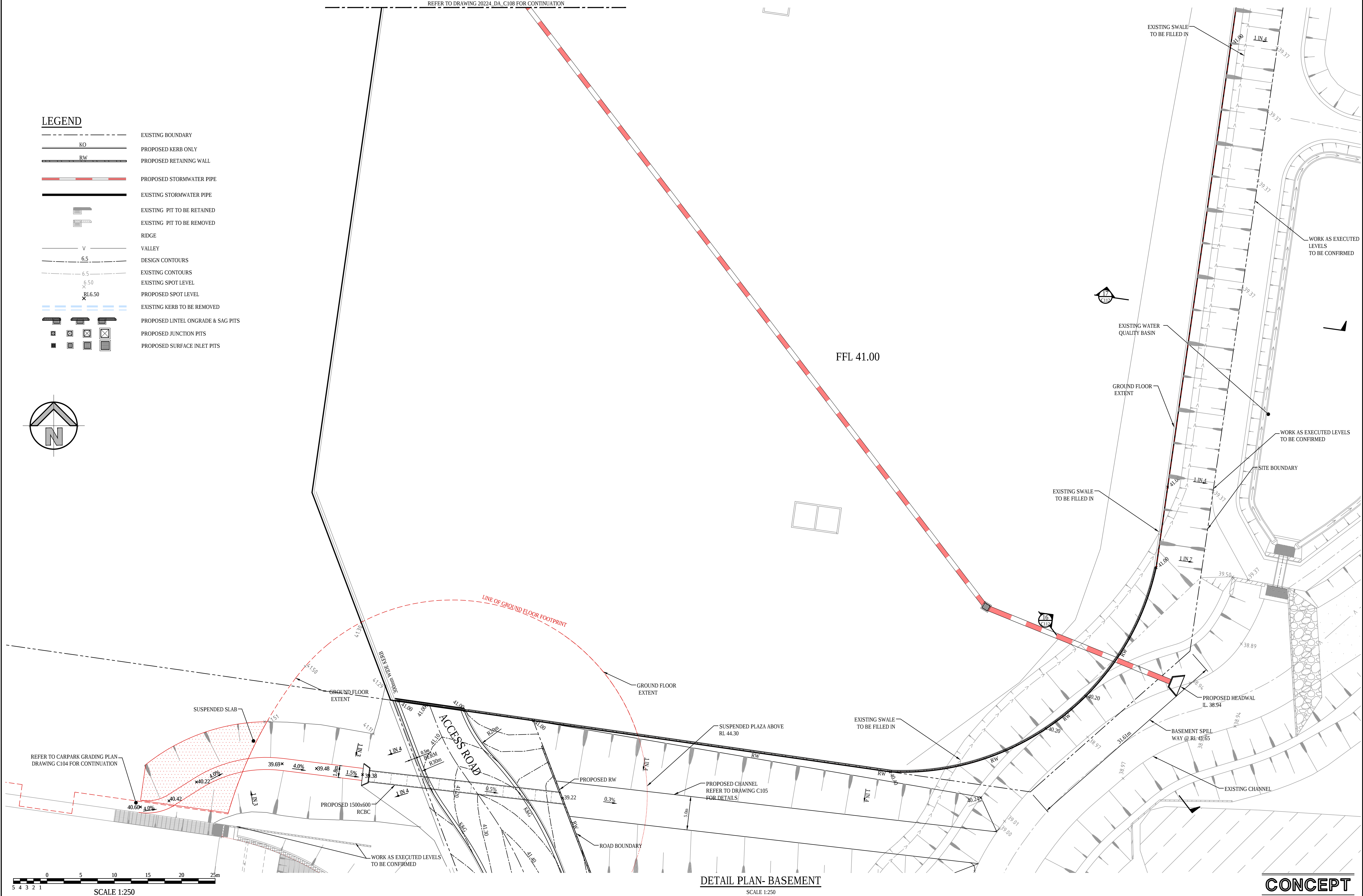
SCALE 1:250

CONCEPT

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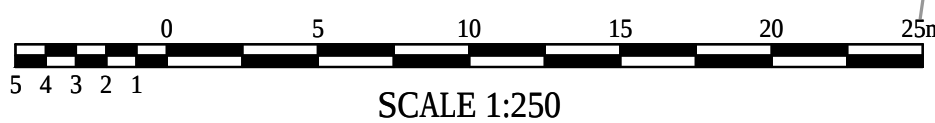
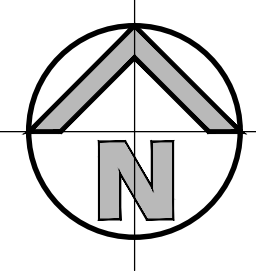


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2018																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				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LEGEND

- EXISTING BOUNDARY
- PROPOSED KERB ONLY
- PROPOSED RETAINING WALL
- PROPOSED STORMWATER PIPE
- EXISTING STORMWATER PIPE
- EXISTING PIT TO BE RETAINED
- EXISTING PIT TO BE REMOVED
- RIDGE
- VALLEY
- DESIGN CONTOURS
- EXISTING CONTOURS
- EXISTING SPOT LEVEL
- PROPOSED SPOT LEVEL
- EXISTING KERB TO BE REMOVED
- PROPOSED LINTEL ONGRADE & SAG PITS
- PROPOSED JUNCTION PITS
- PROPOSED SURFACE INLET PITS

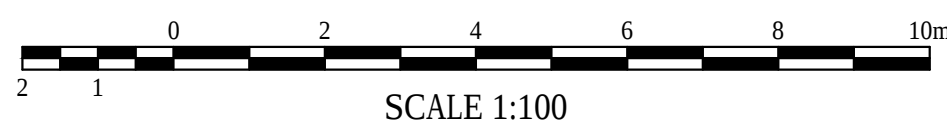
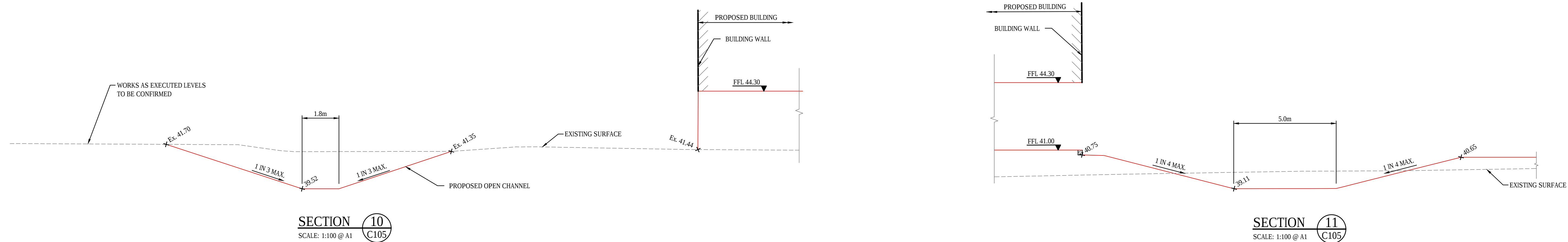


SCALE 1:250

DETAIL PLAN- BASEMENT
SCALE 1:250

CONCEPT

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										i2C ARCHITECTS										Checked T.Dempsey Approved A.Francis Scale 1:250 @ A1										Drawing number 20224_DA_C109										Revision 02																																																																					
										This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.										 Civil Mark.com.auB										DETAIL CIVIL PLAN - BASEMENT SHEET 3 OF 3																																																																															
										02 ISSUED FOR INFORMATION										MS										TD										22.12.2020																																																																					
										01 ISSUED FOR INFORMATION										LC										TD										20.11.2020																																																																					
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SURVEY
INFORMATION

SURVEYED BY

DATUM:

ORIGIN OF LEVELS:

01	ISSUED FOR INFORMATION		LC	TD	20.11.2020				
REVISION	AMENDMENT		DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED DATE

Client

FRASER PROPERTY AUSTRALIA

Architect

i2C ARCHITECTS

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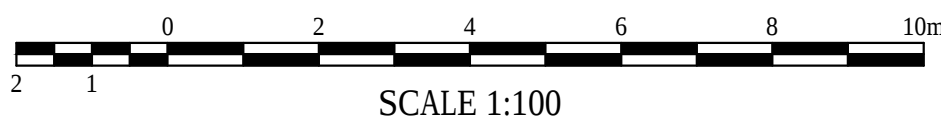
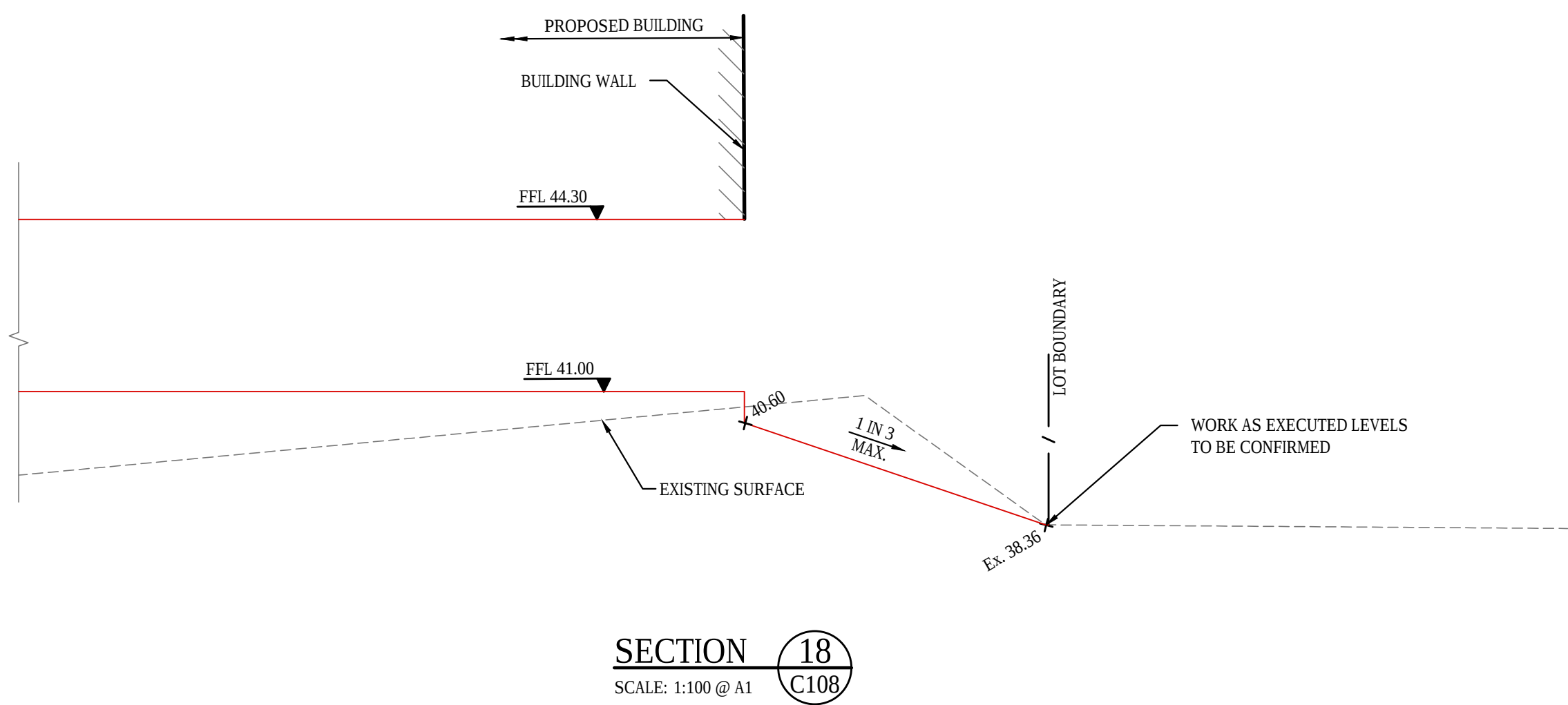
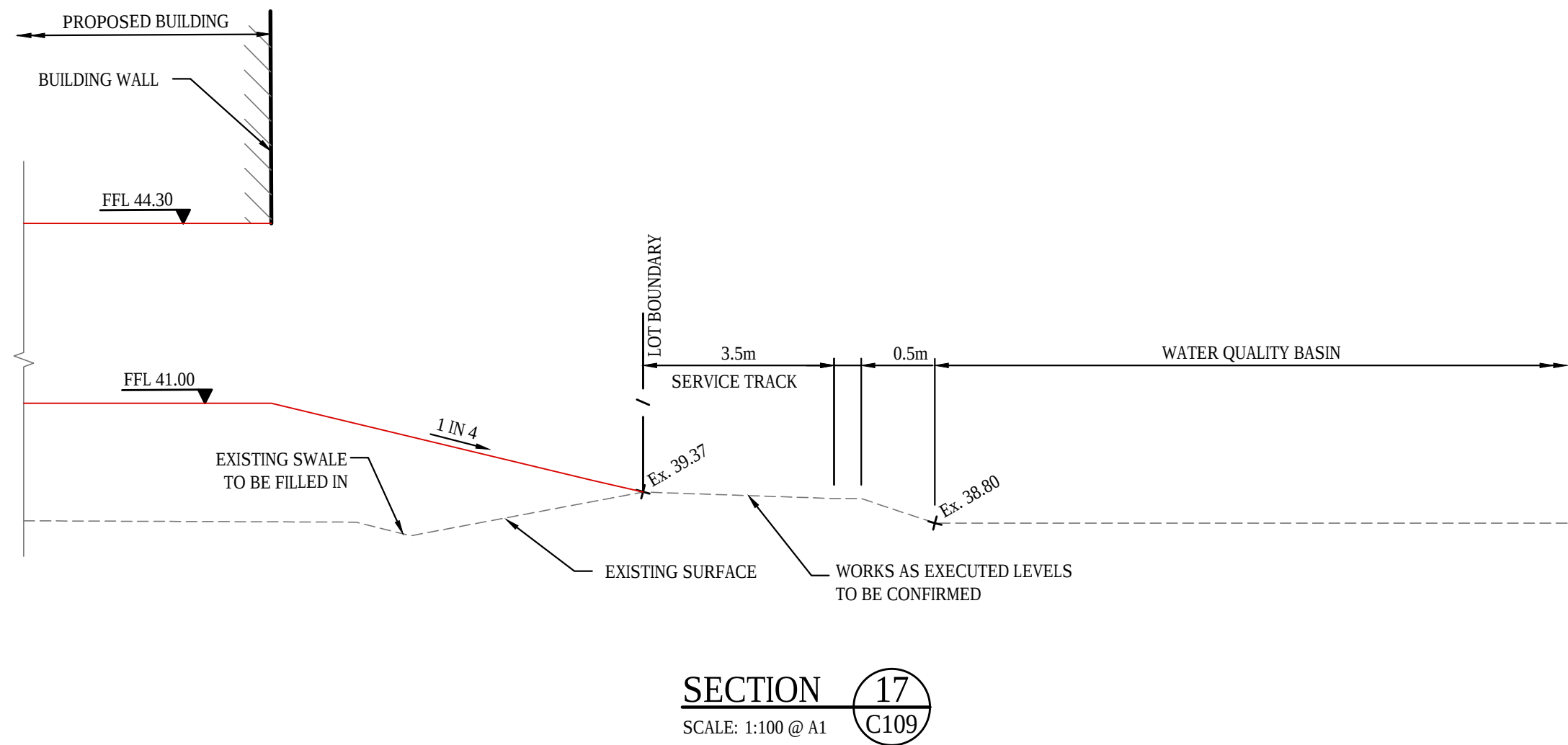
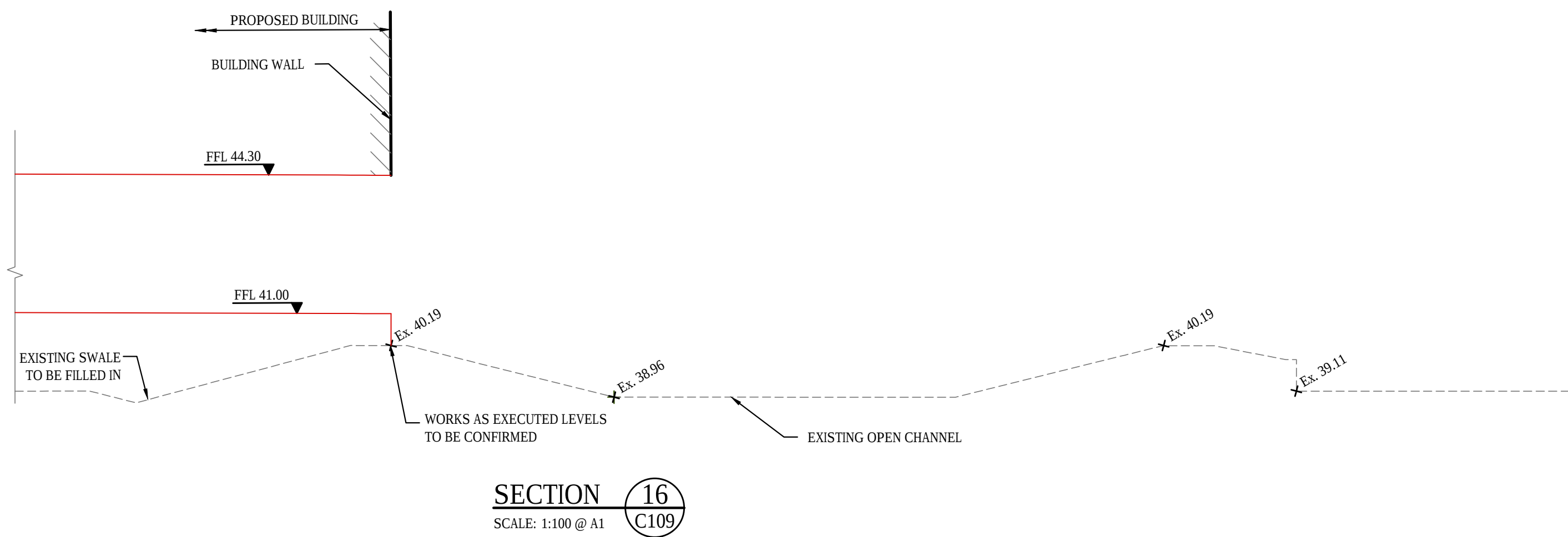
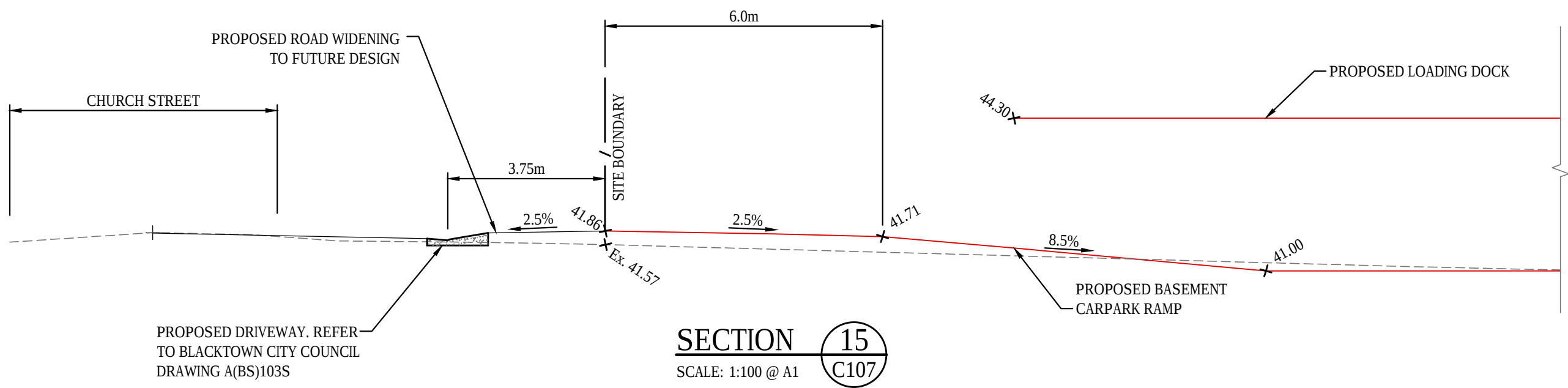
Project

PROPOSED STAGE 3 ECQ PRECINCT
ROOTY HILL ROAD SOUTH, EASTERN CREEK NSW

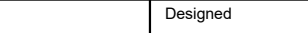
Title
SITE SECTIONS
SHEET 2 OF 3

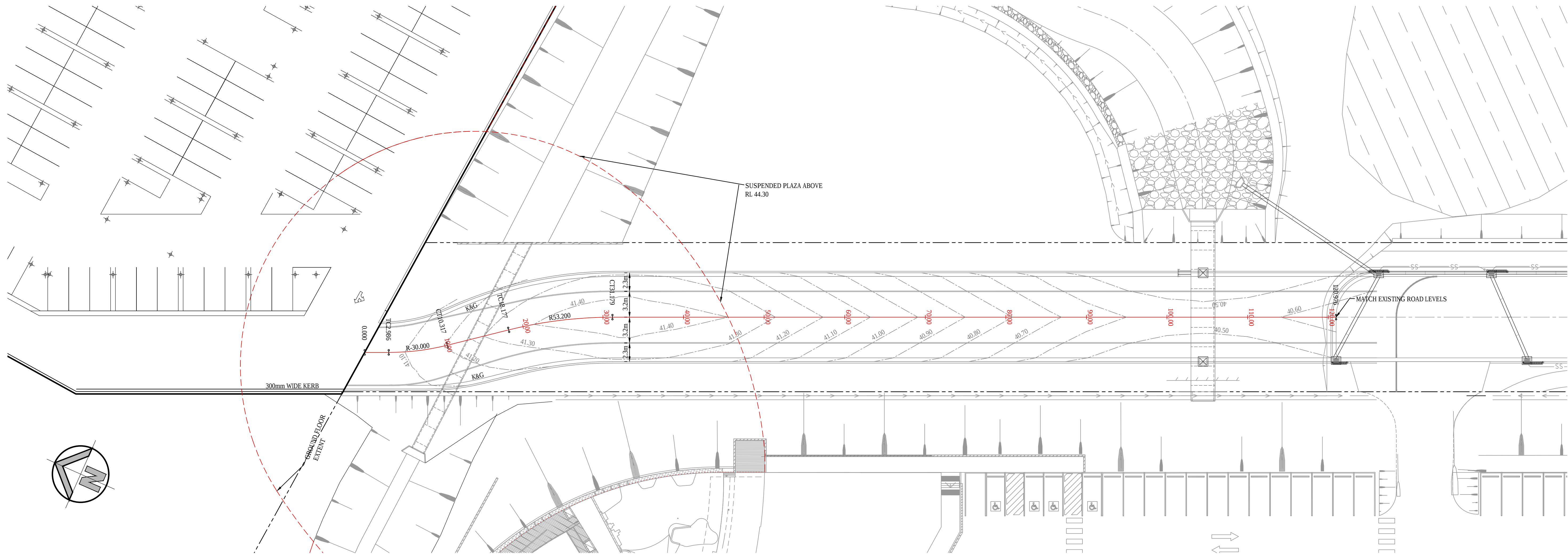
Drawn L.Caha	Designed L.Caha	Date MAY 2018
Checked T.Dempsey	Approved A.Francis	Scale 1:100 @ A1

Drawing number	Revision
20224_DA_C111	0

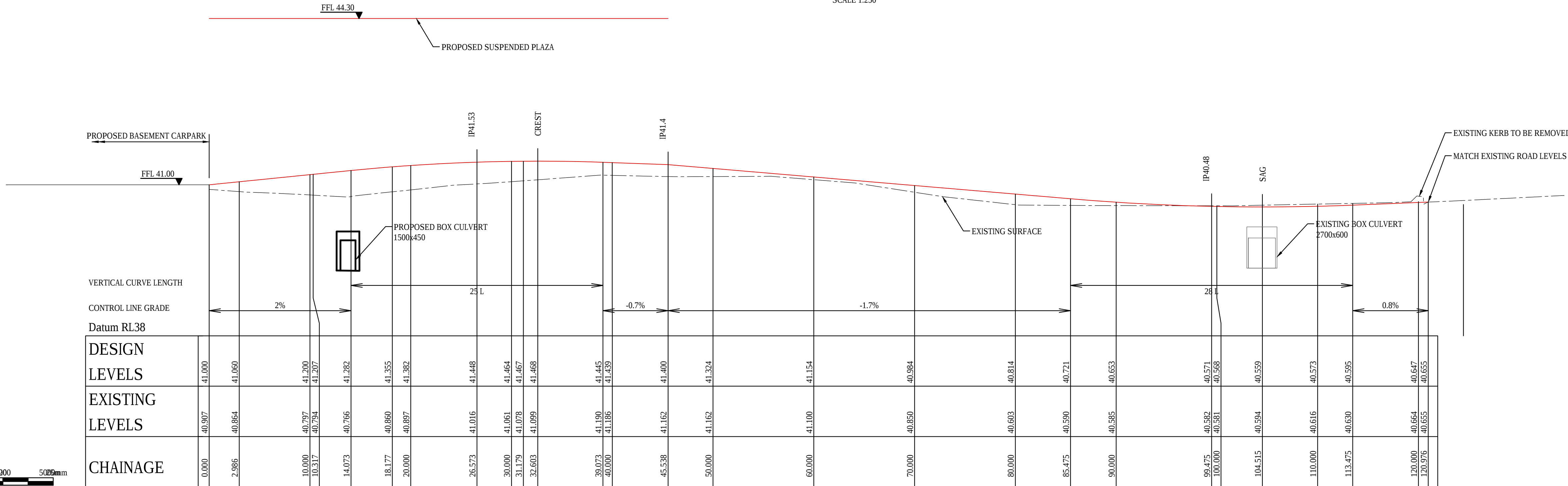


CONCEPT

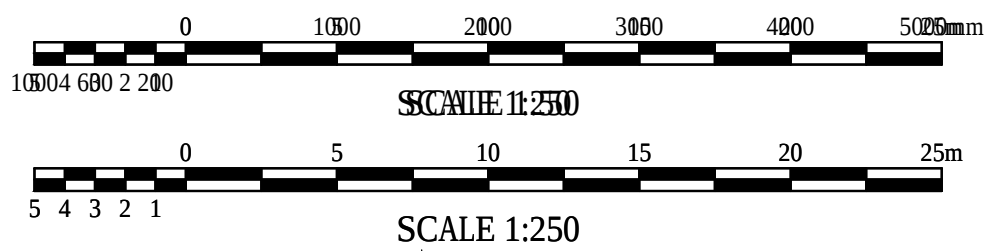
SURVEY INFORMATION SURVEYED BY DATUM: ORIGIN OF LEVELS:																				Client FRASER PROPERTY AUSTRALIA +61 2 9417 8400 Facsimile +61 2 9417 8337 Email email@fhiconsult.com.au Web www.henryandhymas.com.au  										Project PROPOSED STAGE 3 ECQ PRECINCT ROOTY HILL ROAD SOUTH, EASTERN CREEK NSW										Drawn L.Caha Designed L.Caha Date MAY 2018 Checked T.Dempsey Approved A.Francis Scale 1:100 @ A1									
01 ISSUED FOR INFORMATION LC TD 20.11.2020																				henry&hymas This drawing and design remains the property of Henry & Hymas and may not be copied in whole or in part without the prior written approval of Henry & Hymas.										Title SITE SECTIONS SHEET 3 OF 3										Drawing number 20224_DA_C112 Revision 01									
REVISION AMENDMENT DRAWN DESIGNED DATE REVISION AMENDMENT DRAWN DESIGNED DATE																																																	



ROAD CHAINAGES PLAN
SCALE 1:250



ACCESS ROAD CL LONGITUDINAL SECTION
HORIZONTAL SCALE 1:250 @ A1
VERTICAL SCALE 1:50 @ A1



SURVEY INFORMATION
SURVEYED BY
DATE:
ORIGIN OF LEVELS:

REVISION	AMENDMENT	DRAWN	DESIGNED	DATE	REVISION	AMENDMENT	DRAWN	DESIGNED	DATE
01	ISSUED FOR INFORMATION	LC	TD	20.11.2020					

Client
FRASER PROPERTY AUSTRALIA

Architect
i2C ARCHITECTS

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Project
**PROPOSED STAGE 3 ECQ PRECINCT
ROOTY HILL ROAD SOUTH, EASTERN CREEK NSW**

Title
**ACCESS ROAD CL LONG SECTION
AND CHAINAGES PLAN**

Drawn L.Caha	Designed L.Caha	Date MAY 2018
Checked T.Dempsey	Approved A.Francis	Scale AS SHOWN @ A1
Drawing number 20224_DA_C130		Revision 01

CONCEPT