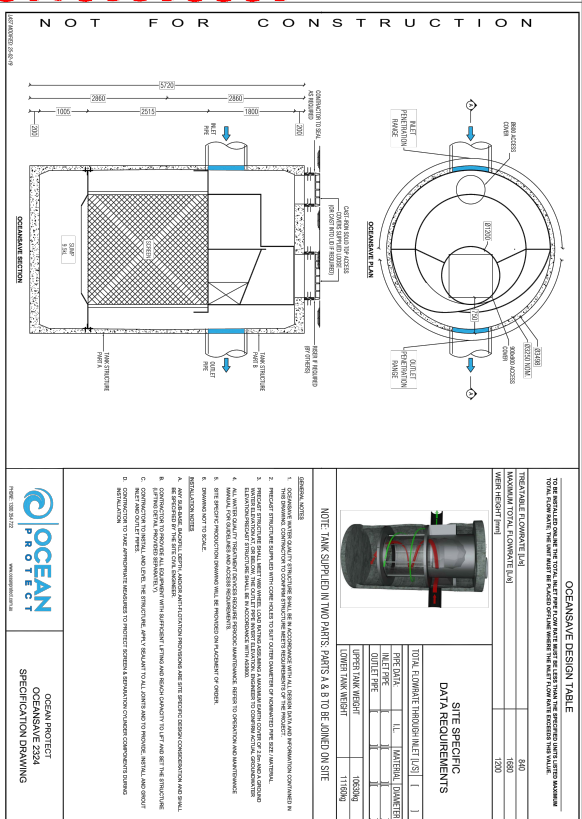
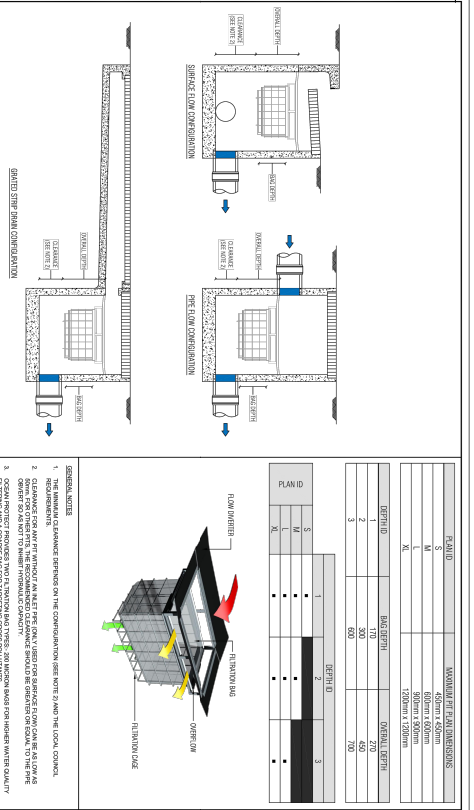
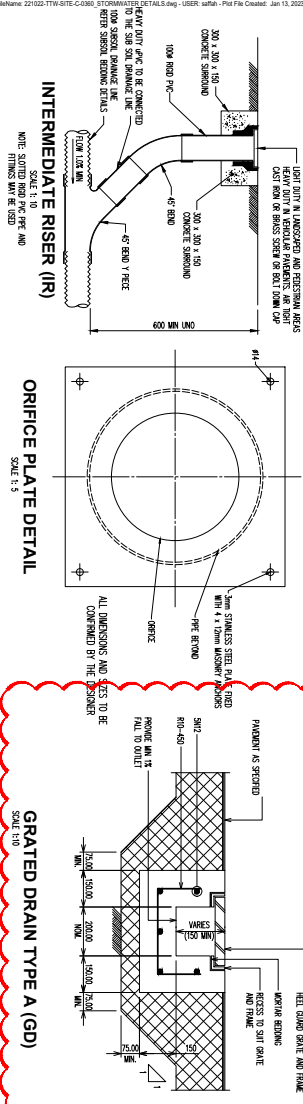
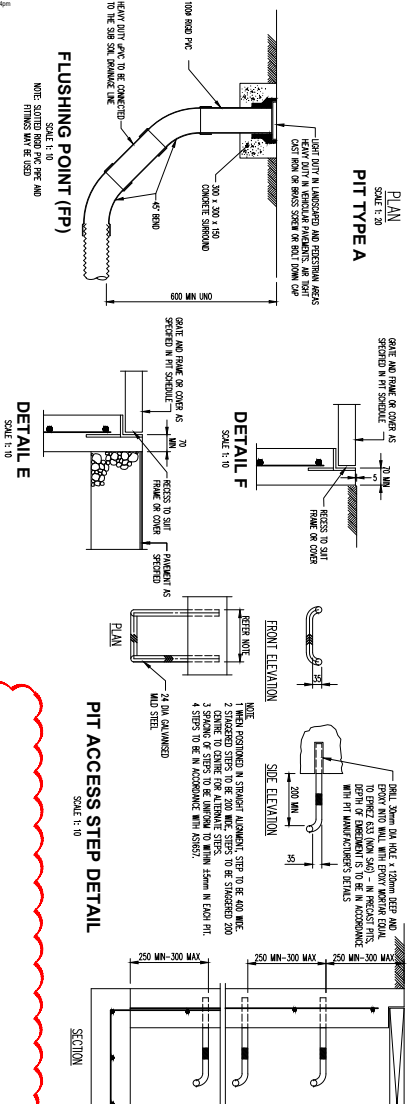
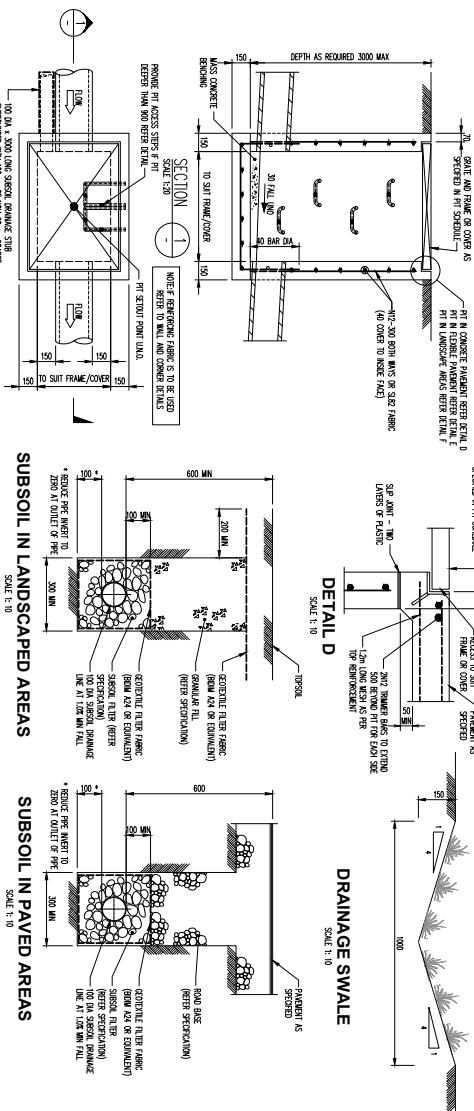
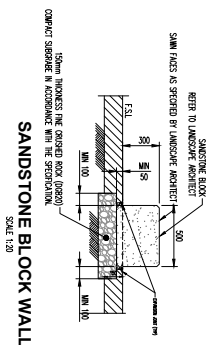


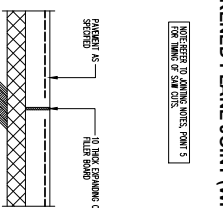
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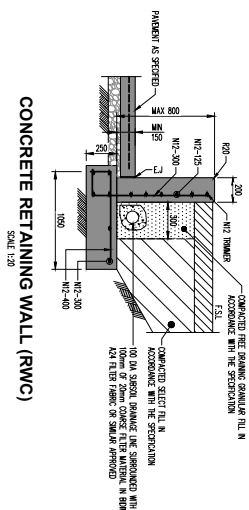




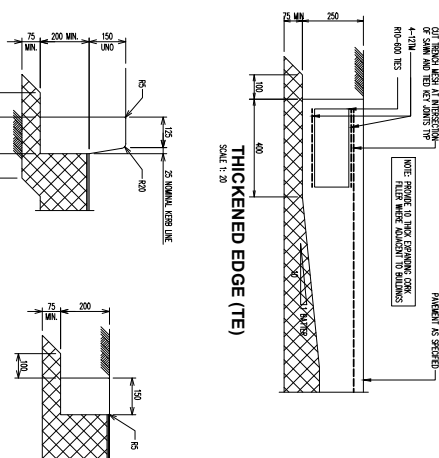
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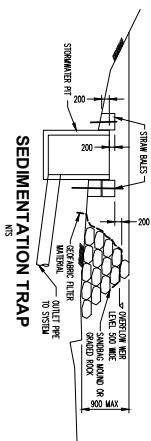
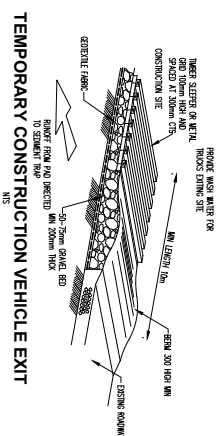
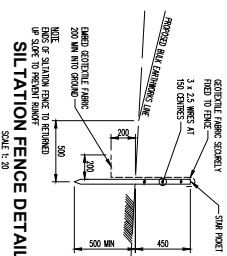
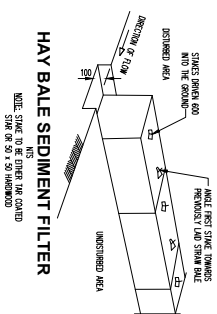
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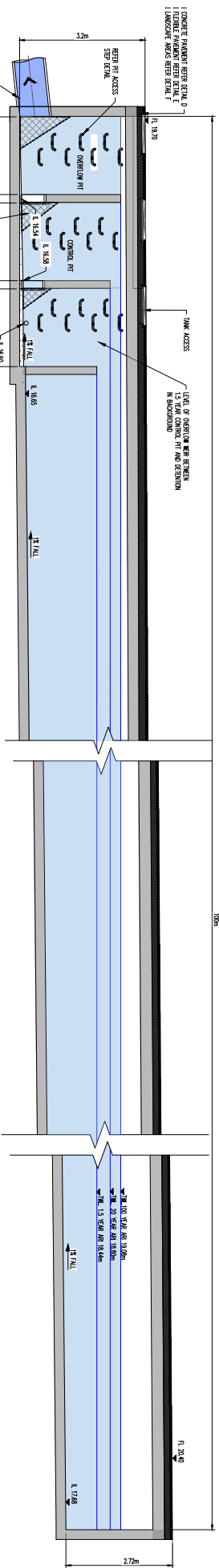
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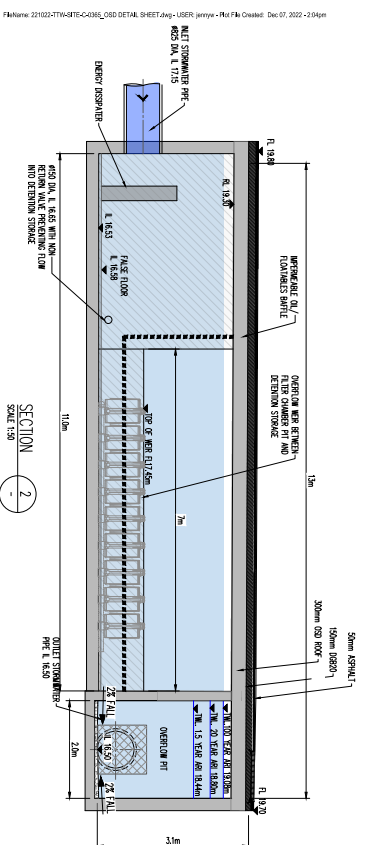
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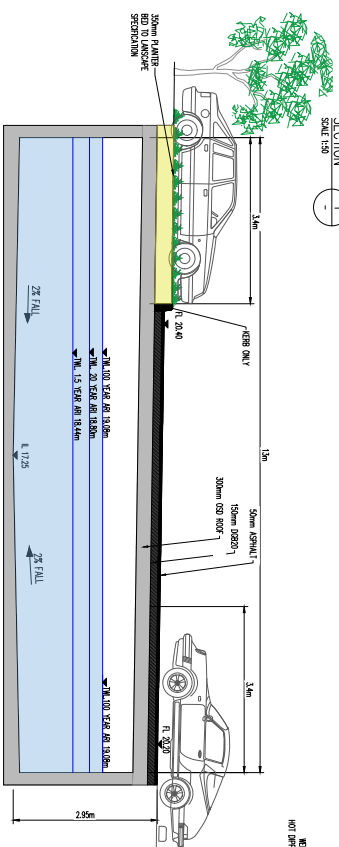
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SCALE 1:50



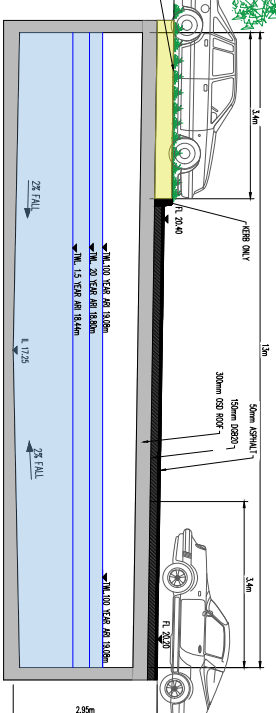
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SECTION 7
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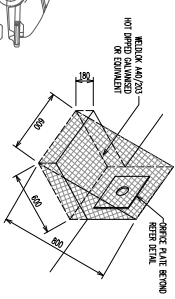
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TRASH SCREEN DETAIL

MTS

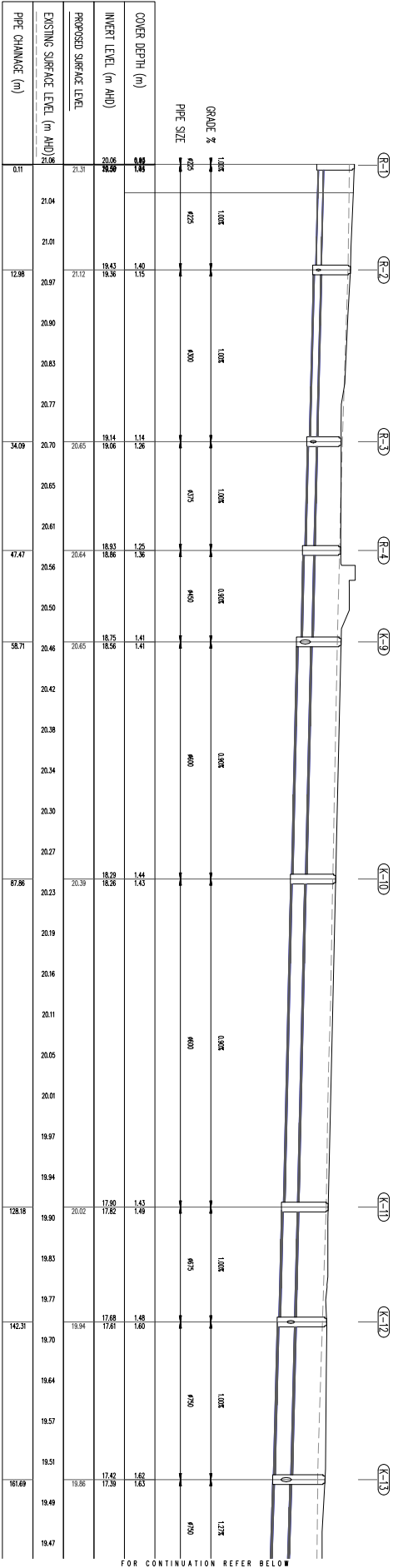


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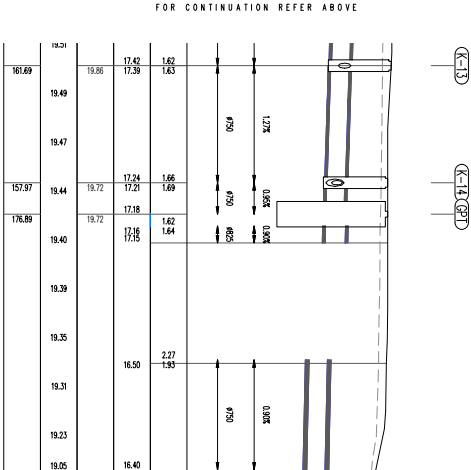
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SECTION
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		STUDIO N		612-9379 2208 (Level 6, 23) Miller Street, North Sydney, NSW 2060							
		9 09 2020		K 21 01/12/22						Scale: A1	
		10 09 2020		K 21 01/12/22						Orientation	
		11 09 2020		K 21 01/12/22						AS SHOWN	
		12 09 2020		K 21 01/12/22						SH	
		13 09 2020		K 21 01/12/22						22/10/22	
		14 09 2020		K 21 01/12/22						22/10/22-TTW-SITE-C-0365	
		15 09 2020		K 21 01/12/22						01	
		16 09 2020		K 21 01/12/22						Project created: Dec 07 2022 - 2:04pm	



PIT R-1 TO EXISTING 825 COUNCIL RCP PIPE LONGITUDINAL SECTION
Scale: 1:250 HORIZONTAL
1:100 VERTICAL

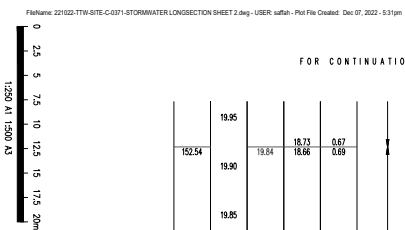


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1500 AT 1500 A3

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				NBS ARCHITECTURE				221022_221022-TTW-SITE-C-0370_01			
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				STONEY				221022_221022-TTW-SITE-C-0370_01			
				613-8430-72881 (Lot 6, 7) Millers Street, Marsden Sydney, NSW 2060				221022_221022-TTW-SITE-C-0370_01			
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				STONEY				221022_221022-TTW-SITE-C-0370_01			
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				613-8430-72881 (Lot 6, 7) Millers Street, Marsden Sydney, NSW 2060							

Scale: 1:250 HORIZONTAL
1:100 VERTICAL



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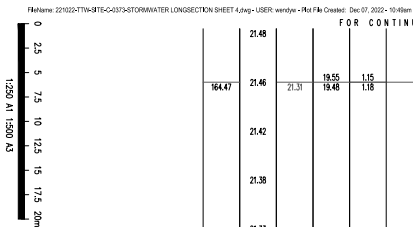
[illegible]

FOR CONTINUATION REFER ABOVE

Stationing	Elevation
144.82	20.01
18.15	20.08
19.05	20.93
1.95	20.93
1.54	20.86
529	20.78
529.7	20.72
175.44	20.67
20.74	20.61
18.80	20.56
18.77	20.51
1.41	20.47
529	20.46
529.7	20.46
190.77	20.46



		Architect		
		MARS ARCHITECTURE		
		1450 O'BRIEN ST SYDNEY		
		info@marsa.com 02 9202 2504		
Dr. OZ 3002	Dr. W 0122	Eng. Draft Date	Rev. Description	Eng. Draft Date
Dr. 001 0003	Dr. W 0122	Eng. Draft Date	Rev. Description	Eng. Draft Date
Project				
Engineer		Structural		
		MARSDEN PARK NEW HIGH SCHOOL AND MELONBA NEW PRIMARY SCHOOL, MELONBA		
612 9379 2281 (Land & 73) Miller Street, North Sydney, NSW 2060				
Sheet Label		Stormwater Longsection		
Sheet No.		1450		
Drawn By		TM		
Rev. No.		0		
Drawing No.		221022 221022-SW-SITE-C-0072 01		
Project Details: 221022 - 221022 - 014048				

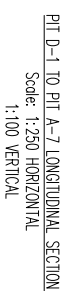
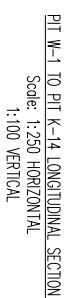


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COVER DEPTH (m)	INVERT LEVEL (m AHD)	PROPOSED SURFACE LEVEL	EXISTING SURFACE LEVEL (m AHD)	PIPE CHAINAGE (m)
0.90	20.73	21.63	21.73	0+00
1.00	20.48	21.48	21.48	0+10
1.00	20.45	21.45	21.45	0+20
1.00	20.45	21.45	21.45	0+30
1.00	20.45	21.45	21.45	0+40
1.00	20.45	21.45	21.45	0+50
1.00	20.45	21.45	21.45	0+60
1.00	20.45	21.45	21.45	0+70
1.00	20.45	21.45	21.45	0+80
1.00	20.45	21.45	21.45	0+90
1.00	20.45	21.45	21.45	0+100
1.00	20.45	21.45	21.45	0+110
1.00	20.45	21.45	21.45	0+120
1.00	20.45	21.45	21.45	0+130
1.00	20.45	21.45	21.45	0+140
1.00	20.45	21.45	21.45	0+150
1.00	20.45	21.45	21.45	0+160
1.00	20.45	21.45	21.45	0+170
1.00	20.45	21.45	21.45	0+180
1.00	20.45	21.45	21.45	0+190
1.00	20.45	21.45	21.45	0+200
1.00	20.45	21.45	21.45	0+210
1.00	20.45	21.45	21.45	0+220
1.00	20.45	21.45	21.45	0+230
1.00	20.45	21.45	21.45	0+240
1.00	20.45	21.45	21.45	0+250
1.00	20.45	21.45	21.45	0+260
1.00	20.45	21.45	21.45	0+270
1.00	20.45	21.45	21.45	0+280
1.00	20.45	21.45	21.45	0+290
1.00	20.45	21.45	21.45	0+300
1.00	20.45	21.45	21.45	0+310
1.00	20.45	21.45	21.45	0+320
1.00	20.45	21.45	21.45	0+330
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1.00	20.45	21.45	21.45	0+360
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1.00	20.45	21.45	21.45	0+380
1.00	20.45	21.45	21.45	0+390
1.00	20.45	21.45	21.45	0+400
1.00	20.45	21.45	21.45	0+410
1.00	20.45	21.45	21.45	0+420
1.00	20.45	21.45	21.45	0+430
1.00	20.45	21.45	21.45	0+440
1.00	20.45	21.45	21.45	0+450
1.00	20.45	21.45	21.45	0+460
1.00	20.45	21.45	21.45	0+470
1.00	20.45	21.45	21.45	0+480
1.00	20.45	21.45	21.45	0+490
1.00	20.45	21.45	21.45	0+500
1.00	20.45	21.45	21.45	0+510
1.00	20.45	21.45	21.45	0+520
1.00	20.45	21.45	21.45	0+530
1.00	20.45	21.45	21.45	0+540
1.00	20.45	21.45	21.45	0+550
1.00	20.45	21.45	21.45	0+560
1.00	20.45	21.45	21.45	0+570
1.00	20.45	21.45	21.45	0+580
1.00	20.45	21.45	21.45	0+590
1.00	20.45	21.45	21.45	0+600
1.00	20.45	21.45	21.45	0+610
1.00	20.45	21.45	21.45	0+620
1.00	20.45	21.45	21.45	0+630
1.00	20.45	21.45	21.45	0+640
1.00	20.45	21.45	21.45	0+650

FOR CONTINUATION REFER ABOVE

[illegible]



Retention

0 2.5 5 7.5 10 12.5 15 17.5 20m

1:250 A1 1:500 A3

[illegible]



This drawing is copyright and is the property of ITW and must not be used without authorization.

Legend:

- ST ROUTER
- PROPOSED ISOLATED BOUNDARY
- ST FEED
- ×E22.0
- ×P22.0
- ENGINE SURFACE LEVEL
- FINISH SURFACE LEVEL
- UNFINISHED SURFACE CHORD
- UNFINISHED SURFACE CHORD
- UNFINISHED SURFACE CHORD
- 0.1m INTERNAL
- KEYS AND OTHER
- NO
- NO
- KEYS ONLY
- ENGINE SURFACE PREP
- ×E22.0
- ×P22.0
- ENGINE SURFACE LEVEL
- FINISH SURFACE LEVEL
- UNFINISHED SURFACE CHORD
- UNFINISHED SURFACE CHORD
- UNFINISHED SURFACE CHORD
- 0.1m INTERNAL
- KEYS AND OTHER
- NO
- NO
- KEYS ONLY
- ENGINE SURFACE PREP

EXISTING SERVICES LEGEND

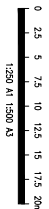
— eA —	EXISTING OVERHEAD ELECTRICAL
— eEU —	EXISTING UNDERGROUND ELECTRICAL
— eG —	EXISTING GAS
— eT —	EXISTING TELECOMMUNICATIONS
— eS —	EXISTING SEWER
— eW —	EXISTING WATER
— eSW —	EXISTING STORMWATER

WORKS NEAR EXISTING SERVICES
ALL EXISTING UNDERGROUND SERVICES ARE TO BE LOCATED PRIOR TO COMMENCING WORKS

PAVEMENT LEGEND

 New Asphalt vehicular pavement to match existing

Self-masking to be retained	Masked to be retained	Editing Probab to be retained	New concrete inputs to BCC specifications

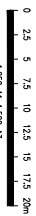


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[illegible]



IS NOT TO BE USED FOR CONSTRUCTION



LEGEND	
	SITE BOUNDARY
	PROPOSED SUSTAINED CROWDER
	SITE FENCE
	EXISTING STAKE LEVEL
	PROPOSED STAKE LEVEL
	WATER MAINS SURFACE CONDUIT
	10m INTERVAL
	22.20
	WATER MAINS SURFACE CONDUIT
	0.2m INTERVAL
	WATER AND OTHER
	NO
	WATER ONLY
	EXISTING STAKEHOLDER FENCE
	CSW

	1. DUE TO THE LOCATION OF THE STAKE
	2. THE STAKE IS NOT SUFFICIENTLY RELOCATED TO SURVEYED DESIGN
	3. EXISTING STAKE IS MARKED BY IMPROVED SIGNAGE
	4. NO STAKEWAY SIGN TO BE MAINTAINED

EXISTING SERVICES LEGEND

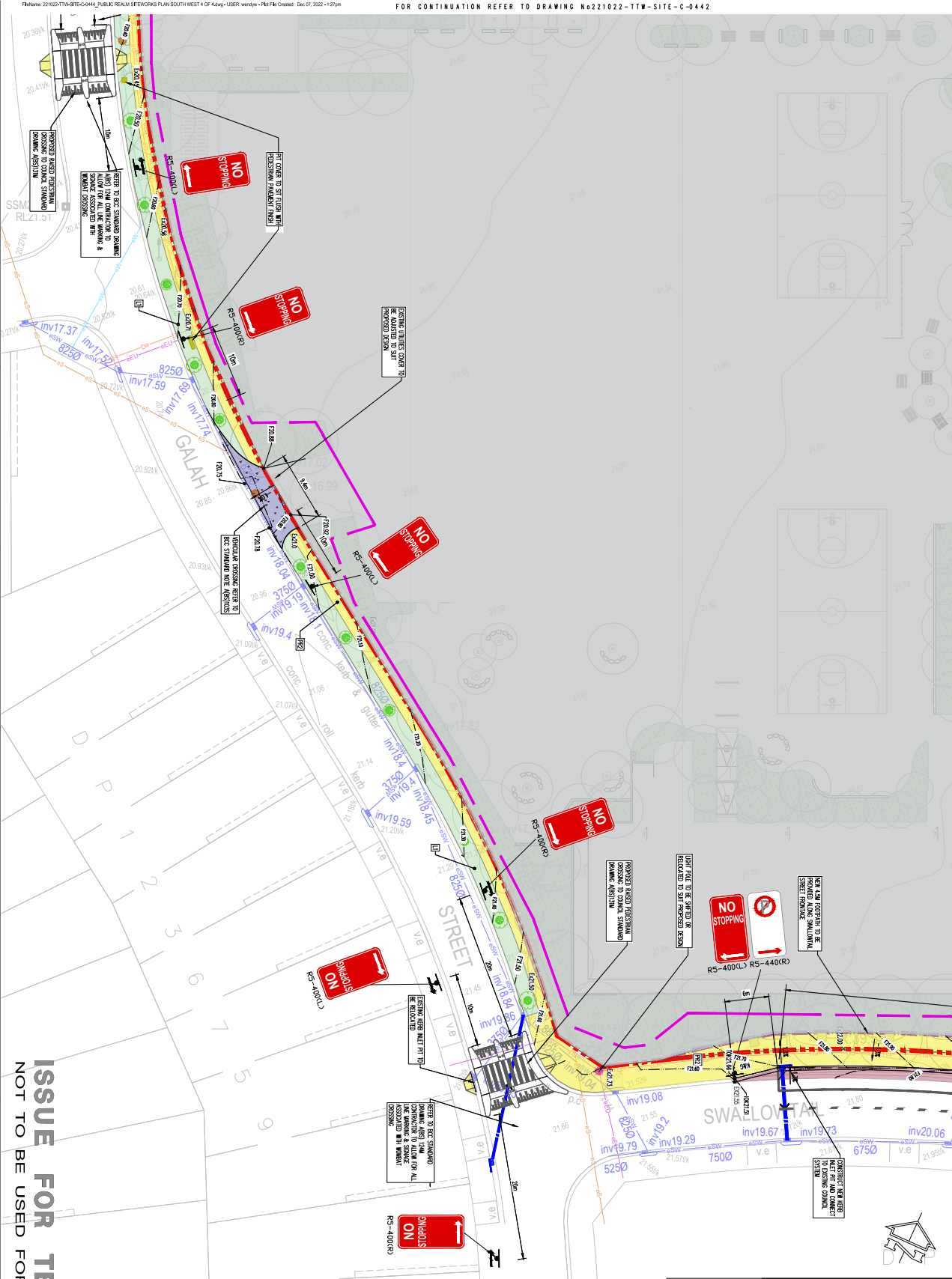
—oE—	EXISTING OVERHEAD ELECTRICAL
—eU—	EXISTING UNDERGROUND ELECTRICAL
—eG—	EXISTING GAS
—eT—	EXISTING TELECOMMUNICATIONS
—eS—	EXISTING SEWER
—eW—	EXISTING WATER
—eSW—	EXISTING STORMWATER

WORKS NEAR EXISTING SERVICES
ALL DISTINGUISHING SERVICES ARE TO BE LOCATED PRIOR TO COMMENCING WORKS

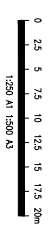
EXISTING STORMWATER ASSETS
SIZE, INVERT LEVEL AND CONDITION OF ALL AFFECTED EXISTING STORMWATER ASSETS TO BE CONFIRMED PRIOR TO COMMENCING WORKS

I Soft language to be remembered	FBI Hard logical structure presented in simple setting
FBI Medium hard to be remembered	FBI Easy to remember to be forgotten

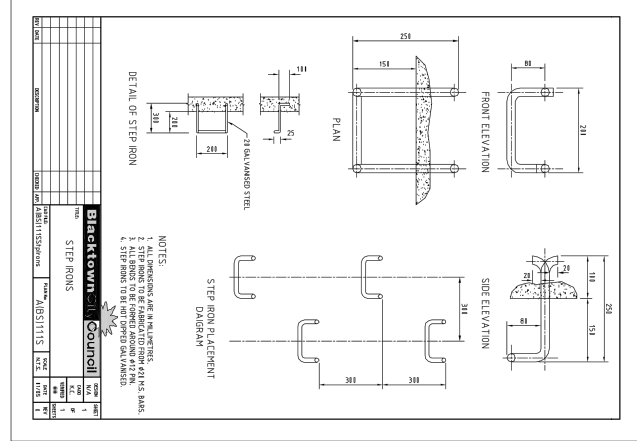
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Revision				Author			
01	REV	01/23	01/23	MR	SI	01/23	01/23
02	REV	01/23	01/23	MR	SI	01/23	01/23
03	REV	01/23	01/23	MR	SI	01/23	01/23
04	REV	01/23	01/23	MR	SI	01/23	01/23
05	REV	01/23	01/23	MR	SI	01/23	01/23
06	REV	01/23	01/23	MR	SI	01/23	01/23
07	REV	01/23	01/23	MR	SI	01/23	01/23
08	REV	01/23	01/23	MR	SI	01/23	01/23
09	REV	01/23	01/23	MR	SI	01/23	01/23
10	REV	01/23	01/23	MR	SI	01/23	01/23
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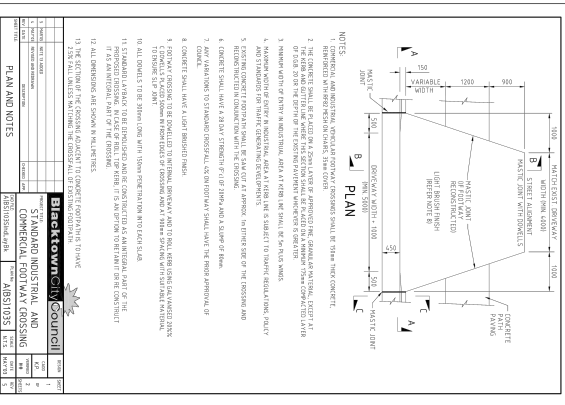
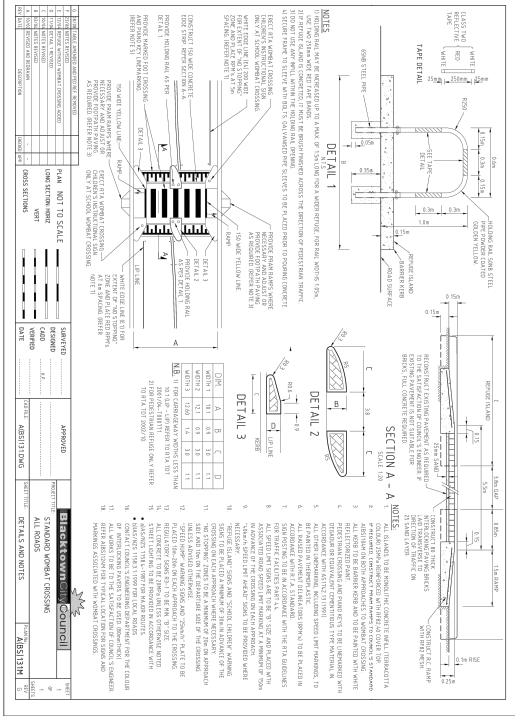
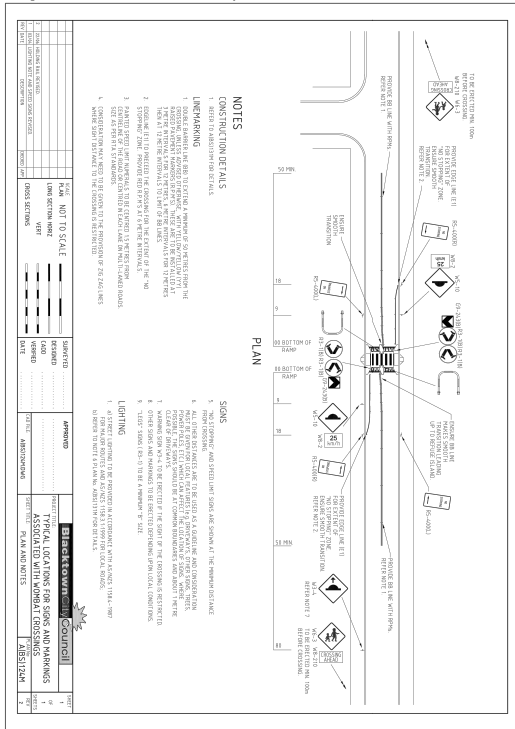
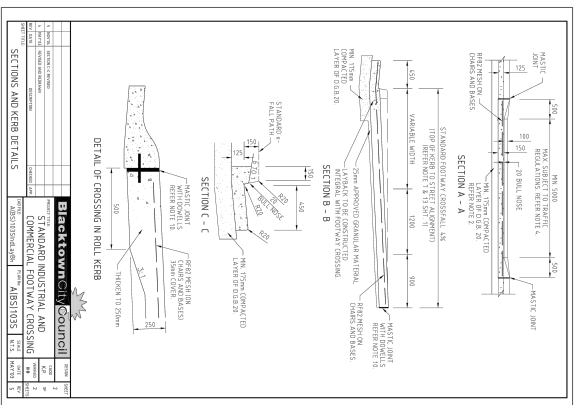
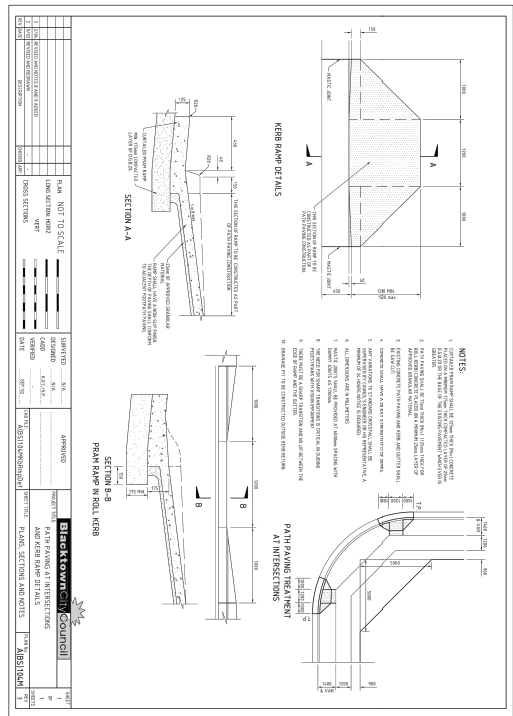
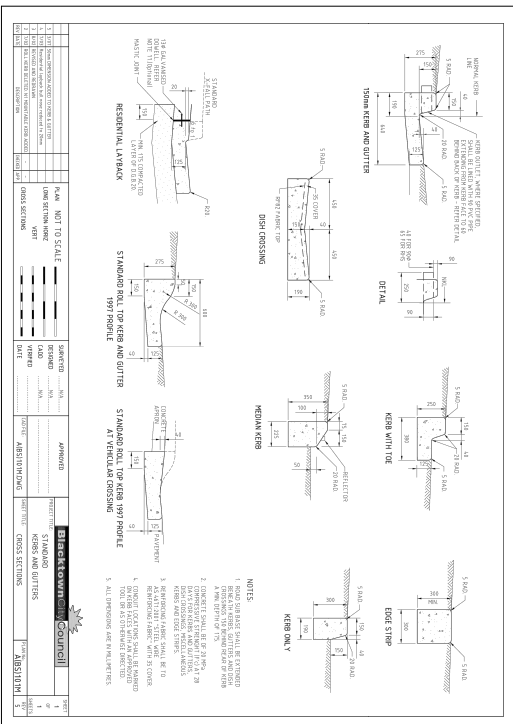
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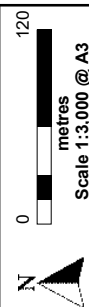
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ISSUE FOR TENDER ONLY
NOT TO BE USED FOR CONSTRUCTION

Appendix B

J Wyndham Prince Precinct Wide Flood Plan Study



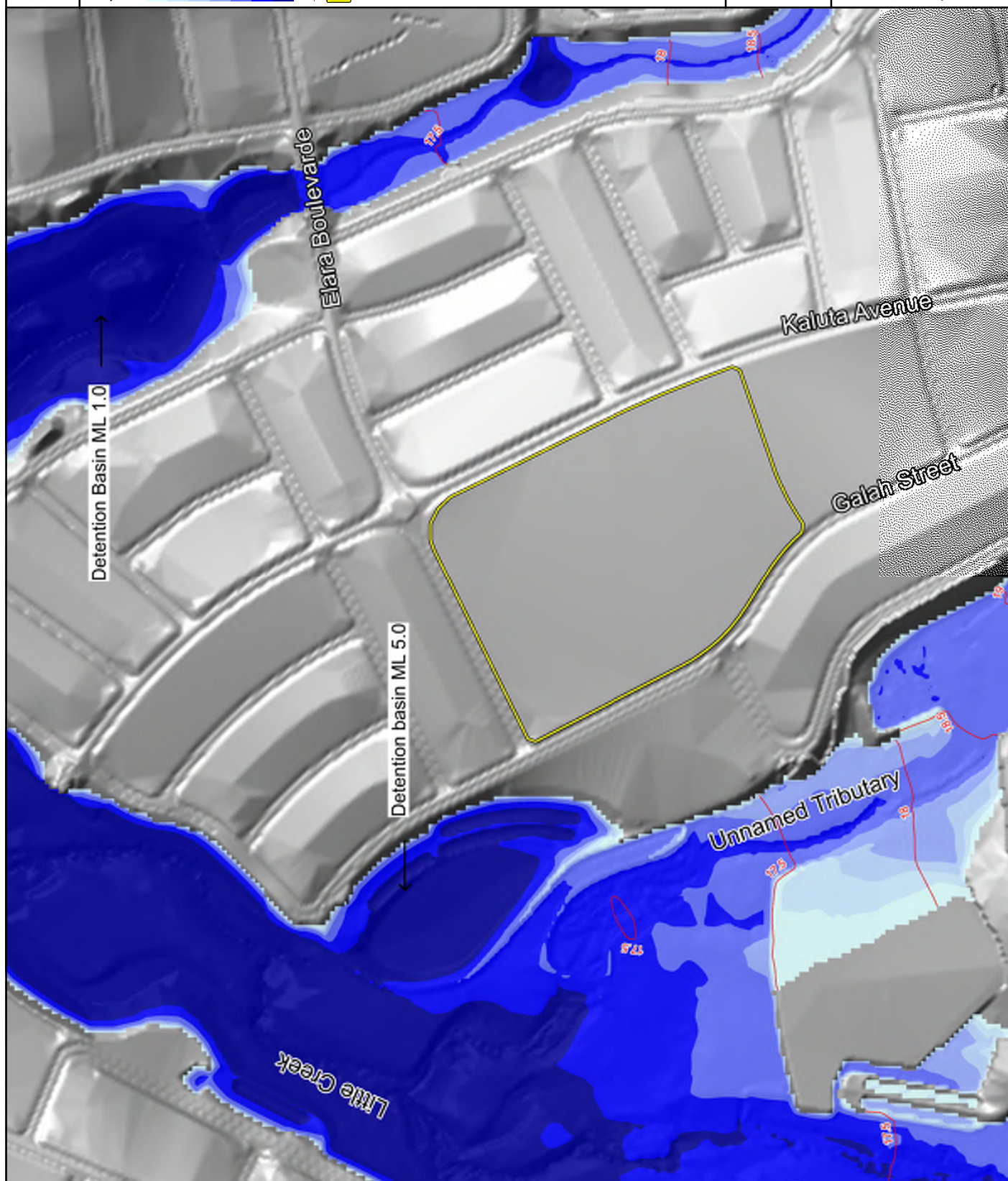
Projection: GDA 1994 MGA Zone 56

Figure 1

**Marsden Park
Secondary School**

**Local 1% AEP + Regional 1% AEP
Tailwater (17.3 m AHD) + 25% Block
Developed Conditions
Flood Depths and Levels**

Date: 14/10/2020



LEGEND

FLOOD HAZARD



Projection: GDA 1994 MGA Zone 56

Figure 2

Marsden Park Secondary School

Local 1% AEP + Regional 1% AEP
Tailwater (17.3 m AHD) + 25% Block
Developed Conditions
Flood Hazard

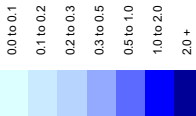
Date: 14/10/2020

Issue: A



LEGEND

FLOOD DEPTH (m)



0.5 m Flood Contours (m AHD)

Marsden Park
Secondary School Site



Projection: GDA 1994 MGA Zone 56

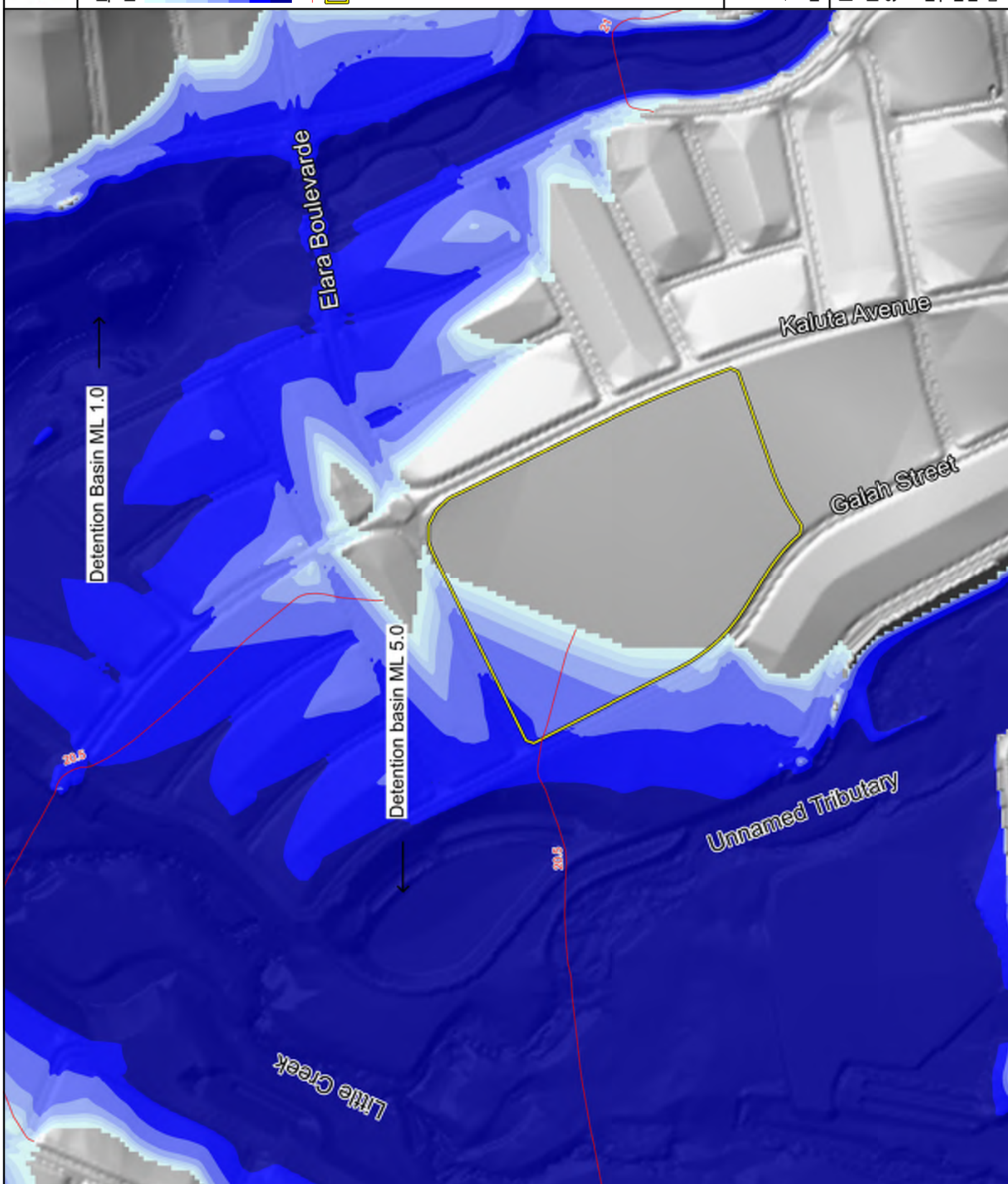
Figure 3

**Marsden Park
Secondary School**

Local PMF + Regional 1% AEP
Tailwater (17.3 m AHD) + 25% Block
Developed Conditions
Flood Depths and Levels

Date: 28/10/2020

Issue: B



LEGEND

FLOOD HAZARD



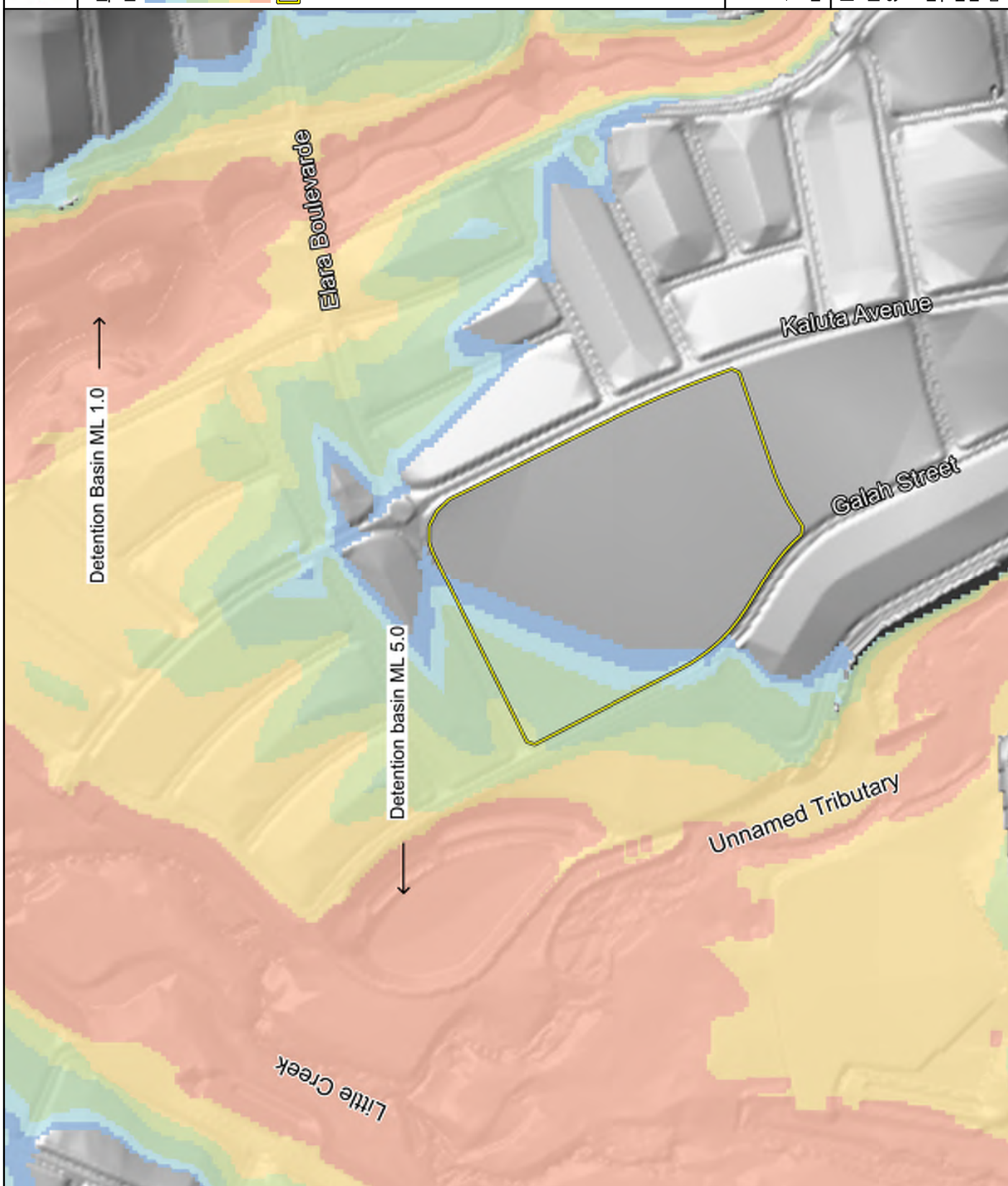
Projection: GDA 1994 MGA Zone 56

Figure 4

**Marsden Park
Secondary School**

Local PMF + Regional 1% AEP
Tailwater (17.3 m AHD) + 25% Block
Developed Conditions
Flood Hazard

Date: 28/10/2020
Issue: B



Appendix C

Council Flood Advice Letter



File no: 386883

31 May 2022

Mitchell Leighton

Dear Mitchell

Elara Boulevard Melonba being Lot 30 in DP 1237735

I refer to your email of 17th May 2022 regarding flood information for the above property.

Flood Assessment

Based on the latest information available to us from consultants and/or statutory authorities, this property is identified as under State Environmental Planning Policy (SEPP) Flooding.

The property is also currently identified in the Low, Medium and High Flood Risk Precinct of the Little Creek floodplain.

Recommendations

Council's Asset Design section would require for the construction of an educational establishment (Primary School and High School) the preliminary minimum floor level to be the highest adjacent 1% Annual Exceedance Probability (AEP) plus 500mm. However, based on the filling for the subdivision this has already been considered.

Sensitive developments such as primary schools and high schools require a higher standard of flood protection due to the age of and potential risk to the occupants. In most of these, sufficient area above the Probable Maximum Flood (PMF) may need to be demonstrated for all occupants to shelter-in-place. Emergency back-up generators (if provided) and flood related infrastructure are to be installed above the PMF.

For further information we direct you to view Blacktown City Council's Water Sensitive Urban Design (WSUD) Developer Handbook.

This document is published on Blacktown City Council's website:

<https://www.blacktown.nsw.gov.au/Plan-build/Stage-2-plans-and-guidelines/Developers-toolkit-for-water-sensitive-urban-design-WSUD/MUSIC-modelling>

Connect - Create - Celebrate

Council Chambers - 62 Flushcombe Road - Blacktown NSW 2148

Telephone: (02) 9839 6000 - DX 8117 Blacktown

Email: council@blacktown.nsw.gov.au - Website: www.blacktown.nsw.gov.au

All correspondence to: The General Manager - PO Box 63 - Blacktown NSW 2148

Background

Please read this letter in conjunction with Attachment A, General Flood Information and Attachment B, Complying Development Information.

Please find attached a copy of an extract from Council's Geographical Information System (GIS) showing the approximate extent of Blacktown City's flood information in this area. Please note the disclaimer and the contour interval of 0.5 metres.

The preliminary 1% Annual Exceedance Probability (AEP) flood level for the subject property is 17.3 metres to Australian Height Datum (AHD).

The preliminary Probable Maximum Flood (PMF) level for the subject property is 26.4 metres to AHD.

The SEPP maps (shown as light blue hatching) indicate the extent of flood prone land based on existing conditions at the time of preparing the precinct planning. Therefore, they may not include any changes resulting from subsequent development or infrastructure works.

A current Section 10.7(2) Certificate would include the following paragraph:

"This lot is shown flood prone on mapping provided by the Department of Planning. The investigation for this area has not been completed and all enquiries should be directed to the Department of Planning. Flood related development controls for this lot are provided in the Development Control Plan for this area, prepared by the Department of Planning. Where development is proposed within or adjacent to land that is shown on the Flood Prone Land figure as being affected by the 1% AEP level, Council may require a more detailed flood study to be undertaken by the applicant to confirm the extent on the flood affectation on that land."

The property is subject to *State Environmental Planning Policy (Sydney Region Growth Centres) 2006*. It is identified on the Development Control Map as "Flood Prone and Major Creeks Land". Clause 19 of the Growth Centres SEPP provides heads of consideration when a development application is lodged on land affected by "Flood Prone and Major Creeks Land"

A current Section 10.7(2) Certificate would also include the following paragraphs:

"Council has adopted a Floodplain Management Policy which may restrict the development of the land subject to this Certificate, including development for the purposes of dwelling houses, dual occupancies, multi-dwelling housing, residential flat buildings and any other purpose that requires the placement or erection of any structure on the land. The Flood Risk Precinct Maps prepared under the policy are based on the results of Engineering Flood Studies commissioned by Government Authorities and Council. These maps indicate that the land subject to this Certificate lies partly or wholly within the Medium and High Flood Risk Precincts.

The term Medium Flood Risk Precinct is defined as land below the 100-year flood level that is not within a High Flood Risk Precinct. This is land that is not subject to a high hydraulic hazard or where there are no significant evacuation difficulties. Further details are provided in the NSW Government's Floodplain Development Manual and are available from Council. Council does not warrant that the information provided or made available to you is complete. Council strongly recommends that, in all cases, you seek independent professional advice to supplement your enquiries.

The term High Flood Risk Precinct is defined as the area of land below the 100-year flood event that is either subject to a high hydraulic hazard or where there are significant evacuation difficulties. Further details are provided in the NSW Government's Floodplain Development Manual and are available from Council. Council does not warrant that the information provided or made available to you is complete. Council strongly recommends that, in all cases, you seek independent professional advice to supplement your enquiries."

Council acknowledges that the subdivision works that have been carried out in the local area will require the amendment of the SEPP mapping and Council Flood Maps. The current process to amend the SEPP mapping is for a planning proposal to be prepared by the developer and/or property owner. The planning proposal process is lengthy and will generally take a minimum of 2 to 3 years. Council is currently investigating an alternative process with the Department of Planning and Environment to enable these types of housekeeping amendments to be made more efficiently hence quicker. Similarly, Council's flood mapping will also have to be amended and this process is being investigated. Unfortunately, the current notations will remain until this issue is resolved.

Council's flood mapping is available on Council's web site. To start go to <http://maps.blacktown.nsw.gov.au>. Council's flood mapping only covers the areas where it has information. A property that is not identified does not mean that there are no flood issues. It is the responsibility of the person enquiring to check the natural fall of the land and to ensure that the subject property is not affected by local stormwater overland flows that might affect existing or future development on this land.

However, please also be advised that there may be other non-flood related issues that might impact on the use of the land.

If you would like to discuss this matter further, please contact me on 0428 556 024.

Yours faithfully

A handwritten signature in black ink, appearing to read 'P McAteer', with a stylized, cursive script.

Philip McAteer
Floodplain and Stormwater Team Leader

Encl. Attachment A & B, Flood map.

Disclaimer:

The information contained in this letter is only valid on the date of issue. This letter has been prepared with all due care and in good faith using the best information available to us.

We provide no warranties in relation to the completeness or accuracy of the information contained in this letter, and do not accept liability for any loss or damage resulting from, or in connection with, its contents or its use.

Attachment A

General Flood Information

The flood levels supplied are for the pre developed existing conditions

The flood levels supplied do not take climate change into consideration. These flood levels should not be used to set floor levels or to identify the extent of flooding over the property as our current flood models may not have included blockage factors nor changes in land-use and landform since the date of the study.

Probable Maximum Flood

This is the largest flood that could conceivably occur at a particular location. The PMF defines the extent of flood prone land that is, the floodplain. The risk of it happening in any one year is extremely rare and is considered to be between a 1 in 100,000 to a 1 in 10,000,000 chance.

1% AEP Flood

This is a flood that has a probability of 1% (or a 1 in 100 chance) of occurring in any given year.

Flood risk precincts

Precincts have been defined based on hydraulic and survey information available to Council. In many cases a more definitive indication of flood risk precinct extents can be determined by relating surveyed ground levels at AHD to the relevant hydraulic and/or flood level criteria.

The Low Flood Risk Precinct is all land within the floodplain, i.e. within the extent of the Probable Maximum Flood (PMF) but not identified as either a high flood risk or medium flood risk precinct. Therefore, the Low Flood Risk Precinct is all the land between the 1% AEP and PMF flood extents.

The Medium Flood Risk Precinct is the land below the 1% AEP flood level subject to a low hydraulic hazard (in accordance with the provisional criteria outlined in the N.S.W. Government Floodplain Development Manual 2005).

The High Flood Risk Precinct is the land subject to a high hydraulic hazard (in accordance with the provisional criteria outlined in the N.S.W. Government Floodplain Development Manual 2005) in a 1% AEP flood event and/or subject to potential evacuation difficulties during a flood.

“Development on Flood Prone Land” guidelines

Our guidelines can be found in “Blacktown Development Control Plan (DCP) 2015 Part A” publication. This publication is available on Council’s Website “www.blacktown.nsw.gov.au”. To find this document click on Planning and Development tab on the home page and then select Blacktown Development Control Plan 2015. This publication is currently under review in respect of floodplain planning issues.

Council’s flood mapping is available on Council’s web site

To start click Discover Blacktown tab on the home page and then select Maps Online and follow the instructions. Council’s flood mapping only covers the areas where it has information. A property that is not identified does not mean that there are no flood issues. It is the responsibility of the person enquiring to check the natural fall of the land and to ensure that the subject property is not affected by local stormwater overland flows that might affect existing or future development on this land.

Flood Planning Level

The Flood Planning Level is a special area of the Low Flood Risk Precinct that is within the 0.5m freeboard of the 1% AEP flood level.

We are currently reviewing the flood modelling in this area

Finalisation of this modelling work may result in a variation to the quoted flood levels and amendments to our current flood mapping extents. The flood levels shown are under review and therefore are preliminary information only.

Attachment B

Complying Development Information

The information you seek may vary between “complying development” ie: routine development which has minimal environmental impact, providing the design complies with each relevant development standard of the pertinent State Environmental Planning Policy (SEPP) or “local development” ie: development, including State significant development, which may have significant environmental impact and for which a Development Consent and Construction Certificate are required under the Environmental Planning and Assessment Act 1979.

The property is identified on Council’s records as being a flood control lot as it is affected by “Medium Flood Risk Precinct” according to the latest information available to Council. The Medium Flood Risk Precinct is considered to be the equivalent of “a flow path” for the purposes of State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

Where your enquiry relates to a proposed Complying Development Certificate (CDC), any flood control lot provisions of the relevant SEPP must be investigated.

The SEPP may provide that a CDC cannot be issued for any flood control lot until either Council or a professional engineer who specialises in hydraulic engineering (eg: a person holding the relevant accreditation under the NSW Building Professionals Board accreditation scheme) certifies that the land is not a flood storage area, a floodway area, a flow path, a high hazard area or a high-risk area.