

04 November 2024

Attention: Chief Executive Officer Mareeba Shire Council 65 Rankin Street Mareeba QLD 4880 Our reference: 004-2403

Operational Works Application - REC/07/0083 - 189 Ray Road, Mareeba

We refer to the operational works approval (REC/07/0083) issued by Mareeba Shire Council 31 January 2008. On behalf of T W Hedley Pty Ltd, please find enclosed an Operational Works Application for Stage 2 of this development (23 lots) for your consideration and approval:

- DA Form 1. Development Application Details
- FNQROC Development Manual Statement of Compliance.
- Stormwater Calculations
- Engineering drawings.

A review of the previously approved design against the current FNQROC Development Manual and current engineering standards resulted in design amendments, in particular with respect to the stormwater drainage.

We have calculated the application assessment fee in the amount of \$5,284.00 (\$1,742 base fee plus \$154 per lot x 23 lots) based on Council's current schedule of fees and charges. The electrical engineering submission will be submitted in the same application under separate cover.

To assist with your approval of this application we are happy to attend a lodgement meeting to discuss the application details. Should you require any additional information, please do not hesitate to me on 0402 568 698 or the email address below.

Yours sincerely

Craig Caplick

Principal Engineer | RPEng RPEQ 25102 craig@consultneon.com.au | 0402 568 698

- 1 - 004-2308-L-001

DA Form 1





Attachment 1 004-2308-L-001

DA Form 1 – Development application details

Approved form (version 1.4 effective 15 December 2023) made under section 282 of the Planning Act 2016.

This form **must** be used to make a development application **involving code assessment or impact assessment**, except when applying for development involving only building work.

For a development application involving **building work only**, use *DA Form 2 – Building work details*.

For a development application involving **building work associated with any other type of assessable development (i.e. material change of use, operational work or reconfiguring a lot)**, use this form (*DA Form 1*) **and** parts 4 to 6 of *DA Form 2 – Building work details*.

Unless stated otherwise, all parts of this form **must** be completed in full and all required supporting information **must** accompany the development application.

One or more additional pages may be attached as a schedule to this development application if there is insufficient space on the form to include all the necessary information.

This form and any other form relevant to the development application must be used to make a development application relating to strategic port land and Brisbane core port land under the *Transport Infrastructure Act 1994*, and airport land under the *Airport Assets (Restructuring and Disposal) Act 2008*. For the purpose of assessing a development application relating to strategic port land and Brisbane core port land, any reference to a planning scheme is taken to mean a land use plan for the strategic port land, Brisbane port land use plan for Brisbane core port land, or a land use plan for airport land.

Note: All terms used in this form have the meaning given under the Planning Act 2016, the Planning Regulation 2017, or the Development Assessment Rules (DA Rules).

PART 1 – APPLICANT DETAILS

1) Applicant details	
Applicant name(s) (individual or company full name)	T W Hedley Pty Ltd
Contact name (only applicable for companies)	
Postal address (P.O. Box or street address)	c-/ Neon Consulting – 11 Rosemont Court
Suburb	Mooroobool
State	Queensland
Postcode	4870
Country	Australia
Contact number	0402 568 698
Email address (non-mandatory)	Craig@ConsultNeon.com.au
Mobile number (non-mandatory)	
Fax number (non-mandatory)	
Applicant's reference number(s) (if applicable)	004-2403

2) Owner's consent
2.1) Is written consent of the owner required for this development application?
☐ Yes – the written consent of the owner(s) is attached to this development application
No − proceed to 3)



PART 2 – LOCATION DETAILS

Note:		below a	nd attach		3.1) or 3.2), and a lan for any or al			ent application. For further information, see <u>DA</u>
	Street addre			olan				
					l lots must be lis	sted), or		
☐ St	reet addres	s AND	lot on p	olan fo		g or adjacen		ne premises (appropriate for development in
	Unit No. Street No. Street Name and Type Suburb					Suburb		
, 1		189		Ray Road			Mareeba	
a)	Postcode	Lot No. P		Plan	Type and Nu	ımber (e.g. F	P.P., SP)	Local Government Area(s)
İ	4880	46		SP21	0288			Mareeba Shire Council
	Unit No.	Street	t No.	Stree	t Name and	Туре		Suburb
L.\								
b)	Postcode	Lot N	0.	Plan	Type and Nu	ımber (e.g. F	PP, SP)	Local Government Area(s)
İ								
6	Coordinates e.g. channel dre Place each set	edging ir	n Moreton	Bay)		nent in remote	areas, over part c	f a lot or in water not adjoining or adjacent to land
					ude and latitu	ıde		
	itude(s)	л рготп	Latitud		ado ana latite	Datum		Local Government Area(s) (if applicable)
Long	itado(o)		Lautac	40(0)		□ WGS84	1	
						☐ GDA94	-	
						Other:		
□ C	oordinates o	of prem	ises by	eastin	g and northir	ng	-	
Easti	ng(s)	North	ning(s)		Zone Ref.	Datum		Local Government Area(s) (if applicable)
					<u></u> 54	☐ WGS84		
					<u></u> 55	☐ GDA94		
					☐ 56	Other:		
3.3) A	Additional pr	emises	5					
☐ A	dditional pre	mises	are rele	evant to	o this develo	pment appli	cation and the	details of these premises have been
		schedu	ıle to thi	is deve	elopment app	olication		
⊠ N	ot required							
4) lde	entify any of	the fol	lowina t	that ap	ply to the pre	emises and	orovide any re	levant details
In or adjacent to a water body or watercourse or in or above an aquifer Name of water body, watercourse or aquifer:								
					•	astructure A	ct 1994	
On strategic port land under the <i>Transport Infrastructure Act 1994</i> Lot on plan description of strategic port land:								
	e of port aut	•		•				
	a tidal area			-				
			ent for t	he tida	al area (if annli	cable):		
	Name of local government for the tidal area (if applicable): Name of port authority for tidal area (if applicable):							
	<u> </u>					ucturing and	l Disposal) Ac	t 2008

Name of airport:				
Listed on the Environmental Management Register (E	MR) under the Environmental Protection Act 1994			
EMR site identification:				
Listed on the Contaminated Land Register (CLR) und	er the Environmental Protection Act 1994			
CLR site identification:				
5) Are there any existing easements over the premises?				
Note: Easement uses vary throughout Queensland and are to be identified correctly and accurately. For further information on easements and how they may affect the proposed development				
Yes – All easement locations, types and dimensions a application	are included in plans submitted with this development			

PART 3 – DEVELOPMENT DETAILS

Section 1 – Aspects of development

6.1) Provide details about the	e first development aspect			
a) What is the type of develo	pment? (tick only one box)			
☐ Material change of use	Reconfiguring a lot	○ Operational work	☐ Building work	
b) What is the approval type?	? (tick only one box)			
□ Development permit	☐ Preliminary approval	☐ Preliminary approval that	includes a variation approva	
c) What is the level of assess	sment?			
	Impact assessment (requi	res public notification)		
d) Provide a brief description 3 lots):	of the proposal (e.g. 6 unit apar	rtment building defined as multi-unit o	lwelling, reconfiguration of 1 lot into	
Stage 2 – 23 lot subdivision	n			
e) Relevant plans Note: Relevant plans are required to Relevant plans.	o be submitted for all aspects of this	development application. For further	information, see <u>DA Forms guide:</u>	
Relevant plans of the prop	posed development are attac	hed to the development appli	cation	
6.2) Provide details about the	e second development aspec	t		
a) What is the type of develo	pment? (tick only one box)			
☐ Material change of use	Reconfiguring a lot	Operational work	☐ Building work	
b) What is the approval type?	? (tick calv one box)			
Development permit	☐ Preliminary approval	☐ Preliminary approval that approval	t includes a variation	
c) What is the level of assess	sment?			
Code assessment	Impact assessment (requi	res public notification)		
d) Provide a brief description 3 lots):	of the proposal (e.g. 6 unit apar	rtment building defined as multi-unit o	welling, reconfiguration of 1 lot into	
e) Relevant plans Note: Relevant plans are required to be submitted for all aspects of this development application. For further information, see <u>DA Forms Guide:</u> Relevant plans.				
		thed to the development appli	cation	
6.3) Additional aspects of dev	<u> </u>			
		development application and of this form have been attach		

Section 2 – Further development details

Section 2 – Further develop	Jilielit de	lalis				
7) Does the proposed developr	nent applic	ation invo	olve any of the foll	lowing?		
Material change of use	Yes -	es – complete division 1 if assessable against a local planning instrument				
Reconfiguring a lot	Yes –	s – complete division 2				
Operational work	⊠ Yes –	complete	division 3			
Building work	Yes –	complete	DA Form 2 – Buil	ding work de	etails	
Division 1 - Material change	e of use					
Note: This division is only required to be		any part of	the development appl	lication involves	a material change of use a	ssessable
against a local planning instrumer						
8.1) Describe the proposed ma				a a definition	Number of develling	Cross flass
Provide a general description o proposed use			ne planning schen		Number of dwelling units (if applicable)	Gross floor area (m²)
proposed and		-				(if applicable)
8.2) Does the proposed use inv	olve the u	se of exist	ting buildings on t	he premises	?	
Yes						
□ No						
Qivision 2 – Reconfiguring	a lot					
Note. This division is only required to be	completed if	any part of	the development appl	ication involves	reconfiguring a lot.	
9.1) What is the total number o						
9.2) What is the nature of the lo	ot reconfigu	uration? (ti	ick all applicable boxe	es)		
Subdivision (complet 10))			☐ Dividing land	l into parts b	y agreement (complete	11))
Boundary realignment (comp	lete 12))				easement giving acce	ss to a lot
			from a consti	ructed road ((complete 13))	
10) Subdivision						
10.1) For this development, how	w many lot	s cre bein	ng created and wh	at is the inte	ended use of those lot	s·
Intended use of lots created	Residen		Commercial	Industrial	Other, pleas	
interiord ase of lots created	rtcoideii	uui	Commercial	Industrial	Other, piede	c opcony.
Number of lots created						
10.2) Will the subdivision be sta	aged?					
Yes – provide additional det						
No	alis below					
How many stages will the work	s include?					
What stage(s) will this developr		cation				
apply to?						
(4) Biriting India						
11) Dividing land into parts by a parts?	greement	– now ma	iny parts are bein	g created an	d what is the intended	use of the
Intended use of parts created	Residen	tial	Commercial	Industrial	Other, pleas	e specify.

Number of parts cre	eated					
Davidani va di						
12) Soundary realignment 12.1) What are the		nronosed area	e for each l	ot comprising	n the premises?)
12.1) What a Stric	Current	<u> </u>	3 IOI CACITI	ot comprisin		posed lot
Lot on plan descrip		rea (m²)		Lot on plan		Area (m²)
				·	·	
12.2) What is the re	eason for the	e boundary rea	lignment?			
13) What are the di	imensions a	nd nature of an	v evieting e	asements be	aing or anged a	nd/or any proposed easement?
(attach schedule if there			y existing e	ascilicitis be	ally charged al	lu/or arry proposed easement:
Existing or proposed?	Width (m)	Length (m)	Purpose of pedestrian a	of the easem	ent? (e.g.	locatify the land/lot(s) benefitted by the easement
Division 3 – Opei			part of the deve	elopment applic	ation involves opera	ational work.
14.1) What is the n						
⊠ Road work			Stormwate		_	nfrastructure
☐ Drainage work☐ Landscaping		_	☑ Earthwork ☑ Signage	(S		e infrastructure g vegetation
Other – please s	specify:		a Oignage			y vegetation
14.2) Is the operation		ecessary to fac	ilitate the cr	eation of nev	v lots? (e.g. subd	ivision)
Yes – specify nu		•			` ` `	,
□ No						
14.3) What is the m	nonetary val	ue of the propo	sed operati	onal work? (i	nclude GST, mater	ials and labour)
PART 4 – ASS	SESSME	NT MANA	GER DE	TAILS		
15) Identify the ass Mareeba Shire Co		nager(s) who v	will be asses	ssing this de	velopment appl	ication
		areed to apply	a supersec	led planning	scheme for this	development application?
16) Has the local government agreed to apply a superseded planning scheme for this development application? Yes – a copy of the decision notice is attached to this development application The local government is taken to have agreed to the superseded planning scheme request – relevant documents attached						
⊠ No						
PART 5 – REFERRAL DETAILS						
17) Does this devel						uirements?
	referral red	uirements rele				fied in this development
	Matters requiring referral to the Chief Executive of the Planning Act 2016:					

Clearing native vegetation
Contaminated land (unexploded ordnance)
Environmentally relevant activities (ERA) (only if the ERA has not been devolved to a local government)
☐ Fisheries – aquaculture
☐ Fisheries – declared fish habitat area☐ Fisheries – marine plants
☐ Fisheries – marine plants ☐ Fisheries – waterway barrier works
Hazardous chemical facilities
Heritage places – Queensland heritage place (on or near a Queensland heritage place)
☐ Infrastructure-related referrals – designated premises
☐ Infrastructure-related referrals – state transport infrastructure
☐ Infrastructure-related referrals – State transport corridor and future State transport corridor
☐ Infrastructure-related referrals – State-controlled transport tunnels and future state-controlled transport tunnels
☐ Infrastructure-related referrals – near a state-controlled road intersection
☐ Koala habitat in SEQ region – interfering with koala habitat in koala habitat areas outside koala priority areas
☐ Koala habitat in SEQ region – key resource areas
☐ Ports – Brisbane core port land – near a State transport corridor or future State transport corridor
☐ Ports – Brisbane core port land – environmentally relevant activity (ERA)
Ports – Brisbane core port land – tidal works or work in a coastal management district
Ports – Brisbane core port land – hazardous chemical facility
Ports – Brisbane core port land – taking or interfering with water
Ports – Brisbane core port land – referable dams
Ports – Brisbane core port land – fisheries
Ports – Land within Port of Brisbane's port limits (below high-water mark)
SEQ development area
 □ SEQ regional landscape and rural production area or SEQ rural living area – tourist activity or sport and recreation activity
SEQ regional landscape and rural production area or SEQ rural living area – community activity
SEQ regional landscape and rural production area or SEQ rural living area – indoor recreation
SEQ regional landscape and rural production area or SEQ rural living area – urban activity
SEQ regional landscape and rural production area or SEQ rural living area – combined use
SEQ regional landscape and rural production area or SEQ rural living area – community activity
SEQ regional landscape and rural production area or SEQ rural living area – indoor recreation
SEQ regional landscape and rural production area or SEQ rural living area – urban activity
 □ SEQ regional landscape and rural production area or SEQ rural living area – combined use □ Tidal works or works in a coastal management district
Reconfiguring a lot in a coastal management district or for a canal
☐ Erosion prone area in a coastal management district
☐ Urban design
☐ Water-related development – taking or interfering with water
☐ Water-related development – removing quarry material (from a watercourse or lake)
☐ Water-related development – referable dams
☐ Water-related development –levees (category 3 levees only)
☐ Wetland protection area
Matters requiring referral to the local government:
☐ Airport land
□ Environmentally relevant activities (ERA) (only if the ERA has been devolved to local government)
Heritage places – Local heritage places
Matters requiring referral to the Chief Executive of the distribution entity or transmission entity:
☐ Infrastructure-related referrals – Electricity infrastructure

Matters requiring referral to:				
	holder of the licence, if not a			
The holder of the licence, if the holder of the licence is an individual				
Infrastructure-related referrals				
Matters requiring referral to the B ☐ Ports – Brisbane core port lan				
Matters requiring referral to the M	linister responsible for admi	nistering the <i>Transport Ir</i>	frastructure Act 1994:	
☐ Ports – Brisbane core port lan ☐ Ports – Strategic port land	d (where inconsistent with the Brisba	ne port LUP for transport reasons;		
Matters requiring referral to the re ☐ Ports – Land within Port of Bri	• • • • • • • • • • • • • • • • • • • •			
Matters requiring referral to the C ☐ Ports – Land within limits of ar		•		
Matters requiring referral to the G ☐ Tidal works or work in a coast	•	_		
Matters requiring referral to the Q ☐ Tidal works or work in a coast		_	perths))	
18) Has any referral agency provi				
☐ Yes – referral response(s) rec☑ No	eived and listed below are atta	ched to this development a	application	
Referral requirement	Refe	5 ,	Date of referral response	
Identify and describe any change referral response and this develo (if applicable).				
PART 6 – INFORMATIO				
19) Information request under Pa☑ I agree to receive an information		seary for this development	application	
	formation request for this deve	•	аррисацоп	
Note: By not agreeing to accept an inform	•			
application and the assessment ma DA Rules to accept any additional in parties	ill be assessed and decided based on nager and any referral agencies relev nformation provided by the applicant f	ant to the development applicatior or the development application un	are not obligated under the less agreed to by the relevant	
 Part 3 of the DA Rules will still apply if the application is an application listed under section 11.3 of the DA Rules. Further advice about information requests is contained in the <u>DA Forms Guide</u>. 				
and the second s	<u> </u>			
PART 7 – FURTHER DE	ETAILS			
20) Are there any associated dev	elopment applications or curre	nt approvals? (e.g. a prelimina	ary approval)	
☐ Yes – provide details below or ☐ No	r include details in a schedule t	o this development applica	tion	
List of approval/development application references	Reference number	Date	Assessment manager	

☐ Approval☐ Development application						
Approval						
Development application						
21) Has the nortable long ser	vice leave levy been paid? (only app	nlicable to development ann	dications involving building work or			
operational work)	vice leave levy been paid: (Ully app	oncable to development app	ilications involving building work of			
	ted QLeave form is attached to thi					
	ovide evidence that the portable lodes the development application.					
give a development appro	val only if I provide evidence that t	he portable long servi	ce leave levy has been paid			
	ng and construction work is less th		,			
Amount paid	Date paid (dd/mm/yy)	QLeave levy n	number (A, B or E)			
\$						
22) Is this development applic notice?	cation in response to a show cause	e notice or required as	a result of an enforcement			
Yes – show cause or enfor	cement notice is attached					
⊠ No						
23) Further legislative require	ments					
Environmentally relevant ac						
	lication also taken to be an application					
	ctivity (ERA) under section 115 c					
	nent (form ESR/2015/1791) for an ment application, and details are p					
⊠ No	nem approación, ana actario aro p		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Note : Application for an environment requires an environmental authority t	al authority can be found by searching "ES o operate. See <u>www.business.qld.gov.au</u> f	SR/2015/1791" as a search t for further information.	term at <u>www.qld.gov.au</u> . An ERA			
Proposed ERA number:	Prop	osed ERA threshold:				
Proposed ERA name:						
Multiple ERAs are applicable to this development application and the details have been attached in a schedule to this development application.						
Hazardous chemical facilitie	<u>es</u>					
	lication for a hazardous chemica	-				
Yes – Form 69: Notification development application	n of a facility exceeding 10% of sc	hedule 15 threshold is	attached to this			
No						
	for further information about hazardous ch	emical notifications.				
Clearing native vegetation						
23.3) Does this development application involve clearing native vegetation that requires written confirmation that the chief executive of the <i>Vegetation Management Act 1999</i> is satisfied the clearing is for a relevant purpose						
	etation Management Act 1999?	battoried the oleaning is	Tor a relevant purpose			
	pplication includes written confirma	ation from the chief exe	ecutive of the Vegetation			
Management Act 1999 (s22A determination) ☑ No						
Note: 1. Where a development appl	ication for operational work or material cha application is prohibited development.	ange of use requires a s22A	determination and this is not			
2. See https://www.qld.gov.au	/environment/land/vegetation/applying for	further information on how t	o obtain a s22A determination.			
Environmental offsets						

23.4) Is this development application taken to be a prescribed activity that may have a significant residual impact on a prescribed environmental matter under the <i>Environmental Offsets Act 2014?</i>
 Yes – I acknowledge that an environmental offset must be provided for any prescribed activity assessed as having a significant residual impact on a prescribed environmental matter No
Note : The environmental offset section of the Queensland Government's website can be accessed at www.qld.gov.au for further information on environmental offsets.
Koala habitat in SEQ Region
23.5) Does this development application involve a material change of use, reconfiguring a lot or operational work which is assessable development under Schedule 10, Part 10 of the Planning Regulation 2017?
☐ Yes – the development application involves premises in the koala habitat area in the koala priority area
☐ Yes – the development application involves premises in the koala habitat area outside the koala priority area ☐ No
Note : If a koala habitat area determination has been obtained for this premises and is current over the land, it should be provided as part of this development application. See koala habitat area guidance materials at www.des.qld.gov.au for further information.
Water resources
23.6) Does this development application involve taking or interfering with underground water through an artesian or subartesian bore, taking or interfering with water in a watercourse, lake or spring, or taking overland flow water under the <i>Water Act 2000</i> ?
 Yes – the relevant template is completed and attached to this development application and I acknowledge that a relevant authorisation or licence under the <i>Water Act 2000</i> may be required prior to commencing development No
Note: Contact the Department of Natural Resources, Mines and Energy at www.dnrme.gld.gov.au for further information.
DA templates are available from https://planning.dsdmip.qld.gov.au/ . If the development application involves:
 Taking or interfering with underground water through an artesian or subartesian bore: complete DA Form 1 Template 1 Taking or interfering with water in a watercourse, lake or spring: complete DA Form1 Template 2
Taking overland flow water: complete DA Form 1 Template 3.
Waterway barrier works
23.7) Does this application involve waterway barrier works?
☐ Yes – the relevant template is completed and attached to this development application☒ No
DA templates are available from https://planning.dsdmip.qld.gov.au/ . For a development application involving waterway barrier works, complete DA Form 1 Template 4.
Marine activities
23.8) Does this development application involve aquaculture, works within a declared fish habitat area or removal, disturbance or destruction of marine plants?
Yes – an associated <i>resource</i> allocation authority is attached to this development application, if required under the <i>Fisheries Act 1994</i>
No No
Note: See guidance materials at www.daf.qld.gov.au for further information.
Quarry materials from a watercourse or lake
23.9) Does this development application involve the removal of quarry materials from a watercourse or lake under the <i>Water Act 2000?</i>
☐ Yes – I acknowledge that a quarry material allocation notice must be obtained prior to commencing development
⊠ No
Note : Contact the Department of Natural Resources, Mines and Energy at www.business.qld.gov.au for further information.
Quarry materials from land under tidal waters

23.10) Does this development application involve the **removal of quarry materials from land under tidal water** under the *Coastal Protection and Management Act 1995?*

☐ Yes – I acknowledge that development ☐ No	a quarry material allocation	notice must be obtained prior	to commencing
Note: Contact the Department of En	ovironment and Science at <u>www.des</u>	<u>.qld.gov.au</u> for further information.	
Referable dams			
		able dam required to be failu act 2008 (the Water Supply Ac	
Supply Act is attached to	ng a Failure Impact Assessm this development application	ent' from the chief executive	administering the Water
No Note: See guidance materials at www	<u>/w.dnrme.qld.gov.au</u> for further infor	mation.	
Tidal work or development	within a coastal managem	ent district	
23.12) Does this developmer district?	nt application involve tidal w o	ork or development in a coa	astal management
required if application in A certificate of title	·	application: ssable development that is pr	escribed tidal work (only
Note: See guidance materials at www	w des ald gov au for further informa	ation	
Queensland and local herit		aron.	
23.13) Does this developmer	nt application propose develo	opment on or adjoining a place a local government's Local H e	
☐ Yes – details of the herita ☐ No Note: See guidance materials at www.		table below	of Queensland heritage places.
Name of the heritage place:		Place ID:	
<u>Brothels</u>			
23.14) Does this developmen	nt application involve a mate	rial change of use for a bro	thel?
	pplication demonstrates how nder Schedule 3 of the <i>Prost</i>	the proposal meets the code titution Regulation 2014	e for a development
Decision under section 62	of the <i>Transport Infrastruc</i>	ture Act 1994	
23.15) Does this developme	ent application involve new	or changed access to a stat	te-controlled road?
		n for a decision under section ction 75 of the <i>Transport Infra</i>	
Walkable neighbourhoods	assessment benchmarks ι	under Schedule 12A of the F	Planning Regulation
23.16) Does this developmer (except rural residential zone		guring a lot into 2 or more lots s created or extended?	s in certain residential zones
in schedule 12A have been o	•	application and the assessme	ent benchmarks contained
No Note: See guidance materials at w	ww.planning.dsdmip.qld.gov.au for f	urther information.	

PART 8 – CHECKLIST AND APPLICANT DECLARATION

24) Development application checklist	
I have identified the assessment manager in question 15 and all relevant referral requirement(s) in question 17 Note: See the Planning Regulation 2017 for referral requirements	⊠ Yes
If building work is associated with the proposed development, Parts 4 to 6 of <u>DA Form 2</u> <u>Building work details</u> have been completed and attached to this development application	☐ Yes ☑ Not applicable
Supporting information addressing any applicable assessment benchmarks is with the development application Note: This is a mandatory requirement and includes any relevant templates under question 23, a planning report and any technical reports required by the relevant categorising instruments (e.g. local government planning schemes, State Planning Policy, State Development Assessment Provisions). For further information, see DA Forms Guide: Planning Report Template.	⊠ Yes
Relevant plans of the development are attached to this development application Note: Relevant plans are required to be submitted for all aspects of this development application. For further information, see <u>DA Forms Guide: Relevant plans.</u>	⊠ Yes
The portable long service leave levy for QLeave has been paid, or will be paid before a development permit is issued (see 21)	
25) Applicant declaration	
By making this development application, I declare that all information in this developme and correct	nt application is true
Where an email address is provided in Part 1 of this form, I consent to receive future electron communications from the assessment manager and any referral agency for the develop written information is required or permitted pursuant to sections 11 and 12 of the <i>Electro</i> 2001	ment application where
Note: It is unlawful to intentionally provide false or misleading information.	
Privacy – Personal information collected in this form will be used by the assessment mana assessment manager, any relevant referral agency and/or building certifier (including any which may be engaged by those entities) while processing, assessing and deciding the deciding th	orofessional advisers

All information relating to this development application may be available for inspection and purchase, and/or published on the assessment manager's and/or referral agency's website.

Personal information will not be disclosed for a purpose unrelated to the *Planning Act 2016*, Planning Regulation 2017 and the DA Rules except where:

- such disclosure is in accordance with the provisions about public access to documents contained in the Planning Act 2016 and the Planning Regulation 2017, and the access rules made under the Planning Act 2016 and Planning Regulation 2017; or
- required by other legislation (including the Right to Information Act 2009); or
- otherwise required by law.

This information may be stored in relevant databases. The information collected will be retained as required by the Public Records Act 2002.

PART 9 – FOR COMPLETION OF THE ASSESSMENT MANAGER – FOR OFFICE USE ONLY

Date received:	Reference numb	er(s):	
N. CC C	6.11	· .	
Notification of engagement	of alternative assessment ma	anager	
Prescribed assessment man	nager		
Name of chosen assessmen	nt manager		
Date chosen assessment m	anager engaged		
Contact number of chosen a	assessment manager		
Relevant licence number(s)	of chosen assessment		
manager			
QLeave notification and pay	ment		
Note: For completion by assessme	nt manager if applicable		
Description of the work			
QLeave project number			
Amount paid (\$)		Date paid (dd/mm/yy)	
Date receipted form sighted	by assessment manager		
Name of officer who sighted	the form		

Statement of Compliance





Attachment 2 004-2308-L-001

FNQROC DEVELOPMENT MANUAL

Council Mareeba Shire Council
(INSERT COUNCIL NAME)

STATEMENT OF COMPLIANCE OPERATIONAL WORKS DESIGN

This form duly completed and signed by an authorised agent of the Designer shall be submitted with the Operational Works Application for Council Approval.

Name of Development	189 Ray Road, Mareeba
Location of Development	189 Ray Road (Lot 46 SP210288)
Applicant	T W Hedley Pty Ltd
Designer	Neon Consulting

It is hereby certified that the Calculations, Drawings, Specifications and related documents submitted herewith have been prepared, checked and amended in accordance with the requirements of the FNQROC Development Manual and that the completed works comply with the requirements therein, **except** as noted below.

Compliance with the requirements of the Operational Works Design Guidelines	Non-Compliance refer to non-compliance report / drawing number
Plan Presentation	Generally complies
Geotechnical requirements	Generally complies
Geometric Road Design	Generally complies
Pavements	Generally complies
Structures / Bridges	n/a
Subsurface Drainage	Generally complies
Stormwater Drainage	Generally complies
Site Re-grading	Generally complies
Erosion Control and Stormwater Management	Generally complies
Pest Plant Management	Generally complies
Cycleway / Pathways	n/a

Landscaping	n/a
Water Source and Disinfection/Treatment Infrastructure (if applicable)	n/a
Water Reticulation, Pump Stations and water storages	Generally complies
Sewer Reticulation and Pump Stations	n/a
Electrical Reticulation and Street Lighting	n/a
Public Transport	n/a
Associated Documentation/ Specification	Generally complies
Priced Schedule of Quantities	n/a
Referral Agency Conditions	Generally complies
Supporting Information (AP1.08)	Generally complies
Other	n/a

Conscientiously believing the above statements to be true and correct, signed on behalf of:

Designer	Consult Neon Pty Ltd	RPEQ No	25102
Name in Full	Craig John Caplick		
Signature	CaigCylch	Date	04 November 2024

Stormwater





Attachment 3 004-2308-L-001

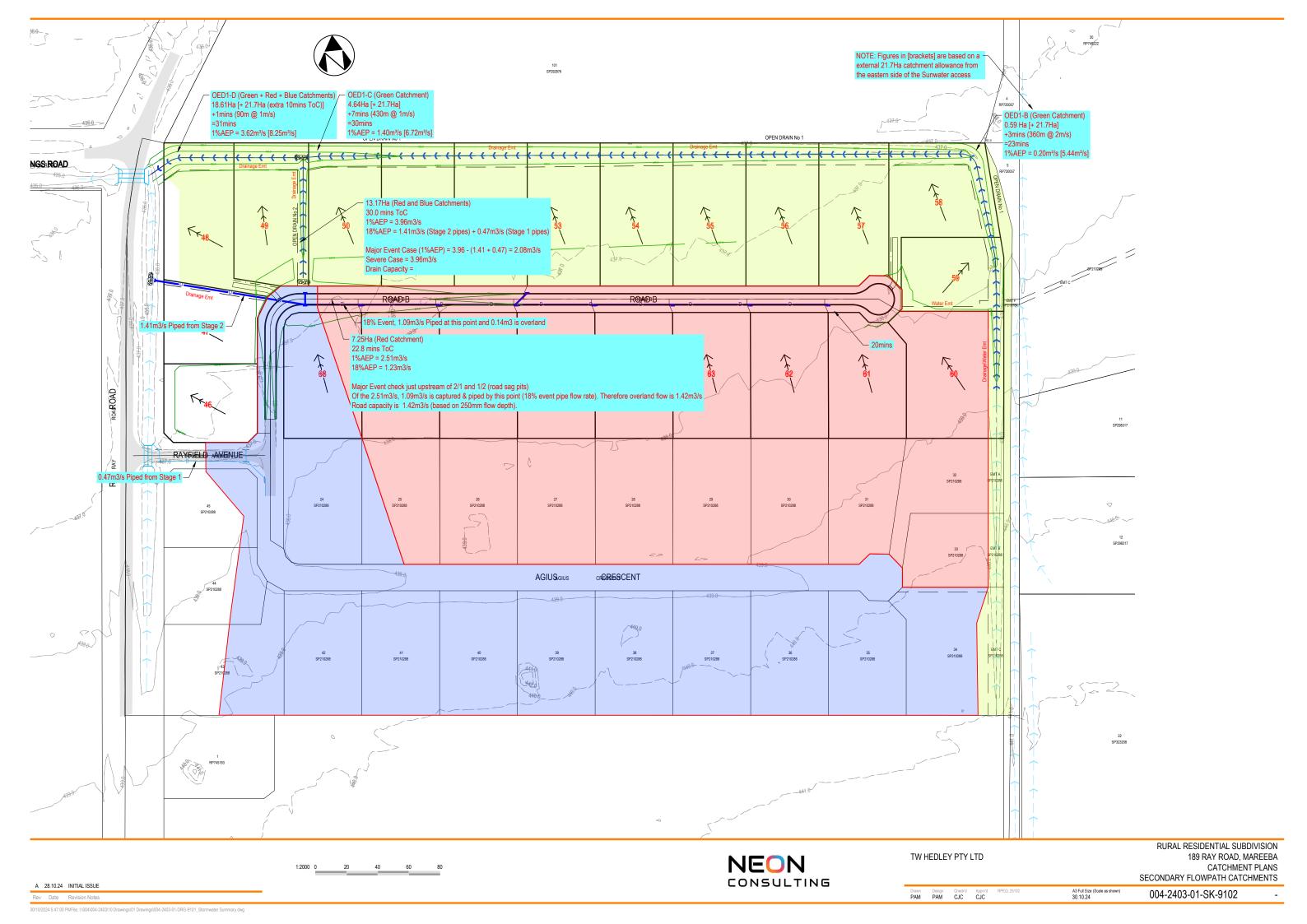
Stormwater Philosophy

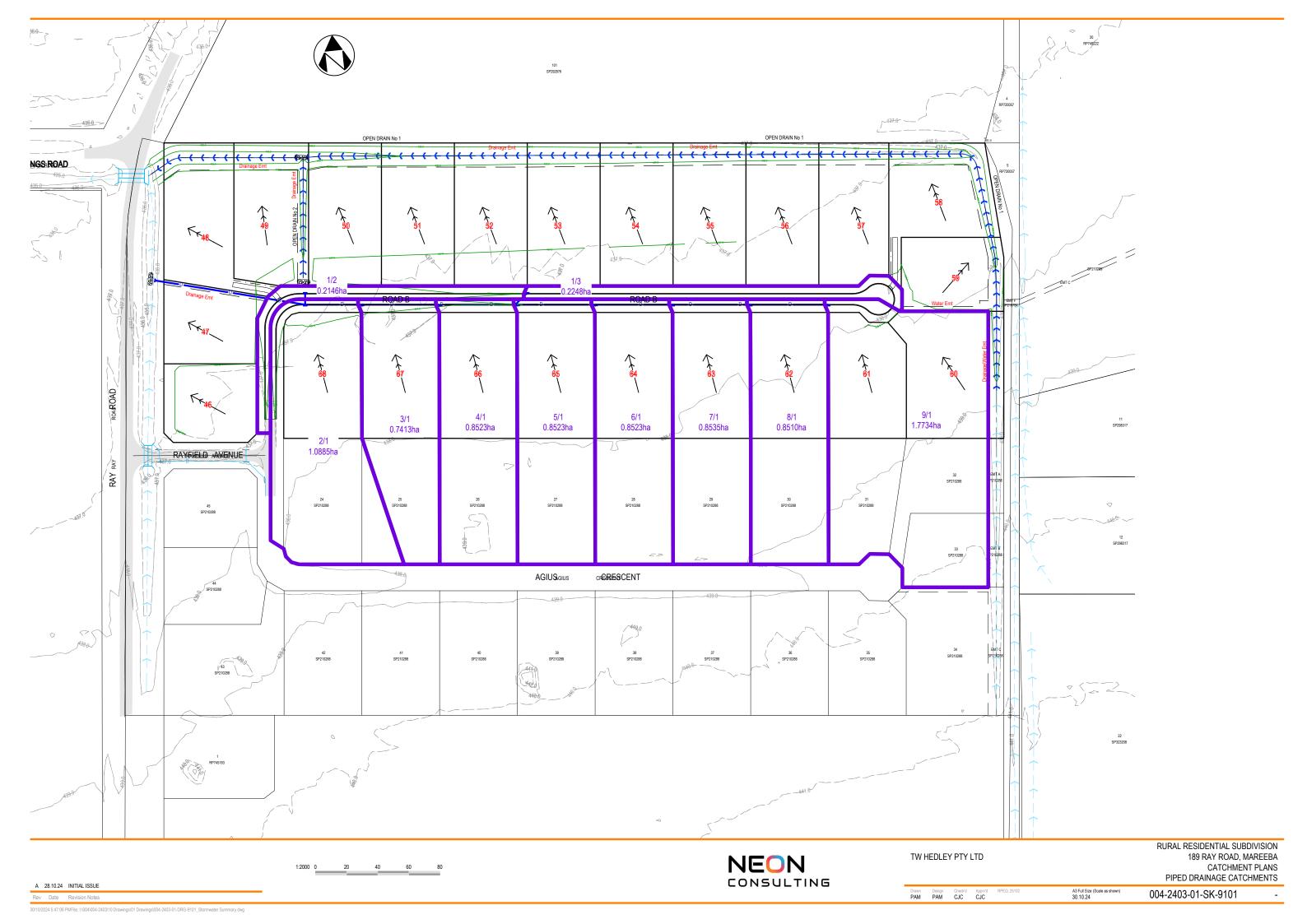
Stage 1 of the development included the construction of a table drain along the western site boundary between Ray Road and the development which falls to a stormwater culverts beneath Ray Road which were upgraded by the developer outletting to a major flow path west along Jennings Road.

Stage 2 will include the construction of a drain along the eastern and northern site boundaries taking an external catchment through the site to Jennings Road. A review of the previous stormwater catchments in the area through on-site investigations and LiDAR survey has concluded that the original external catchment was overly conservative. The external catchment has been measured as 21.7ha. Nevertheless, the drainage easement size and location has been designed conservatively to gain additional material for site filling.

Lots 46-57 should be provided with Council rates notices for a minimum flood level of RL436.75m to ensure that the future dwellings are situated 500mm above the regional flood. In the event of any blockage or extreme events greater than the major design storm (1% AEP), water will overtop the northern road embankment at RL436.2m and flow to the north and west.







Project : Mareeba

Location: within zone 55, at 332000, 8116070

Design Rainfall Data System (2016)

http://www.bom.gov.au/water/designRainfalls/revised-ifd/

Location

Zone:

Label: Mareeba Easting: 332000 Northing: 8116070



Coefficients for Very Frequent Events (Raw Data from Website)													
Coefficient	12EY	6EY	4EY	3EY	2EY	1EY	0.5EY	0.2EY					
C0	-0.224936	0.005086	0.282049	0.425111	0.582881	0.783274	1.009816	1.219917					
C1	0.875143	0.872772	0.860951	0.840709	0.777008	0.678182	0.654232	0.603283					
C2	-0.095246	-0.07381	-0.044595	-0.015238	0.065768	0.180947	0.210556	0.271728					
C3	0.044413	0.033175	0.020481	8.56E-03	-0.025967	-0.073162	-0.086054	-0.111744					
C4	-0.016073	-0.013453	-0.010819	-0.008486	-0.001495	0.007819	0.010305	0.015012					
C5	0.002165	0.001886	0.001628	0.001411	0.000742	-0.00013	-0.000346	-0.000724					
C6	-9.59E-05	-8.50E-05	-7.56E-05	-6.80E-05	-4.37E-05	-1.27E-05	-5.74E-06	5.12E-06					

Coefficients for IFDs (Raw Data from Website)														
Coefficient	63.20%	50%	20%	10%	5%	2%	1%							
C0	0.783274	0.905456	1.200114	1.350623	1.472813	1.607155	1.694353							
C1	0.678182	0.654232	0.603283	0.579946	0.561839	0.540275	0.512074							
C2	0.180947	0.210556	0.271728	0.29847	0.318411	0.342968	0.37622							
C3	-0.073162	-0.086054	-0.111743	-0.122285	-0.129686	-0.139291	-0.153198							
C4	0.007819	0.010305	0.015012	0.016759	0.017854	1.94E-02	0.021993							
C5	-0.00013	-0.000346	-0.000724	-0.00084	-0.000893	-0.00099	-0.001201							
C6	-1.27E-05	-5.74E-06	5.12E-06	7.33E-06	7.30E-06	8.75E-06	1.50E-05							

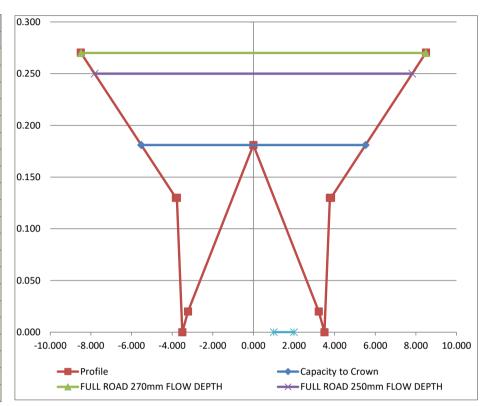
Requested coordinate: Latitude -17.03341521 Longitude 145.4215805 Nearest grid cell: Latitude 17.0375 (S) Longitude 145.4125 (E)

											(mm/h m3/s) for AEP									1% AEP Scenario		1				
Catchment	Area	c10	c1	c2	C!	5 c1	.0 c!	50 c	100	Adopted tc		63%	39	9%	18	3%	10	0%	2	%	19	%	Piped flow	Overland flow	Capacity	Catchment
		•		-	-		-				(1 y	ear ARI)	(2 yea	r ARI)	(5 yea	r ARI)	(10 ye	ar ARI)	(50 ye	ar ARI)	(100 ye	ar ARI)				·
											mm/h	m3/s	mm/h	m3/s	mm/h	m3/s	mm/h	m3/s	mm/h	m3/s	mm/h	m3/s				
Sag in road						66 0.6				22.80	60.37	0.67	75.72	0.89	93.48	1.23	106.60	1.48	137.99	2.21	150.71	2.51	1.09	1.42		Sag in road
Drain After Sag	8.30	0.69	0.55	0.59	9 0.6	66 0.6	69 O.	.79 0).828	23.00	60.13	0.77	75.41	1.02	93.09	1.41	106.16	1.69	137.41	2.51	150.07	2.86	1.41	1.45		Drain After Sag
																										l
OED1-A	0.00	0.69	0.55	5 0.59	9 0.6	66 0.6	59 O.	.79 0	0.828	20.00	64.05	0.00	80.37	0.00	99.31	0.00	113.29	0.00	146.73	0.00	160.30	0.00		0.00		OED1-A
OED1-B	0.59					66 0.6				23.00	60.13	0.05	75.41	0.07	93.09	0.10	106.16	0.12	137.41	0.18	150.07	0.20		0.20		OED1-B
OED1-C	4.64					66 0.6				30.00	52.73	0.38	66.06	0.50	81.37	0.69	92.70	0.82	119.83	1.23	130.77	1.40		1.40		OED1-C
OED1-D	18.61	0.69	0.55	0.5	9 0.6	66 0.6	69 O.	.79 0).828	31.00	51.83	1.48	64.93	1.97	79.95	2.71	91.07	3.25	117.70	4.83	128.43	5.50	1.88	3.62		OED1-D
																								_		
OED2	13.17	0.69	0.55	0.5	9 0.6	66 0.6	59 O.	.79 0).828	30.00	52.73	1.06	66.06	1.42	81.37	1.95	92.70	2.34	119.83	3.48	130.77	3.96	1.88	2.08		OED2
				-	-	_	_	_																		
. 24 711 6					-		_	_											_		_					
+21.7Ha Sceanrio OED1-A	21.70	0.60	0.55	0.50	0 0 (66 0.6	50 0	70 0	020	30.00	52.73	1.75	66.06	2.34	81.37	3.22	92.70	3.86	119.83	5.73	130.77	6.53		6.53		OED1-A
OED1-A						66 0.6				33.00	50.13	1.75	62.78	2.34	77.26	3.22	87.99	3.76	113.67	5.58	124.02	6.36		6.36		OED1-A
OED1-C						66 0.6				40.00	45.03	1.82	56.34	2.42	69.22	3.32	78.77	3.98	101.66	5.90	110.85	6.72		6.72		OED1-C
OED1-D						66 0.6				41.00	44.39	2.74	55.54	3.65	68.21	5.01	77.62	6.00	100.16	8.90	109.21	10.13	1.88	8.25		OED1-D
-																										
OED2	13.17	0.69	0.55	0.5	9 0.6	66 0.6	69 O.	.79 0).828	30.00	52.73	1.06	66.06	1.42	81.37	1.95	92.70	2.34	119.83	3.48	130.77	3.96	1.88	2.08		OED2
					-		-	-																		
				1											<u> </u>		<u> </u>							<u>!</u>		
Catchment		c10	c2	c2	را	5 c1	0 0	50 L c	100	Adopted tc	63%		39%		18%		10%		2%		1%			, , , , , , , , , , , , , , , , , , , 		Catchment
Cutoninent		010	UZ.	CZ.	L.	5 (1	.5 0.	30 C	.100	Adopted to	03/0		1 37/0	,			3/s) for AEP		2/0		<u> </u>			+ + + + + + + + + + + + + + + + + + + +		Cutchillent
															,	, 1113	, - ,									

CALCULATION - IZZARDS EQUATION

Section: ROAD B (Road Width = 7m / Road Crossfall = 5% / Verge Crossfall = 3% / Reserve Width = 17m)

Irregu	lar Channel [Details
Offset (m)	Height (m)	Man (n)
-8.500	0.270	0.030
-3.820	0.130	0.013
-3.770	0.130	
-3.500	0.000	
-3.220	0.020	0.015
0.000	0.181	
3.220	0.020	0.013
3.500	0.000	
3.770	0.130	
3.820	0.130	0.030
8.500	0.270	



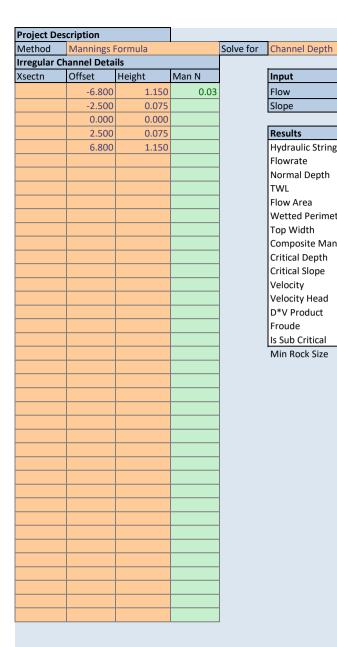
Description	Long Slope	Flow Depth	Flow	Velocity	dxV	
	(%)	(m)	(m ³ /s)	(m/s)		
Capacity to Crown	0.3	0.181	0.567	0.738	0.134	Half Road Capcity is 283 l/s, for Minor Event
FULL ROAD 270mm FLOW DEPTH	0.3	0.270	1.750	0.868	0.234	Capacity for severe event, full road reserve
FULL ROAD 250mm FLOW DEPTH	0.3	0.250	1.417	0.839	0.210	Capacity for major event, 250mm depth limited



Input		
Flow	8.25	m³/s
Slope	0.2	%

Results		
Hydraulic String	NAME=^SHA	i
Flowrate	8.250	m3/s
Normal Depth	0.852	m
TWL 0.853		
Flow Area	7.827	m2
Wetted Perimeter		m
Top Width	12.975	m
Composite Mannings N	0.0300	
Critical Depth	0.540	m
Critical Slope		%
Velocity	1.054	m/s
Velocity Head	0.057	m
D*V Product	0.898	m2/s
Froude	0.433	
Is Sub Critical	TRUE	
Min Rock Size	0	mm

Water Surface	
Chain	TWL
-6.488	0.852
6.488	0.852

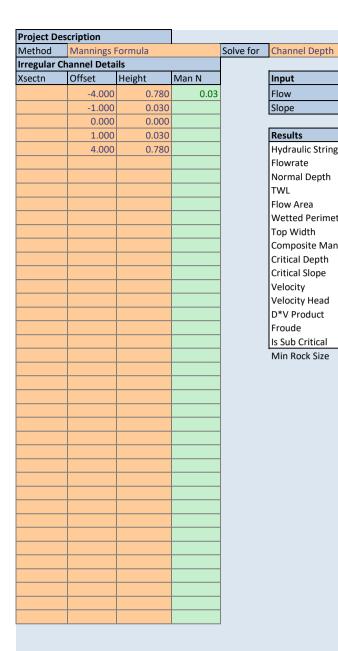


Input		
Flow	6.72	m³/s
Slope	0.2	%

Xsectn OED1-C CH100-425

		_
Results		
Hydraulic String	NAME=^SHAI	i
Flowrate	6.720	m3/s
Normal Depth	0.857	m
TWL	0.857	
Flow Area	6.546	m2
Wetted Perimeter		m
Top Width	11.257	m
Composite Mannings N	0.0300	
Critical Depth	0.546	m
Critical Slope	1.229	%
Velocity 1.02		m/s
Velocity Head 0.0		m
D*V Product	0.880	m2/s
Froude 0.430		
Is Sub Critical	TRUE	
Min Rock Size 0 m		mm

Water Surface	
Chain	TWL
-5.628	0.857
5.628	0.857



Input		
Flow	2.08	m³/s
Slope	0.75	%

Xsectn OED2

Results		
Hydraulic String NAME=^SHA		
Flowrate 2.08		m3/s
Normal Depth 0.46		m
TWL 0.460		
Flow Area	1.630	m2
Wetted Perimeter 5.5		m
Top Width	5.441	m
Composite Mannings N	0.0300	
Critical Depth	0.395	m
Critical Slope	1.413	%
Velocity	1.276	m/s
Velocity Head	0.083	m
D*V Product	0.587	m2/s
Froude	0.744	
Is Sub Critical	TRUE	
Min Rock Size	0	mm

Water Surface		
Chain	TWL	
-2.72		0.46
2.72		0.46

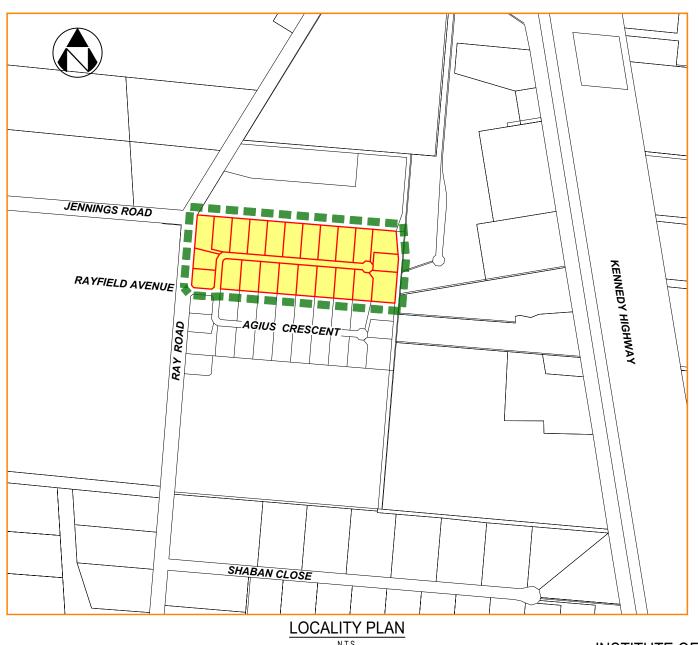
Civil Engineering Drawings





Attachment 4 004-2308-L-001

RAY ROAD SUBDIVISION 189 RAY ROAD, MAREEBA STAGE 2 CIVIL WORKS



DRAWING INDEX

DRAWING No.	DRAWING TITLE	
004-2403-01-DRG-0101	LOCALITY PLAN	
004-2403-01-DRG-0102	PROJECT NOTES	
004-2403-01-DRG-0103	OVERALL SITE PLAN	
004-2403-01-DRG-0104	GENERAL ARRANGEMENT, SHEET 1 OF 2	
004-2403-01-DRG-0105	GENERAL ARRANGEMENT, SHEET 2 OF 2	
004-2403-01-DRG-0201	EARTHWORKS PLAN, SHEET 1 OF 2	
004-2403-01-DRG-0202	EARTHWORKS PLAN, SHEET 2 OF 2	
004-2403-01-DRG-0203	EARTHWORKS DETAIL PLAN	
004-2403-01-DRG-0301	TYPICAL SECTIONS AND DETAILS, SHEET 1 OF 2	
004-2403-01-DRG-0302	TYPICAL SECTIONS AND DETAILS, SHEET 2 OF 2	
004-2403-01-DRG-0303	INTERSECTION DETAILS	
004-2403-01-DRG-0401	STORMWATER DRAINAGE PLAN, SHEET 1 OF 2	
004-2403-01-DRG-0402	STORMWATER DRAINAGE PLAN, SHEET 2 OF 2	
004-2403-01-DRG-0403	STORMWATER LONGITUDINAL SECTIONS, SHEET 1 OF 2	
004-2403-01-DRG-0404	STORMWATER LONGITUDINAL SECTIONS, SHEET 2 OF 2	
004-2403-01-DRG-0601	WATER RETICULATION, SHEET 1 OF 2	
004-2403-01-DRG-0602	WATER RETICULATION, SHEET 2 OF 2	
004-2403-01-DRG-0701	SITE BASED STORMWATER MANAGEMENT PLAN, SHEET 1 OF 2	
004-2403-01-DRG-0702	SITE BASED STORMWATER MANAGEMENT PLAN, SHEET 2 OF 2	
004-2403-01-DRG-0801	MASTER SERVICES PLAN, SHEET 1 OF 2	
004-2403-01-DRG-0802	MASTER SERVICES PLAN, SHEET 2 OF 2	
004-2403-01-DRG-0901	ROAD B LONGITUDINAL SECTION	
004-2403-01-DRG-0902	ROAD B CROSS SECTIONS, SHEET 1 OF 2	
004-2403-01-DRG-0903	ROAD B CROSS SECTIONS, SHEET 2 OF 2	
004-2403-01-DRG-0904	OED 1 LONGITUDINAL SECTION, SHEET 1 OF 2	
004-2403-01-DRG-0905	OED 1 LONGITUDINAL SECTION, SHEET 2 OF 2	
004-2403-01-DRG-0906	OED 1 CROSS SECTIONS, 1 OF 3	
004-2403-01-DRG-0907	OED 1 CROSS SECTIONS, SHEET 2 OF 3	
004-2403-01-DRG-0908	OED 1 CROSS SECTIONS, SHEET 3 OF 3	
004-2403-01-DRG-0908	OED 1 LONGITUDINAL AND CROSS SECTIONS	

INSTITUTE OF PUBLIC WORKS ENGINEERING
AUSTRALIA STANDARD DRAWINGS

DRAWING No.	DRAWING TITLE
D-0040	SEDIMENT CONTROL DEVICES - SEDIMENT FENCE, ENTRY/EXIT SEDIMENT TRAP
D-0041	SEDIMENT CONTROL DEVICES - KERB AND FIELD INLETS, CHECK DAMS & STRAW BALE BANKS

FNQROC STANDARD DRAWINGS

DRAWING No.	DRAWING TITLE
S1000 - S1110	ROADWORKS AND DRAINAGE
S2000 - S2025	WATER
S3000 - S3015	SEWERAGE



TW HEDLEY PTY LTD

RURAL RESIDENTIAL SUBDIVISION 189 RAY ROAD, MAREEBA LOCALITY PLAN

 Drawn
 Design
 Check'd
 Appn/d
 RPE0:25102
 A3 Full Size (Scale as shown)
 004-2403-01-DRG-0101

 PAM
 CJC
 CJC
 28:10:24
 004-2403-01-DRG-0101

GENERAL ARRANGEMENT

GENERAL

- G1. ALL WORKS ARE TO BE IN ACCORDANCE WITH THE FNQROC DEVELOPMENT MANUAL SPECIFICATIONS S1 TO S8.
- G2. CONTRACTOR TO PROVIDE PUBLIC NOTIFICATION/SIGNS (REFER FNQROC DEVELOPMENT MANUAL CP1.11).
- G3. CLEARED VEGETATION SHALL BE MULCHED ON SITE BY THE CONTRACTOR.
- G4. FOR KERB PROFILE DETAILS REFER FNQROC STD DRG S1000.
- G5. FOR STREET NAME POST DETAILS REFER FNQROC STD DRG S1040.
- G6. FOR CONCRETE DRIVEWAY DETAILS REFER FNQROC STD DRG S1110.

EXISTING SERVICES

- ES1. EXISTING SERVICES ARE PLOTTED FROM THE BEST INFORMATION AVAILABLE. NO RESPONSIBILITY IS TAKEN BY THE PRINCIPAL OR SUPERINTENDENT FOR THE ACCURACY AND COMPLETENESS OF THE INFORMATION SHOWN.
- ES2. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION THE CONTRACTOR IS TO ESTABLISH ON SITE THE EXACT POSITION OF ALL UNDERGROUND SERVICES IN THE PROPOSED WORKS AREA. METHODS FOR ACHIEVING THIS WILL INCLUDE BUT NOT BE LIMITED TO:-
- CAREFUL EXAMINATION OF THE CONTRACT DRAWINGS
- CONSULTATION WITH THE RELEVANT SERVICE AUTHORITIES
- COMPREHENSIVELY SCANNING THE AFFECTED AREAS WITH A CABLE DETECTOR AND MARKING ON THE GROUND THE POSITION OF ALL SERVICES.
- HAND EXCAVATING TO EXPOSE ALL SUCH SERVICES WHICH MAY BE AFFECTED BY THE PROPOSED WORKS UNDER THE DIRECTION OF THE RELEVANT SERVICE AUTHORITY.
- ES3. THE CONTRACTOR IS TO BRING TO THE SUPERINTENDENT'S ATTENTION ANY DISCREPANCIES BETWEEN THE EXISTING SERVICES THUS IDENTIFIED AND DOCUMENTED SERVICES WHICH MIGHT AFFECT THE PROPOSED WORKS. APPROPRIATE MEASURES TO RESOLVE ANY CONFLICTS WILL BE DOCUMENTED BY

VEGETATION & CLEARING

- VC1. PRIOR TO THE REMOVAL OF ANY TREE. AN INSPECTION MUST BE CARRIED OUT OF ANY SIGNS OF PROTECTED WILDLIFE INCLUDING NESTS AND ANIMAL HABITATS. SHOULD ANY RECENT WILDLIFE ACTIVITY BE IDENTIFIED, REMOVAL OF THE TREE MUST NOT OCCUR UNTIL THE ANIMAL HAS VACATED THE AREA OF IMMEDIATE DANGER. IF THE ANIMAL DOES NOT MOVE FROM THE AREA OF DANGER, THE QUEENSLAND PARKS AND WILDLIFE MUST BE CONTACTED FOR ADVICE.
- VC1. AN ASSESSMENT IS TO BE UNDERTAKEN BY A SUITABLY QUALIFIED AND EXPERIENCED SPOTTER/CATCHER TO DETERMINE THE POSSIBLE PRESENCE OF NATIVE WILDLIFE. THE ASSESSMENT MUST INCLUDE THE IDENTIFICATION OF ANY BREEDING PLACES FOR ANY ENDANGERED/VIII NERABLE OR NEAR THREATENED ANIMAL SPECIES, SPECIAL LEAST CONCERN OR COLONIAL BREEDING SPECIES PRIOR TO THE REMOVAL OF ANY TREE AND/OR VEGETATION AS PER THE REQUIREMENTS OF SECT. 332 OF THE NATURE CONSERVATION (WILDLIFE MANAGEMENT) REGULATION 2006 (CONDITION 59).
- VC2. COUNCIL MUST BE NOTIFIED TWO DAYS PRIOR TO THE PROPOSED DATE OF COMMENCEMENT OF ANY APPROVED VEGETATION CLEARING TO FACILITATE COMMUNITY AWARENESS OF SUCH WORKS
- VC3. VEGETATION TO BE RETAINED MUST BE ADEQUATELY DEFINED BY FENCING, FLAGGING OR BARRIER MESH FOR PROTECTION PURPOSES PRIOR TO CONSTRUCTION COMMENCING ON SITE.
- VC4. A MINIMUM 2m WIDE BUFFER SHALL BE PROVIDED AROUND THE VEGETATION TO BE RETAINED. THIS BUFFER MUST CONSIST OF SUITABLE FENCING, FLAGGING OR BARRIER MESH TO ENSURE THAT MACHINERY, EQUIPMENT OR CONSTRUCTION MATERIALS ARE NOT STORED OR USED WITHIN THIS AREA. THIS BUFFER IS TO BE ESTABLISHED PRIOR TO THE COMMENCEMENT OF ANY WORKS ON SITE AND MUST BE MAINTAINED AT ALL TIMES FOR THE DURATION OF CONSTRUCTION.
- VC5. CLEARED VEGETATION TO BE MULCHED AND SPREAD OVER THE CLEARED AREA FOR EROSION AND SEDIMENT CONTROL OR LANDSCAPING PURPOSES.

EARTHWORKS

E1. ALL BATTERS TO ROAD FRONTAGES OF LOTS ARE 1 ON 4 OR FLATTER. ALL OTHER BATTERS ARE 1 0N 1 U.N.O.

E2. UPON COMPLETION ALL BATTERS STEEPER THAN 1 IN 2 AND HIGHER THAN 1.5m SHALL REQUIRE CERTIFICATION BY A GEOTECHNICAL ENGINEER

INTERSECTION DETAILS

- 11. ALL KERB SETOUT DETAILS REFER TO THE LIP OF KERB AND CHANNEL OR FACE OF KERB AS APPLICABLE.
- 12. FOR KERB PROFILE DETAILS REFER FNQROC STD DRG S1000.
- ALL TRAFFIC SIGNS AND PAVEMENT MARKING TO BE IN ACCORDANCE WITH 'T.M.R. MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES' PARTS 1-15.
- 14. ALL REGULATORY, WARNING AND HAZARD SIGNS TO BE SIZE 'A' UNLESS NOTED
- 15. NEW LINEMARKING WORKS TO BE 2 COAT APPLICATION OF WATERBORNE PAINT AS PER DTMR STANDARDS (MRTS45 CLAUSE 6.1.2)

STORMWATER DRAINAGE

- D1. FOR STANDARD STORMWATER DRAINAGE DETAILS REFER FNQROC STD. DRGS. S1045-S1100 INCLUSIVE
- D2. THE CONTRACTOR IS TO LOCATE ALL EXISTING SERVICES IN THE WORKS AREA PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. FOR NOTES REGARDING EXISTING SERVICES REFER DG-0001
- D3 SUBSURFACE DRAINS TO BE CONSTRUCTED IN ACCORDANCE WITH STANDARD SPECIFICATION, FLUSHING POINTS IN ACCORDANCE WITH FNQROC STD DRG S1095.
- D4. PRIOR TO COMMENCEMENT OF PIPEWORK, THE CONTRACTOR IS TO CONFIRM THE INVERT LEVEL OF DOWNSTREAM DRAINAGE TO ENSURE THE STORMWATER SYSTEM CAN DRAIN SATISFACTORILY. REFER ANY DISCREPANCY TO THE SUPERINTENDENT.
- D5. CCTV INSPECTIONS ARE TO BE CONDUCTED FOR ALL NEW STORMWATER PIPES FOR COUNCIL ASSESSMENT.
- D6. ALL STORMWATER PIPES SHALL BE EITHER REINFORCED CONCRETE PIPE (RCP) OR POLYPROPOLENE (PP). RCP PIPES SHALL BE CLASS 2 FJ UNLESS NOTED OTHERWISE. PP PIPES SHALL BE BLACKMAX OR STORMPRO. REFER DRG-0301 FOR PP BEDDING DETAILS

WATER

- W1. ALL WATER MAINS ARE ON A 2.0m ALIGNMENT FROM BOUNDARY U.N.O.
- W2. FOR STANDARD DETAILS REFER FNQROC. STD. DRGS. S2000 TO S2035 INCLUSIVE.
- W3. ALL WORKS ARE TO BE IN ACCORDANCE WITH FNQROC DEVELOPMENT MANUAL SPECIFICATION S5.
- W4. CONNECTIONS TO EXISTING COUNCIL MAINS TO BE MADE BY COUNCIL AND REQUIRE 30 DAYS NOTICE
- W5. THE CONTRACTOR IS TO LOCATE ALL EXISTING SERVICES IN THE WORKS AREA PRIOR TO COMMENCEMENT OF CONSTRUCTION, REFER DRG-01 FOR NOTES REGARDING EXISTING SERVICES.
- W6. TEARDROP MARKERS AND BLUE RETRO REFLECTIVE MARKERS TO BE IN ACCORDANCE WITH ENORGC STD DRG S2010 REVISION B
- W7. PROVIDE A COMPRESSIBLE LAYER BETWEEN ALL EXISTING AND PROPOSED HYDRANT OR VALVE SURROUNDS WITHIN AREAS OF CONCRETE.
- W8. PROVIDE 'OMNI' MARKER BALLS TO WATERMAINS ON NON-STANDARD ALIGNMENTS AND INSTALL TO MANUFACTURERS SPECIFICATION. MARKERS ARE TO BE INSTALLED AT ALL HORIZONTAL CHANGES OF DIRECTION AND INTERVALS NOT GREATER THAN 50m ALONG THE PIPELINE. MARKER LOCATIONS ARE TO BE SHOWN ON AS-CONSTRUCTED DRAWINGS.
- W9. THRUST BLOCKS ARE TO BE INSTALLED AT VALVES IN ACCORDANCE WITH WSA STANDARD DRAWING SEQ-WAT-1206-1.

EROSION AND SEDIMENT CONTROL STRATEGY

- SC1. SEQUENCING OF CONTROL MEASURES
- INSTALL STABLE POINT OF ENTRY
- INSTALL SILT FENCES
- PROTECT TOPSOIL STOCKPILES
- CONSTRUCT TEMPORARY SEDIMENT BASINS
- **INSTALL STORMWATER PIPES**

- IMPLEMENT PROTECTION MEASURES TO STORMWATER PITS
- REVEGETATE BARE AREAS UPON COMPLETION OF EARTHWORKS
- THE SEDIMENT CONTROL STRUCTURES ARE TO BE CLEANED & MAINTAINED AFTER EVERY SIGNIFICANT RAIN EVENT. ERODED SOILS SHALL BE STOCKPILED AS
- SC2. THE AMOUNT OF DISTURBANCE TO EXISTING VEGETATION BE KEPT TO A MINIMUM.
- SC3. EXACT LOCATION OF SEDIMENT CONTROL STRUCTURES TO BE DETERMINED ON SITE BY COUNCIL & SUPERINTENDENT
- SC4. STOCKPILE LOCATIONS TO BE AGREED WITH COUNCIL & THE SUPERINTENDENT. STOCKPILES TO BE PROTECTED VIA DIVERSION DRAIN ON THE UPSLOPE & SILT
- SC5. RETURNS IN SILT FENCE TO BE AT 20m INTERVALS WHEN INSTALLED ALONG THE CONTOUR. SPACING IS TO DECREASE TO 5-10m DEPENDING ON SLOPE IF THE SILT FENCE IS INSTALLED AT AN ANGLE TO THE CONTOUR. THE RETURN SHALL CONSIST OF EITHER:
- V-SHAPED SECTION EXTENDING AT LEAST 1.5m UP THE SLOPE; OR
- SANDBAG OR ROCK/AGGREGATE CHECK DAM A MINIMUM OF 1/3 AND MAXIMUM OF 1/2 FENCE HEIGHT, AND EXTENDING AT LEAST 1.5m UP THE SLOPE.
- SC6. STORMWATER PIPES TO HAVE PIT PROTECTION MEASURES AS DETAILED IN FNQROC DEVELOPMENT MANUAL
- SC7. ALL SEDIMENT CONTROL MEASURES TO BE IN ACCORDANCE WITH THE CONTRACTORS ESC PLAN.
- SC8. THE FOLLOWING REVEGETATION MEASURES ARE TO BE UNDERTAKEN IMMEDIATELY UPON COMPLETION OF FARTHWORKS
- CUT & FILL BATTERS STEEPER THAN 1 IN 4 TO BE HYDROMULCHED.
- VERGES & ALLOTMENTS TO BE GRASS SEEDED.
- PLACE TURF STRIPS BEHIND ALL KERB LINES.
- SC9. REVEGETATION IS TO BE WATERED & MAINTAINED UNTIL GROWTH IS ESTABLISHED.
- SC10. CONTRACTOR MUST IMPLEMENT A SUITABLE DUST MANAGEMENT STRATEGY TO MINIMISE DUST NUISANCE ON ADJACENT PROPERTIES. DETAILS OF THE DUST MANAGEMENT STRATEGY TO BE INCORPORATED INTO EROSION AND SEDIMENT CONTROL STRATEGY

SC11. SEDIMENT BASIN

- a) INLET PROTECTION TO MINIMISE SCOUR & EVENLY DISTRIBUTE FLOW THROUGH
- A MARKER PEG SHOULD BE INSTALLED TO SHOW THE STORAGE DEPTH. SEDIMENT SHALL BE REMOVED FROM BASIN WHEN 30% STORAGE DEPTH IS ENCROACHED & APPROPRIATELY DISPOSED ON SITE BY RESPREADING IN AREAS OF NON-EROSIVE
- SC12. WATER QUALITY MONITORING SHOULD BE UNDERTAKEN DURING SIGNIFICANT RAINFALL EVENTS (I.E. > 10mm).
- SC13. DESIGN CRITERIA FOR CONTRACTOR'S EROSION & SEDIMENT CONTROL PLAN TO BE IN ACCORDANCE WITH SECTION CP1.05 OF THE FNQROC DEVELOPMENT MANUAL

SURVEY AND SETOUT

SS1. SURVEY, DATUM, LEVELS & SERVICES HAVE BEEN DERIVED FROM MD LAND SURVEY JOB NO 1873 CAD FILE "Ray Road Detail.dwg" DATED 22/09/2024.

AZIMUTH: MGA vide SP292876 HORIZONTAL DATUM: Arbitrary VERTICAL DATUM: AHD vide PSM 94627 RL 425.910

SS2. DIGITAL CAD FILES OF THE CIVIL WORKS WILL BE PROVIDED FOR SETOUT **PURPOSES**

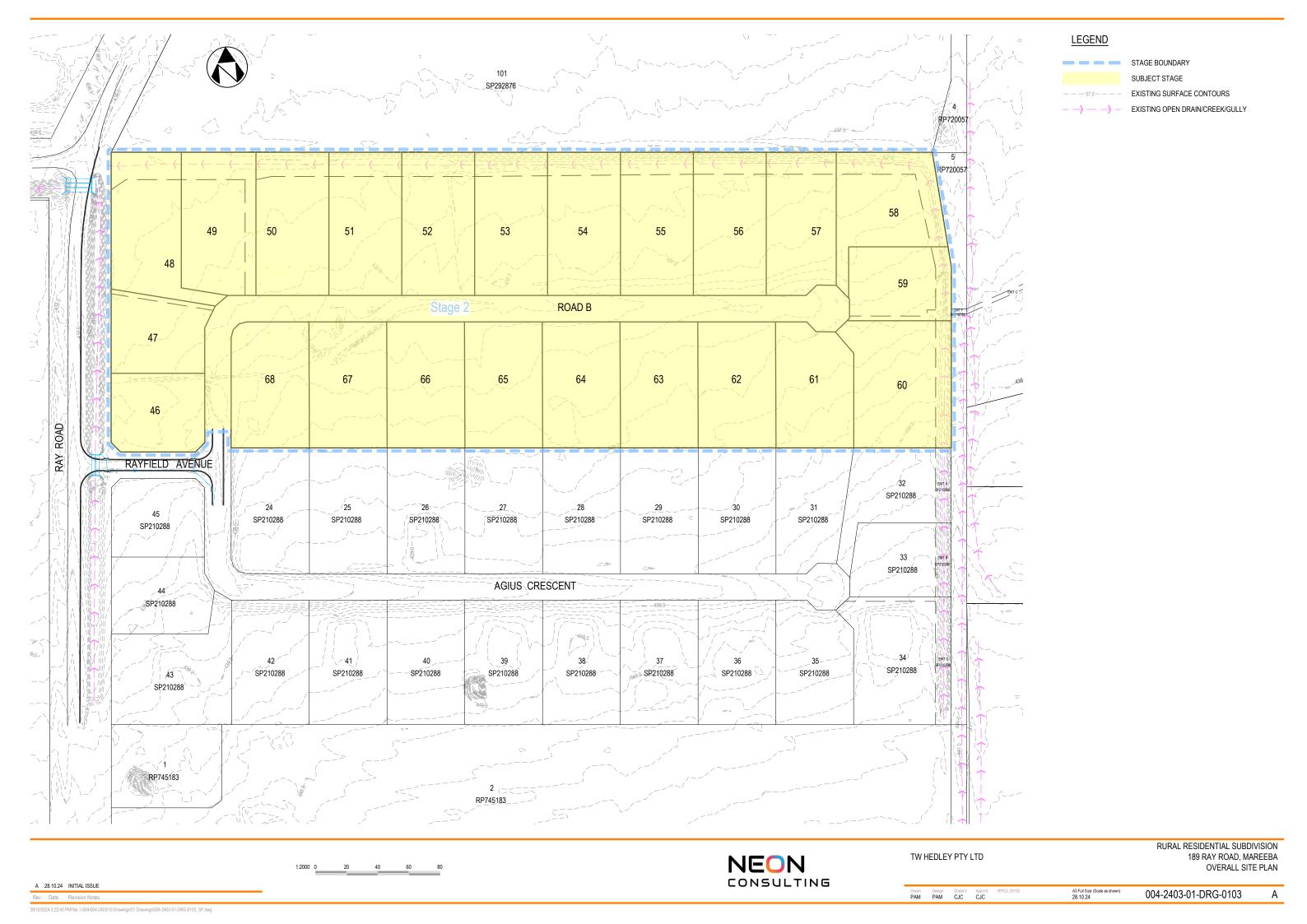
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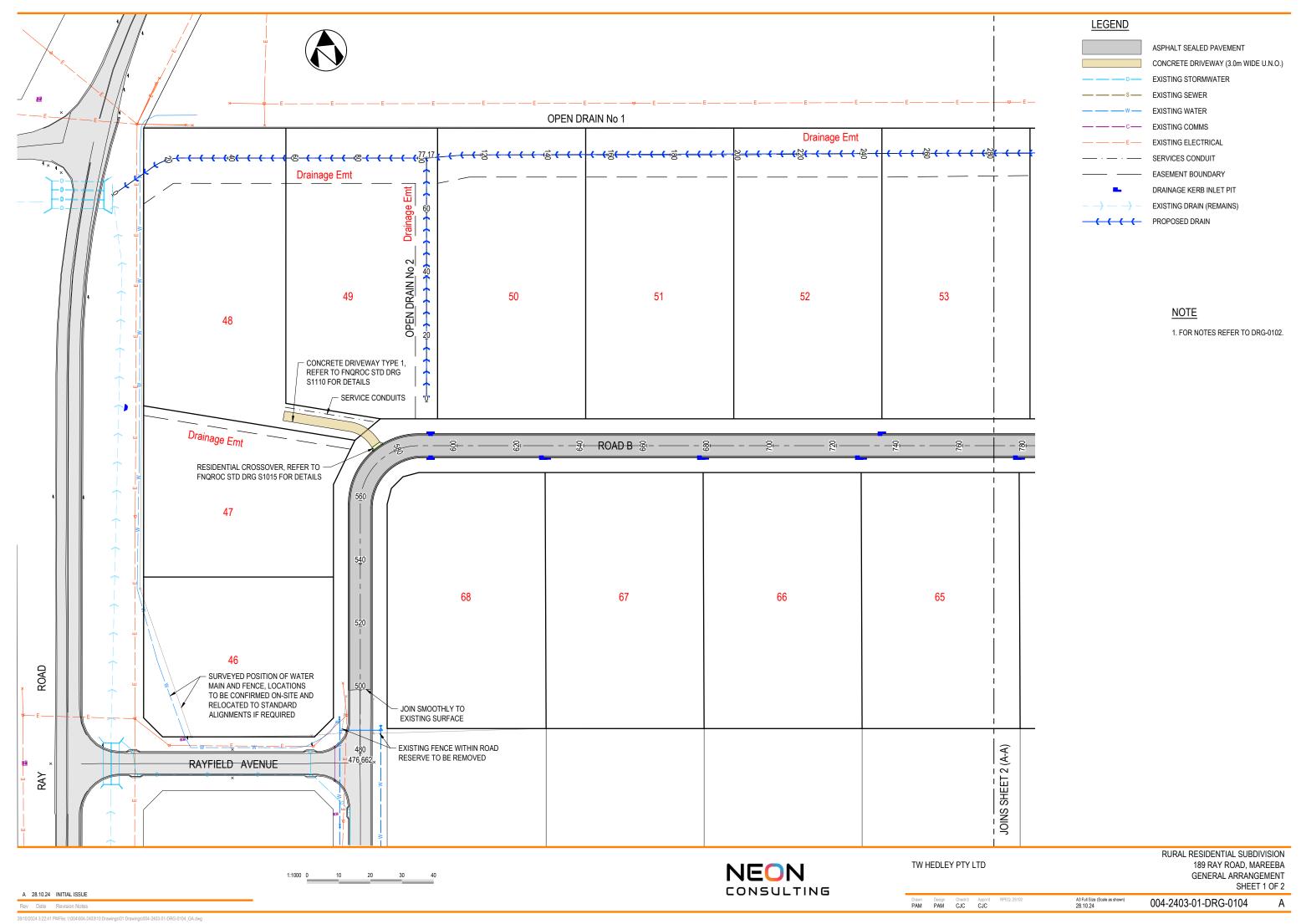
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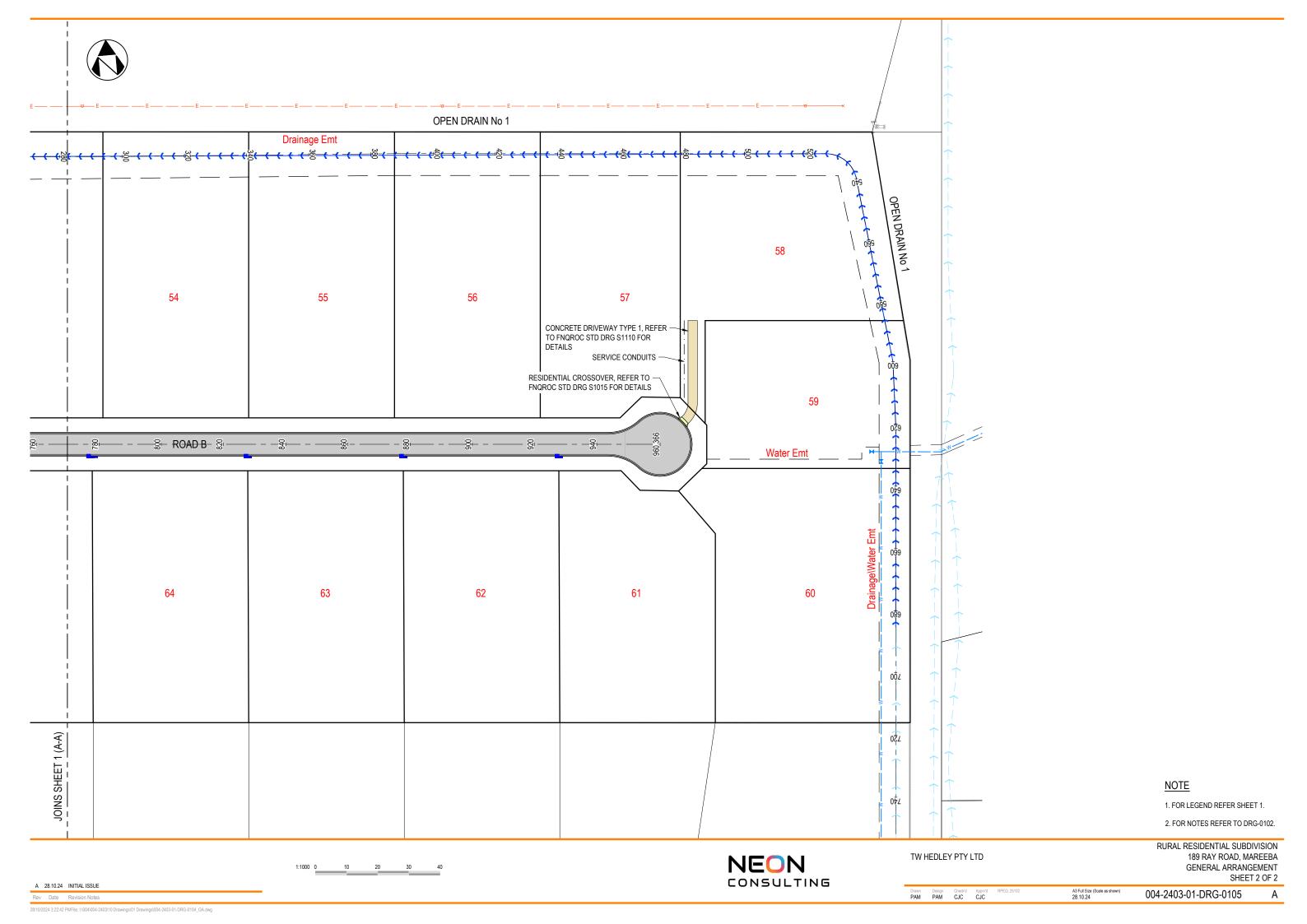
RURAL RESIDENTIAL SUBDIVISION 189 RAY ROAD MARFEBA PROJECT NOTES

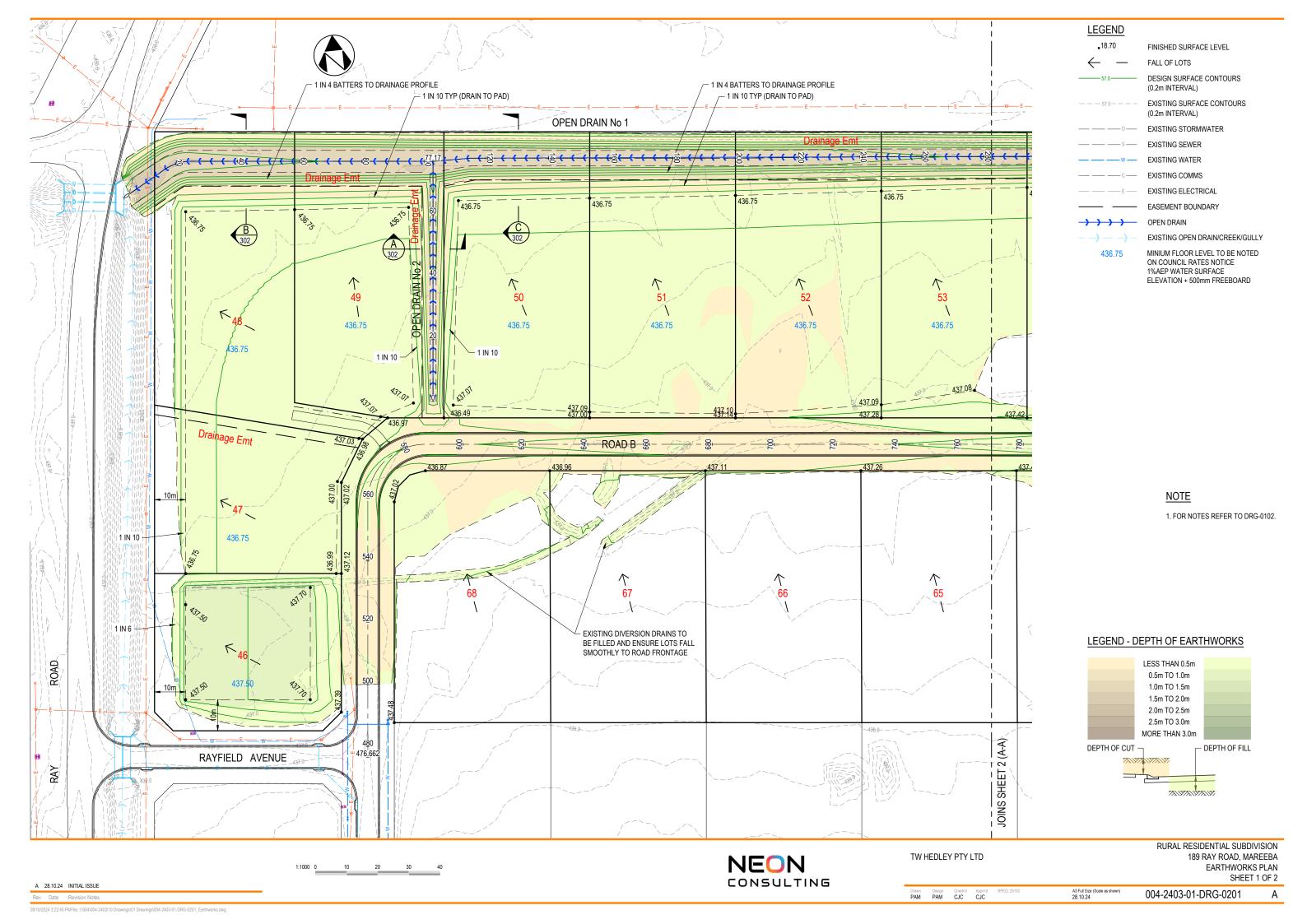
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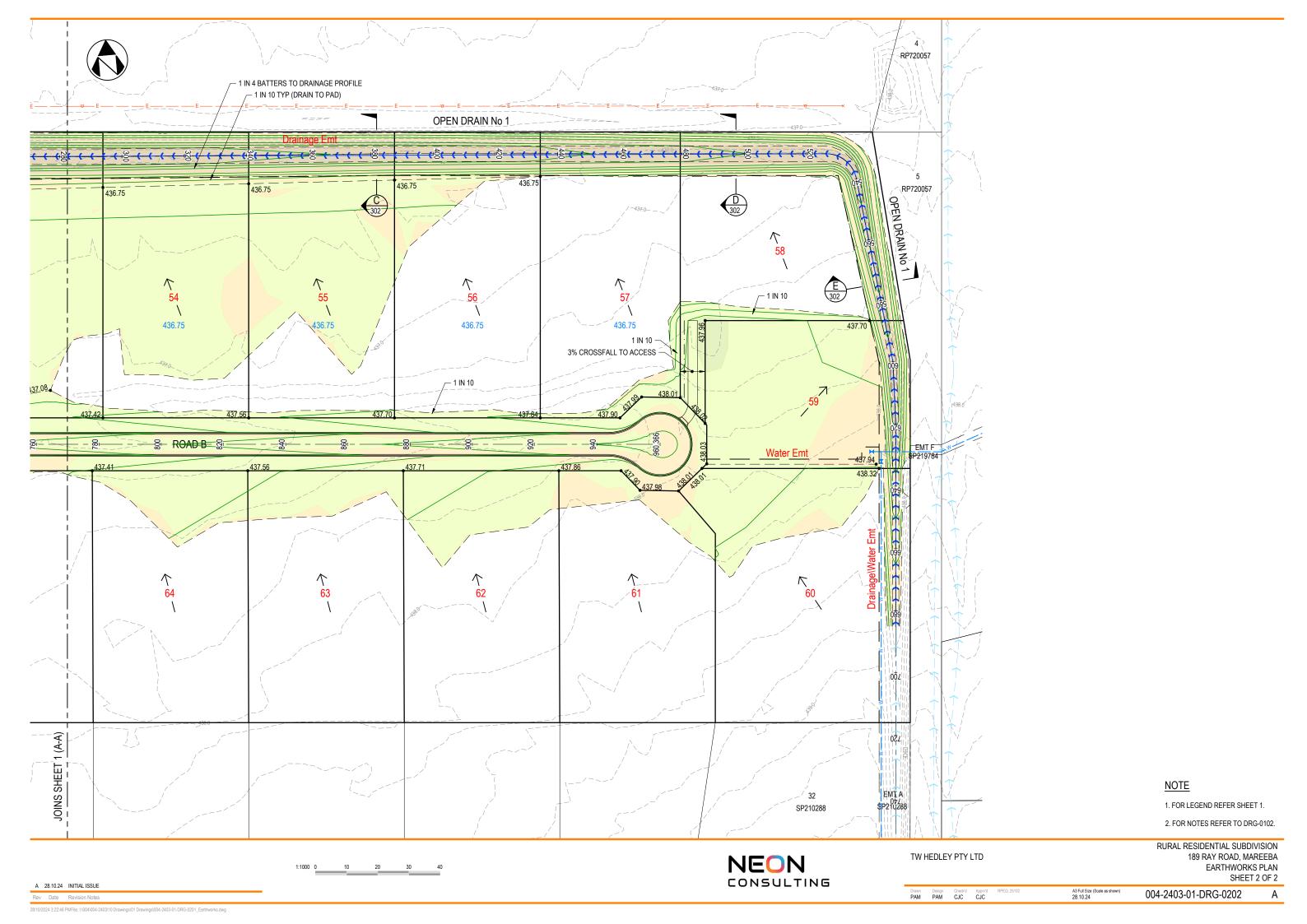
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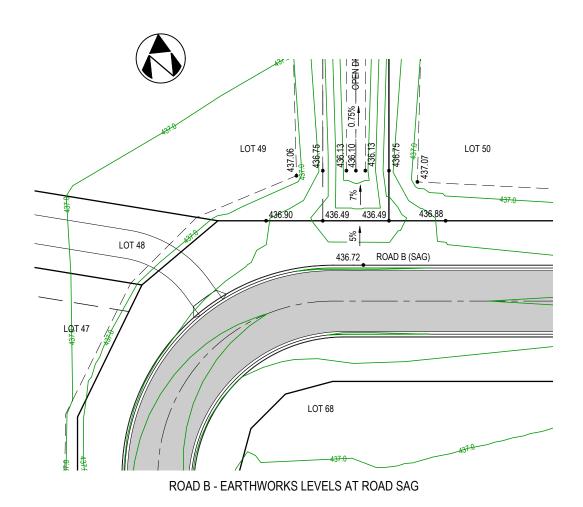












<u>LEGEND</u>

FINISHED SURFACE LEVEL

DESIGN SURFACE CONTOURS

(0.2m INTERVAL)

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RURAL RESIDENTIAL SUBDIVISION 189 RAY ROAD, MAREEBA EARTHWORKS DETAIL PLAN

PAM PAM CJC CJC 004-2403-01-DRG-0203

CONTROL LINE ROAD B SETOUT

CHAINAGE	COORDINATES		BEARING	RADIUS OF	TANGENT	ARC
	EASTING	NORTHING	DEG MIN SEC	CURVATURE	LENGTH	LENGTH
476.662	5051.892	9794.307	4° 40' 30"	STRAIGHT		
558.761	5058.583	9876.133	4° 40' 30"	18.500		
IP 573.291	5060.091	9894.571	-	18.500	18.500	29.059
587.821	5078.529	9893.063	94° 40' 30"	STRAIGHT		
960.366	5449.835	9862.699	94° 40' 30"	STRAIGHT		

CONTROL LINE OED-1 SETOUT

CHAINAGE	COORD	INATES	BEARING	RADIUS OF	TANGENT	ARC
	EASTING	NORTHING	DEG MIN SEC	CURVATURE	LENGTH	LENGTH
0.000	4988.333	9979.910	59° 59' 59"	STRAIGHT		
16.016	5002.203	9987.918	59° 59' 59"	15.000		
IP 20.556	5006.259	9990.260	-	15.000	4.684	9.080
25.096	5010.928	9989.878	94° 40' 60"	STRAIGHT		
102.819	5088.391	9983.532	89° 55' 10"	STRAIGHT		
114.861	5100.433	9983.549	94° 40' 60"	STRAIGHT		
200.094	5185.381	9976.590	94° 4' 19"	STRAIGHT		
246.963	5232.132	9973.262	94° 40' 60"	STRAIGHT		
293.829	5278.842	9969.435	94° 4' 19"	STRAIGHT		
387.568	5372.344	9962.779	94° 40' 60"	STRAIGHT		
526.251	5510.564	9951.456	94° 40' 60"	10.000		
IP 533.117	5518.733	9950.787	-	10.000	8.196	13.732
539.983	5519.681	9942.646	173° 21' 34"	STRAIGHT		
599.898	5526.610	9883.132	182° 10' 53"	STRAIGHT		
620.551	5525.824	9862.494	184° 40' 44"	STRAIGHT		
716.016	5518.037	9767.347	184° 40' 44"	STRAIGHT		
893.992	5503.519	9589.965	184° 40' 44"	STRAIGHT		

CONTROL LINE OED-2 SETOUT

CHAINAGE	COORD	COORDINATES		RADIUS OF	TANGENT	ARC
	EASTING	NORTHING	DEG MIN SEC	CURVATURE	LENGTH	LENGTH
0.000	5082.102	9906.619	4° 40' 30"	STRAIGHT		
77.170	5088.391	9983.532	4° 40' 30"	STRAIGHT		

TABLE OF WIDTHS

ROAD	CARRIAGEWAY WIDTH (m)	VERGE WIDTH (m)		RESERVE WIDTH
		LHS	RHS	(m)
ROAD B	7.00	5.00	5.00	17.00

PROVISIONAL PAVEMENT DETAILS

LOCATION	SURFACING	BASE COURSE	SUBBASE COURSE
ROAD B	30mm ASPHALT	100mm THICK CBR 60 MIN	100mm THICK CBR 45 MIN

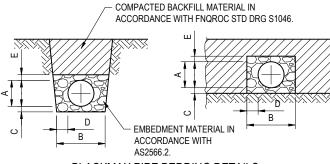
NOT

PROVISIONAL PAVEMENT DESIGN IS BASED ON AN ASSUMED SUBGRADE SOAKED CBR OF 10. THE CONTRACTOR IS TO CONFIRM SUBGRADE CBR DURING CONSTRUCTION AND THE PAVEMENT DESIGN MAY BE AMENDED ACCORDINGLY BY THE COUNCIL.

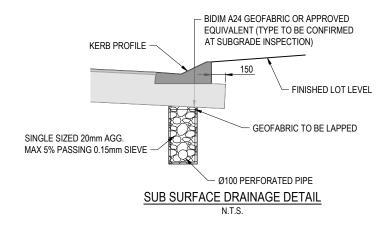
ASPHALT SURFACING TO BE INCREASED TO 50mm AT CUL-DE-SAC. REFER DRG. DRG-0303 FOR LOCATIONS.

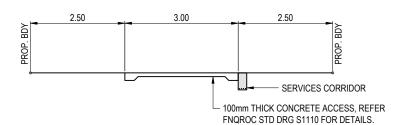
POLYPROPYLENE PIPE BEDDING DIMENSIONS

DN	DIMENSIONS (mm)					
DIN	Α	В	С	D	Е	
225	259	560	100	150	150	
300	344	645	100	150	150	
375	428	830	100	200	150	
450	514	915	100	200	150	
525	600	1200	150	300	150	
600	682	1285	150	300	150	
750	835	1435	150	300	150	
900	999	1700	150	300	200	



BLACKMAX PIPE BEDDING DETAILS

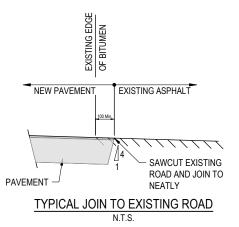




$\frac{\text{TYPICAL ACCESS CROSS SECTION}}{\text{N.T.S.}}$

PROVIDE THE FOLLOWING 4 CONDUITS PER LOT:

- 80mm DIA. uPVC CONDUIT FOR ERGON (ORANGE)
- 50mm DIA.uPVC FOR TELSTRA (WHITE)
- 20mm DIA. HDPE FOR WATER SERVICE



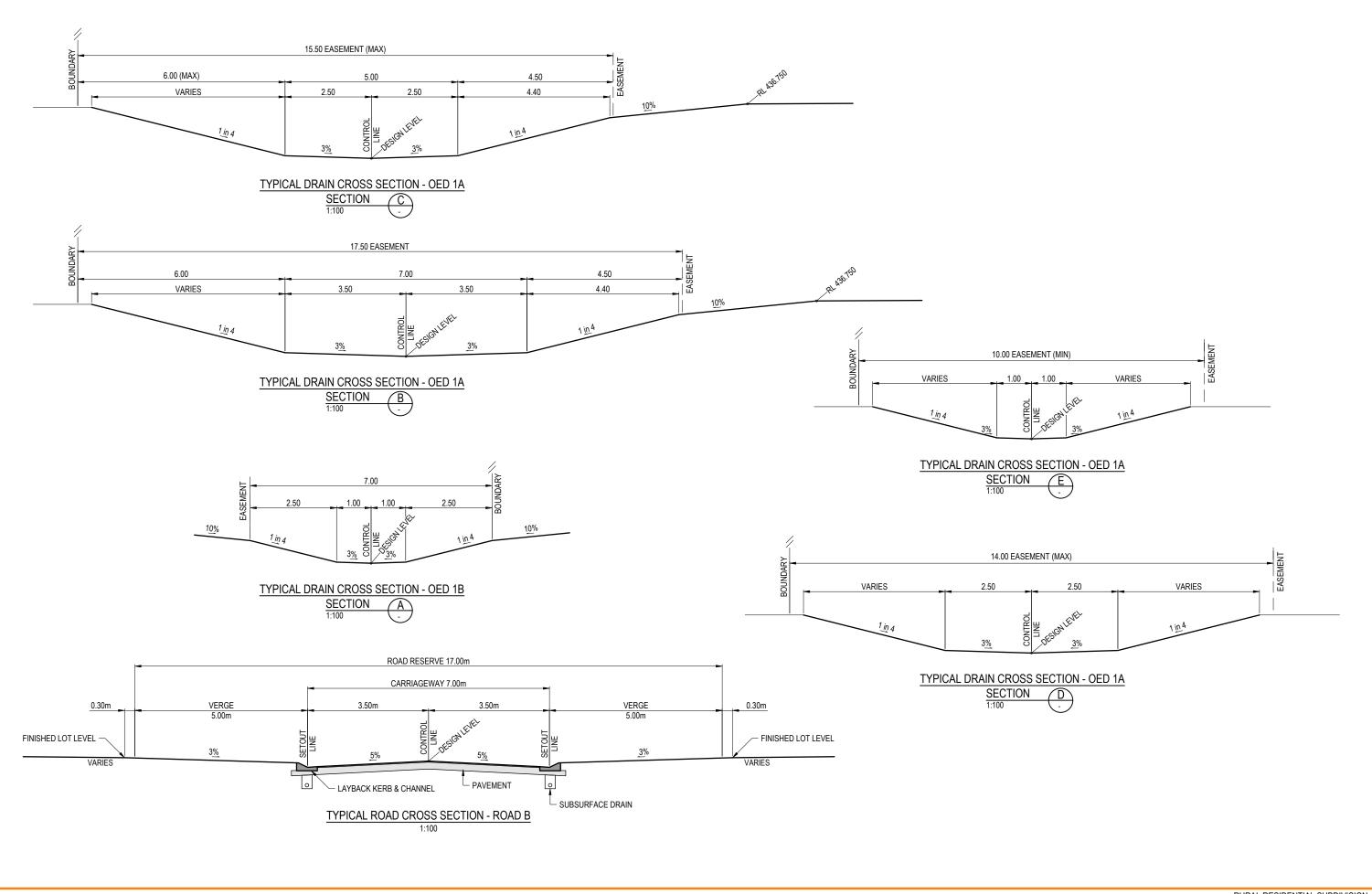


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RURAL RESIDENTIAL SUBDIVISION 189 RAY ROAD, MAREEBA TYPICAL SECTIONS AND DETAILS SHEET 1 OF 2

 Drawn
 Design
 Check'd
 Appn'd
 RPEQ: 25102
 A3 Full Size

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 PAM
 CJC
 CJC
 28.10.24



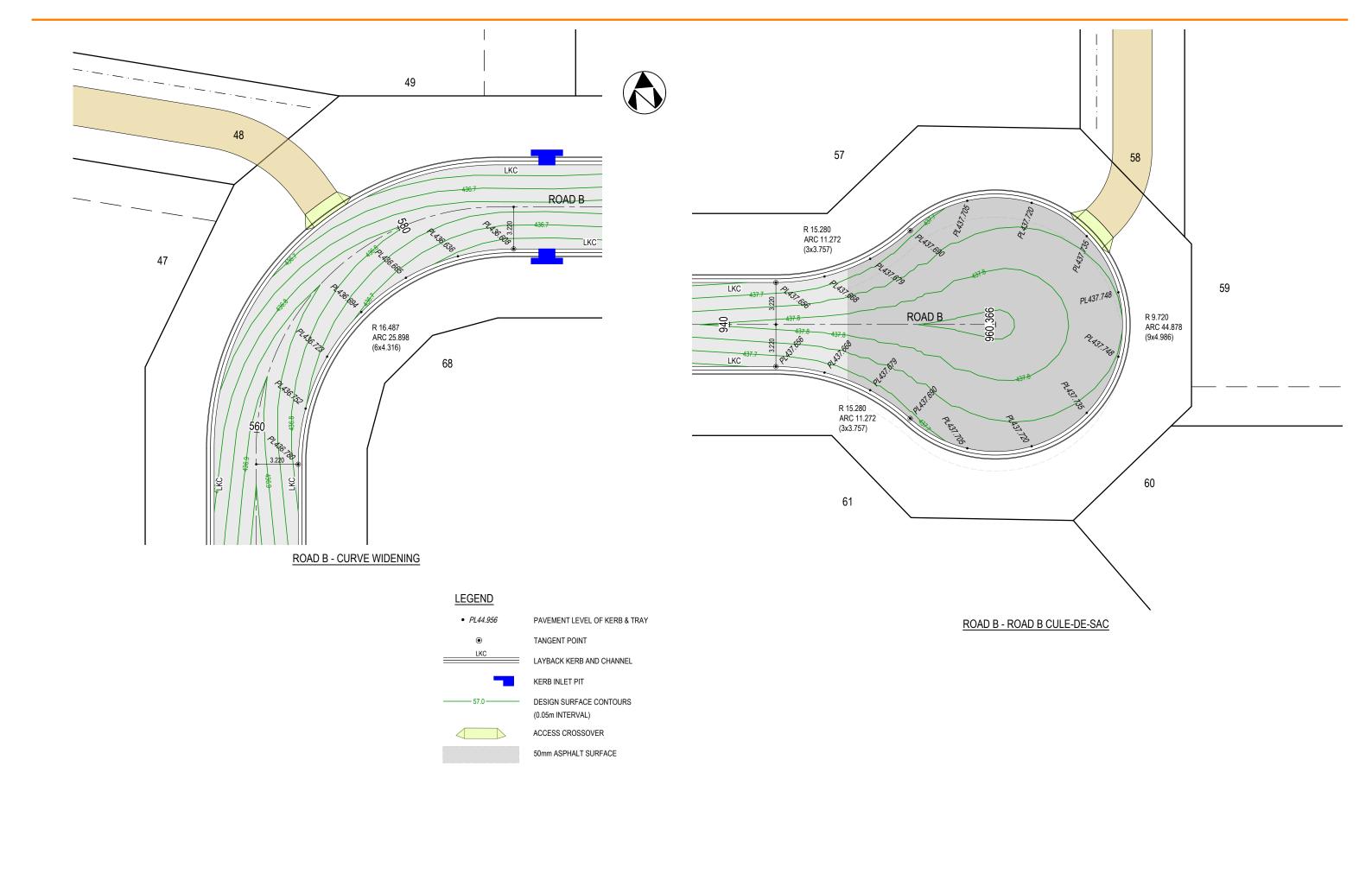
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RURAL RESIDENTIAL SUBDIVISION 189 RAY ROAD, MAREEBA TYPICAL SECTIONS AND DETAILS SHEET 2 OF 2

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004-2403-01-DRG-0302

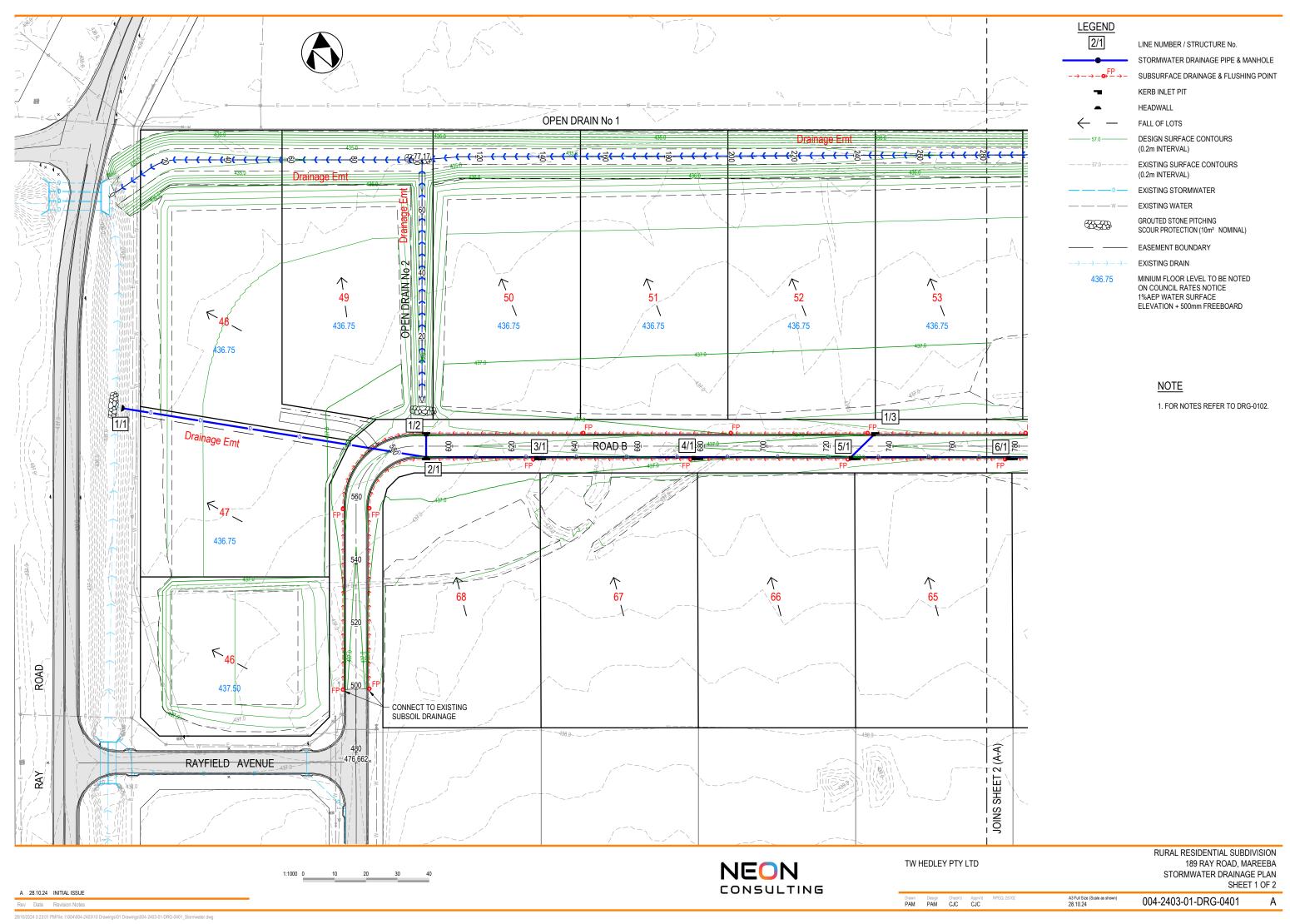
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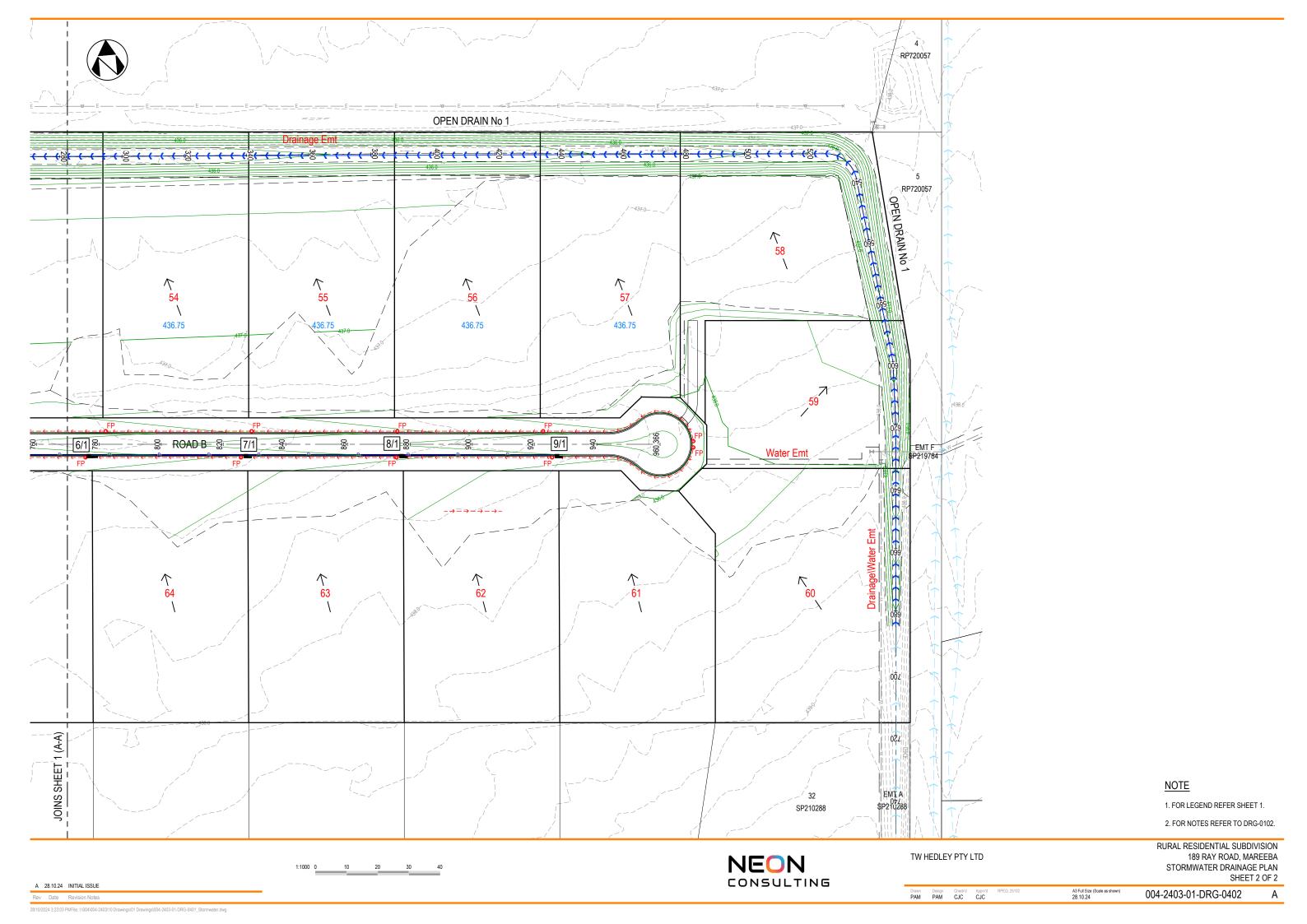


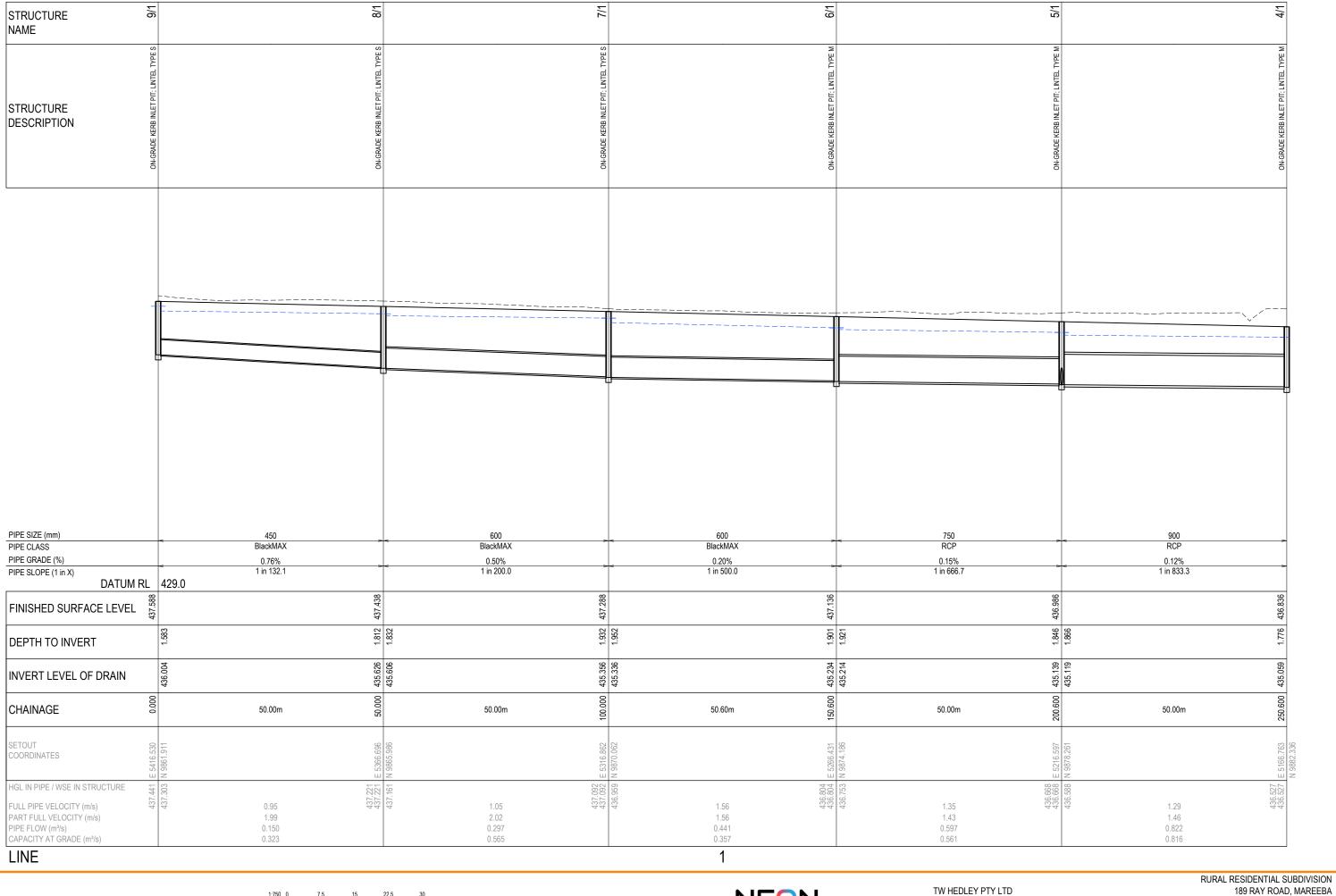
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TW HEDLEY PTY LTD 189 RAY ROAD, MAREEBA
INTERSECTION DETAILS

PAM PAM CJC CJC

A3 Full Size (Scale as sh 28.10.24



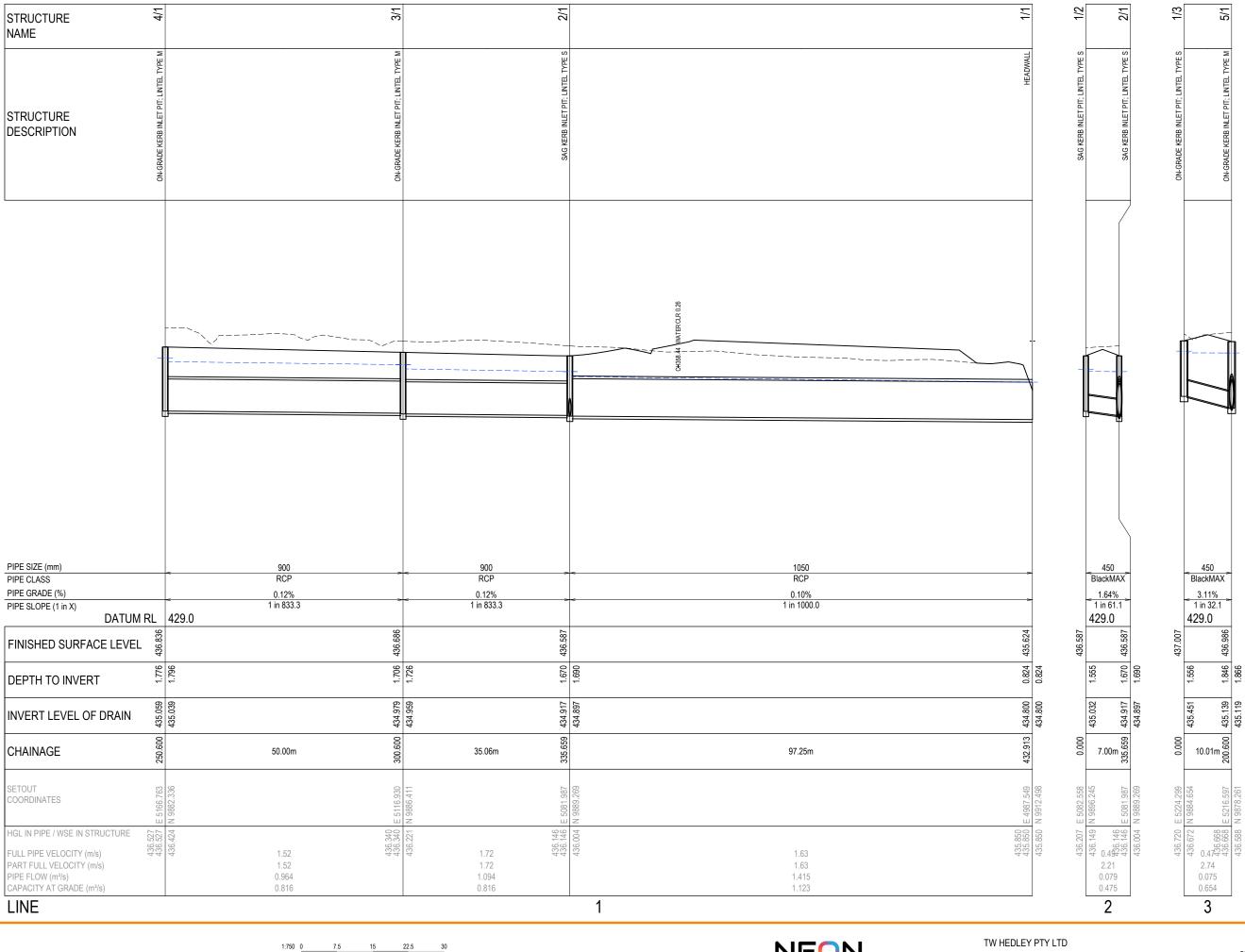




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189 RAY ROAD, MAREEBA STORMWATER LONGITUDINAL SECTIONS
SHEET 1 OF 2

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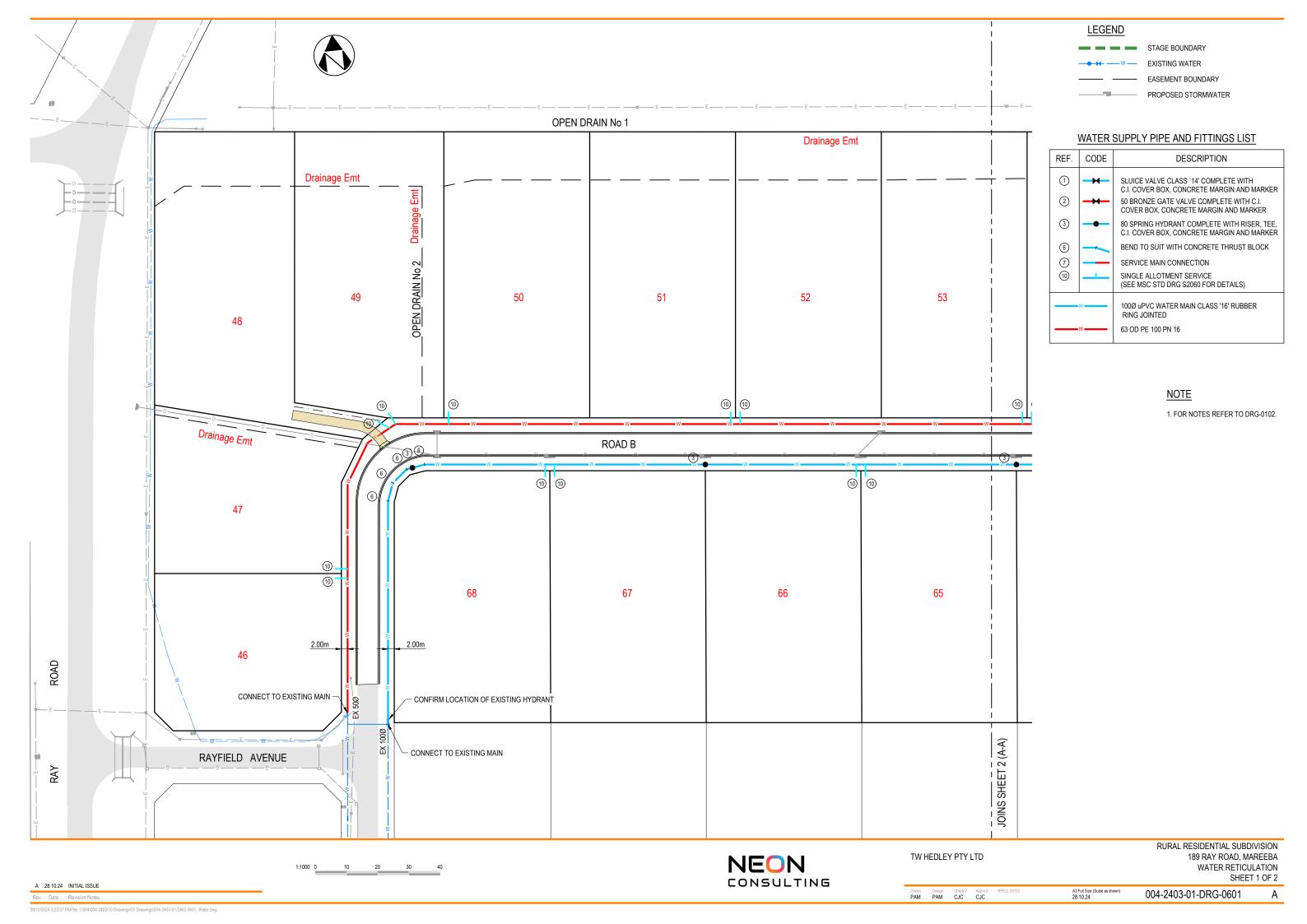
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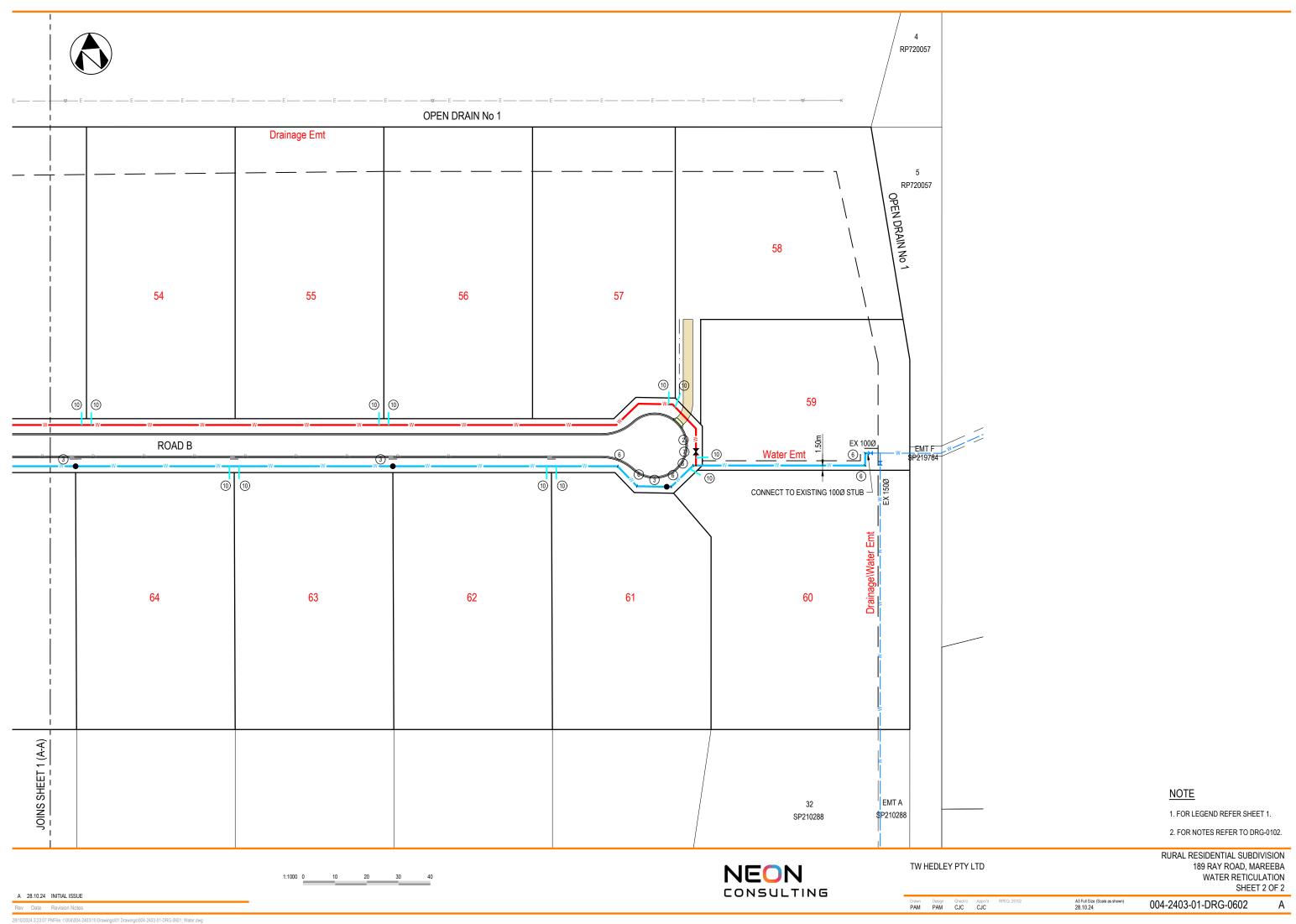
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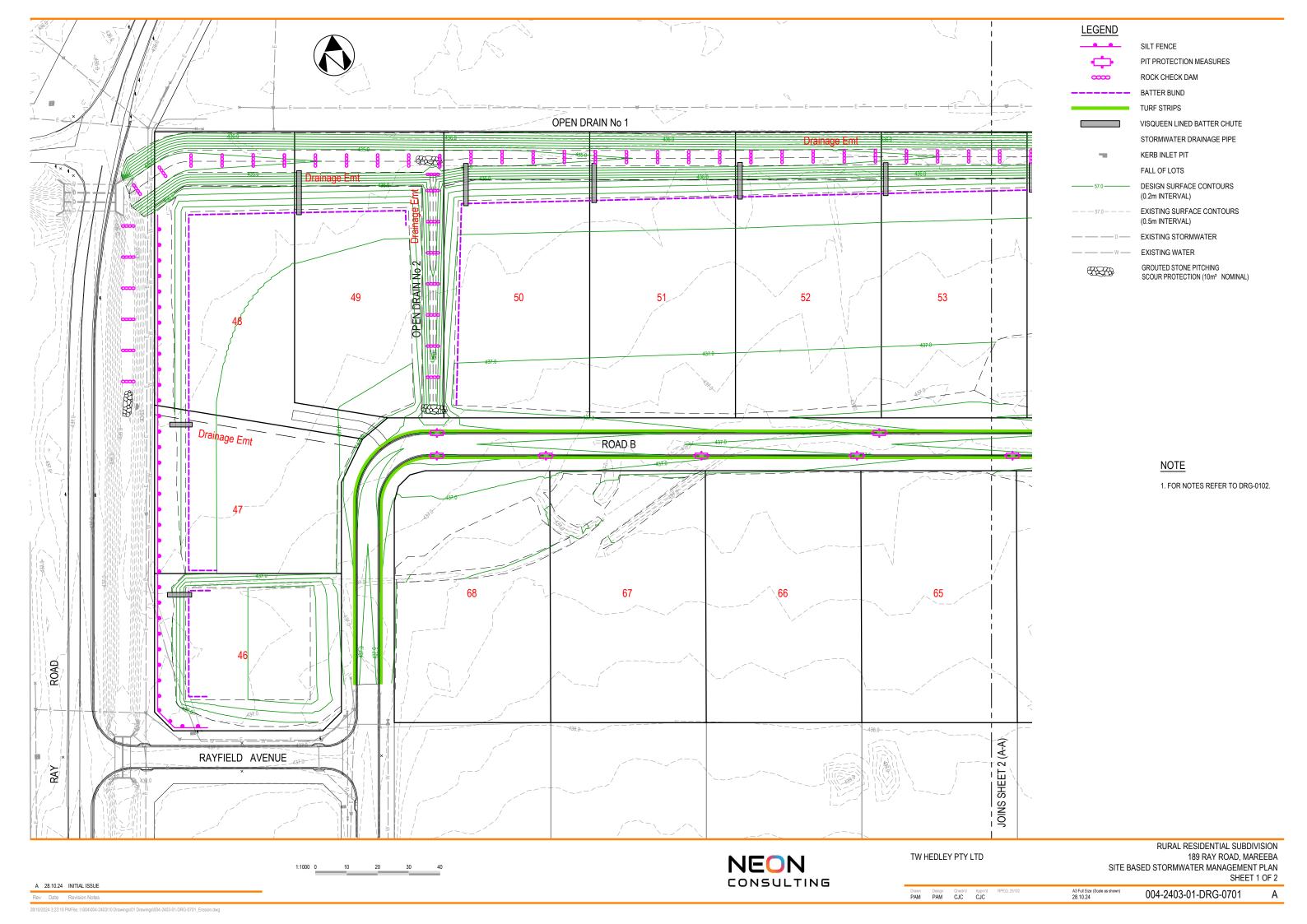
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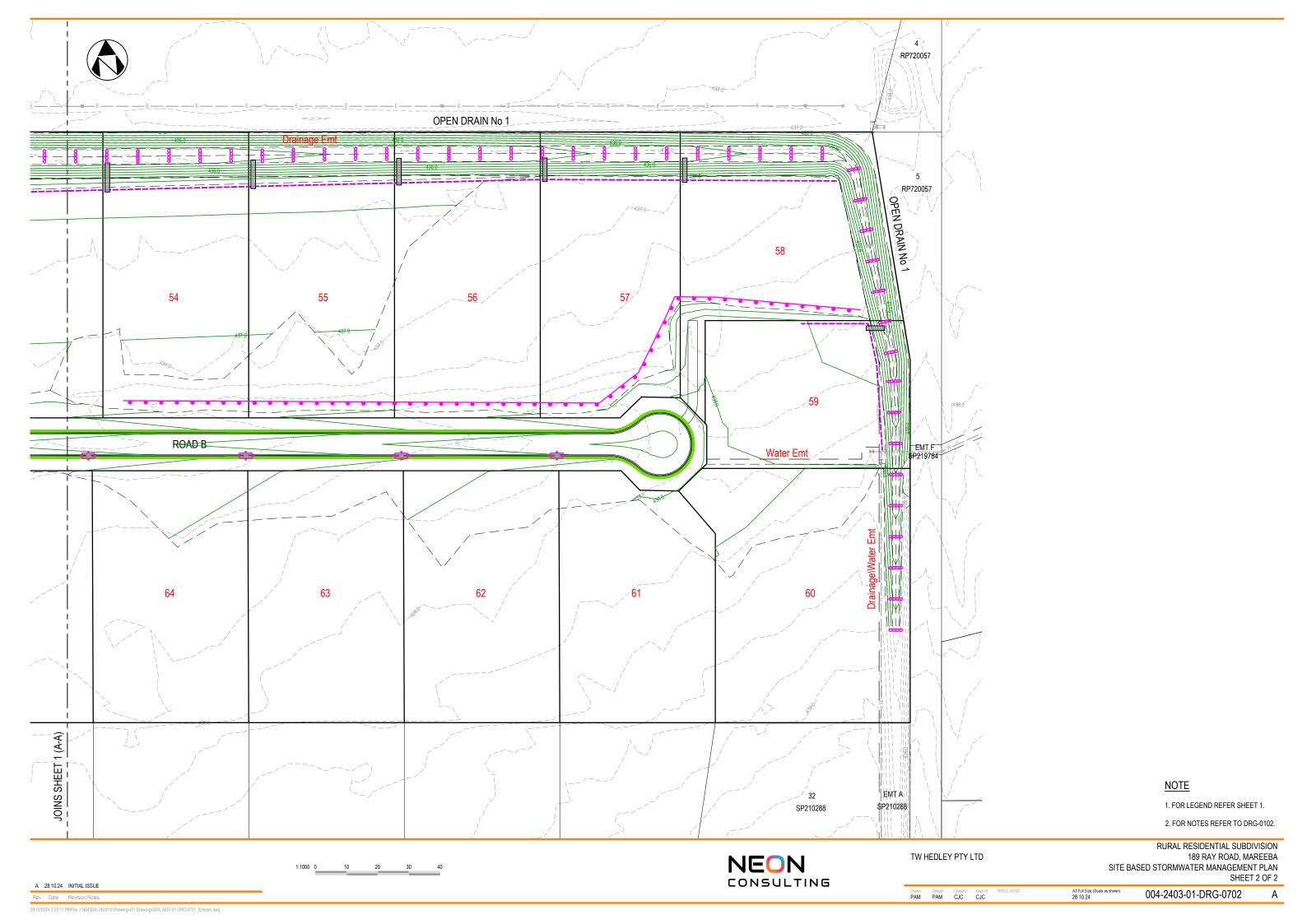
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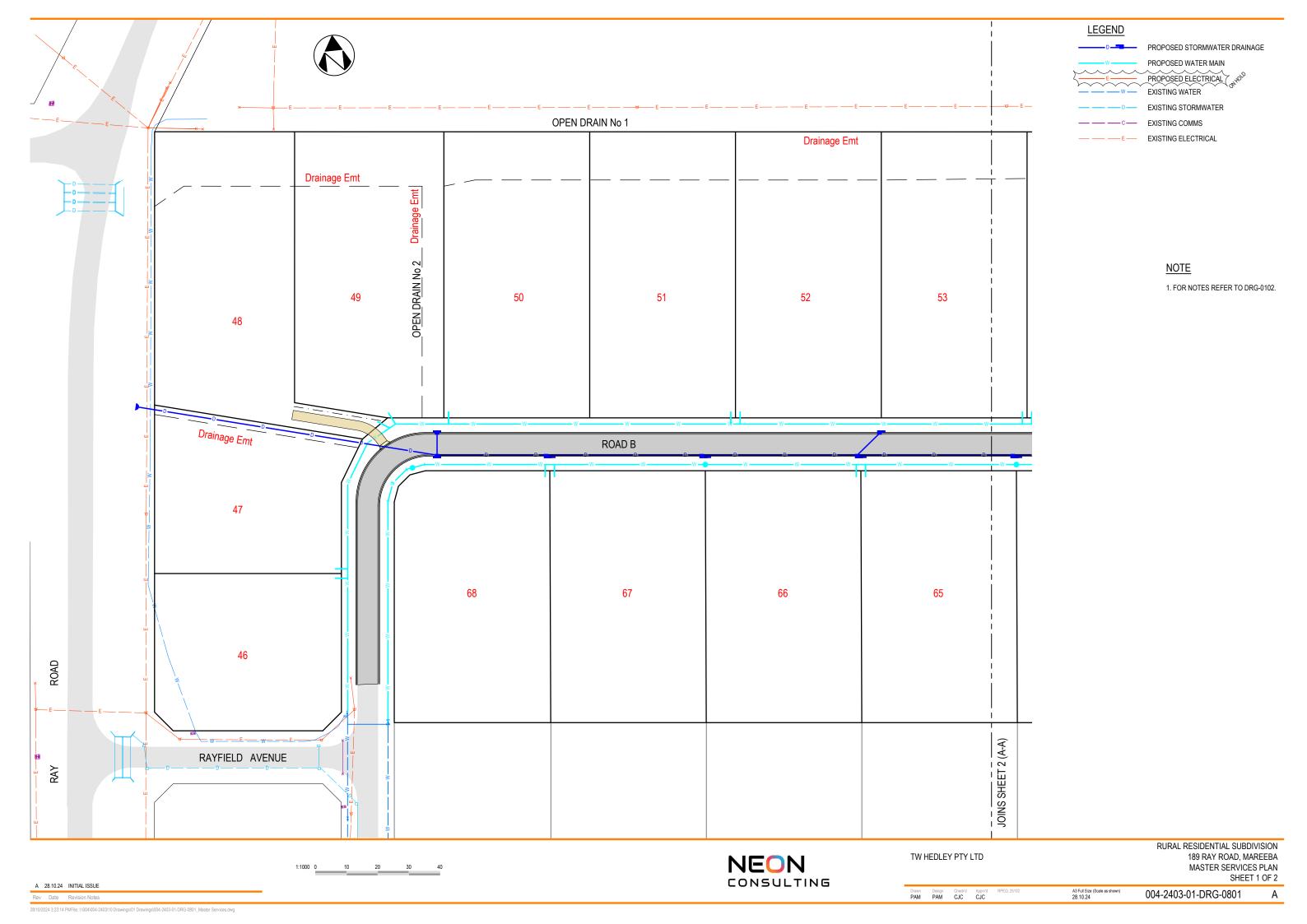
Rev Date Revision Notes

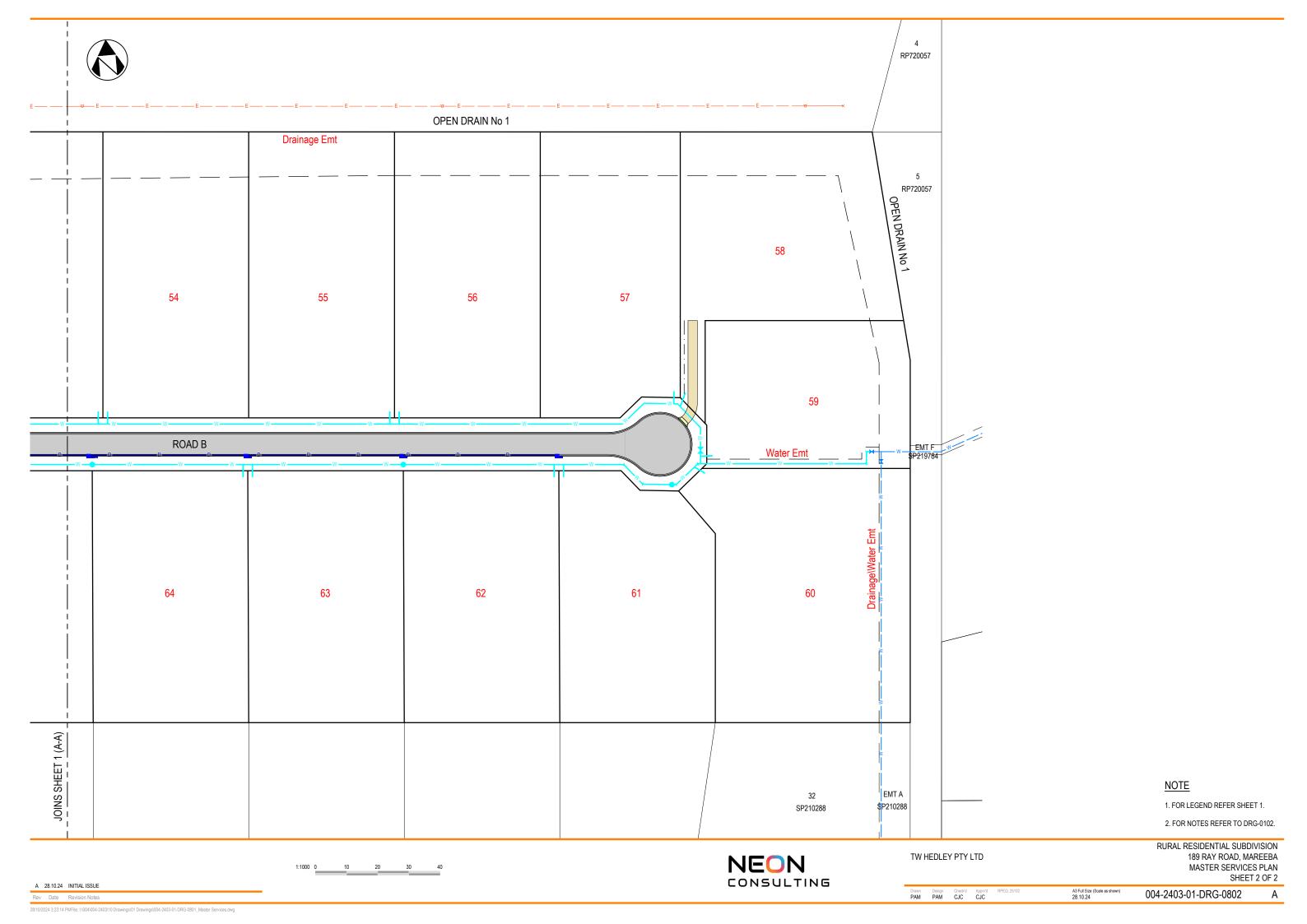


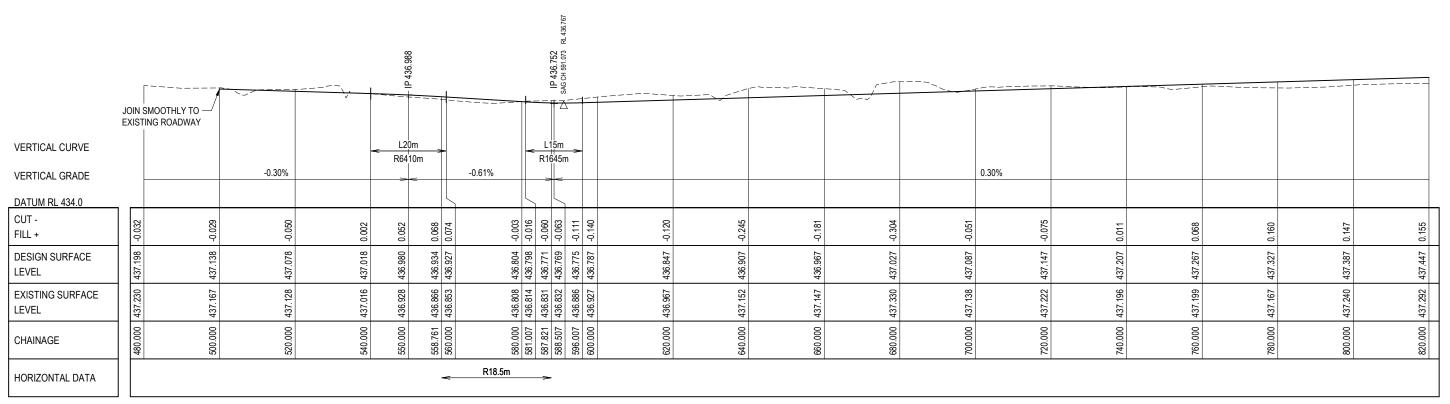






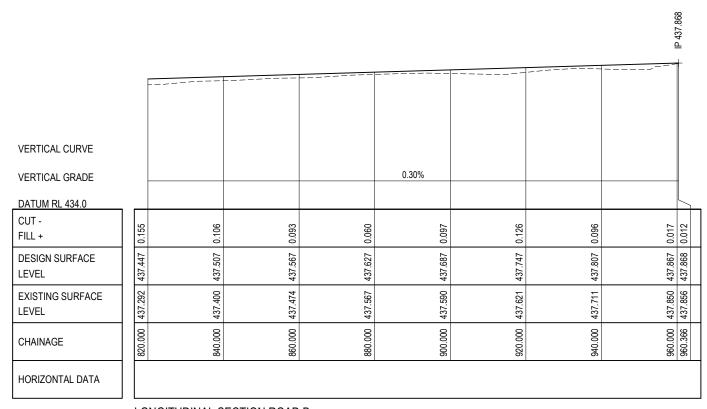






LONGITUDINAL SECTION ROAD B

SCALE 1:1000H 1:100V



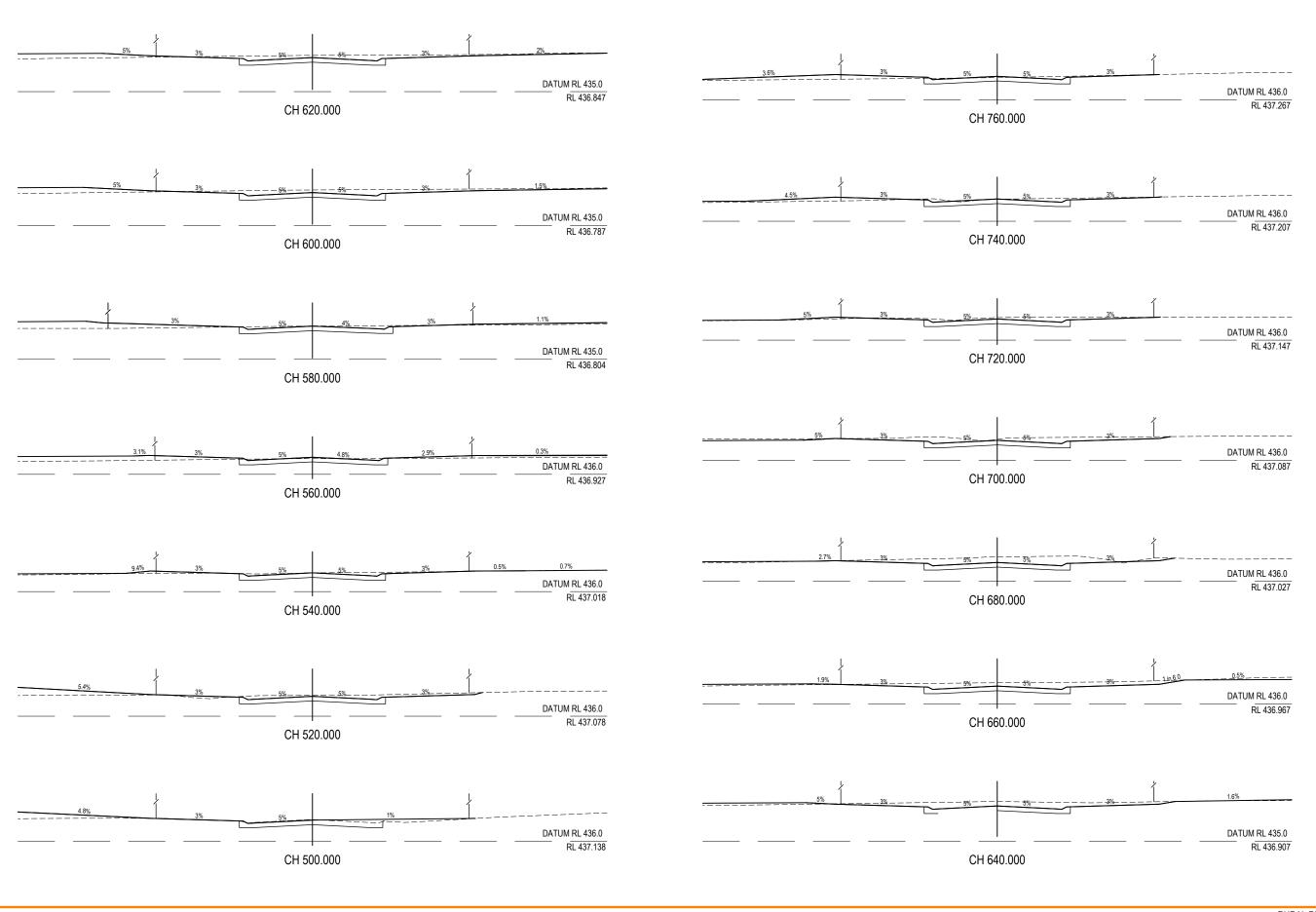
LONGITUDINAL SECTION ROAD B SCALE 1:1000H

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RURAL RESIDENTIAL SUBDIVISION 189 RAY ROAD, MAREEBA ROAD B LONGITUDINAL SECTION

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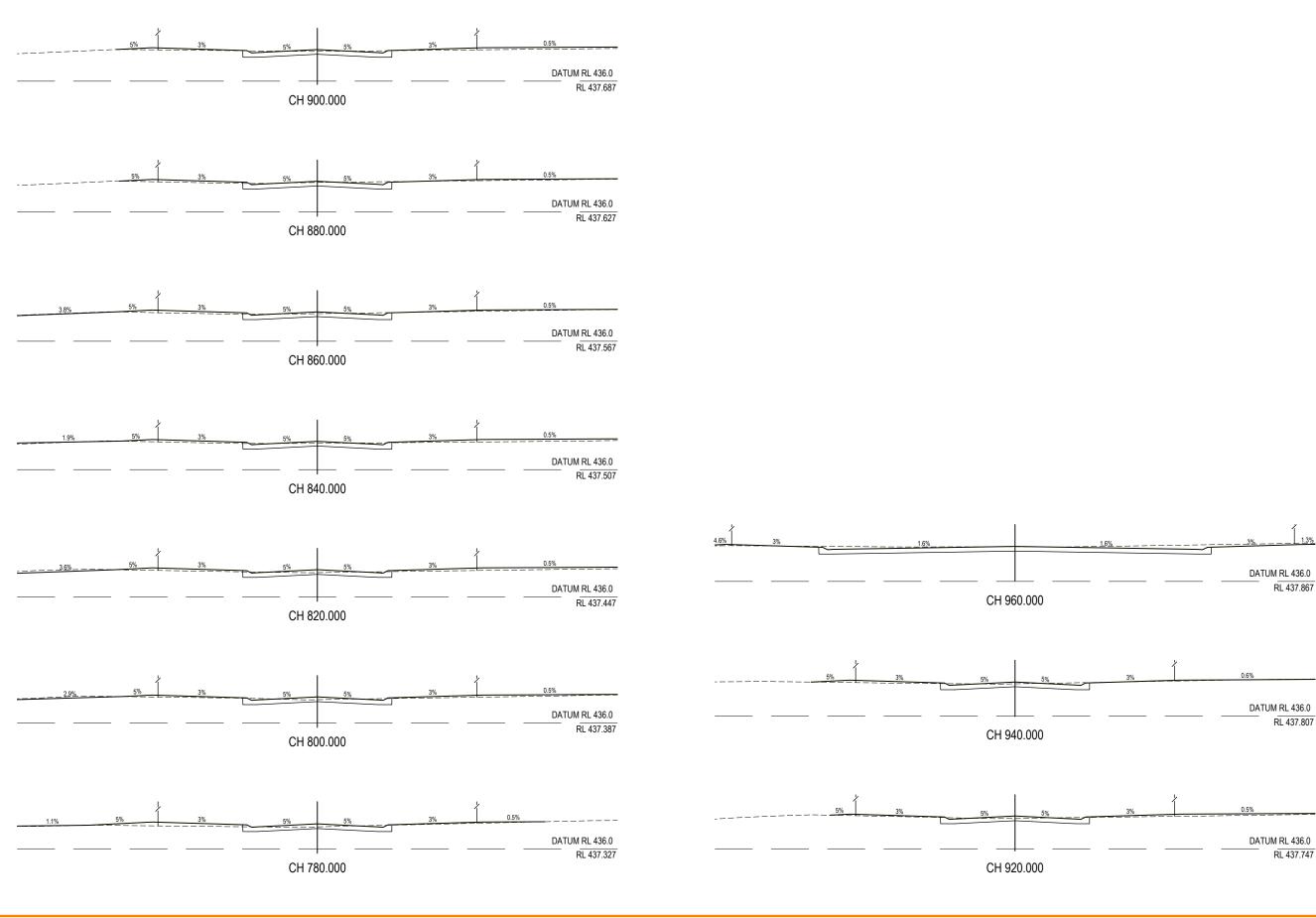


NEON CONSULTING RURAL RESIDENTIAL SUBDIVISION
TW HEDLEY PTY LTD
189 RAY ROAD, MAREEBA
ROAD B CROSS SECTIONS
SHEET 1 OF 2

 Design PAM
 Check'd PAM
 Approvid CUC
 RPEC: 25102
 A3 Full Size (Scale as shown)
 004-2403-01-DRG-0902

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Rev Date Revision Notes



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RURAL RESIDENTIAL SUBDIVISION 189 RAY ROAD, MAREEBA TW HEDLEY PTY LTD ROAD B CROSS SECTIONS SHEET 2 OF 2

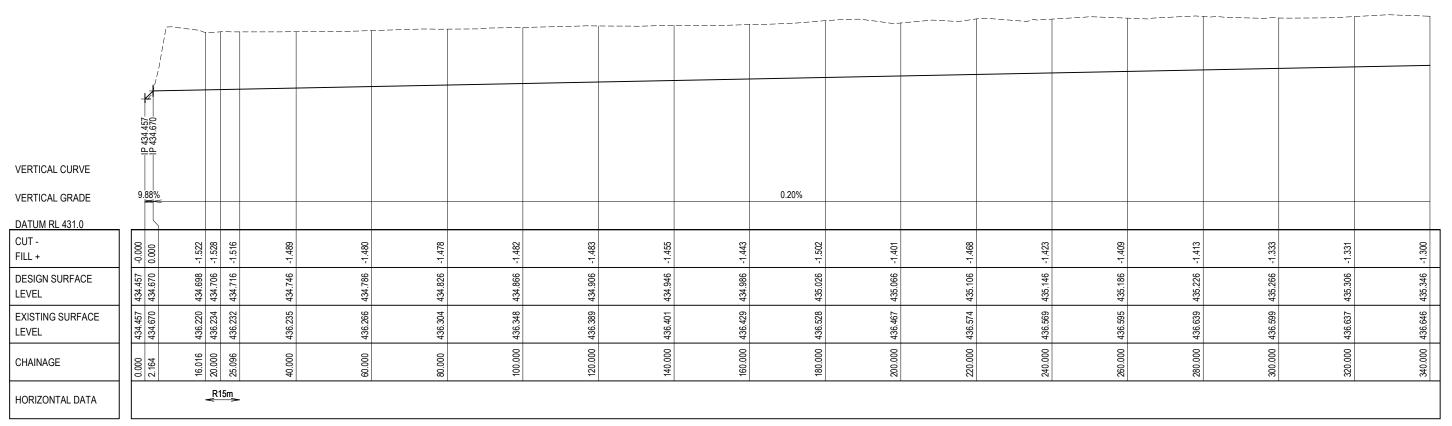
RL 437.867

RL 437.807

RL 437.747

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LONGITUDINAL SECTION OED-1

SCALE 1:1000H 1:100V

VERTICAL CURVE 0.20% VERTICAL GRADE 0.40% 1.37% DATUM RL 432.0 CUT --0.116 FILL + 438.002 435.900 DESIGN SURFACE LEVEL 438.119 437.270 603 EXISTING SURFACE 773 782 LEVEL 000.089 434.434 500.000 580.000 360.000 380.000 480.000 520.000 526.251 640.000 000.099 CHAINAGE R10m _ HORIZONTAL DATA

LONGITUDINAL SECTION OED-1

SCALE 1:1000H

1:100V

1:1000 0 10 20 30 40 1:100 0 1 2 3 4



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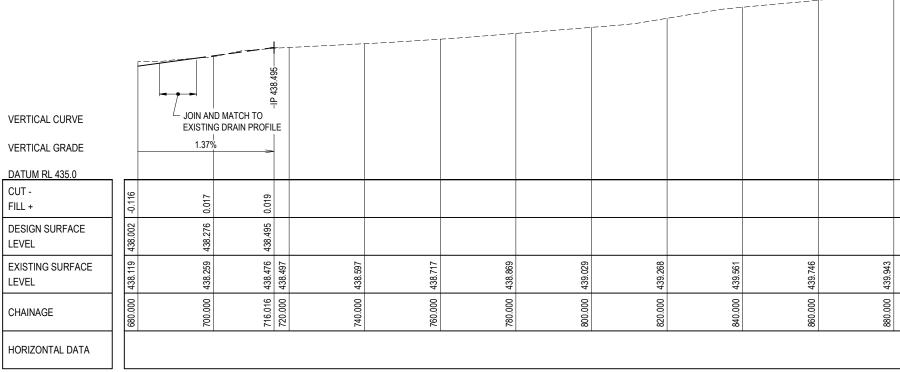
RURAL RESIDENTIAL SUBDIVISION 189 RAY ROAD, MAREEBA OED 1 LONGITUDINAL SECTION SHEET 1 OF 2

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 RPEQ: 25102
 A3 Full Size

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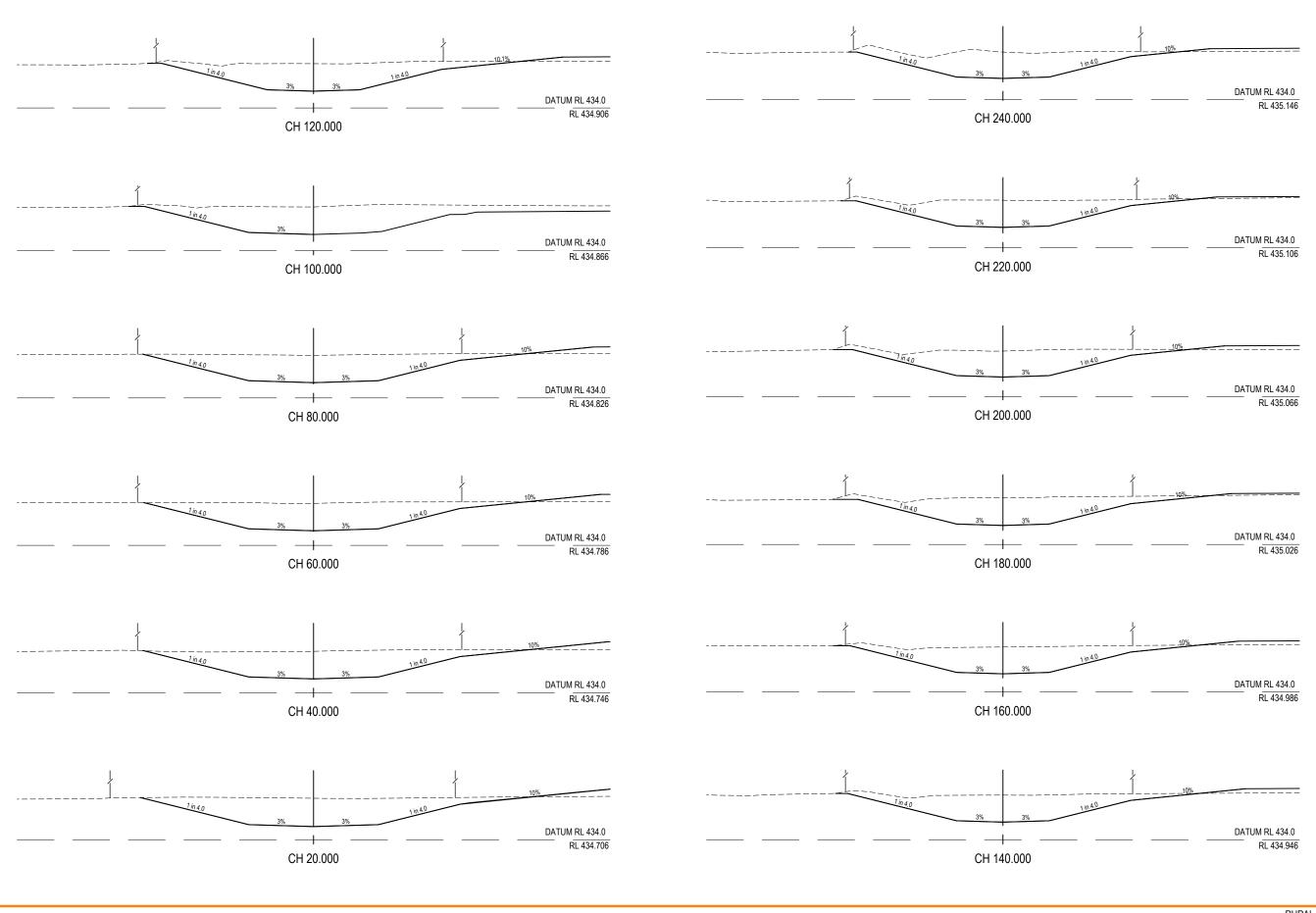
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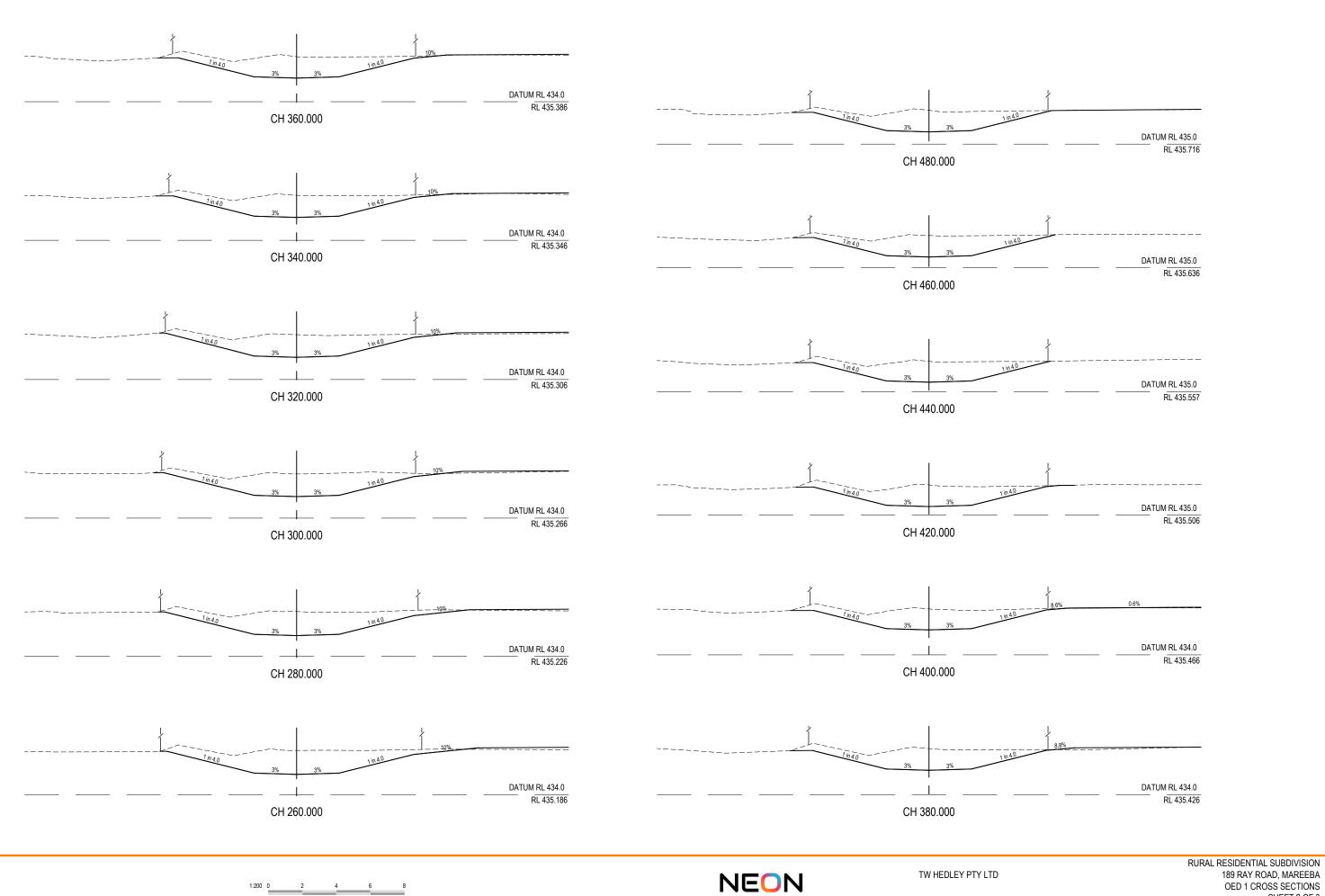
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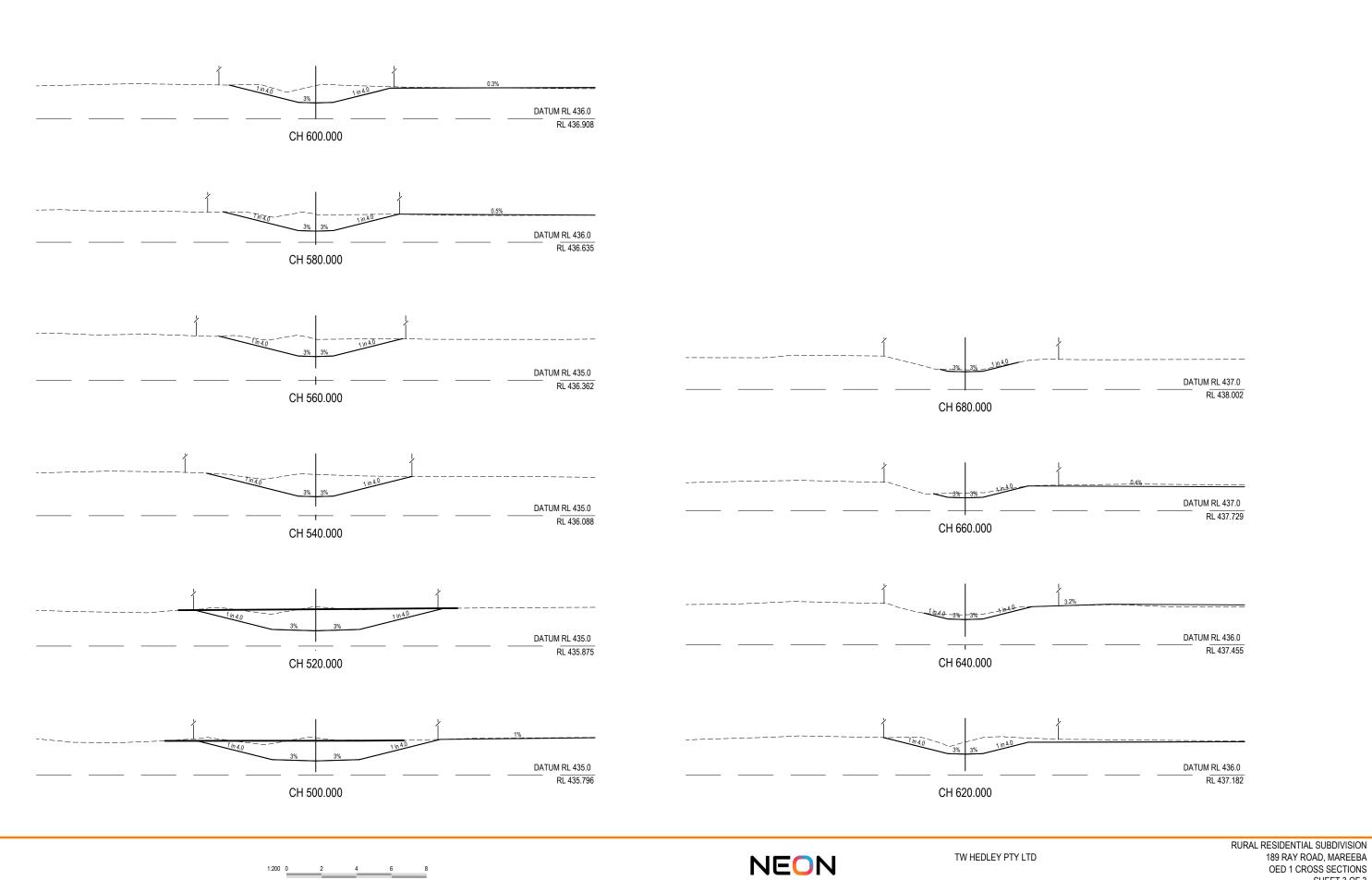
CONSULTING



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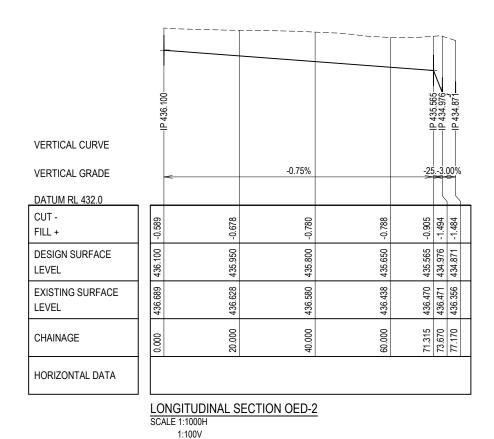
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CONSULTING

OED 1 CROSS SECTIONS SHEET 3 OF 3 004-2403-01-DRG-0908

PAM PAM CJC CJC



0% 107% 70.0 38 3% 10.0 DATUM RL 435.0 CH 40.000

CH 40.000

CH 40.000

CH 40.000

CH 40.000

CH 20.000

DATUM RL 435.0 RL 435.950

CH 20.000

CH 20.000

DATUM RL 435.0 RL 435.950

CH 20.000

2 4 6 8 10 20 30 40 1 2 3 4

NEON CONSULTING RURAL RESIDENTIAL SUBDIVISION
TW HEDLEY PTY LTD 189 RAY ROAD, MAREEBA
OED 1 LONGITUDINAL AND CROSS SECTIONS

PAM PAM CJC CJC

2 A3 Full Size (Scale as shot 28.10.24