APPLICATION FOR PLANNING APPROVAL

Application Number:	DAS-2024-1	0
Proposal:	• ·	mance training centre (basketball) and creating two (2) lots
Subject Site:	'Kingborough Sports Centre', 10 Kingston N Drive, Kingston and adjoining Kingston View E road reserve	
Responsible Planning Officer:	Grace Paisl	еу
Advertised Documents:		
 Application Plans 		Environmental Noise Assessment
 Traffic Impact Assessment 		Tree Plan
 Planning Report 		
 Flood Hazard Report 		Available upon request:
 Bushfire Hazard Assessmer 	nt	 Application Form
		Copy of Title

NOTE: The documents included for advertising (public notice) have been provided by the applicant. The advertising of the documentation does not confirm that Council agrees with, or endorses, the content or assessments.

Representations:

Representations must be provided in writing to Council stating the reasons why you support or object to the application. Representations for this application must be submitted by 11.59pm on **3 December 2024**; and can be delivered in person to the Civic Centre, posted to Locked Bag 1, Kingston 7050 or emailed to kc@kingborough.tas.gov.au.





TASMANIA JACKJUMPERS HIGH PERFORMANCE TRAINING CENTRE DEPARTMENT OF STATE GROWTH

ARCHI	TECTURAL
A00	COVER PAGE
A01	SITE LOCATION PLAN
A10	SITE PLAN & DEMOLITION WORKS
A20	SITE FLOOR PLAN
A21	FLOOR PLAN PART 1
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A51	SUN SHADING DIAGRAMS - WINTER SOLSTICE
A52	SUN SHADING DIAGRAMS - SUMMER SOLSTICE
A53	SUN SHADING DIAGRAMS - EQUINOX

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Kingborough Council Development Application: DAS-2024-10 Plan Reference No: P4 Date Received: 12/11/2024 Date placed on Public Exhibition: 20/11/2024



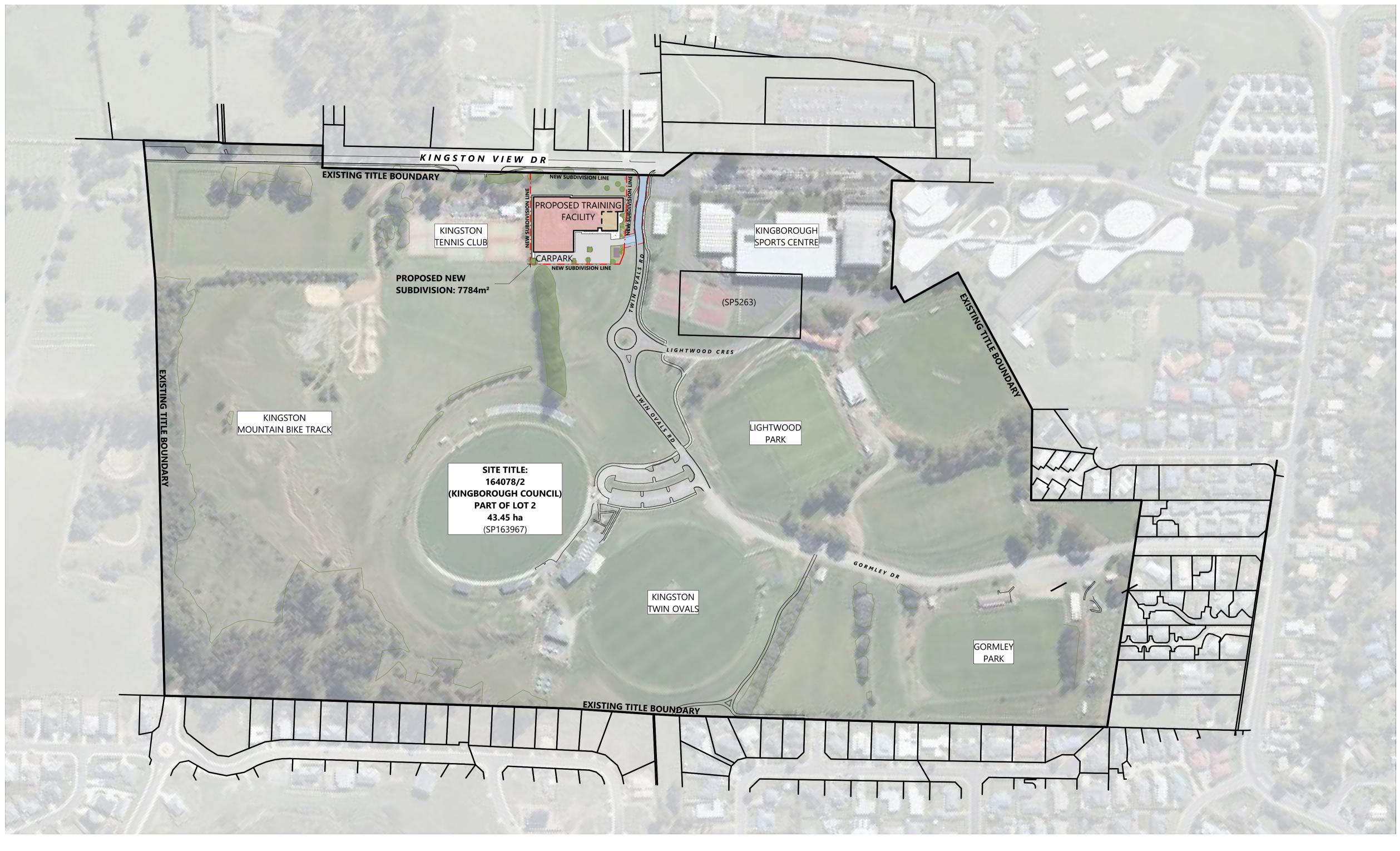
Launceston Hobart www.artas.com.au

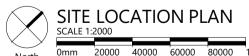




A00-DA02

tender date: TBC PROJECT NUMBER: 244002 DRAWING ISSUE APPROVAL





TASMANIA JACKJUMPERS HIGH PERFORMANCE TRAINING CENTRE

DEPARTMENT OF STATE GROWTH

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SITE LOCATION WORKS LEGEND

EXISTING TITLE BOUNDARY ------ NEW SUBDIVISION LINE

NEW RIGHT OF WAY AREA: 689m²

PROPOSED NEW TRAINING FACILITY FLOOR AREA: 3365m² (STAGE 1)

FLOOR AREA: 273m² **_____ ____** (STAGE 2)

> NEW CARPARK AREA (40 SPACES) AREA: 1500m² (STAGE 1)

NEW SUBSTATION EASEMENT ZONE AREA: 55m² (STAGE 1)

NEW CONCRETE PATHWAY AREA: 452m² (STAGE 1)

PROPOSED TREE

EXISTING TREE TO RETAIN & PROTECT



Kingborough Council Development Application: DAS-2024-10 Plan Reference No: P4

Date Received: 12/11/2024 Date placed on Public Exhibition: 20/11/2024

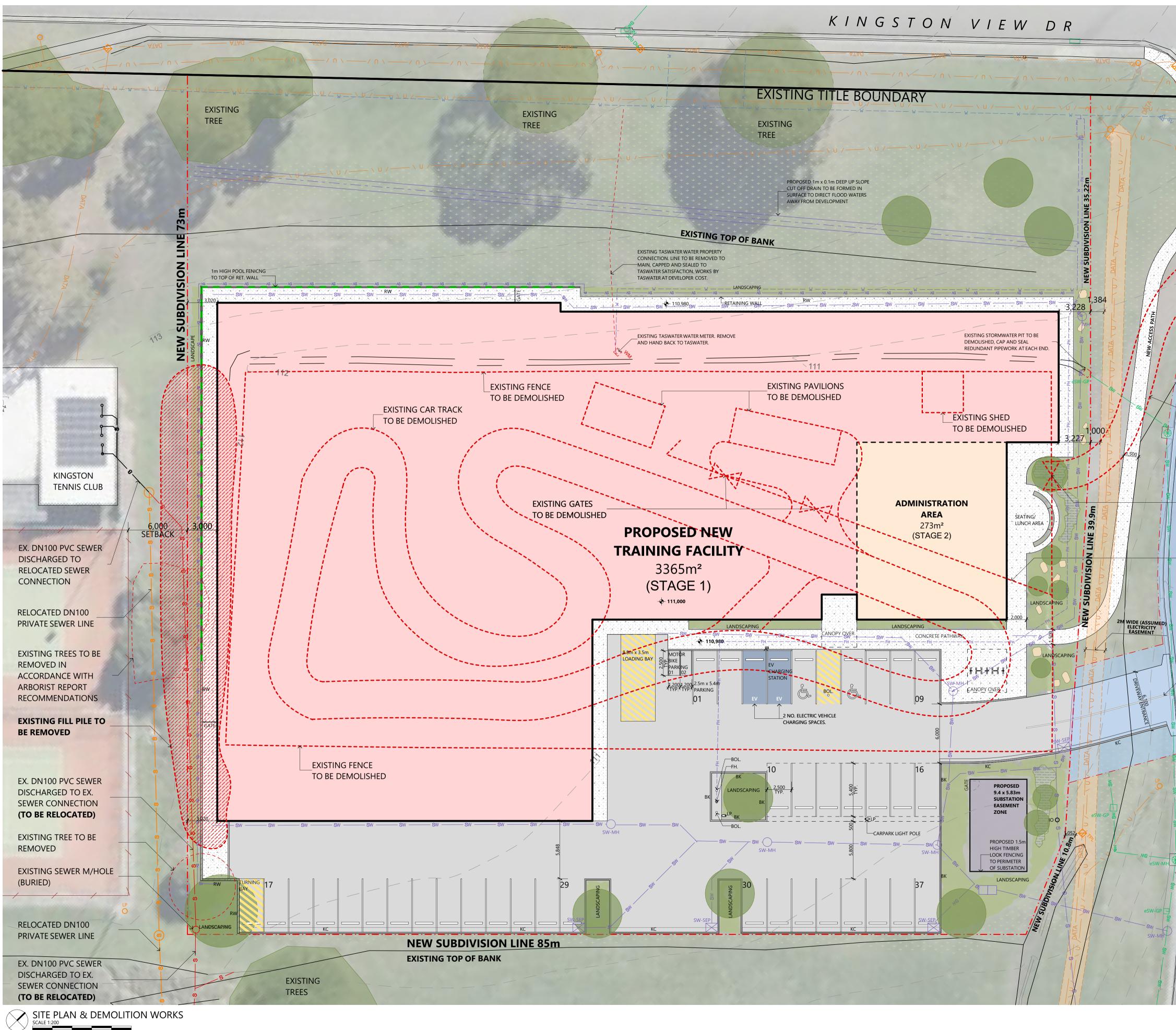


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TASMANIA JACKJUMPERS HIGH PERFORMANCE TRAINING CENTRE DEPARTMENT OF STATE GROWTH



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DA02	033	ISSUED FOR DEVELOPMENT APPLICATION	11/11/2024	CL	TC
DA03	035	ISSUED FOR DEVELOPMENT APPLICATION	18/11/2024	CL	TC
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SITE & SERVICES LEGEND

	RVICES DRAWINGS FOR DETAILS) EXISTING TITLE BOUNDARY
	NEW SUBDIVISION LINE TBC
	NEW RIGHT OF WAY AREA: 689m²
2000000	EXISTING ELECTRICITY INFRASTRUCTURE EASEMENT 2m WIDE (APPROX.)
— \ U /	EXISTING UNDERGROUND ELECTRICITY LINE
— DATA	EXISTING TELECOMMUNICATION LINE
O LP	EXISTING ELECTRIC LIGHT POLE
— s	EXISTING SEWER LINE
— s	EXISTING SEWER LINE TO BE RELOCATED
— SW	EXISTING STORMWATER LINE
eSW-MH	EXISTING STORMWATER MANHOLE
eSW-GP	EXISTING STORMWATER GRATED PIT
	EXISTING WATER LINE
<u></u> ≲v	EXISTING WATER STOP VALVE
	EXISTING TREE COVERAGE OUTLINE
	EXISTING TREE COVERAGE OUTLINE (APPROX.)
//	EXISTING FENCE LINE
<u> </u>	RELOCATED SEWER LINE
— s ——	PROPOSED SEWER LINE
— SW —	PROPOSED STORMWATER LINE
SW-SEP	PROPOSED STORMWATER SIDE ENTRY PIT
— - W - — –	PROPOSED WATER LINE
— FH — -	PROPOSED FIRE HYDRANT LINE
○ FH	PROPOSED FIRE HYDRANT
— AG —	PROPOSED AG DRAIN
€ LP	PROPOSED LIGHT POLE
	EXTENT OF NEW BITUMEN CARPARK AND DRIVEWAY
	NEW SUBSTATION EASEMENT ZONE AREA: 55m² (STAGE 1)
	EXTENT OF NEW CONCRETE PATHWAYS
	EXTENT OF 1m HIGH POOL FENCING ON TOP OF RETAINING WALLS
	KS LEGEND AWINGS FOR DETAILS)

(REFER TO CIVIL DRA	AWINGS FOR DETAILS)
КС	PROPOSED KERB AND CHANNEL
вк	PROPOSED BARRIER KERB
RW	PROPOSED RETAINING WALL
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CAPING LEGEND NDSCAPE DRAWINGS FOR DETAILS)

+ + +	SEEDED GRASS - MAKE GOOD				
	PROPOSED GARDEN BED - 300MM TOP SO				
	PROPOSED SHRUBS TO LESS THAN1.2M				
	EXISTING TREE TO RETAIN & PROTECT				
	PROPOSED TREE				
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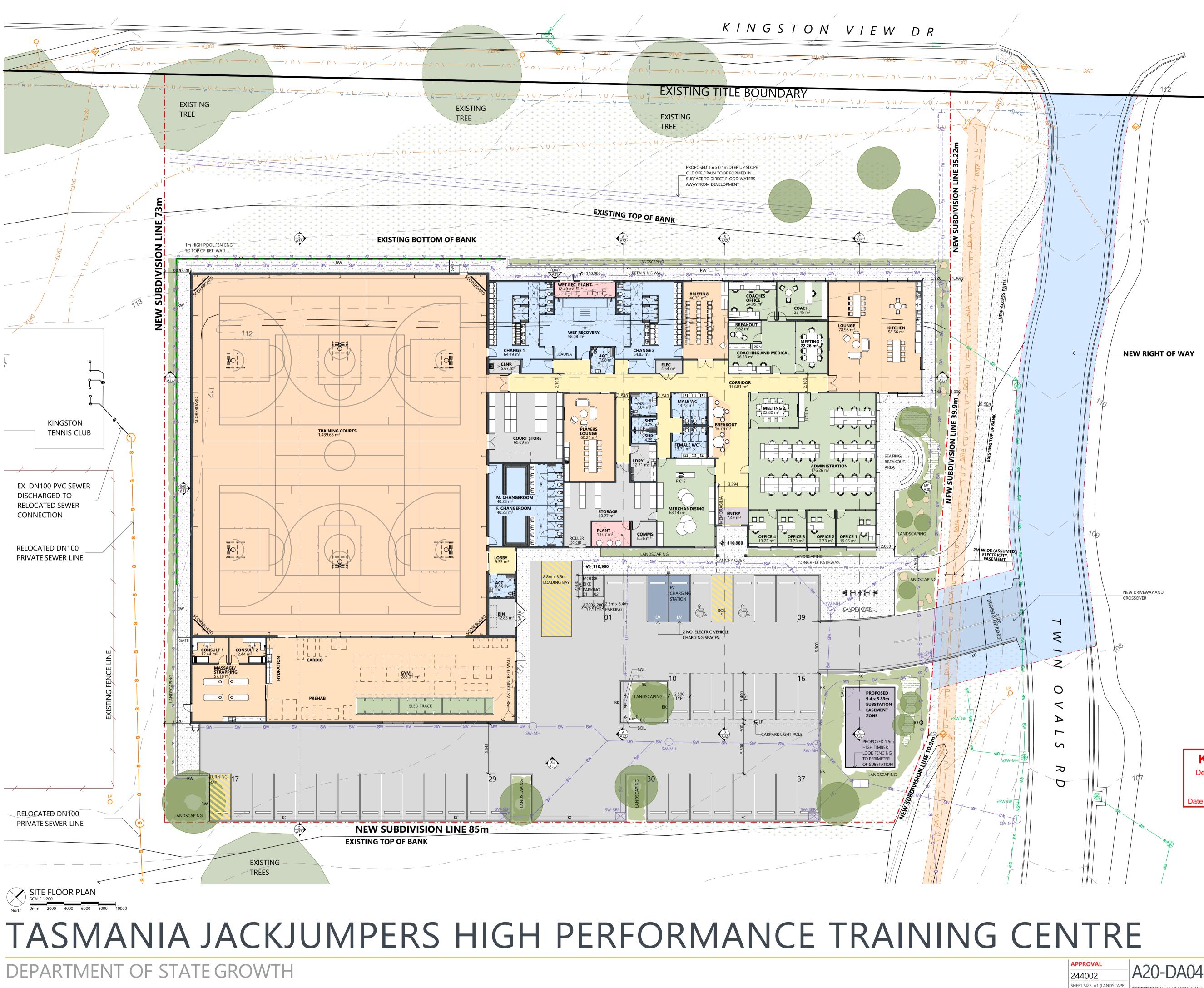
NEW DRIVEWAY AND CROSSOVER

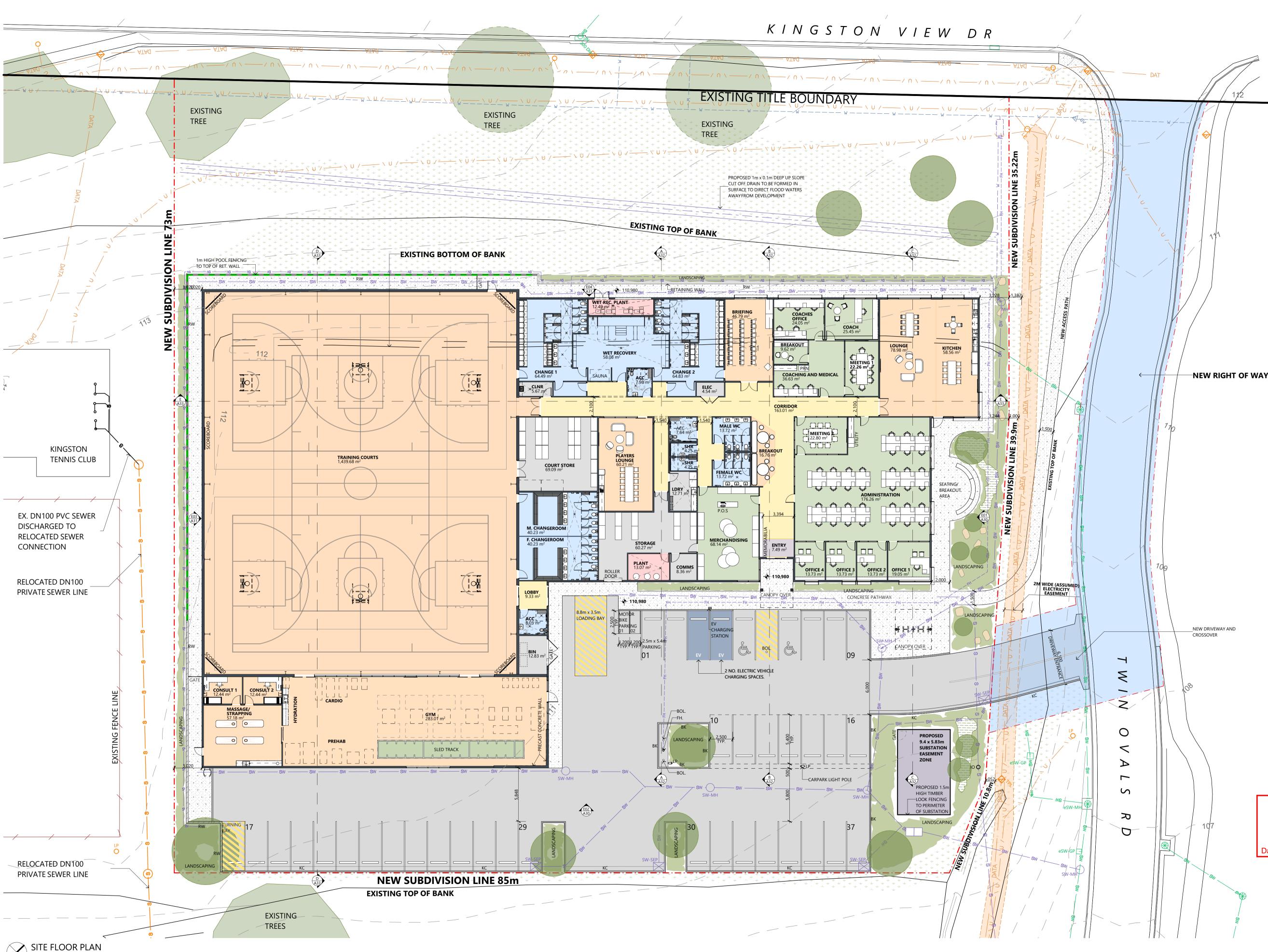
TO BE REMOVED

EXISTING GRAVEL DRIVEWAY

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SITE & SERVICES LEGEND

(REFER TO CIVIL SERVICES DRAWINGS FOR DETAILS

(REFER TO CIVIL SEF	VICES DRAWINGS FOR DETRIES)
	EXISTING TITLE BOUNDARY
<u> </u>	NEW SUBDIVISION LINE TBC
	NEW RIGHT OF WAY AREA: 689m²
	EXISTING ELECTRICITY INFRASTRUCTURE EASEMENT 2m WIDE (APPROX.)
— \ U /	EXISTING UNDERGROUND ELECTRICITY LINE
— DATA	EXISTING TELECOMMUNICATION LINE
O LP	EXISTING ELECTRIC LIGHT POLE
—s	EXISTING SEWER LINE
—— s	EXISTING SEWER LINE TO BE RELOCATED
SW	EXISTING STORMWATER LINE
eSW-MH	EXISTING STORMWATER MANHOLE
eSW-GP	EXISTING STORMWATER GRATED PIT
W	EXISTING WATER LINE
<u></u> ≲v	EXISTING WATER STOP VALVE
	EXISTING TREE COVERAGE OUTLINE
	EXISTING TREE COVERAGE OUTLINE (APPROX.)
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— S —	RELOCATED SEWER LINE
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W	PROPOSED WATER LINE
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○ FH	PROPOSED FIRE HYDRANT
——————————————————————————————————————	PROPOSED AG DRAIN
E LP	PROPOSED LIGHT POLE
	EXTENT OF NEW BITUMEN CARPARK AND DRIVEWAY
	NEW SUBSTATION EASEMENT ZONE AREA: 55m² (STAGE 1)
	EXTENT OF NEW CONCRETE PATHWAYS
	EXTENT OF 1m HIGH POOL FENCING ON TOP OF RETAINING WALLS
	KS LEGEND AWINGS FOR DETAILS)
КС	PROPOSED KERB AND CHANNEL

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КС	PROPOSED KERB AND CHANNEL
ВК	PROPOSED BARRIER KERB
RW	PROPOSED RETAINING WALL
Ю	PROPOSED INSPECTION OPENING
BOL.	PROPOSED BOLLARD

LANDSCAPING LEGEND REFER TO LANDSCAPE DRAWINGS FOR DETAILS

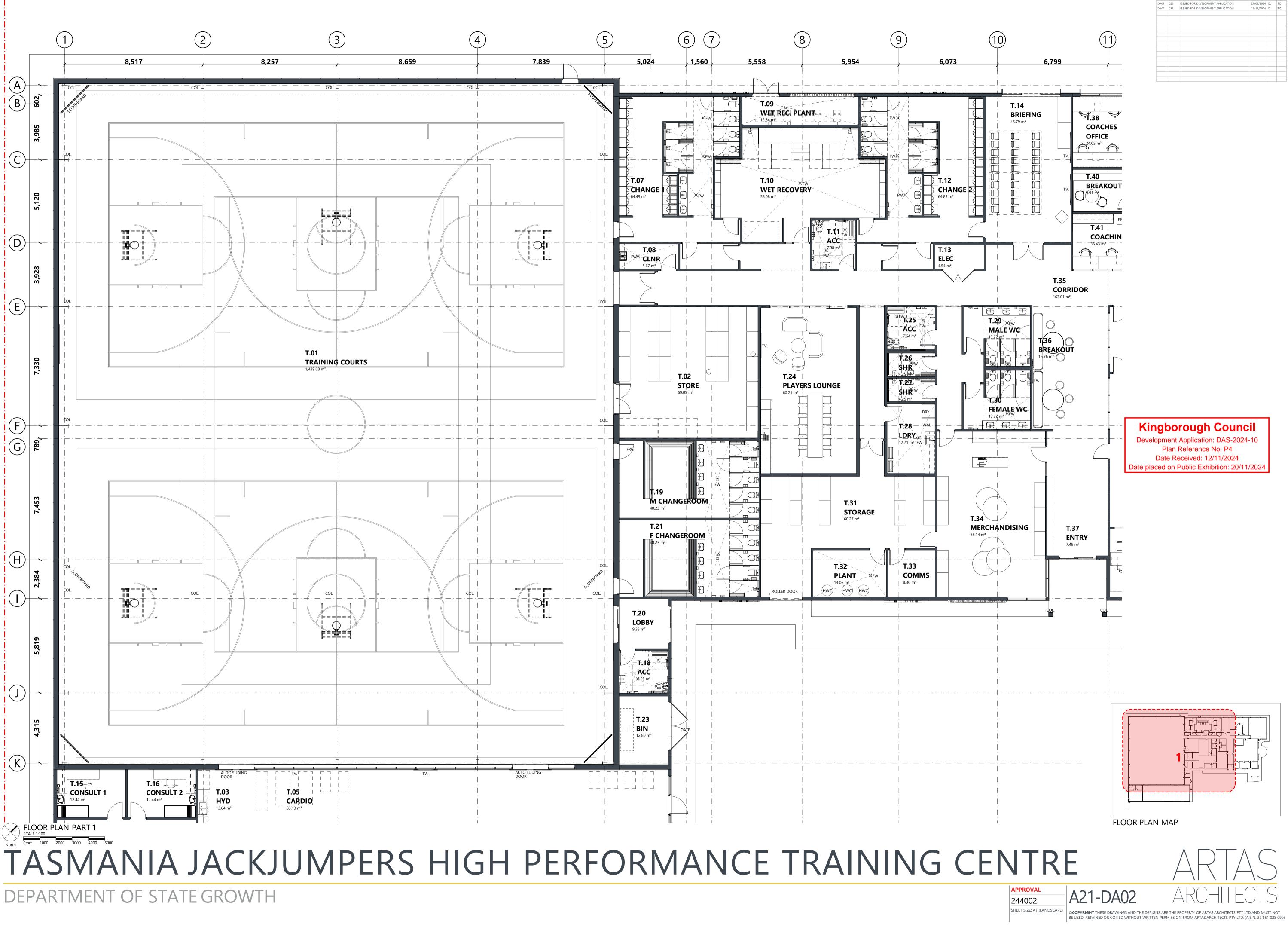
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	PROPOSED GARDEN BED - 300MM TOP SC
	PROPOSED SHRUBS TO LESS THAN1.2M
	EXISTING TREE TO RETAIN & PROTECT
	PROPOSED TREE
	PROPOSED ROCK

Kingborough Council

Development Application: DAS-2024-10 Plan Reference No: P6 Date Received: 19/11/2024 Date placed on Public Exhibition: 20/11/2024



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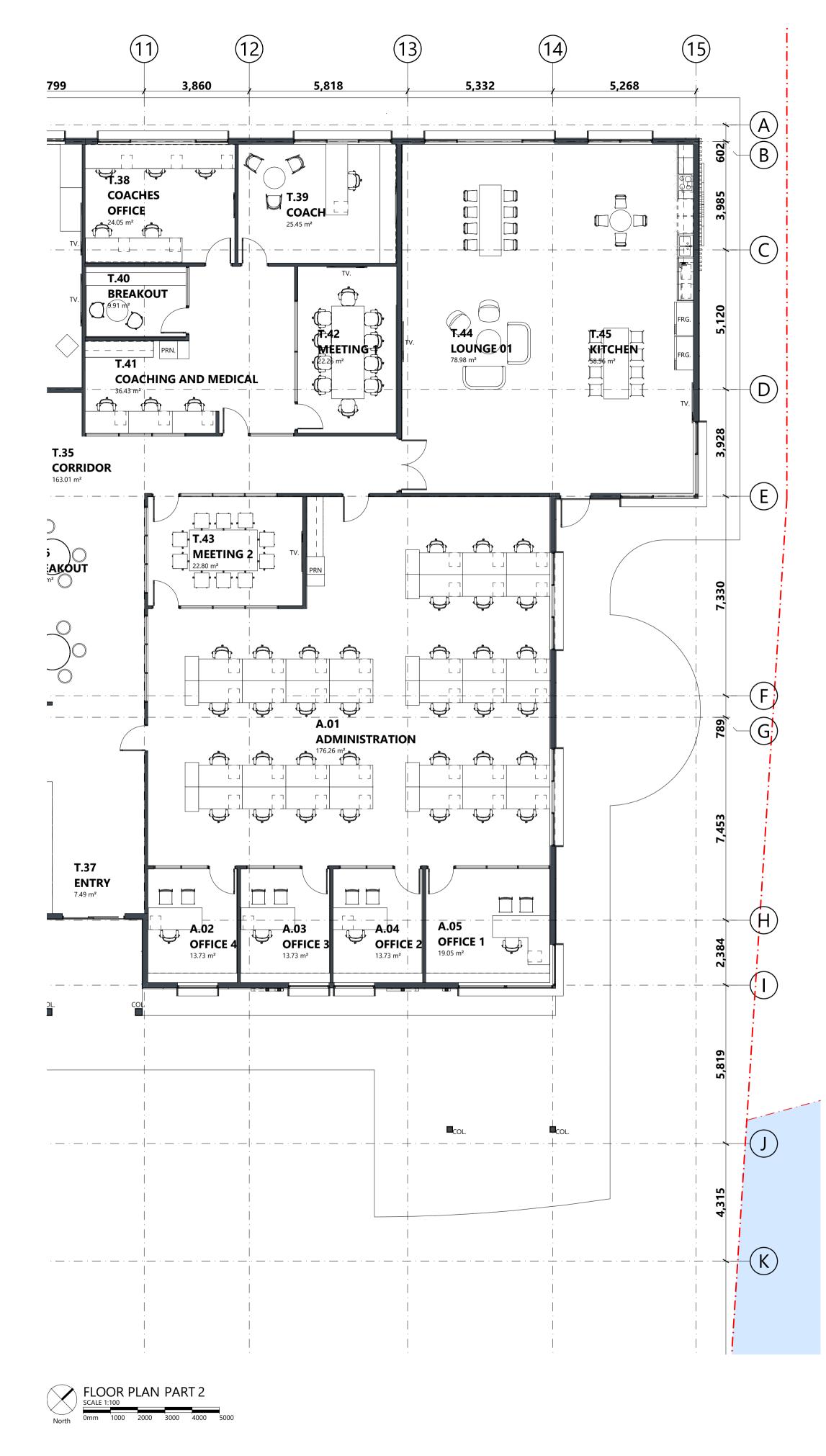


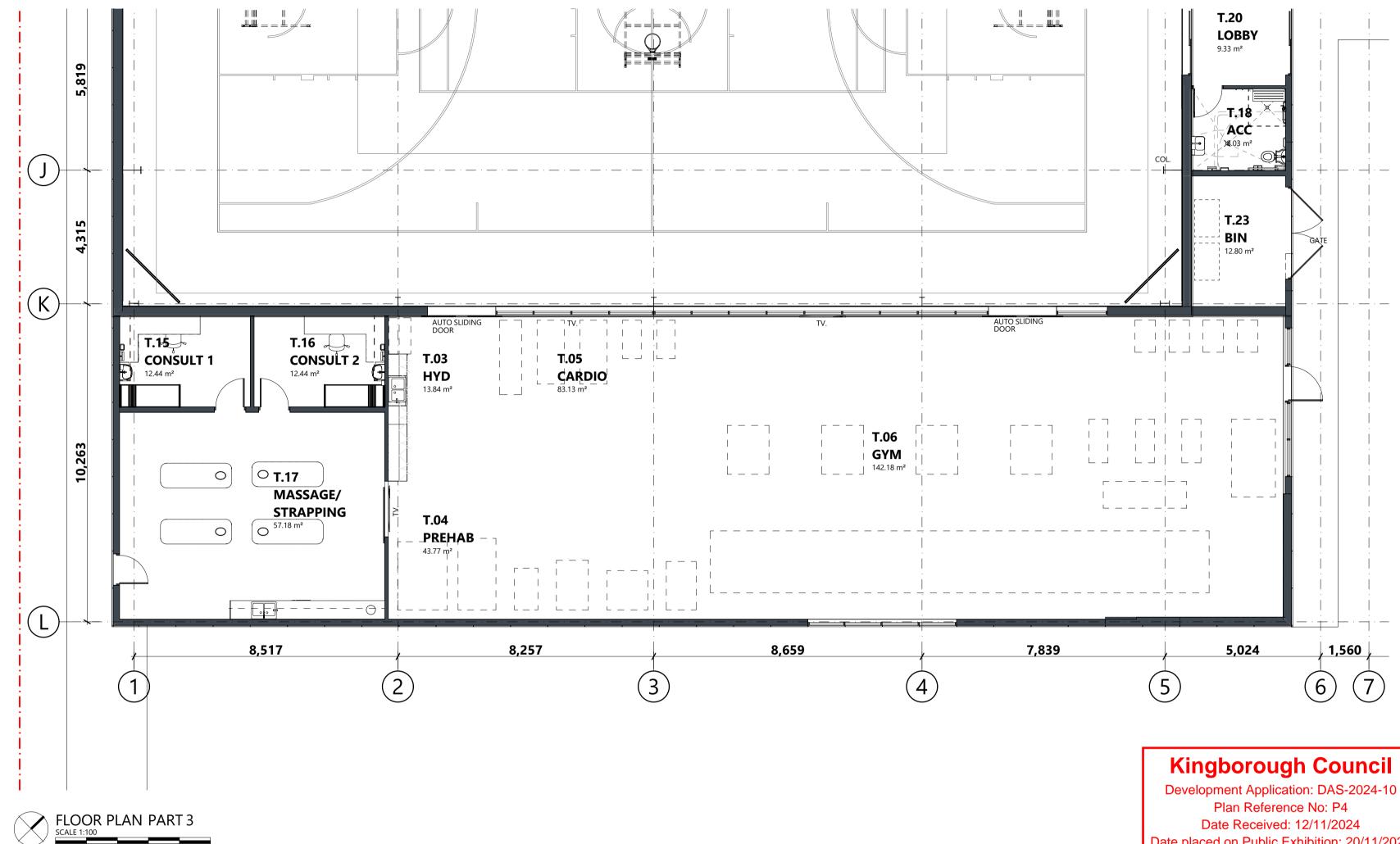
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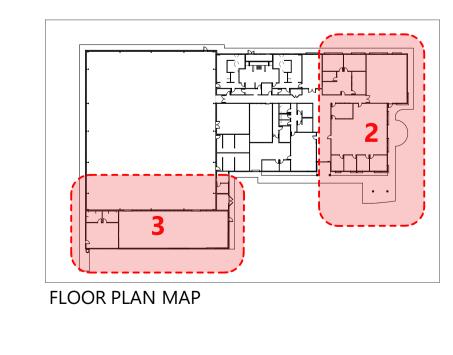
TASMANIA JACKJUMPERS HIGH PERFORMANCE TRAINING CENTRE DEPARTMENT OF STATE GROWTH





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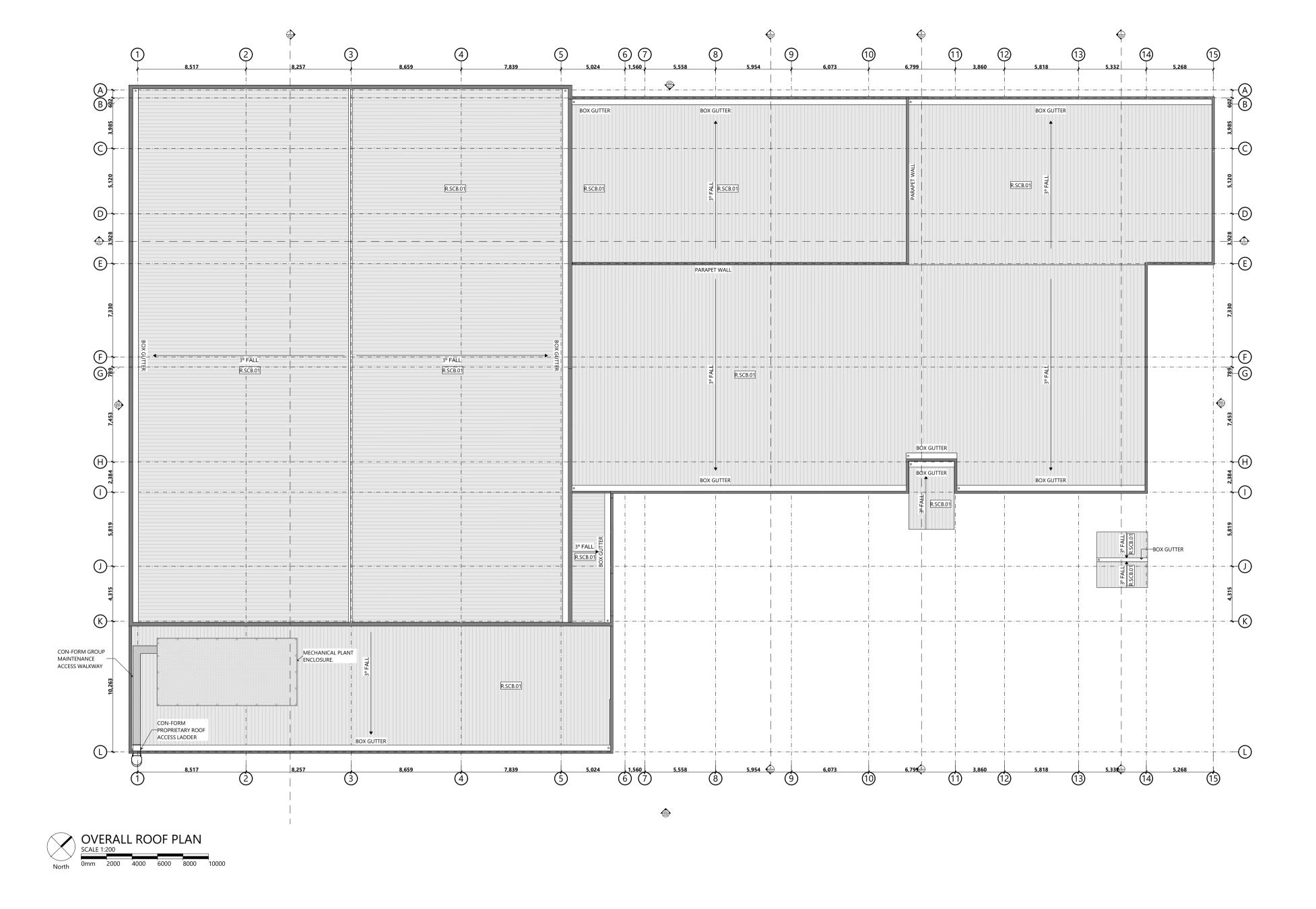
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APPROVAL

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TASMANIA JACKJUMPERS HIGH PERFORMANCE TRAINING CENTRE

DEPARTMENT OF STATE GROWTH

Document Set ID: 4539582 Version: 2, Version Date: 12/11/2024

ROOF TYPE 2D PLAN VIEW ITEM DESCRIPTION MANUFACTUR R.SCB.01 ROOF SHEETING

ROO	F SHEETING LEGEND	
RER	ROOF SPECIFICATION	FINISH
	STRAMIT 0.48BMT SPEED DECK 300 ROOF SHEETING. ROOF TO FALL ON PITCH & DIRECTION AS SHOWN. ALL SHEETS SHALL BE INSTALLED & FLASHED TO MANUFACTURERS SPECIFICATIONS.	ROOF COLORBOND SHALE GREY

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DA01	023	ISSUED FOR DEVELOPMENT APPLICATION	27/09/2024		TC
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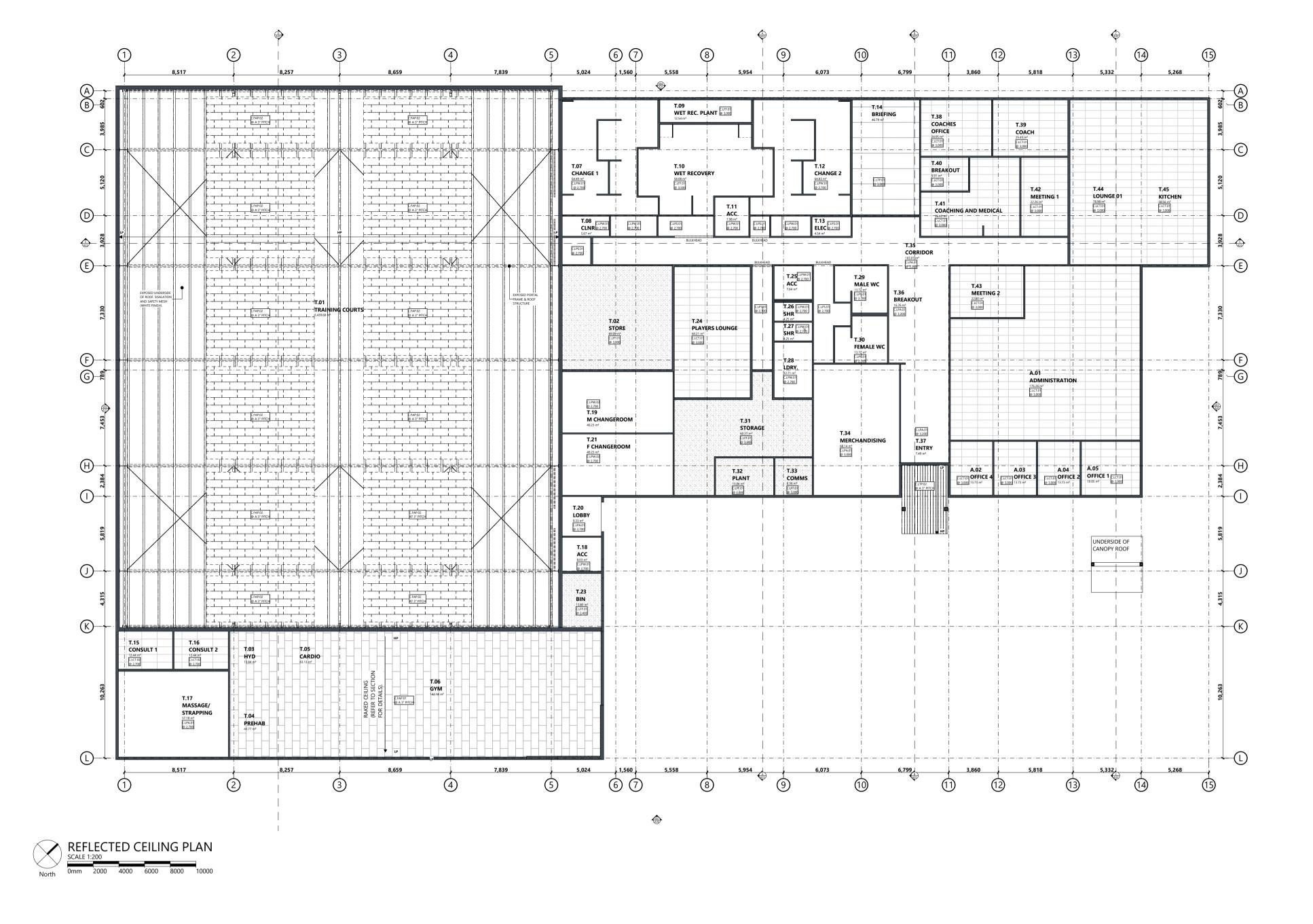
Development Application: DAS-2024-10 Plan Reference No: P4 Date Received: 12/11/2024 placed on Public Exhibition: 20/11/2024



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TASMANIA JACKJUMPERS HIGH PERFORMANCE TRAINING CENTRE

DEPARTMENT OF STATE GROWTH

			REFLECTED	CEILING PLAN LEGEND	1	RevID	ChID	R E V I S I O Description	Date Int.	Ar
CEILING TYPE	2D PLAN VIEW	ITEM DESCRIPTION	MANUFACTURER	SPECIFICATION	FINISH	DA02		ISSUED FOR DEVELOPMENT APPLICATION	11/11/2024 CL	
			ТВС		COLOUR PRESET Light Gray					
C.FAP.01		ACOUSTIC PANEL	HIMMEL	1200x600mm - 25mm RAKED TROLDTEK PANELS ULTRAFINE K11 WITH 11MM BEVEL	FINISHES ACOUSTIC CEILING PANEL - TROLDTEKT BLACK 207					+
C.FAP.02		ACOUSTIC PANEL	HIMMEL	1200x600MM - 25mm RAKED TROLDTEKT PANELS ULTRAFINE K11 WITH 11mm BEVEL	FINISHES] ACOUSTIC CEILING PANEL - TROLDTEKT NATURAL WOOD					
C.LCT.01		ACOUSTIC CEILING TILE	KNAUF	1200x600MM – 19mm KNAUF MARS CLIMAPLUS ACOUSTIC CEILING TILES OR APPROVED EQUAL ON T-BAR GRID SUSPENSION SYSTEM AS REQUIRED. TILES COME PREFINISHED	CEILING KNAUF PREFINISHED ACOUSTIC CEILING TILE					
C.LCT.02		ANTIMICROBIAL CEILING TILE	ARMSTRONG	1200x600MM – 19mm ARMSTRONG BIOGUARD ANTIMICROBIAL ACOUSTIC CEILING TILES OR APPROVED EQUAL ON T-BAR GRID SUSPENSION SYSTEM AS REQUIRED. CEILING TILES ARE PREFINISHED.	CEILING ARMSTRONG PREFINISHED ANTIMICROBIAL ACOUSTIC TILE					
C.LFF.01		VILLABOARD CEILING	JAMES HARDIE	6mm FLUSH JOINTED VILLABOARD CEILING LINING ON SUSPENSION SYSTEM AS REQUIRED. PAINT FINISH IN DULUX WASH AND WEAR OR WATTYL / HAYMES EQUIVALENT. LOW SHEEN *DULUX OR EQUIVALENT WASH AND WEAR KITCHENS AND BATHROOMS IN WET AREAS	F.PWG.01 DULUX WHITE VERDICT HALF					
C.LPA.01		ACOUSTIC PLASTERBOARD	ТВС	10mm ACOUSTIC PLASTERBOARD CEILING LINING ON SUSPENSION SYSTEM AS REQUIRED. PAINT FINISH IN DULUX WASH AND WEAR OR WATTYL / HAYMES EQUIVALENT. LOW SHEEN *DULUX OR EQUIVALENT WASH AND WEAR KITCHENS AND BATHROOMS IN WET AREAS	F.PWG.01 DULUX WHITE VERDICT HALF					
C.LPS.01		PLASTERBOARD CEILING	ТВС	10mm STANDARD PLASTERBOARD CEILING LINING ON SUSPENSION SYSTEM AS REQUIRED. PAINT FINISH IN DULUX WASH AND WEAR OR WATTYL / HAYMES EQUIVALENT. LOW SHEEN *DULUX OR EQUIVALENT WASH AND WEAR KITCHENS AND BATHROOMS IN WET AREAS	F.PWG.01 DULUX WHITE VERDICT HALF					
C.LPW.01		WET AREA PLASTERBOARD CEILING	ТВС	10mm STANDARD WET AREA PLASTERBOARD CEILING LINING ON SUSPENSION SYSTEM AS REQUIRED. PAINT FINISH IN DULUX WASH AND WEAR OR WATTYL / HAYMES EQUIVALENT. LOW SHEEN *DULUX OR EQUIVALENT WASH AND WEAR KITCHENS AND BATHROOMS IN WET AREAS	F.PWG.01 DULUX WHITE VERDICT HALF					
C.LPW.02		WET AREA PLASTERBOARD CEILING	ТВС	10mm Standard wet area plasterboard ceiling lining on Suspension System as required. Paint finish in dulux Wash and Wear or Wattyl / Haymes equivalent. Low Sheen *Dulux or equivalent wash and wear kitchens AND Bathrooms in wet areas	F.PWG.01 DULUX WHITE VERDICT HALF					
C.LTP.01		PLYWOOD PANELS	MATILDA VENEER	MATILDA VENEER FIREPLY X 2400 X 1200mm PERFORATED PLYWOOD PANELS WITH BUTT JOINTS. TASMANIAN OAK PRE- FINISHED PANELS.	CEILING LINING TASMANIAN OAK FIREPLY PLYWOOD					
C.LTP.02		SOFFIT LINING	STRUCTUUR	200mm STRUCTUUR INTERLOCKING PANELS IN UNICOTE ASHWOOD FINISH.						

Kingborough Council

Development Application: DAS-2024-10 Plan Reference No: P4 Date Received: 12/11/2024 Date placed on Public Exhibition: 20/11/2024



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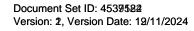
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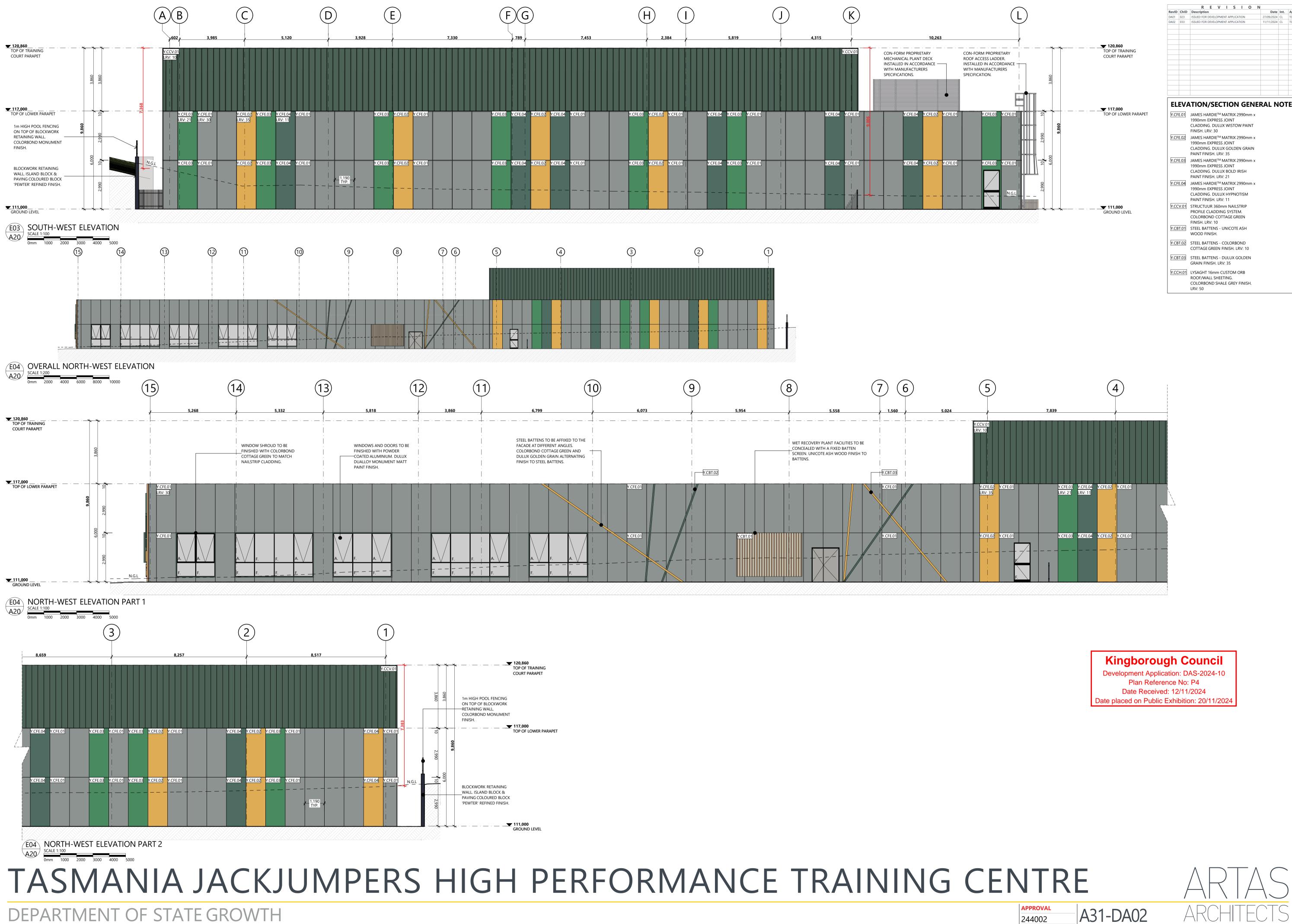
Kingborough Council Development Application: DAS-2024-10

Date placed on Public Exhibition: 20/11/2024

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EL	EVA	TION/SECTION GENER	RAL N	01	ES
Y.CF	E.01	JAMES HARDIE [™] MATRIX 2990mm x 1990mm EXPRESS JOINT CLADDING. DULUX WISTOW PAINT FINISH. LRV: 30			
Y.CF	E.02	JAMES HARDIE [™] MATRIX 2990mm x 1990mm EXPRESS JOINT CLADDING. DULUX GOLDEN GRAIN PAINT FINISH. LRV: 35			
Y.CF	E.03	JAMES HARDIE [™] MATRIX 2990mm x 1990mm EXPRESS JOINT CLADDING. DULUX BOLD IRISH PAINT FINISH. LRV: 21			
Y.CF	E.04	JAMES HARDIE [™] MATRIX 2990mm x 1990mm EXPRESS JOINT CLADDING. DULUX HYPNOTISM PAINT FINISH. LRV: 11			
Y.CC	V.01	STRUCTUUR 360mm NAILSTRIP PROFILE CLADDING SYSTEM. COLORBOND COTTAGE GREEN FINISH. LRV: 10			
Y.CB	T.01	STEEL BATTENS - UNICOTE ASH WOOD FINISH.			
Y.CB	T.02	STEEL BATTENS - COLORBOND COTTAGE GREEN FINISH. LRV: 10			
Y.CB	T.03	STEEL BATTENS - DULUX GOLDEN GRAIN FINISH. LRV: 35			
Y.CC	H.01	LYSAGHT 16mm CUSTOM ORB ROOF/WALL SHEETING. COLORBOND SHALE GREY FINISH. LRV: 50			

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TASMANIA JACKJUMPERS HIGH PERFORMANCE TRAINING CENTRE DEPARTMENT OF STATE GROWTH

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114,000 BRIEFING ROOM CEILING

Kingborough Council

Development Application: DAS-2024-10 Plan Reference No: P4 Date Received: 12/11/2024 Date placed on Public Exhibition: 20/11/2024

T15,000 BOTTOM OF PARAPET

A32-DA02

APPROVAL

244002

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TASMANIA JACKJUMPERS HIGH PERFORMANCE TRAINING CENTRE DEPARTMENT OF STATE GROWTH

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APPROVAL

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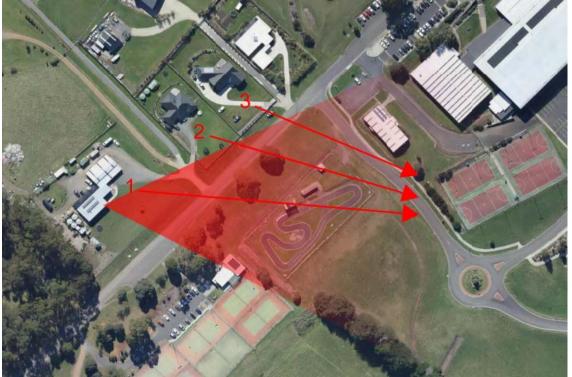


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A33-DA02



NEIGHBOURING RESIDENCE VIEW 01



Kingborough Council Development Application: DAS-2024-10 Plan Reference No: P4 Date Received: 12/11/2024 Date placed on Public Exhibition: 20/11/2024

VIEW LOCATION

TASMANIA JACKJUMPERS HIGH PERFORMANCE TRAINING CENTRE DEPARTMENT OF STATE GROWTH

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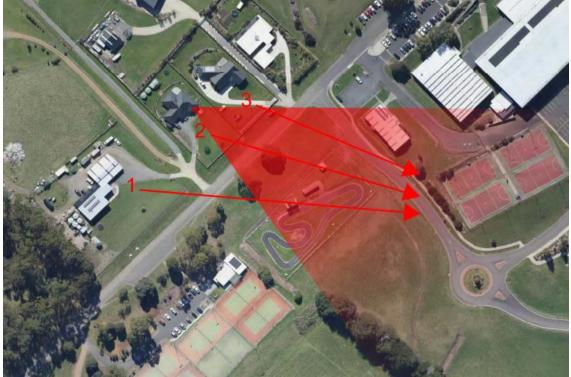
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NEIGHBOURING RESIDENCE VIEW 02



VIEW LOCATION

TASMANIA JACKJUMPERS HIGH PERFORMANCE TRAINING CENTRE DEPARTMENT OF STATE GROWTH

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Kingborough Council Development Application: DAS-2024-10 Plan Reference No: P4 Date Received: 12/11/2024 placed on Public Exhibition: 20/11/2024

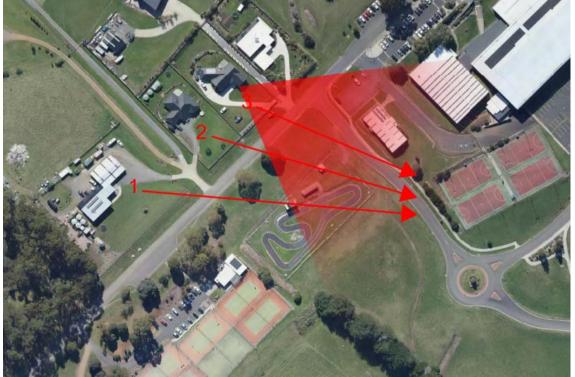


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VIEW LOCATION

TASMANIA JACKJUMPERS HIGH PERFORMANCE TRAINING CENTRE DEPARTMENT OF STATE GROWTH

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Kingborough Council

Development Application: DAS-2024-10 Plan Reference No: P4 Date Received: 12/11/2024 Date placed on Public Exhibition: 20/11/2024





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OVERALL BUILDING VIEW



TASMANIA JACKJUMPERS HIGH PERFORMANCE TRAINING CENTRE

Kingborough Council

Development Application: DAS-2024-10 Plan Reference No: P4 Date Received: 12/11/2024 Date placed on Public Exhibition: 20/11/2024

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KINGSTON VIEW DRIVE INTERSECTION

TASMANIA JACKJUMPERS HIGH PERFORMANCE TRAINING CENTRE DEPARTMENT OF STATE GROWTH

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TASMANIA JACKJUMPERS HIGH PERFORMANCE TRAINING CENTRE DEPARTMENT OF STATE GROWTH

Kingborough Council

Development Application: DAS-2024-10 Plan Reference No: P4 Date Received: 12/11/2024 Date placed on Public Exhibition: 20/11/2024

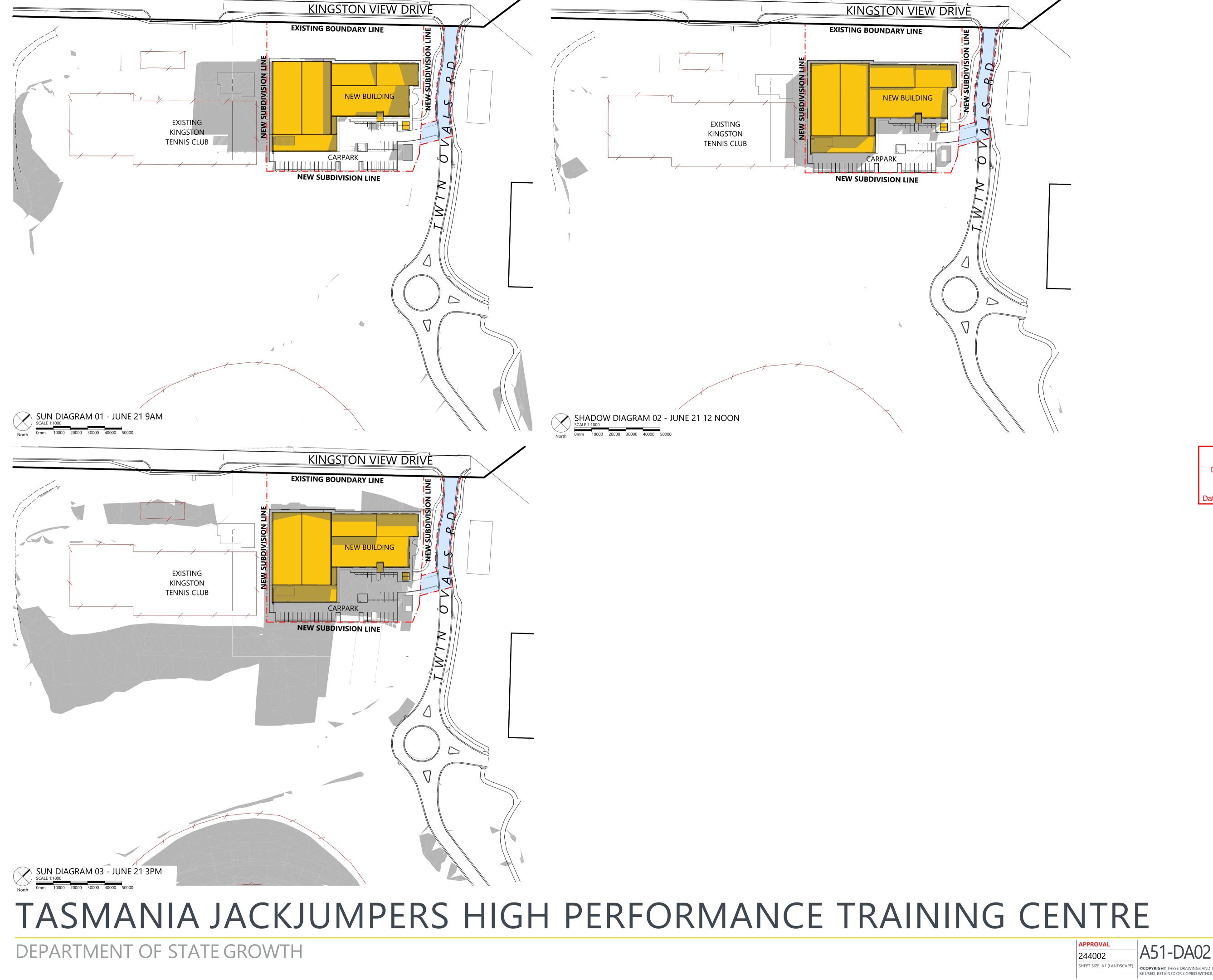
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Development Application: DAS-2024-10 Plan Reference No: P4 Date Received: 12/11/2024 Date placed on Public Exhibition: 20/11/2024



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TASMANIA JACKJUMPERS HIGH PERFORMANCE TRAINING CENTRE DEPARTMENT OF STATE GROWTH



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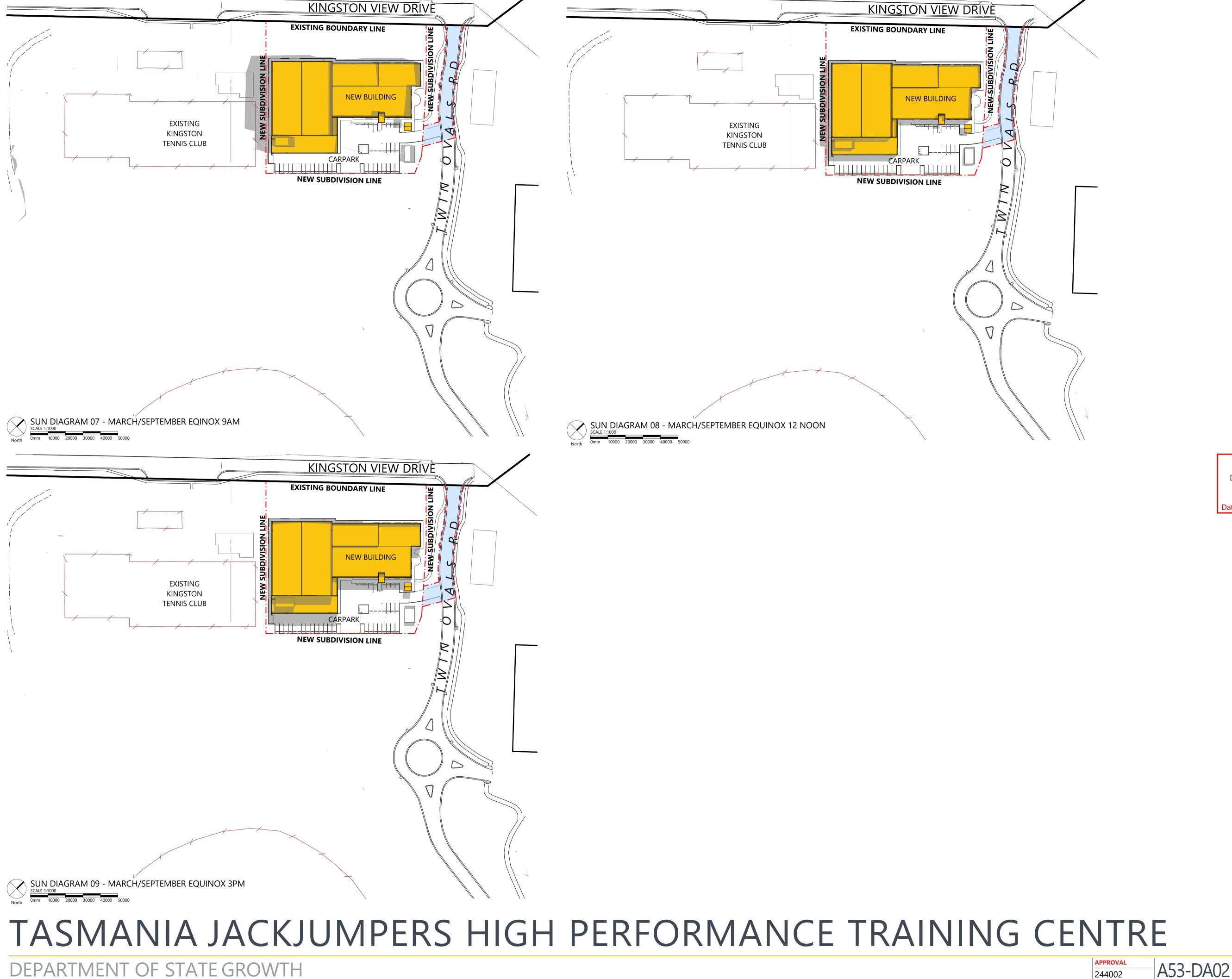
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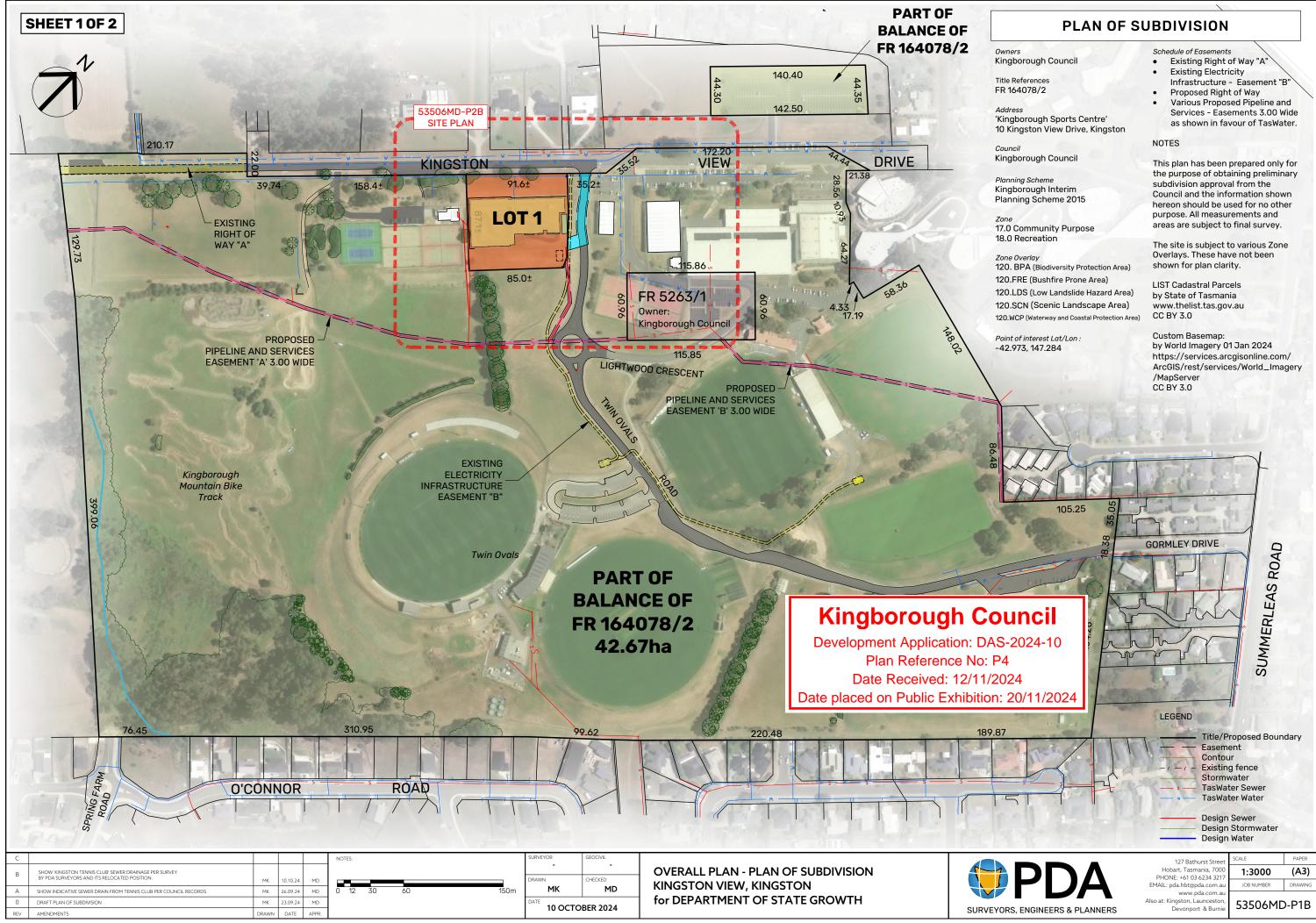
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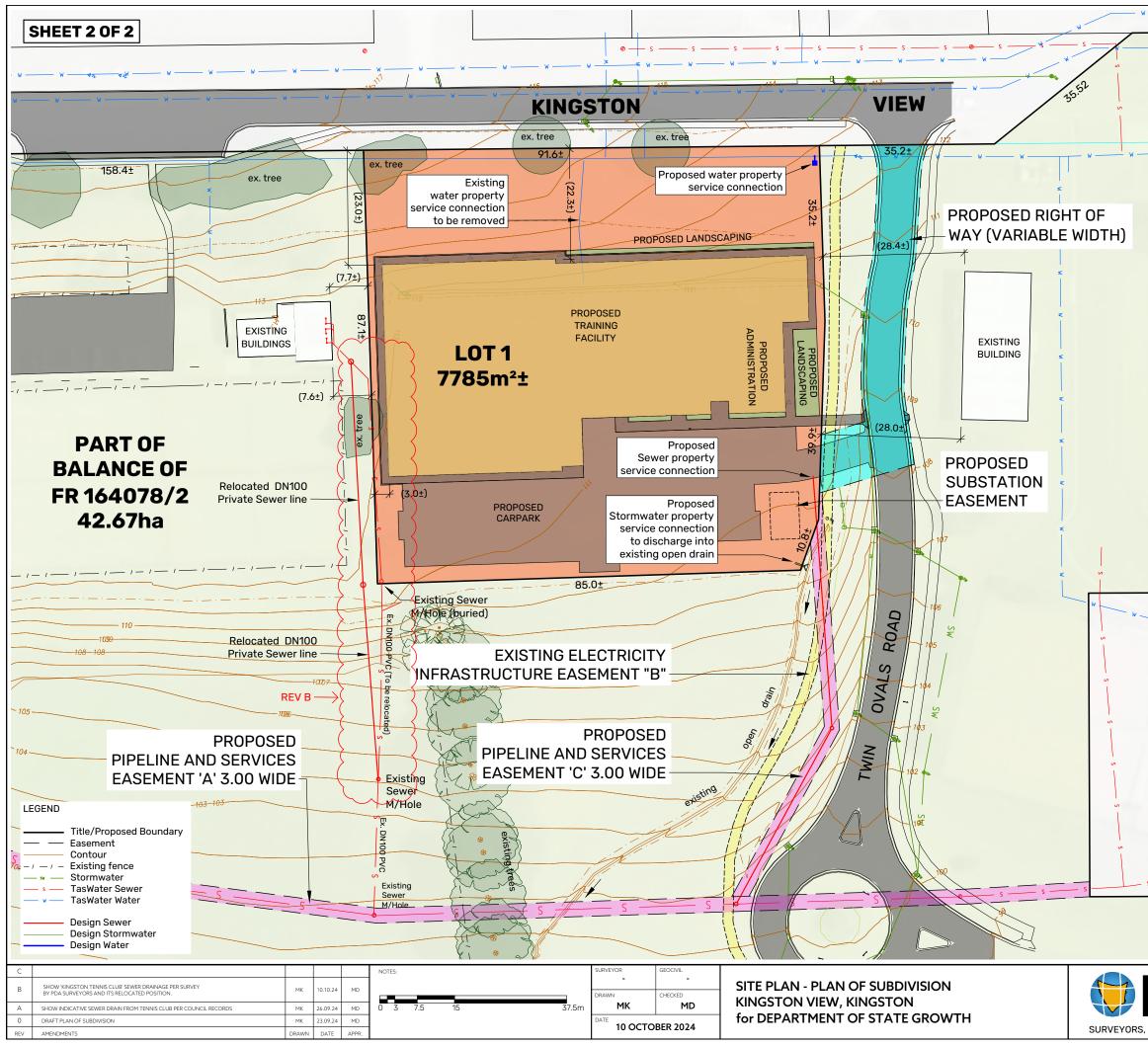
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EXISTING BUILDING			S
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	17 Bathuret Street	SCALE	PAPER
Hobart PHONE: EMAIL: pda Also at: Kings	27 Bathurst Street , Tasmania, 7000 +61 03 6234 3217 ,hbt@pda.com.au www.pda.com.au ston, Launceston, vonport & Burnie	1:750 JOB NUMBER 53506MI	(A3) DRAWING

TREES



SHRUBS AND FEATURE PLANTS





GRASSES AND GROUNDCOVERS



JACK JUMPERS HIGH PERFORMANCE FACILITY | **PLANTING PALETTE** Document Set ID: 4539584 Version: 2, Version Date: 12/11/2024

TREES

	BOTANIC N
1.	Allocasuarir
2.	Banksia inte
3.	Eucalyptus
4.	Eucalyptus

	BOTANIC NAME	COMMON NAME	SIZE (HxW)
5.	Acacia cognata "Limelight"	Dwarf River Watlle	0.8m x .1.2m
6.	Atriplex cinerea	Coastal Saltbush	1.2m x 1.5m
7.	Casuarina glauca 'Cousin It'	Cousin It	0.3m x 1.0m
8.	Correa backhouseana	Backhouseana Correa	1.2m x 1.2m
9.	Diplarrena moraea	White Flag Iris	0.6m x 0.6m
10.	Ficinia nodosa	Knobby Clubrush	0.9m x 0.9m
11.	Melaleuca pustulata	Tasmanian Paperbark	1.2m x 1.5m
12.	Pycnosorus globosus	Billy Buttons	0.5m x 0.5m

GRASSES & GROUNDCOVERS

BOTANIC NA

13.	Austrostipa
14.	Correa alba
15.	Lomandra l
	Lomandra '
	Myoporum



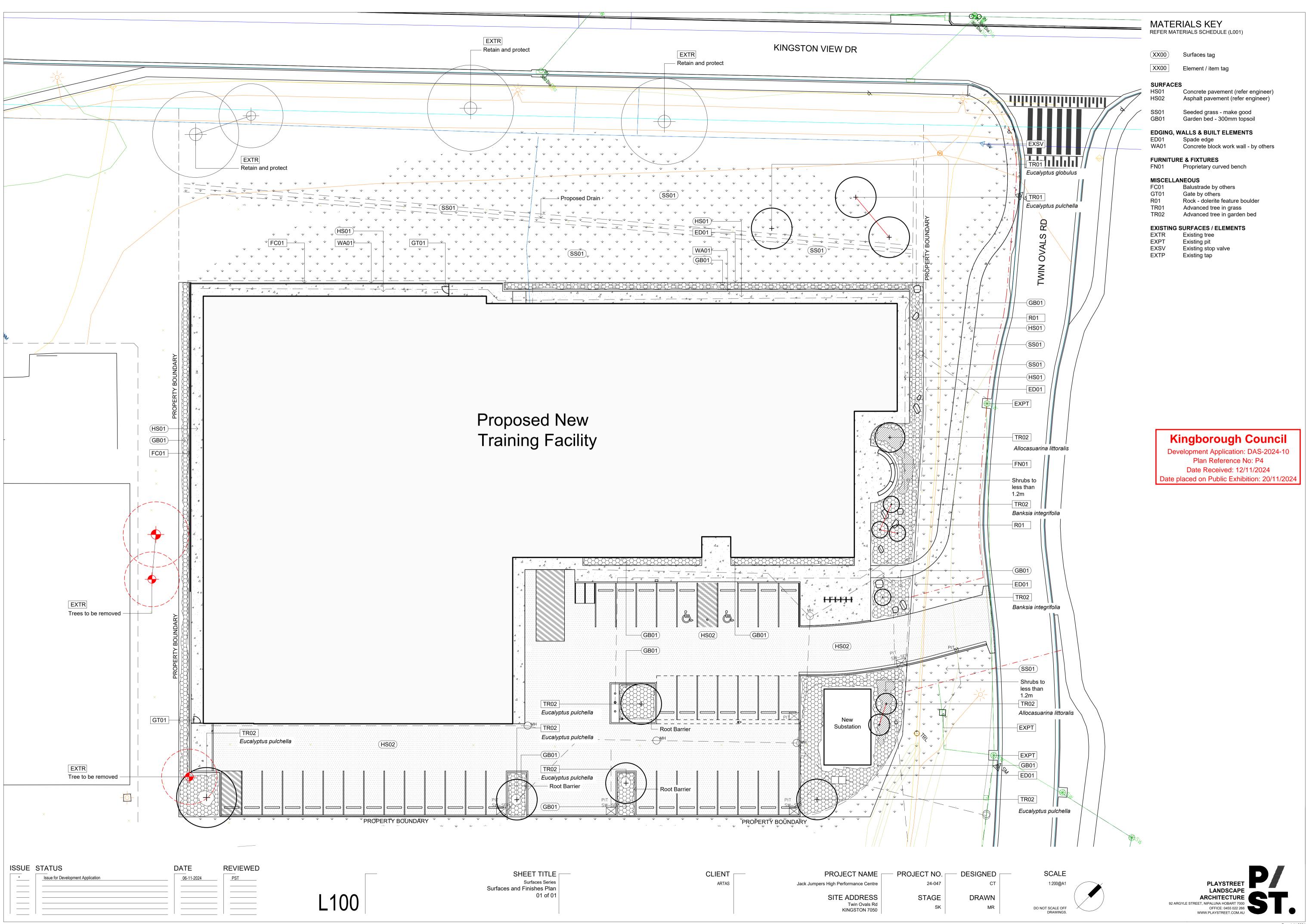


IAME	COMMON NAME	SIZE (HxW)
na littoralis	Black Sheoak	5m x 3m
egrifolia	Coastal Banksia	5m x 3m
globulus	Blue Gum	25m x 12m
pulchella	White Peppermint	10m x 8m

SHRUBS & FEATURE PLANTS

IAME	COMMON NAME	SIZE (HxW)
stipioides	Foxtail Spear Grass	0.6m x 0.6m
a 'Silver Star'	Prostrate White Correa	0.4m x 1m
longifolia	Mat Rush	0.6m x 0.6m
'Sea Scape'	Mat Rush	0.6m x 0.6m
parvifolium	Creeping Boobialla	0.3m x 1.5m

Kingborough Council





coengserv.com.au

ABN: 79 651 045 715

CES246078-C8-02

Date: 27/09/2024

Stormwater Quantity Targets

Due to the available area on the site and potential for future parking requirements it is the intent that the developer makes a contribution to the upgrade of council infrastructure to accommodate flows. The final deciding factor will be driven by cost, once the value of the contribution is provided this method will be further reviewed. If the cost contribution is considered undesirable we will need to look at a redesign to accommodate onsite stormwater detention.

Stormwater Quality Targets

An Ocean Protect JellyFish unit JF900-2-1 and Ocean Protect Cascade CS1200 gross pollutant trap is required for tertiary treatment.

Preliminary Design:

- 1 x Cascade CS1200.
- 1 x JellyFish JF900-2-1(686) 460mm Head

We have modelled the site in MUSIC in accordance with the following guidelines & parameters. These are:

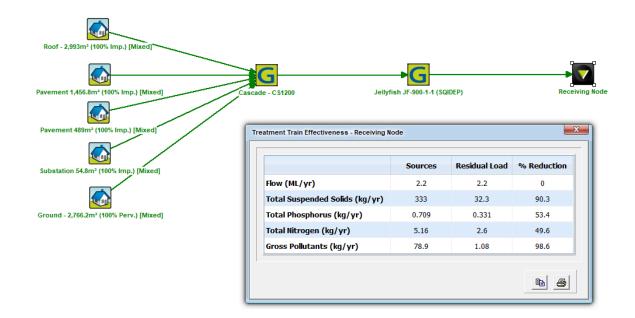
- MUSIC Version 6.3.0
- Rainfall station Ellerslie Road Station 094029 Jan 1990 to 01 Jun 2010 6min
- Melbourne MUSIC Guidelines
- No drainage routing between nodes.

We have modelled the systems to meet current Tasmania's targets. These are:

- 80% Total Suspended Solids Reduction
- 45% Total Phosphorus Reduction
- 45% Total Nitrogen Reduction
- 90% Gross Pollutant Reduction

Please see extract of music modelling below:

Kingborough Council



Please find attached to this report product details of the specified units.

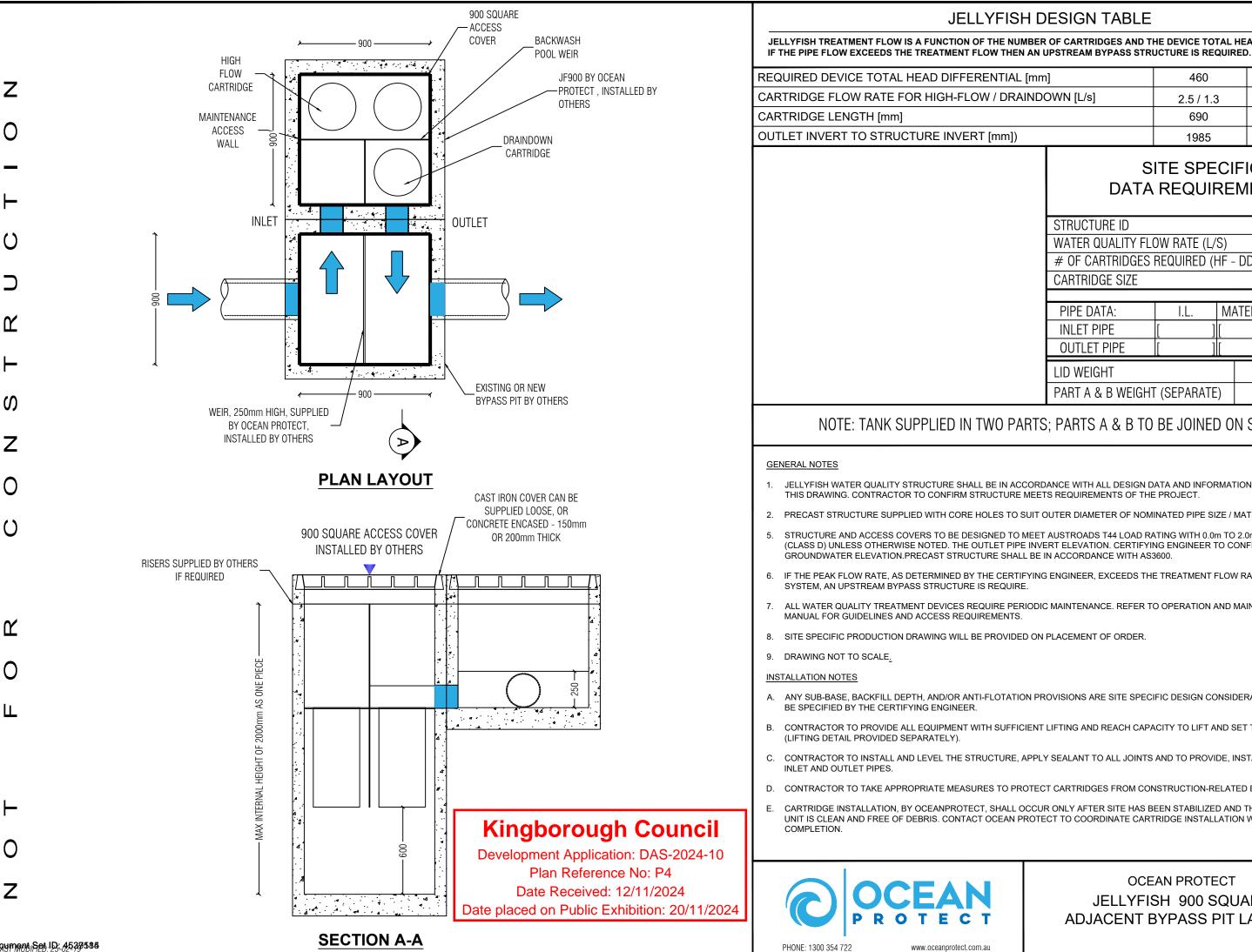
Please do not hesitate to contact me if you have any queries regarding this project, I am more than happy to meet with over teams should you wish to discuss further.

Yours sincerely,

W I Cameron

William Cameron BEng(Hons)Civil, MIEAust, CPEng, NER Principal – Structural Civil and Hydraulic Engineer <u>will@coengserv.com.au</u> 0409 155 894 Coordinated Engineering Services

Kingborough Council



0gument/Set ID: 4539585

www.oceanprotect.com.au

JELLYFISH DESIGN TABLE

JELLYFISH TREATMENT FLOW IS A FUNCTION OF THE NUMBER OF CARTRIDGES AND THE DEVICE TOTAL HEAD DIFFERENTIAL.

_ [mm]	460	230
AINDOWN [L/s]	2.5 / 1.3	1.27 / 0.79
	690	690
	1985	1985

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID WATER QUALITY FLOW RATE (L/S) # OF CARTRIDGES REQUIRED (HF - DD) _ **CARTRIDGE SIZE** 690

PIPE DATA:		I.L.	ľ	MATERIAL	DIAMETER
INLET PIPE	[][]	[]
OUTLET PIPE	[-][]	[]
LID WEIGHT				1	(BC
PART A & B WEIGHT	(SI	EPARAT	E)	1	TBC
	INLET PIPE OUTLET PIPE LID WEIGHT	INLET PIPE [OUTLET PIPE [LID WEIGHT	INLET PIPE [OUTLET PIPE [LID WEIGHT	INLET PIPE [][OUTLET PIPE [][INLET PIPE [] OUTLET PIPE [] LID WEIGHT 1

NOTE: TANK SUPPLIED IN TWO PARTS; PARTS A & B TO BE JOINED ON SITE

JELLYFISH WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN

PRECAST STRUCTURE SUPPLIED WITH CORE HOLES TO SUIT OUTER DIAMETER OF NOMINATED PIPE SIZE / MATERIAL.

STRUCTURE AND ACCESS COVERS TO BE DESIGNED TO MEET AUSTROADS T44 LOAD RATING WITH 0.0m TO 2.0m FILL MAXIMUM (CLASS D) UNLESS OTHERWISE NOTED. THE OUTLET PIPE INVERT ELEVATION. CERTIFYING ENGINEER TO CONFIRM ACTUAL

IF THE PEAK FLOW RATE, AS DETERMINED BY THE CERTIFYING ENGINEER, EXCEEDS THE TREATMENT FLOW RATE OF THE

ALL WATER QUALITY TREATMENT DEVICES REQUIRE PERIODIC MAINTENANCE. REFER TO OPERATION AND MAINTENANCE

A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE SPECIFIC DESIGN CONSIDERATION AND SHALL

B. CONTRACTOR TO PROVIDE ALL EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE

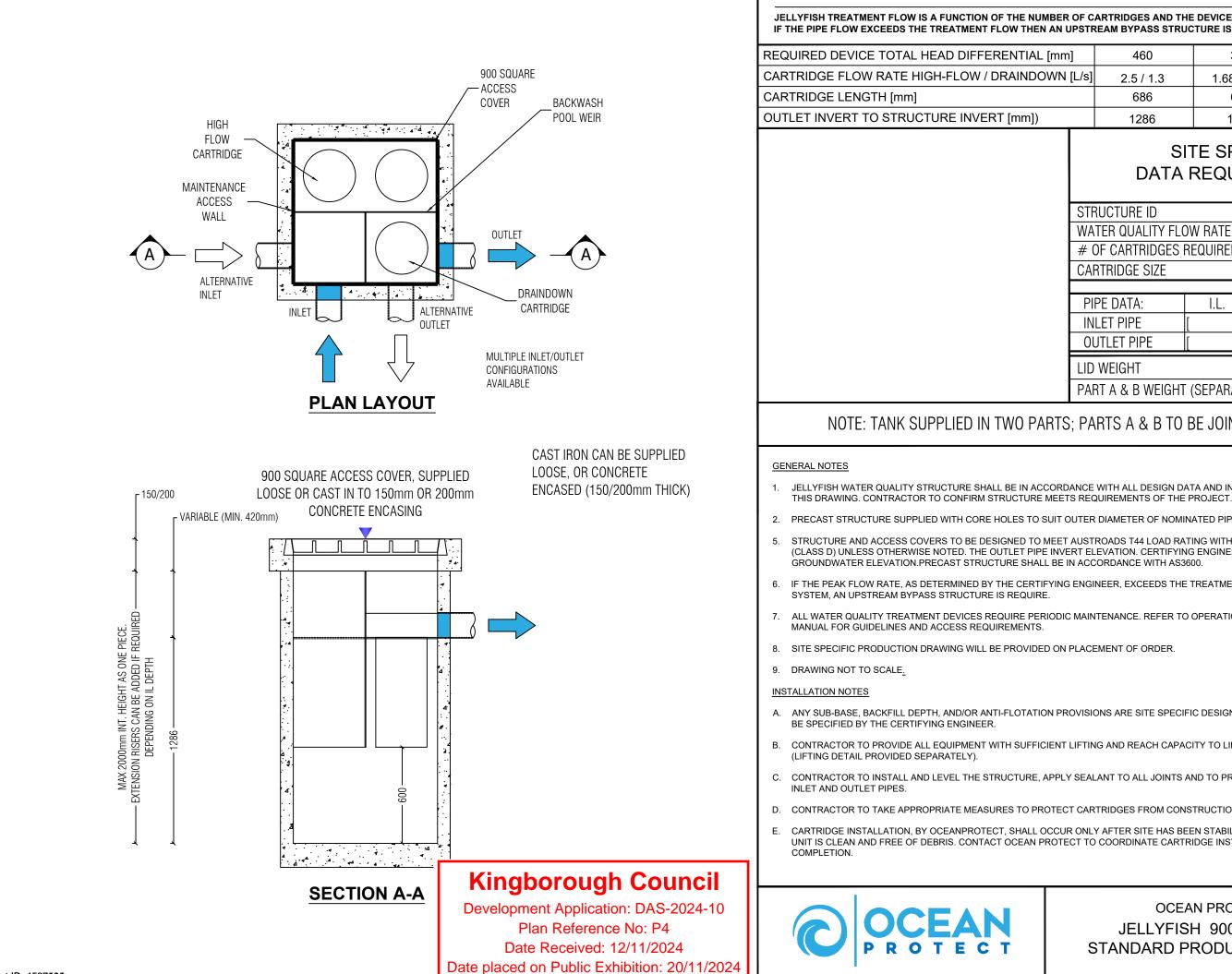
CONTRACTOR TO INSTALL AND LEVEL THE STRUCTURE, APPLY SEALANT TO ALL JOINTS AND TO PROVIDE, INSTALL AND GROUT

D. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF

CARTRIDGE INSTALLATION, BY OCEANPROTECT, SHALL OCCUR ONLY AFTER SITE HAS BEEN STABILIZED AND THE JELLYFISH UNIT IS CLEAN AND FREE OF DEBRIS. CONTACT OCEAN PROTECT TO COORDINATE CARTRIDGE INSTALLATION WITH SITE

OCEAN PROTECT JELLYFISH 900 SQUARE ADJACENT BYPASS PIT LAYOUT

JELLYFIS



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PHONE: 1300 354 722

www.oceanprotect.com.au

SH D	H DESIGN TABLE							
JMBER OF CARTRIDGES AND THE DEVICE TOTAL HEAD DIFFERENTIAL. IN AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.								
L [mm]	460	30	5			230	
OWN	[L/s]	2.5 / 1.3	1.68 /	0.98	;	1	.27 / 0.79	1
		686	69	0			690	
)		1286	128	36			1286	
	SITE SPECIFIC DATA REQUIREMENTS							
	STRUCTURE ID[]WATER QUALITY FLOW RATE (L/S)[]# OF CARTRIDGES REQUIRED (HF - DD)[-							
	CARTRIDGE SIZE 690							
	PIPE DATA:I.L.MATERIALDIAMETERINLET PIPE[][]OUTLET PIPE[]]]							
	LID WEIGHT TBC PART A & B WEIGHT (SEPARATE) TBC							
ARTS; PARTS A & B TO BE JOINED ON SITE								

JELLYFISH WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN

PRECAST STRUCTURE SUPPLIED WITH CORE HOLES TO SUIT OUTER DIAMETER OF NOMINATED PIPE SIZE / MATERIAL.

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CONTRACTOR TO INSTALL AND LEVEL THE STRUCTURE, APPLY SEALANT TO ALL JOINTS AND TO PROVIDE, INSTALL AND GROUT

D. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF

CARTRIDGE INSTALLATION, BY OCEANPROTECT, SHALL OCCUR ONLY AFTER SITE HAS BEEN STABILIZED AND THE JELLYFISH UNIT IS CLEAN AND FREE OF DEBRIS. CONTACT OCEAN PROTECT TO COORDINATE CARTRIDGE INSTALLATION WITH SITE

OCEAN PROTECT JELLYFISH 900 SQUARE STANDARD PRODUCT DRAWING

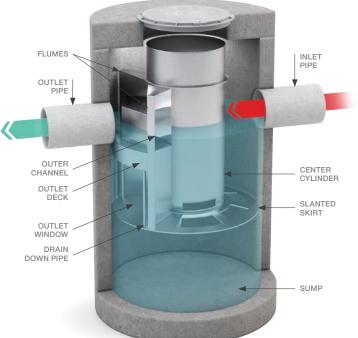


Cascade Separator[®] Advanced Sediment Capture Technology

This innovative hydrodynamic separator excels at sediment capture and retention while also removing hydrocarbons, litter, and debris from stormwater runoff. What makes the Cascade Separator[®] unique is the use of opposing vortices that enhance particle settling and a unique skirt design that allows for sediment transport into the sump while reducing turbulence and resuspension of previously captured material. These two factors allow the Cascade Separator[®] to treat high flow rates in a small footprint, resulting in an efficient and economical solution for any site.

How does it work?

- Stormwater enters the Cascade Separator[®] through one or multiple inlets and/or a grate inlet
- As water enters the unit, it impacts the centre cylinder and is directed to two separate flumes
- Water traveling through the opposing flumes enters the center chamber where vortices rotate in opposite directions and facilitate enhanced particle settling
- As water swirls downward sediment settles into the sump and treated water exits through the outlet window before exiting the system
- When flows exceed the capacity of the flumes, the excess water flows over the flumes and exits the system without re-suspending or washing out previously captured pollutants
- The system incorporates a partially perforated slanted skirt that equalizes the pressure between the storage and treatment zone while reducing the potential for scour
- The skirt also allows transport of sediment and debris into the sump zone which improves ease of maintenance since all captured material can be removed through the center cylinder



Kingborough Council Development Application: DAS-2024-10 Plan Reference No: P4 Date Received: 12/11/2024 Date placed on Public Exhibition: 20/11/2024

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enquiries@oceanprotect.com.au

(**k**) www.oceanprotect.com.au



Cascade Separator®



Features

- Unique skirt design & opposing vortices
- Inlet area accepts wide range of inlet pipe angles
- Accepts multiple inlet pipes
- Grate inlet option
- Internal bypass
- Clear access to sump and stored pollutants

Benefits

- High solids removal
- Reduced system size and costs
- Design and installation flexibility
- Eliminates the need for separate junction structure, grate inlet, and extra pits
- Fast, easy maintenance

Configurations and Applications

The Cascade Separator[®] range covers most applications and needs. The fully trafficable precast concrete system can be arranged both on-line or off-line with low flow diversion. A range of diameters ensures your treatable flow rate requirement will be satisfied. This design flexibility makes the system ideal for a wide range of applications such as:

- Commercial, industrial and residential development, infill and redevelopment and stormwater quality retrofit applications
- Special projects, including highways, airports, seaports and military installations
- Pre-treatment for subsequent stormwater treatment assets (e.g. StormFilter®, biofiltration)

Maintenance

The Cascade Separator[®] provides unobstructed access to stored pollutants, making it easy to maintain using a vacuum truck, with no requirement to enter the unit. Speak to the team at Ocean Protect who can help inspect and maintain your Cascade Separator[®].

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coengserv.com.au

ABN: 79 651 045 715

246078-C8-03

Date: 11/11/2024

Tasmanian Jack Jumpers High Performance Centre – RAI TWDA 2024-00970-KIN – Incorporating revised scope

In response to the above referenced RFI please see detailed calculations below.

Proposed	BE04 Office (Inc Consulting Rooms)	
Water	0.004	m^2
Sewer	0.006	m^2
GBFA	1545	m^2
Water	6.18	ET
Sewer	9.27	ET

Proposed	COURT AREA + GYM	
Water	0	ET/m^2
Sewer	0	ET/m^2
GBFA	1830	m^2
Water	0.00	ET
Sewer	0.00	ET

	Total	
Water (ET)		6
Sewer (ET)		9

Average Dry Weathe	r Sewage Flow		
ADWF	ET*Loading Rate*0.0067		
Loading rate		450	L/ET/day
ADWF		27.94905	L/s

Peak Dry Weather Sewage Flow			
PDWF	d*ET*Loading Rate*0.0067		
d	0.01(log A)-0.19(log A)^3 + 1.4(log A)^2 -4.66(log A) +7.57		
Area Site	0.778126	Hectares	
d	8.094572633		
PDWF	226.2356152	L/s	

Kingborough Council

Groundwater Infiltrat	tion	
GWI	0.025*A*Portion Wet	
Area Site	0.778126	Hectares
		Adopted estimate for clay
Portion wet	0.7	site
GWI	0.013617205	L/s

Peak (Rainfall depend	dant) inflow infiltration	
RDI	0.028*A_Eff*C*I	
A_Eff	A*(1758*Portion Impervious)	
	I1,2*Factor size*Factor containment	
Factor Size	(40/A)^0.12	
С	S aspect + N aspect	
Area Site	0.778126	Hectares
Area Impervious	0.5405	Hectares
Portion Impervious	0.694617581	
A_Eff	0.368427	Hectares
11,2	12.2	mm/h
Factor Size	1.604431603	
		For ARI of 2 Years based
		on table C3 WSA 02-2014-
Factor Containment	1	3.1 Appendix C
	19.57406555	
S aspect	0.8	
N aspect	0.6	
С	1.4	
RDI	0.282695279	L/s

Total Sewer Flow 226.5319277 L/s

Water Demand Service	Flow Rate L/s	Residual Pressure kPa
Domestic (with FHR)	1.96	450
Fire Hydrant	10.0	500

Please do not hesitate to contact me if you have any queries regarding this project, I am more than happy to meet with over teams should you wish to discuss further.

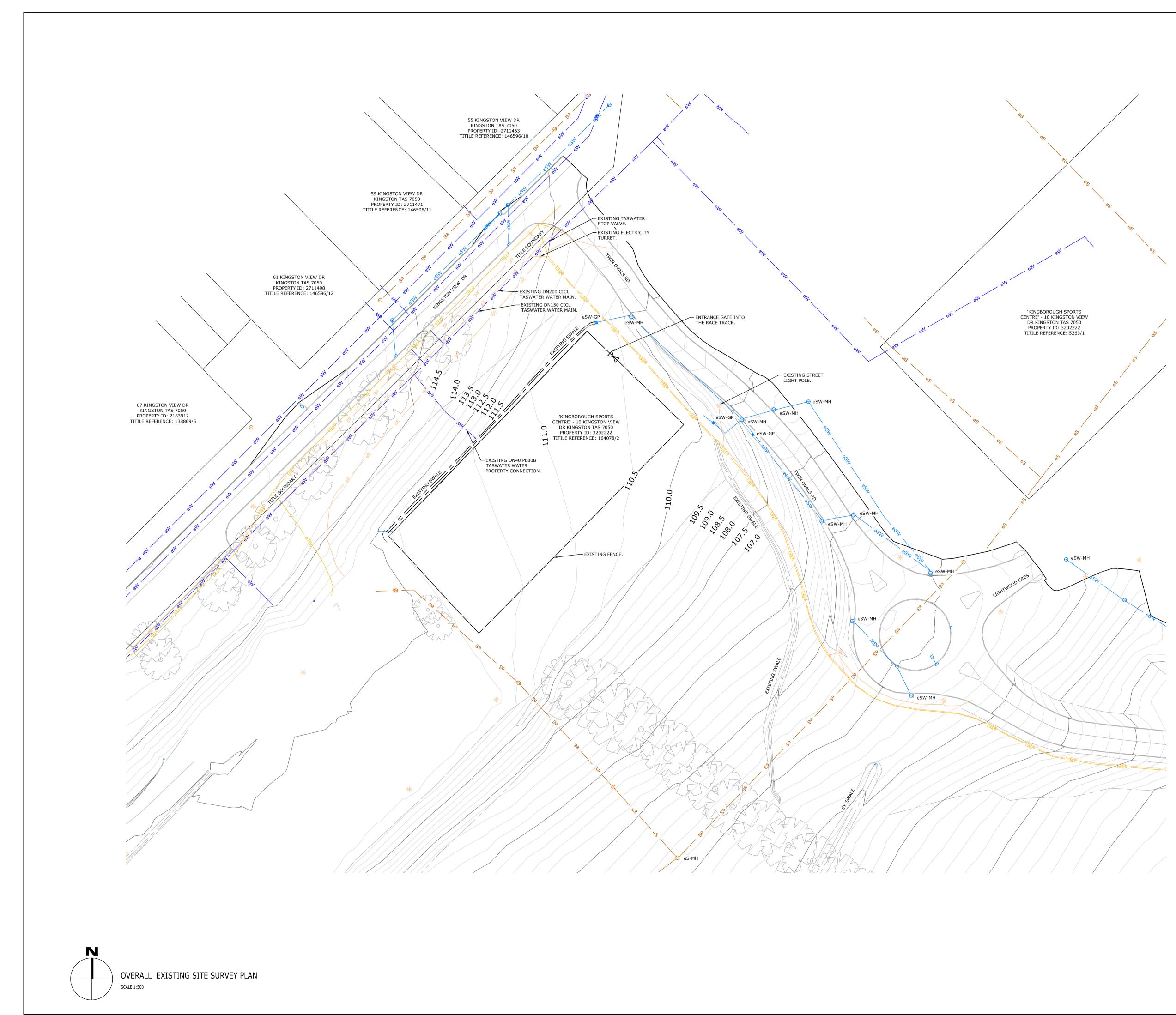
Yours sincerely,

W I Cameron

William Cameron BEng(Hons)Civil, MIEAust, CPEng, NER Principal – Structural Civil and Hydraulic Engineer <u>will@coengserv.com.au</u> 0409 155 894 Coordinated Engineering Services **Kingborough Council**

Development Application: DAS-2024-10 Plan Reference No: P4 Date Received: 12/11/2024

Date placed on Public Exhibition: 20/11/2024



LINE TYPE LEGEND

—— eW ——	EXISTING WATER LINE
—— eSW ——	EXISTING STORMWATER L
—— eS ——	EXISTING SEWER LINE
—— eE ——	EXISTING ELECTRICITY LI
eTEL	EXISTING TELECOMUNICA
_\\	EXISTING FENCE LINE

LINE INE CATION LINE

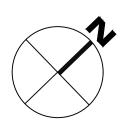
LEGEND

eSW-MH EXISTING STORMWATER MANHOLE eS-MH EXISTING SEWER MANHOLE eSW-GP EXISTING STORMWATER GRATED PIT

Kingborough Council

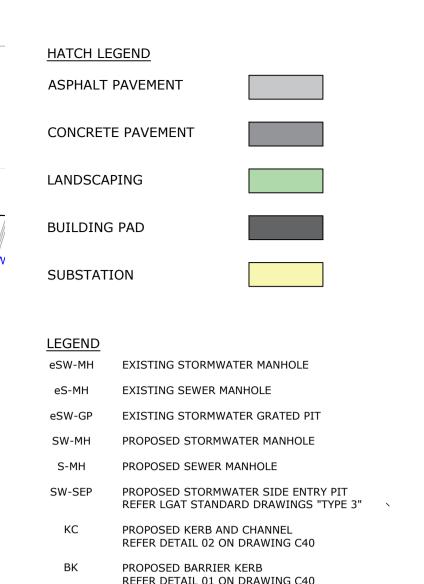






CIVIL PAVEMENT PLAN SCALE 1:200

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	REFER DETAIL UI ON DRAWING C40
RW	PROPOSED RETAINING WALL
	REINFORCED BLOCKWORK TO FUTURE DETAIL
IO	INSPECTION OPENING

BOL. BOLLARD REFER DETAIL 03 ON DRAWING C40

LINE TYPE LEGEND

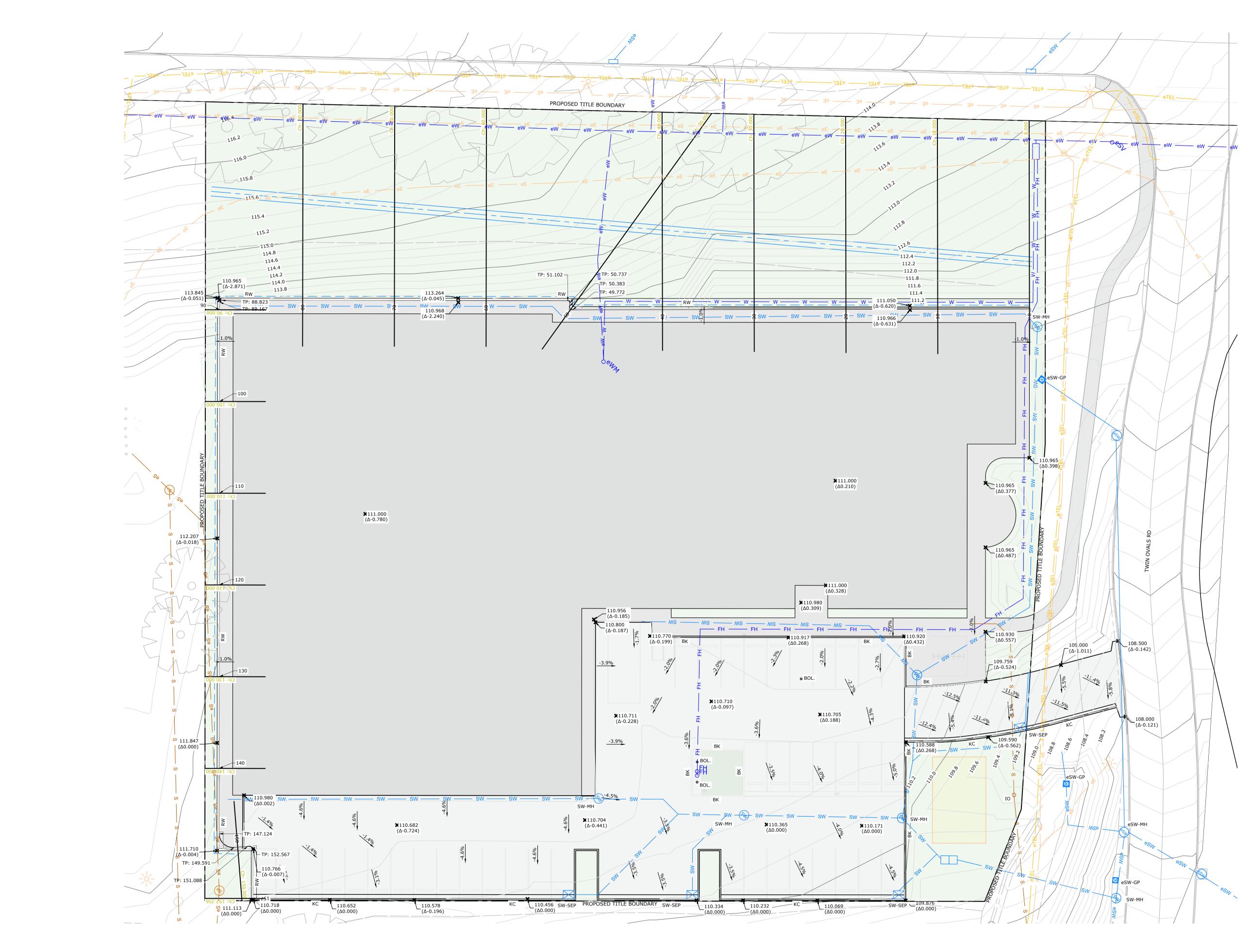
— eTEL——

eW —

— eW —

eW	EXISTING WATER LINE
eSW	EXISTING STORMWATER LINE
eS	EXISTING SEWER LINE
eE	EXISTING ELECTRICITY LINE
eTEL	EXISTING TELECOMMUNICATION LINE
SW	PROPOSED STORMWATER LINE
s	PROPOSED SEWER LINE
w	PROPOSED WATER LINE
FH	PROPOSED FIRE HYDRANT LINE
	PROPOSED AG DRAIN







HATCH LEGEND ASPHALT PAVEMENT CONCRETE PAVEMENT LANDSCAPING BUILDING PAD SUBSTATION

LEGEND		
eSW-MH	EXISTING STORMWATER MANHOLE	
eS-MH	EXISTING SEWER MANHOLE	
eSW-GP	EXISTING STORMWATER GRATED PIT	
SW-MH	PROPOSED STORMWATER MANHOLE	
S-MH	PROPOSED SEWER MANHOLE	
SW-SEP	PROPOSED STORMWATER SIDE ENTRY PIT REFER LGAT STANDARD DRAWINGS "TYPE 3"	`
КС	PROPOSED KERB AND CHANNEL REFER DETAIL 02 ON DRAWING C40	
ВК	PROPOSED BARRIER KERB REFER DETAIL 01 ON DRAWING C40	
RW	PROPOSED RETAINING WALL REINFORCED BLOCKWORK TO FUTURE DETAIL	
IO	INSPECTION OPENING	
BOL.	BOLLARD REFER DETAIL 03 ON DRAWING C40	

LINE TYPE LEGEND

eW EX	ISTING WATER LINE
———— eSW ———— EX	ISTING STORMWATER LINE
eS EX	ISTING SEWER LINE
eE EX	ISTING ELECTRICITY LINE
etel ex	ISTING TELECOMMUNICATION LINE
SW PR	OPOSED STORMWATER LINE
S PR	OPOSED SEWER LINE
W PR	OPOSED WATER LINE
FH PR	OPOSED FIRE HYDRANT LINE
PR	OPOSED AG DRAIN



GRADE LEGEND

-3.3% NEGATIVE SLOPE DENOTES FALL. 3.4% POSITIVE SLOPE DENOTES RISE.

SPOT LEVEL KEY NEW SURFACE LEVEL (+/- DIFFERENCE TO EXISTING SURFACE)



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RW LONG SECTION

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 49.772
 -1.804
 112.771
 10.966

 50.000
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 112.791
 110.966

 50.383
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 10.966
 10.965 10.966 DESIGN LEVELS 0 _____ 112.191 478 531 EXISTING LEVELS 111. 112 -------0.512 .225 565 DEPTH ω Ļ. 0 30.000 10.000 000 CHAINAGE 20.

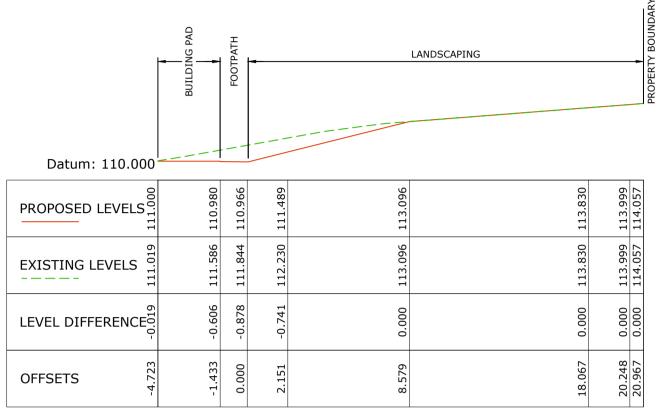
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112.867110.966 112.943110.966 113.001110.966	113.200110.965	113.493110.965	113.830110.965 113.789110.965 113.603110.965	112.481	112.240110.965	112.1101	111.9541	111.872 111.831	111.752111.001 111.594110.982 111.566 110.976 111.490110.773	111.365
-1.901 -1.977 -2.036	.235		-2.865 -2.823 -2.637	1.515	1.275	1.144	-0.988	-0.907	-0.751 -0.612 -0.590 -0.718	
					I					
50.383 50.737 51.102	60.000	80.000	88.823 89.167 90.000	100.000	110.000	120.000	130.000	134.188	147.124 149.591 150.000 151.088	152.567 157.356

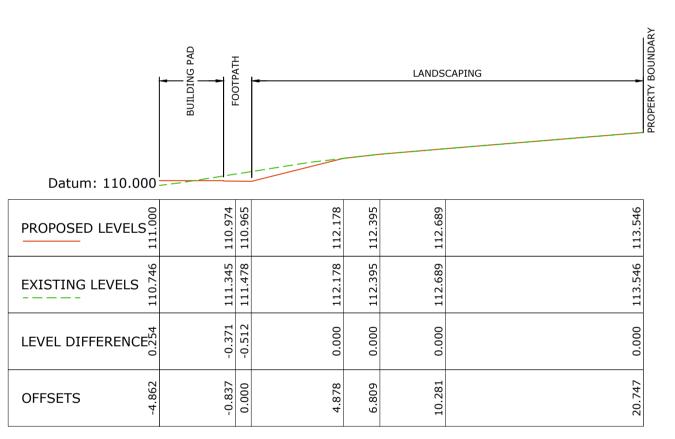
Kingborough Council Development Application: DAS-2024-10 Plan Reference No: P4 Date Received: 12/11/2024 Date placed on Public Exhibition: 20/11/2024



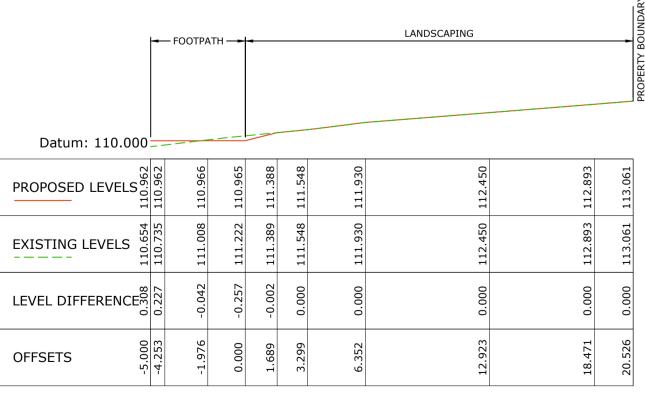
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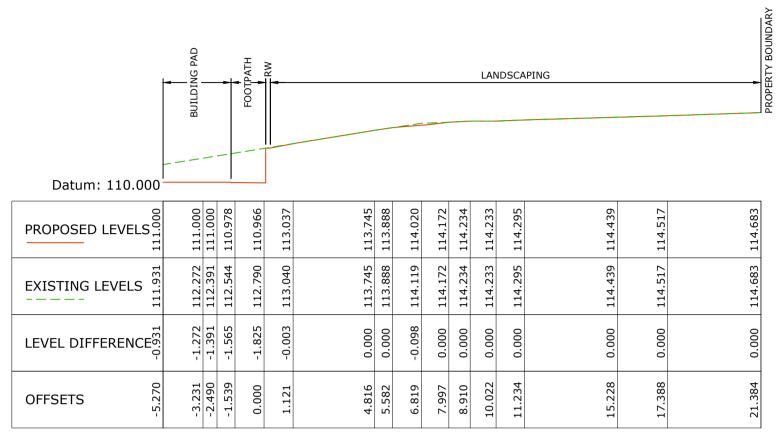


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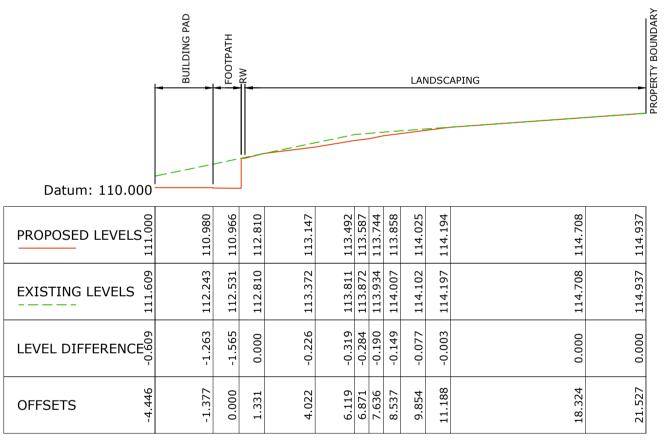
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CIVIL CROSS SCETION

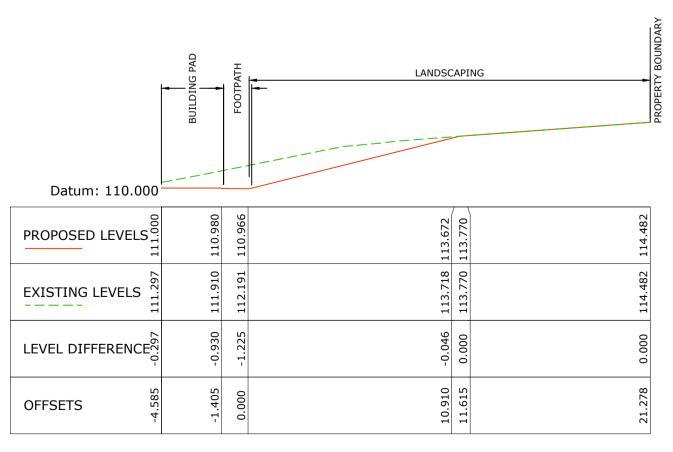
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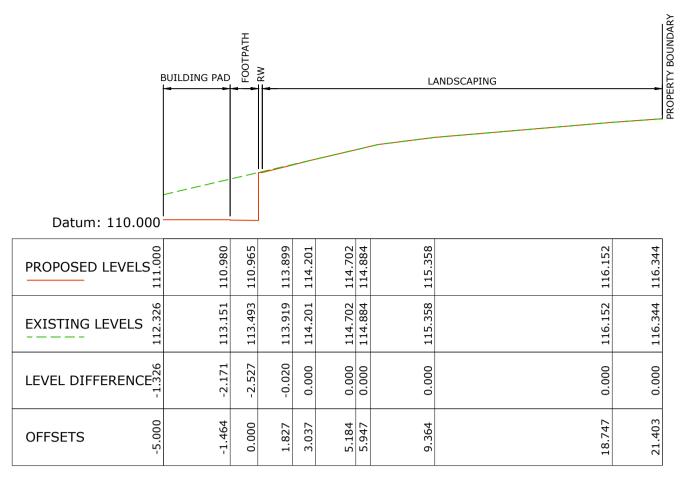
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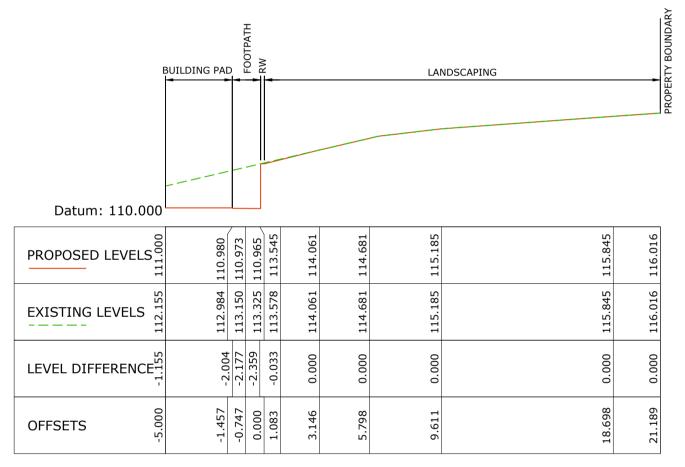
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Kingborough Council

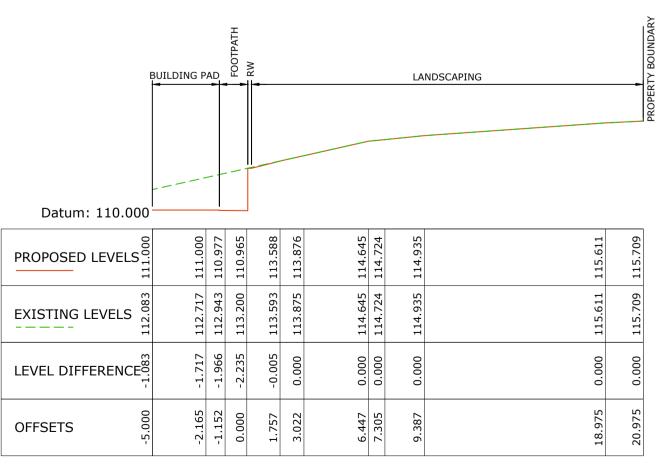


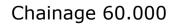


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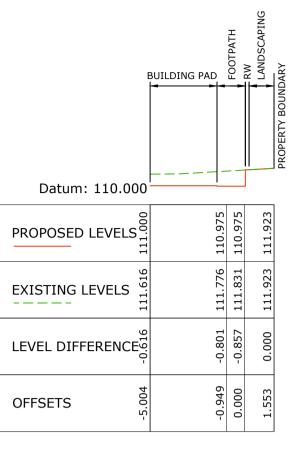


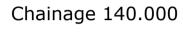


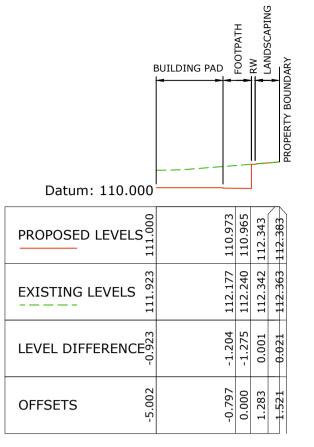
1X VERTICAL EXAGGERATION

CIVIL CROSS SCETION

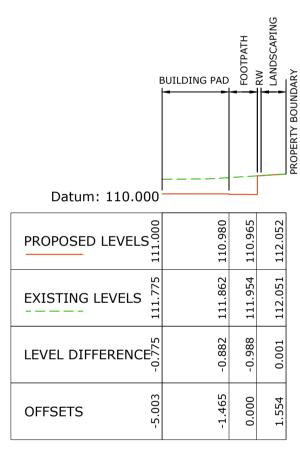
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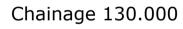


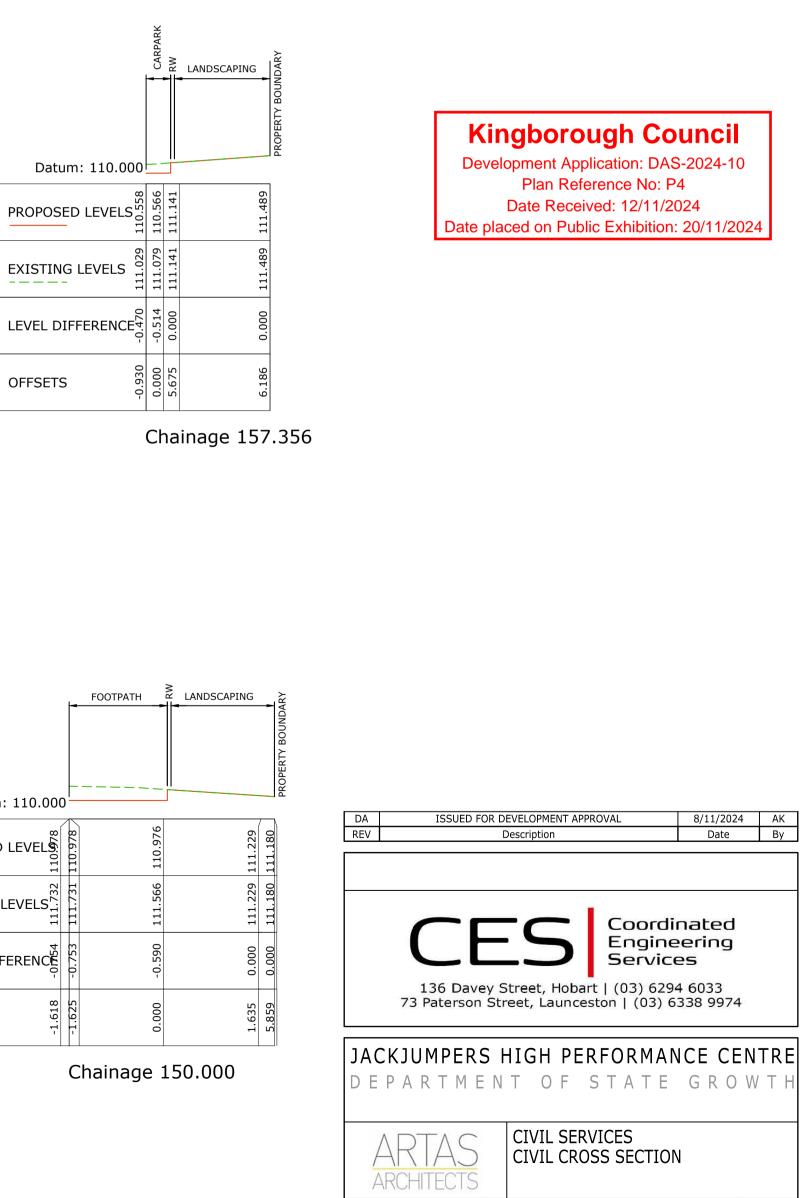


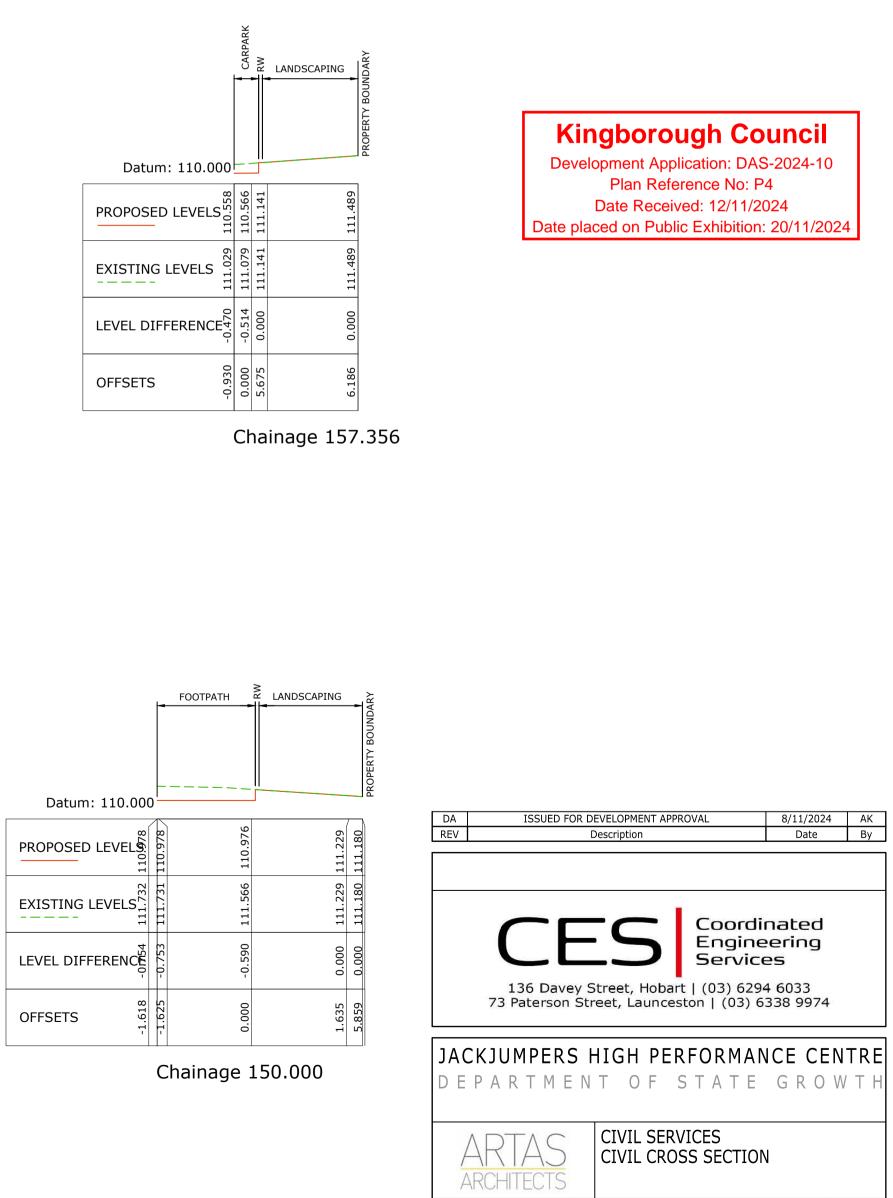






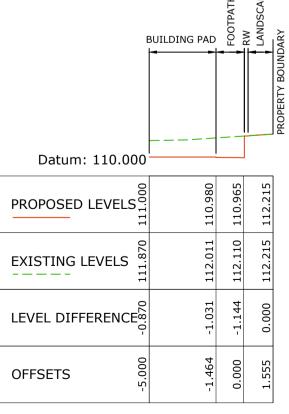




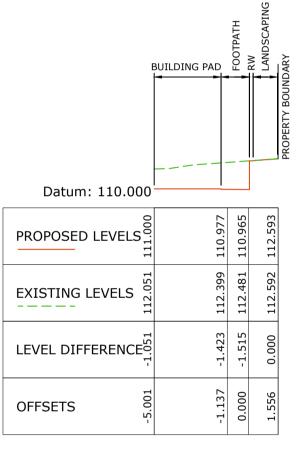


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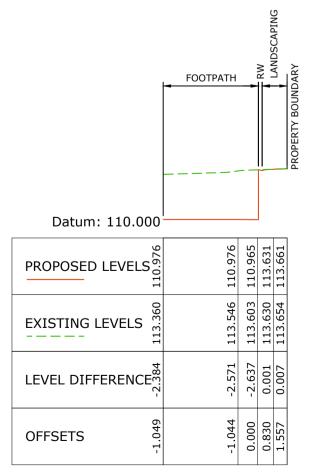
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Chainage 120.000



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Chainage 90.000

ISSUE:

DA

AK PROJECT & SHEET:

wjc 8/11/2024 AS SHOWN @A1 246078 - C24

GENERAL

1. TENDERER SHALL MAKE THEMSELVES AWARE OF THE LOCAL COUNCIL AND AUSTROADS STANDARDS FOR ALL CIVIL WORKS. TENDERERS SHALL MAKE ALL NECESSARY ALLOWANCES FOR WORKS TO BE CARRIED OUT IN ACCORDANCE WITH STANDARDS WITHIN THE TENDER PRICE.

2. THE CONTRACTOR IS TO NOTIFY ALL RELEVANT STATUTORY AUTHORITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION WORKS ON SITE FOR THE POSSIBLE LOCATION OF ANY EXISTING SERVICES NOT SHOWN ON THESE PLANS. THE SUPERINTENDENT SHALL BE NOTIFIED OF ANY SERVICES THAT ARE NOT SHOWN IN THE DOCUMENTATION. ALL EXISTING SERVICES ARE TO BE PROTECTED DURING CONSTRUCTION. ANY DAMAGE TO EXISTING SERVICES IS TO BE MADE GOOD AT THE CONTRACTORS EXPENSE.

3. THESE DRAWINGS AND SPECIFICATIONS HAVE BEEN PREPARED FOR COUNCIL APPROVAL AND TENDERING PURPOSES ONLY THEY ARE NOT TO BE USED FOR CONSTRUCTION. A CONSTRUCTION SET WILL BE ISSUED PRIOR TO COMMENCEMENT OF CONSTRUCTION.

4. COMMON TRENCHING; THE FOLLOWING CLEARANCE DISTANCES (BARREL TO BARREL) MUST BE MAINTAINED FROM EXISTING OR PROPOSED SERVICES, FOR ALL COMMON TRENCHING: HORIZONTAL: - 300mm ALONG A LENGTH GREATER THAN 2m

- 500mm MINIMUM FROM ANY MAIN GREATER THAN Ø200mm -150mm MINIMUM ALONG LENGTH LESS THAN 2m

VERTICALLY: - 150mm MINIMUM

- 300mm MINIMUM FROM ANY MAIN GREATER THAN Ø200mm ELECTRICAL CABLES SHALL BE MINIMUM DISTANCE OF 400mm OF WHICH 300mm SHOULD BE IN NATURAL AND UNDISTURBED MATERIAL.

5. LOCAL ENERGY SUPPLIER TRENCHING; THE CONTRACTOR IS TO ALLOW FOR EXCAVATION AND BACKFILLING FOR ALL INSTALLATION OF LOCAL ENERGY SUPPLIER CABLES. WHERE REQUIRED CONTRACTOR IS TO LIAISE WITH ENERGY SUPPLIER FOR THE EXTENT OF CABLE TRENCHING.

6. TELECOMMUNICATION TRENCHING; THE CONTRACTOR IS TO ALLOW FOR EXCAVATION AND BACKFILLING FOR ALL INSTALLATION OF LOCAL TELECOMMUNICATION SUPPLIER CABLES. WHERE REQUIRED CONTRACTOR IS TO LIAISE WITH LOCAL TELECOMMUNICATION SUPPLIER FOR THE EXTENT OF CABLE TRENCHING.

7. EXISTING SERVICES ARE TO BE LOCATED PRIOR TO COMMENCING DEMOLITION OR SITE WORKS. THE CONTRACTOR IS TO ARRANGE AND PAY FOR THE ON SITE MARKING AND CONFIRMATION OF DEPTH OF SERVICE AND LOCATION FOR ALL UNDERGROUND SERVICES INCLUDING LOCAL TELECOMMUNICATION, ENERGY, WATER AUTHORITY AND COUNCIL SERVICES (i.e. STORMWATER) IN THE AREA OF NEW WORKS. LOCATION TO BE CONFIRMED USING CABLE LOCATORS AND HAND DIGGING METHODS. PRIOR TO ANY WORK ON SITE, ANY CLASHES WITH DESIGNED SERVICES ON FOLLOWING DRAWINGS ARE TO BE REPORTED TO DESIGN ENGINEER FOR DIRECTION.

8. COUNCIL AND AUTHORITIES APPROVALS; ALL WORKS ARE TO BE IN ACCORDANCE WITH APPROVAL FROM WATER AUTHORITY (CERTIFICATE OF CONSENT) AND LOCAL COUNCIL (DEVELOPMENT APPLICATION).

9. THE CONTRACTOR IS TO ALLOW FOR TEMPORARY WORKS SUCH AS DIVERSION MAINS OF EQUAL CAPACITY TO EXISTING AND PUMPED SYSTEMS AS REQUIRED TO ALLOW NEW WORKS OR MODIFICATION TO EXISTING BE CARRIED OUT WITH MINIMAL INTERRUPTION TO SITE WATER RETICULATION AND DRAINAGE SERVICES.

10. WHERE EXISTING SERVICES ARE LOCATED WITHIN 600mm OF NEW BUILDING WORKS THEY SHALL BE DIVERTED AND RELAID TO ENGINEERS SITE DIRECTION.

11. DISRUPTION TO EXISTING SERVICES; THE CONTRACTOR SHALL ORGANISE SEQUENCE OF WORKS TO ENSURE MINIMUM DISRUPTION TO EXISTING ACTIVE SERVICES. ANY INTERRUPTIONS ARE TO BE APPROVED BY THE PRINCIPAL.

PAVEMENT SPECIFICATION

THE PAVEMENT WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING DEPARTMENT OF STATE GROWTH SPECIFICATIONS: SECTION 204 - EARTHWORKS - AUG 2016 SECTION 304 - UNBOUND FLEXIBLE PAVEMENT CONSTRUCTION - AUG 2016

SECTION 304 - PREPARATION OF GRANULAR PAVEMENTS FOR BITUMINOUS SURFACING - AUG 2016 SECTION 407 - DENSE GRADED ASPHALT - FEB 2022

SECTION 408 - SPRAYED BITUMINOUS SURFACINGS - DEC 2020 ALL THE DEPARTMENT OF STATE GROWTH SPECIFICATIONS REFERENCED IN THESE SECTIONS.

CONCRETE FINISHES

CONCRETE SHALL BE FINISHED IN ACCORDANCE WITH THE FOLLOWING UNLESS OTHERWISE NOTED: GENERAL CONCRETE

- FORMED SURFACES THAT WILL BE VISIBLE ONCE THE WORKS ARE COMPLETE CLASS 3 TO AS3610.1-2018 TABLE 3.2.3.
 FORMED SURFACES THAT WILL BE BURIED AND WILL NOT BE VISIBLE ONCE THE WORKS ARE
- COMPLETE CLASS 4 TO AS3610.1-2018 TABLE 3.2.3. - UNFORMED SURFACES THAT WILL BE VISIBLE ONCE THE WORKS ARE COMPLETE - BURNISHED STEEL TROWEL TO NATSPEC CLASS A TOLERANCE.
- UNFORMED SURFACES THAT WILL BE BURIED AND WILL NOT VISIBLE ONCE THE WORKS ARE COMPLETE BURNISHED STEEL TROWEL TO NATSPEC CLASS A TOLERANCE.
- UNFORMED SURFACES THAT WILL BE TRAFFICABLE AND VISIBLE ONCE THE WORKS ARE COMPLETE - BURNISHED STEEL TROWEL TO NATSPEC CLASS A TOLERANCE THEN BROOMED TO
- FORM A NON-SLIP FINISH. - UNFORMED SURFACES FOR KERBS AND VEE DRAINS - STEEL TROWEL TO LGAT STANDARDS.

EARTHWORKS

1. GENERAL EARTHWORKS, MATERIAL AND WORKMANSHIP SHALL COMPLY WITH THESE DRAWINGS AND THE CURRENT EDITION OF THE S.A.A. CODE FOR EARTHWORKS AS3798 TOGETHER WITH ANY CODES, STANDARDS OR REGULATIONS REFERRED TO THEREIN. A COPY OF AS3798 SHALL BE RETAINED ON SITE AT ALL TIMES.

2. THE CONTRACTOR IS TO ENGAGE AN APPROVED GEOTECHNICAL ENGINEER TO CARRY OUT LEVEL 3 TESTING OF ALL EARTHWORKS TO AS3798, INCLUDING: - SUBGRADE

- FILLS - PAVEMENTS

- PAVEMENTS - BACKFILLING OF SERVICE TRENCHES CERTIFICATION OF THESE ELEMENTS IS TO BE PROVIDED PROGRESSIVELY AND PRIOR TO PRACTICAL COMPLETION.

- 3. AREAS OF FILL; REMOVE TOPSOIL AND ORGANIC MATERIAL, PROOF ROLL SUBGRADE IN ACCORDANCE WITH AS1289 TO:

 98% STANDARD DRY DENSITY UNDER BUILDING
- 100% STANDARD DRY DENSITY UNDER ROADS AND CARPARKS - REMOVE ANY SOFT SPOTS AND AND COMPACT WITH 2% OF OPTIMUM MOISTURE CONTENT TO STANDARD DRY DENSITY AS STATED ABOVE.

ROADWORKS/PAVEMENT/FOOTPATHS/TURF 1. ALL WORKS ARE TO BE CARRIED OUT TO THE LOCAL COUNCIL AND AUSTROADS STANDARDS ANY DEPARTURES EROM THESE STANDARDS DECURES PROVAD

STANDARDS. ANY DEPARTURES FROM THESE STANDARDS REQUIRES PRIOR APPROVAL OF SUPERINTENDENT AND THE LOCAL COUNCIL WORKS SUPERVISOR.

INSPECTIONS WITH SUPERINTENDENT. MINIMUM 48 HOURS NOTICE IS REQUIRED TO BE GIVEN TO THE SUPERINTENDENT PRIOR TO INSPECTION. - SUBGRADE PREPARATION.

- SUB-BASE FOR ROADS, CARPARKS AND KERBS. - BASE COURSE.
- FINAL TRIM PRIOR TO PLACING KERBS. - FINAL TRIM PRIOR TO SEALING.

3. TESTING; THE CONTRACTOR IS RESPONSIBLE FOR ORGANISING AND PAYING ALL COSTS ASSOCIATED WITH TESTING IN ACCORDANCE WITH D.I.E.R. SPEC G4 COMPACTION ASSESSMENT.

4. HOTMIX; ALL HOTMIX IS TO BE BLACK IN COLOUR AND IS TO MEET AND BE PLACED IN ACCORDANCE WITH D.I.E.R. R55-DENSE GRADED ASPHALT.

5. KERBS; ALL KERBS ARE TO BE AS SHOWN ON DRAWINGS AND BE IN ACCORDANCE WITH LGAT STANDARDS.

6. ROAD RESERVE WORKS; ALL WORKS IN (OR REQUIRING OCCUPATION) IN THE ROAD RESERVE MUST BE UNDERTAKEN BY CONTRACTORS REGISTERED WITH THE LOCAL COUNCIL (REGISTERED CONTRACTOR)

STORMWATER

1. ALL WORKS ARE TO BE CARRIED OUT TO THE LOCAL COUNCIL AND D.I.E.R. STANDARDS. ANY DEPARTURES FROM THESE STANDARDS REQUIRES PRIOR APPROVAL OF SUPERINTENDENT AND THE LOCAL COUNCIL WORKS SUPERVISOR. ALL STORMWATER PLUMBING AND DRAINAGE IS TO COMPLY WITH AS3500.3-2003.

2. TESTING; ALL DRAINAGE WORKS SHALL BE SUBJECTED TO TESTS PRESCRIBED BY THE AUTHORITIES HAVING JURISDICTION OVER VARIOUS SERVICES. ANY SECTION FAILING SUCH TESTS SHALL BE REMOVED AND PROPERLY INSTALLED AT THE CONTRACTORS EXPENSE.

3. MANHOLES ARE TO BE 1050 I.D. PRECAST CONCRETE INSTALLED TO LOCAL COUNCIL STANDARDS. ALL MANHOLES IN TRAFFICKED AREAS ARE TO BE FITTED WITH HEAVY DUTY GATIC COVERS AND SURROUNDS.

- 4. SIDE ENTRY PITS; - PIT INVERT DEPTHS VARY, REFER SITE PLAN.
 - BENCH OUT IN A NEAT AND TIDY MANNER TO ENGINEERS APPROVAL.
 GRATED PIT GULLY HINGED OR OTHER TYPE APPROVED.
 CONCRETE KERB LINTEL STEEL KERB LINTEL AND 1200 LONG GALV. BAR
 INSTALL STEP RUNG IF REQUIRED BY DEPTH.

5. AS INSTALLED DRAWINGS; THE CONTRACTOR IS RESPONSIBLE FOR PRODUCING "AS INSTALLED" DRAWINGS TO THE STANDARD REQUIRED BY THE LOCAL COUNCIL. THE DRAWINGS SHALL BE CERTIFIED AS BEING CORRECT BY EITHER A CHARTERED CIVIL ENGINEER OR A REGISTERED SURVEYOR. THIS SERVICE CAN BE PROVIDED BY CES, HOWEVER THE CONTRACTOR WILL BE CHARGED FOR THIS SERVICE, CONTRACTORS SHALL ALLOW FOR THIS WHEN PRICING.

6. INSPECTIONS; THE CONTRACTOR IS RESPONSIBLE FOR ORGANISING THE FOLLOWING INSPECTIONS WITH THE SUPERINTENDENT. MINIMUM OF 48 HOURS NOTICE IS REQUIRED TO BE GIVEN TO THE SUPERINTENDENT PRIOR TO THE INSPECTION.
PIPEWORK BEDDING.
INSTALLED PIPE PRIOR TO BACKFILLING.

- BACKFILLING.

WATER RETICULATION

1. ALL WATER RETICULATION WORKS TO COMPLY WITH WSA 02-2011-3.1 MRWA EDITION VERSION 2 AND WATER SERVICES ASSOCIATION OF AUSTRALIA STANDARDS. ANY DEPARTURES FROM THESE STANDARDS REQUIRES THE PRIOR (NRM) APPROVAL OF THE SUPERINTENDENT AND LOCAL WATER AUTHORITY WORKS SUPERVISOR.

2. TESTING; ALL WATER RETICULATION WORKS SHALL BE SUBJECTED TO TESTS PRESCRIBED BY THE AUTHORITIES HAVING JURISDICTION OVER VARIOUS SERVICES. ANY SECTION FAILING SUCH TESTS SHALL BE REMOVED AND PROPERLY INSTALLED AT THE CONTRACTORS EXPENSE.

3. FIRE HYDRANTS ARE TO BE AS SHOWN ON DRAWINGS. THE CONTRACTOR IS TO ALLOW TO PLACE STANDARD MARKERS AS REQUIRED BY THE LOCAL AUTHORITY.

4. TRENCHES AND BACKFILLING; ALL TRENCHES ARE TO BE EXCAVATED AND BACKFILLED IN ACCORDANCE WITH DRAWINGS AND LOCAL WATER AUTHORITY STANDARDS.

5. THRUST AND ANCHOR BLOCKS ARE TO BE PROVIDED AT BENDS, VALVES, HYDRANTS AND LINE ENDS IN ACCORDANCE WIT THE LOCAL WATER AUTHORITY STANDARDS.

 6. INSPECTIONS; THE CONTRACTOR IS RESPONSIBLE FOR ORGANISING THE FOLLOWING INSPECTIONS WITH THE SUPERINTENDENT. MINIMUM OF 48 HOURS NOTICE IS REQUIRED TO BE GIVEN TO THE SUPERINTENDENT PRIOR TO THE INSPECTION.
 PIPEWORK BEDDING.

- INSTALLED PIPE PRIOR TO BACKFILLING.- BACKFILLING.

7. PIPE CLEANING; THE CONTRACTOR IS TO ALLOW TO CLEANSE WATER MAINS BY FLUSHING WITH SODIUM HYPOCHLORIDE AS DIRECTED BY LOCAL AUTHORITY.

8. AS INSTALLED DRAWINGS; THE CONTRACTOR IS RESPONSIBLE FOR PRODUCING "AS INSTALLED" DRAWINGS TO THE STANDARD REQUIRED BY THE LOCAL WATER AUTHORITY. THE DRAWINGS SHALL BE CERTIFIED AS BEING CORRECT BY EITHER A CHARTERED CIVIL ENGINEER OR A REGISTERED SURVEYOR. THIS SERVICE CAN BE PROVIDED BY CES, HOWEVER THE CONTRACTOR WILL BE CHARGED FOR THIS SERVICE, CONTRACTORS SHALL ALLOW FOR THIS IN THEIR PRICING.

9. WATER CONNECTIONS; UNLESS OTHERWISE STATED WATER CONNECTIONS ARE TO BE 20mm AND INSTALLED AS PER THE LOCAL WATER AUTHORITY REQUIREMENTS AND AS3500.1-2003 STANDARDS.

SOIL AND WATER MANAGEMENT

1. ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH 'SOIL & WATER MANAGEMENT ON BUILDING & CONSTRUCTION SITES' GUIDELINES AVAILABLE FROM NORTHERN RESOURCE MANAGEMENT (NRM).

2. SOIL EROSION CONTROL IN ACCORDANCE WITH NRM GUIDELINES, CONTRACTORS TO ALLOW TO: -LIMIT DISTURBANCE WHEN EXCAVATING BY PRESERVING VEGETATION WHEREVER POSSIBLE.

- -DIVERT UPSLOPE WATER WHERE PRACTICAL. -INSTALL SEDIMENT FENCES DOWN SLOPE OF ALL DISTURBED LANDS TO FILTER LARGE PARTICLES PRIOR TO STORMWATER SYSTEM. -WASH EQUIPMENT IN DESIGNATED AREA THAT DOES NOT DRAIN INTO STORM WATER SYSTEM.
- -PLACE ON-SITE STOCK PILES AWAY FROM ON-SITE DRAINAGE AND UP SLOPE FROM SEDIMENT FENCES. -LEAVE & MAINTAIN VEGETATED FOOT PATH. -STORE ALL HARD WASTE & LITTER IN A DESIGNATED AREA THAT WILL PREVENT IT FROM
- BEING BLOWN AWAY AND WASHED INTO STORMWATER SYSTEM. -RESTRICT VEHICLE MOVEMENT TO STABALISED ACCESS.
- 3.CONTRACTORS ARE TO COMPLETE ALL WORK IS IN ACCORDANCE WITH NRM SOIL AND WATER MANAGEMENT ON BUILDING AND CONSTRUCTION SITE USING THE FOLLOWING FACT SHEETS:
- -FACT SHEET 1: SOIL & WATER MANAGEMENT ON LARGE BUILDING & CONSTRUCTION SITES. -FACT SHEET 2: SOIL & WATER MANAGEMENT ON STANDARD BUILDING & CONSTRUCTION
- -FACT SHEET 3: SOIL & WATER MANAGEMENT PLANS. -FACT SHEET 4: DISPERSIVE SOILS - HIGH RISK OF TUNNEL EROSION.
- -FACT SHEET 5: MINIMISE SOIL DISTURBANCE. -FACT SHEET 6: PRESERVE VEGETATION.
- -FACT SHEET 7: DIVERT UP-SLOPE WATER, -FACT SHEET 8: EROSION CONTROL MATS & BLANKETS.
- -FACT SHEET 9: PROTECT SERVICE TRENCHES & STOCK PILES. -FACT SHEET 10: EARLY ROOF DRAINAGE CONNECTION.
- -FACT SHEET 11: SCOUR PROTECTION STORM WATER PIPE OUTFALLS & CHECK DAMS. -FACT SHEET 12: STABILISED SITE ACCESS.
- -FACT SHEET 13: WHEEL WASH. -FACT SHEET 14: SEDIMENT FENCES AND FIBRE ROLLS. -FACT SHEET 15: PROTECTION OF STORM WATER PITS.
- -FACT SHEET 15: PROTECTION OF STORM WATER PITS. -FACT SHEET 16: MANAGE CONCRETE BRICK & TILE CUTTING.
- -FACT SHEET 17: SEDIMENT BASINS -FACT SHEET 18: DUST CONTROL. -FACT SHEET 19: SITE RE-VEGETATION

CONSTRUCTION SPECIFIC WORKS - PLUMBING

1. DUE TO THE AGE REQUIREMENTS OF BUILDING AND REQUIREMENTS OF NEW BUILDING WORKS TO COMPLY WITH RELEVANT AUSTRALIAN STANDARDS, BUILDING CODES OF AUSTRALIA, LOCAL AUTHORITY (COUNCIL AND WATER / SEWER) AND STATE FIRE SERVICE REQUIREMENTS. CONTRACTORS TO COMPLETE ALL NECESSARY CHECKS AND ASSESSMENTS LISTED BELOW TO ENSURE THE BUILDING WORKS ARE READY FOR CERTIFICATE OF OCCUPANCY AND CERTIFICATE OF COMPLETION.

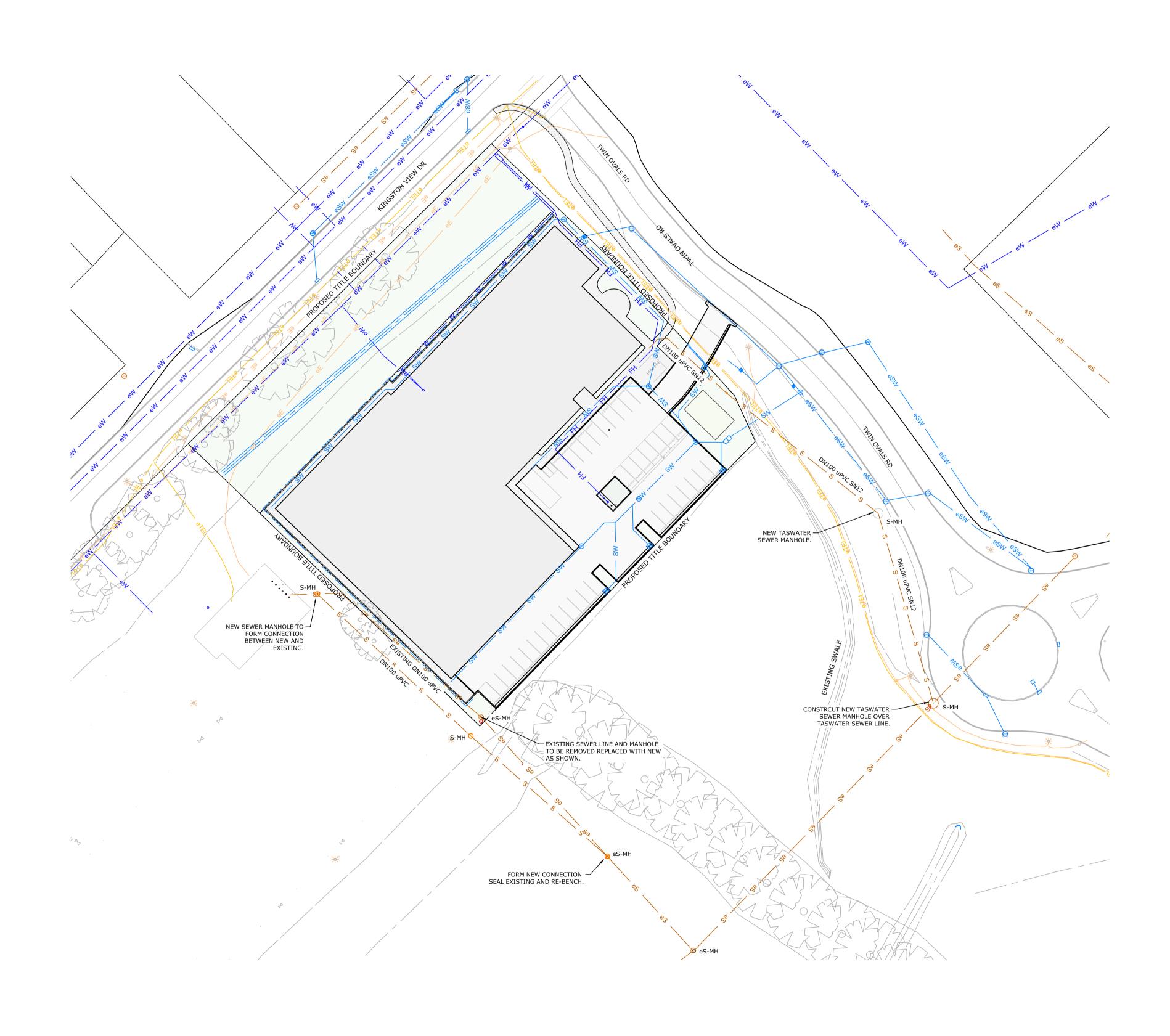
- 2. ON SITE TESTING IS TO BE CARRIED OUT DURING ESTABLISHMENT AND PRIOR TO COMMENCEMENT OF NEW WORKS. PROVIDE LATENT CONDITIONS REPORT TO ENGINEER FOR PRICING. THIS REPORT IS TO IDENTIFY INFRASTRUCTURE UPGRADED WORKS AT FRONT END OF THE PROJECT.
- 3. NO VARIATION WILL BE PAID FOR LATENT PLUMBING CONDITIONS THAT HAVE NOT BEEN IDENTIFIED DURING ON SITE TESTING AND LATENT CONDITIONS REPORT.
- 4. THESE WORKS ARE TO BE INCLUDED IN CONTRACTORS TENDER AS AGREED WITH SUPERINTENDENT.
- 5. LOCATE EXISTING SERVICES WITH CABLE LOCATORS, POT HOLING, SUCTION TRUCK, DIGGING AND UNDERGROUND CCTV CAMERA INSPECTION.
- 6. COMPLIANCE WORKS; CONTRACTORS ARE TO COMPLETE THE FOLLOWING WORKS:
 FLOW TEST ALL INTERNAL AND EXTERNAL FIRE HYDRANTS FOR COMPLIANCE WITH AS2419.1-2005. NOTIFY RESULTS TO ENGINEER FOR APPROVAL.
 FLOW TEST ALL FIRE HOSE REEL FOR COMPLIANCE WITH AS1851.9-2005. NOTIFY RESULTS TO ENGINEER FOR APPROVAL.
 UPGRADE FIRE HOSE REEL AND HYDRANTS TO ACHIEVE COMPLIANCE WITH THESE DRAWINGS. OCCUPANCY AND COMPLETION.
- PRESSURE TEST AND DIE TEST EXISTING SEWER SYSTEM PRIOR TO COMMENCING WORKS AND CHECK FOR LEAKS OR DEFECTS. MAKE GOOD DEFECTIVE AREAS AND PROVIDE CERTIFIED RESULTS TO ENGINEER FOR APPROVAL AS PART OF LATENT CONDITIONS REPORT PREPARED AT FRONT END OF PROJECT. RE-TEST AFTER COMPLETION OF WORKS AND PROVIDE RESULTS PRIOR TO HAND OVER.

Kingborough Council

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OVERAL SCALE 1:500

OVERALL SITE HYDRAULIC SERVICES PLAN

Document Set ID: 4539588 Version: 2, Version Date: 19/11/2024

HATCH LEGEND	
ASPHALT PAVEMENT	
CONCRETE PAVEMENT	
LANDSCAPING	
BUILDING PAD	
SUBSTATION	

LEGEND	
eSW-MH	EXISTING STORMWATER MANHOLE
eS-MH	EXISTING SEWER MANHOLE
eSW-GP	EXISTING STORMWATER GRATED PIT
SW-MH	PROPOSED STORMWATER MANHOLE
S-MH	PROPOSED SEWER MANHOLE
SW-SEP	PROPOSED STORMWATER SIDE ENTRY PIT REFER LGAT STANDARD DRAWINGS "TYPE 3"
КС	PROPOSED KERB AND CHANNEL REFER DETAIL 02 ON DRAWING C40
ВК	PROPOSED BARRIER KERB REFER DETAIL 01 ON DRAWING C40
RW	PROPOSED RETAINING WALL REINFORCED BLOCKWORK TO FUTURE DETAIL
Ю	INSPECTION OPENING
BOL.	BOLLARD REFER DETAIL 03 ON DRAWING C40

LINE TYPE LEGEND

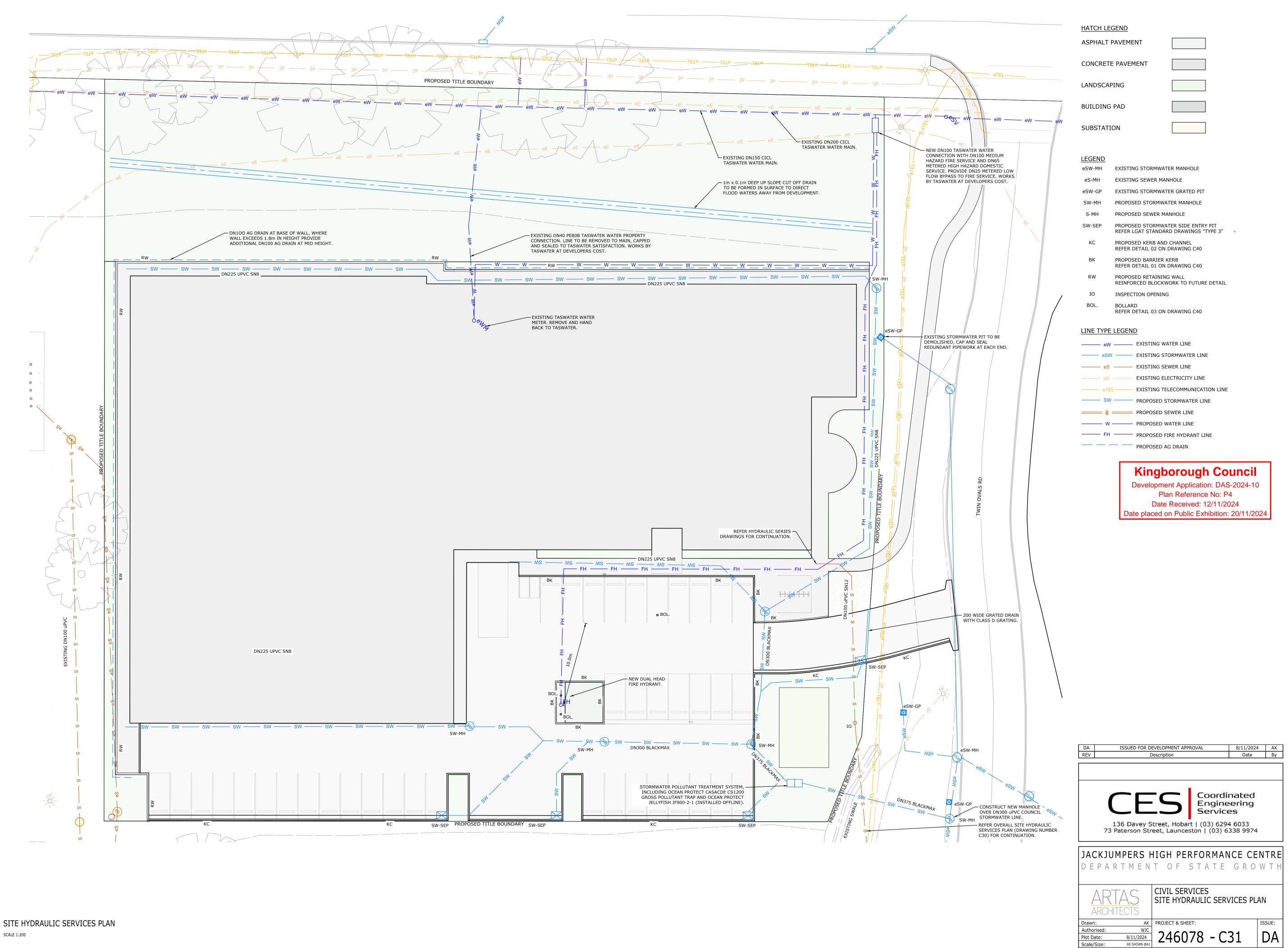
eW	EXISTING WATER LINE
eSW	EXISTING STORMWATER LINE
eS	EXISTING SEWER LINE
eE	EXISTING ELECTRICITY LINE
eTEL	EXISTING TELECOMMUNICATION LINE
SW	PROPOSED STORMWATER LINE
§	PROPOSED SEWER LINE
w	PROPOSED WATER LINE
FH	PROPOSED FIRE HYDRANT LINE
	PROPOSED AG DRAIN

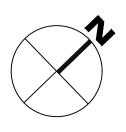
NOTE:

REFER TO DRAWING NUMBER C31 FOR SITE HYDRAULIC SERVICES COMMENTS.



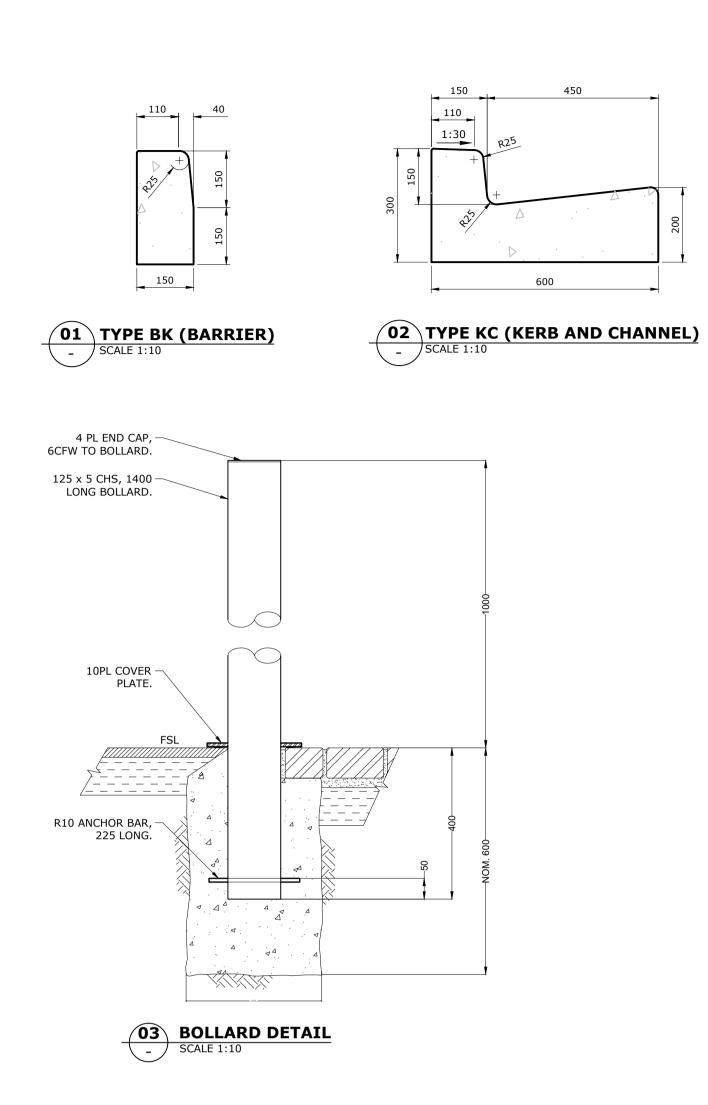
DA	ISSUED FOR DEVELOPMENT APPROVAL		8/11/2024	AK
REV	C	Description	Date	Ву
Coordinated Engineering Services 136 Davey Street, Hobart (03) 6294 6033 73 Paterson Street, Launceston (03) 6338 9974				
JACKJUMPERS HIGH PERFORMANCE CENTRE DEPARTMENT OF STATE GROWTH				
ARTAS ARCHITECTS CIVIL SERVICES OVERALL SITE HYDRAULIC SERVICES PLAN				
Drawr	n: AK	PROJECT & SHEET:		ISSUE:
Autho	rised: WJC			
Plot D	ate: 8/11/2024	246078 - C	JU	DA
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SITE HYDRAULIC SERVICES PLAN

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