

KEYNOTES	
AWN	AWNING - TYPE 1
CON2	CONCRETE - TYPE 2
GUT2	GUTTER - TYPE 2
MRF	METAL ROOF FLASHING
MRS1	METAL ROOF SHEETING - TYPE 1
RW1	RETAINING WALL - TYPE 1
SFAG	SAND-FILLED ARTIFICIAL GRASS
SHD	SHADING ELEMENT
TGSI	TACTILE GROUND SURFACE INDICATOR
VT1	VENT - TYPE 1
VT2	VENT - TYPE 2

SITE PLAN LEGEND	
	PROPOSED TREES & LANDSCAPING UNDER SEPERATE APPROVAL - NOT UNDER DA SCOPE
	XPP EXISTING POWER POLE
	XLP EXISTING LIGHT POLE

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1 SITE PLAN - PROPOSED
0401 SCALE 1 : 300

REV	DATE	DESCRIPTION	BY	CHK
A	10.05.2024	ISSUED FOR COORDINATION	CT	
B	22.05.2024	CONCEPT DESIGN	CT	
C	02.07.2024	FOR CLIENT REVIEW	CT	
D	10.07.2024	FOR CLIENT REVIEW	CT	
E	15.08.2024	ISSUE FOR APPROVAL	CT	

1	10.05.2024	ISSUED FOR COORDINATION	CT	
2	22.05.2024	CONCEPT DESIGN	CT	
3	02.07.2024	FOR CLIENT REVIEW	CT	
4	10.07.2024	FOR CLIENT REVIEW	CT	
5	15.08.2024	ISSUE FOR APPROVAL	CT	

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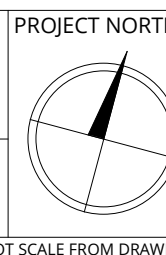
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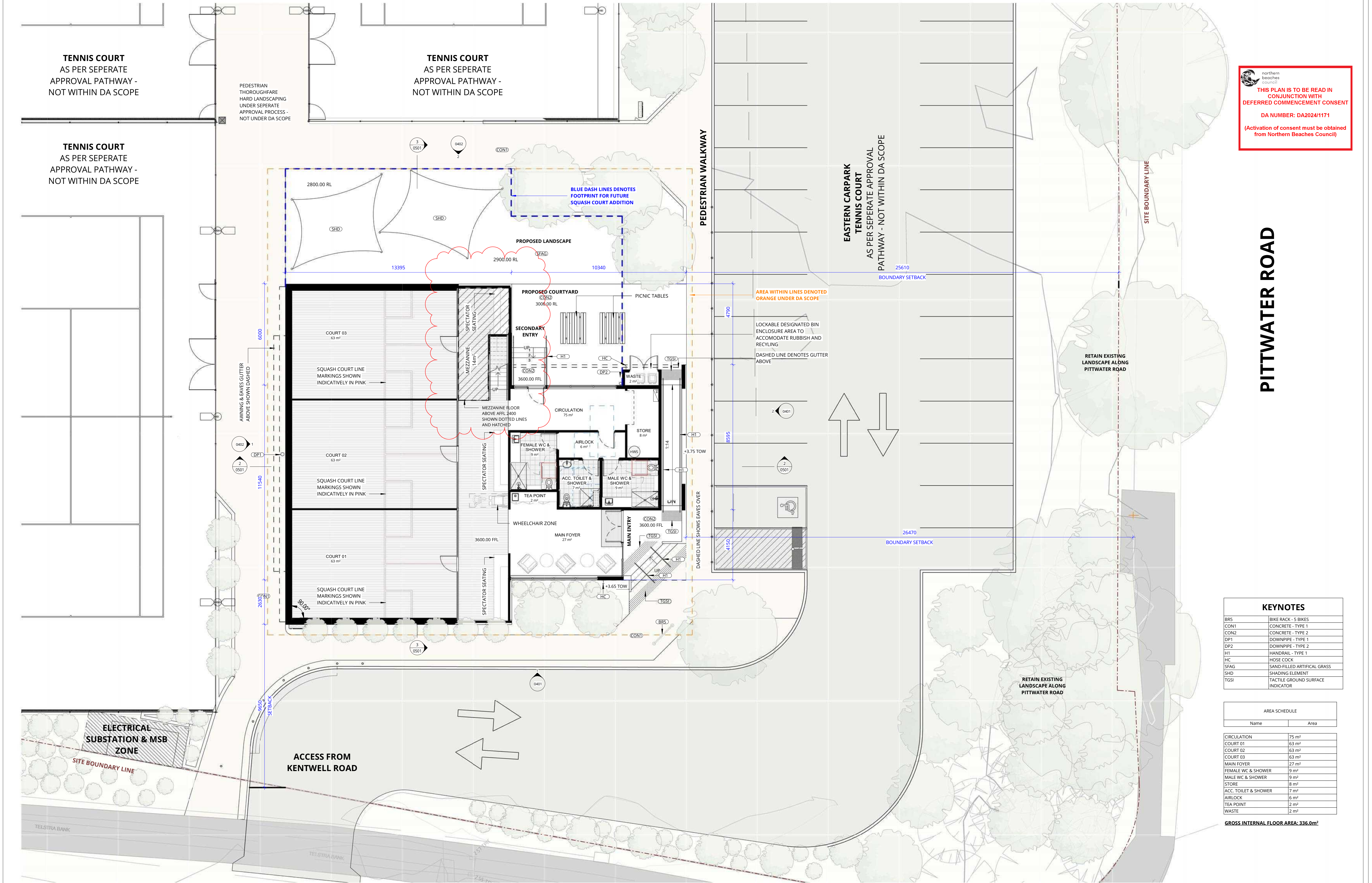


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SITE PLAN - PROPOSED
WARRINGAH RECREATION CENTRE
KENTWELL RD AT PITTWATER RD
NORTH MANLY NSW 2095
Lot 2742 DP 752038
COMMENCEMENT DATE: SEPT 2023
SCALE





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DA NUMBER: DA2024/1171
(Activation of consent must be obtained from Northern Beaches Council)

KEYNOTES	
BRS	BIKE RACK - 5 BIKES
CON1	CONCRETE - TYPE 1
CON2	CONCRETE - TYPE 2
DP1	DOWNPIPE - TYPE 1
DP2	DOWNPIPE - TYPE 2
H1	HANDRAIL - TYPE 1
HC	HOSE COCK
SFAG	SAND-FILLED ARTIFICIAL GRASS
SHD	SHADING ELEMENT
TGSI	TACTILE GROUND SURFACE INDICATOR

AREA SCHEDULE	
Name	Area
CIRCULATION	75 m ²
COURT 01	63 m ²
COURT 02	63 m ²
COURT 03	63 m ²
MAIN FOYER	27 m ²
FEMALE WC & SHOWER	9 m ²
MALE WC & SHOWER	9 m ²
STORE	8 m ²
ACC. TOILET & SHOWER	7 m ²
AIRLOCK	6 m ²
TEA POINT	2 m ²
WASTE	2 m ²

GROSS INTERNAL FLOOR AREA: 336.0m²

REV	DATE	DESCRIPTION	BY	CHK
C	22.05.2024	CONCEPT DESIGN	CT	
D	02.07.2024	FOR CLIENT REVIEW	CT	
E	10.07.2024	FOR CLIENT REVIEW	CT	
F	29.07.2024	FOR CLIENT REVIEW	CT	
G	15.08.2024	ISSUE FOR APPROVAL	CT	
H	30.01.2025	FOR COORDINATION	SP	
I	03.02.2025	DA REF	SP	

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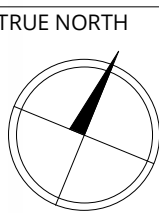
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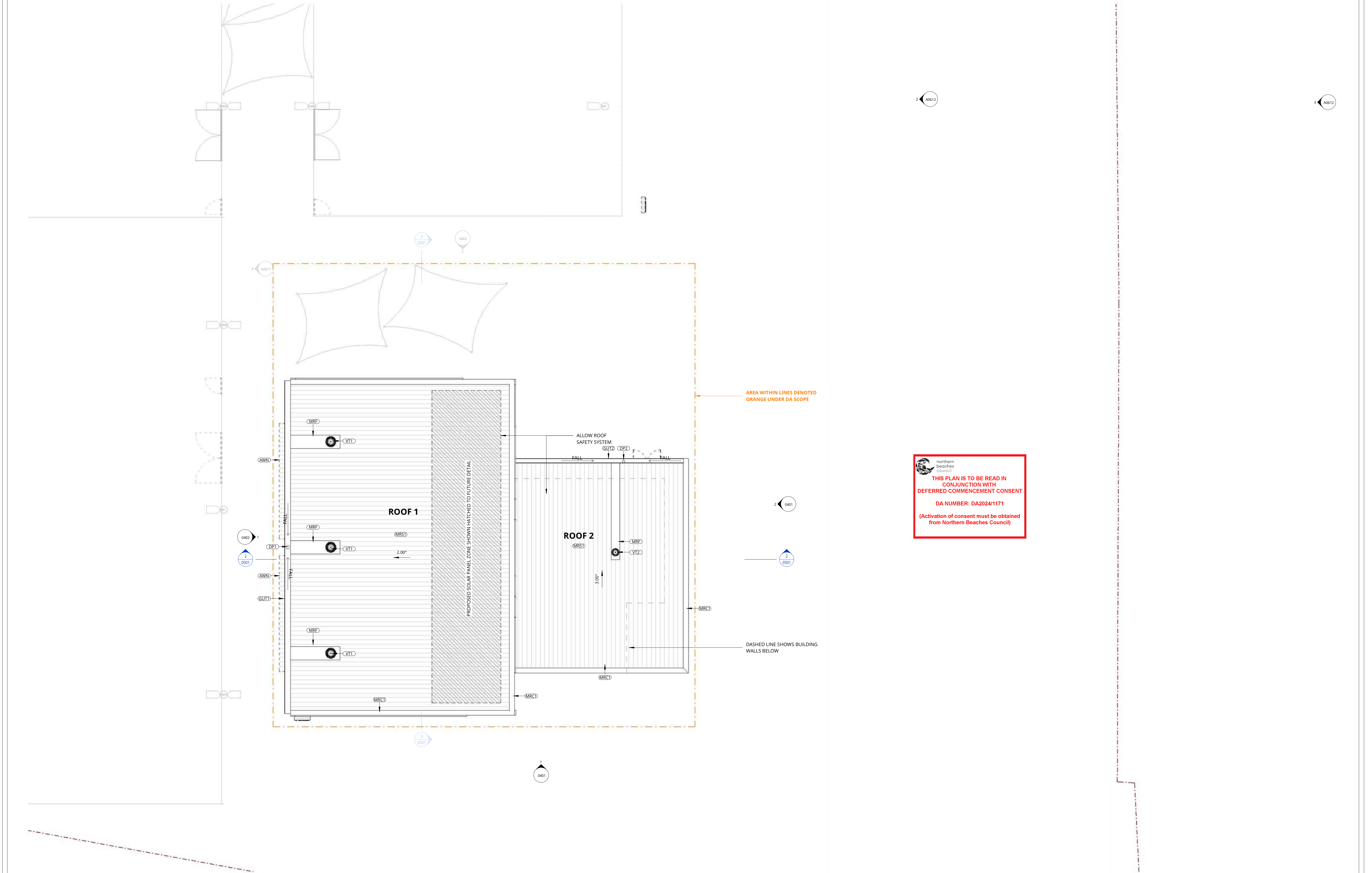
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SHEET NUMBER: 2950 / 0301 / 1

FLOOR PLAN - SQUASH BUILDING
WARRINGAH RECREATION CENTRE
KENTWELL RD AT PITTWATER RD
NORTH MANLY NSW 2095
Lot 2742 DP 752038
COMMENCEMENT DATE: SEPT 2023

SCALE





REV	DATE	DESCRIPTION	BY	CHK
A	02.07.2024	FOR CLIENT REVIEW	CT	
B	10.07.2024	FOR CLIENT REVIEW	CT	
C	15.08.2024	ISSUE FOR APPROVAL	CT	

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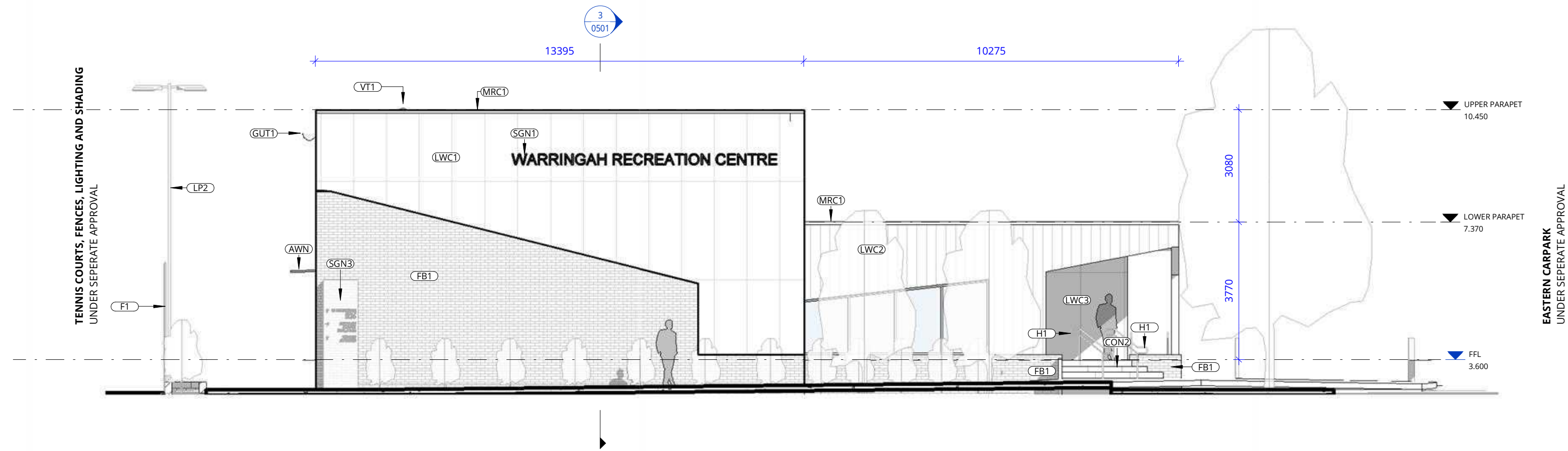
SHEET NUMBER: 2950 / 0330 / C

ROOF PLAN
WARRINGAH RECREATION CENTRE
KENTWELL RD AT FITZWATER RD
NORTH MANLY NSW 2095
Lot 2742 DP 752038

COMMENCEMENT DATE: SEPT 2023

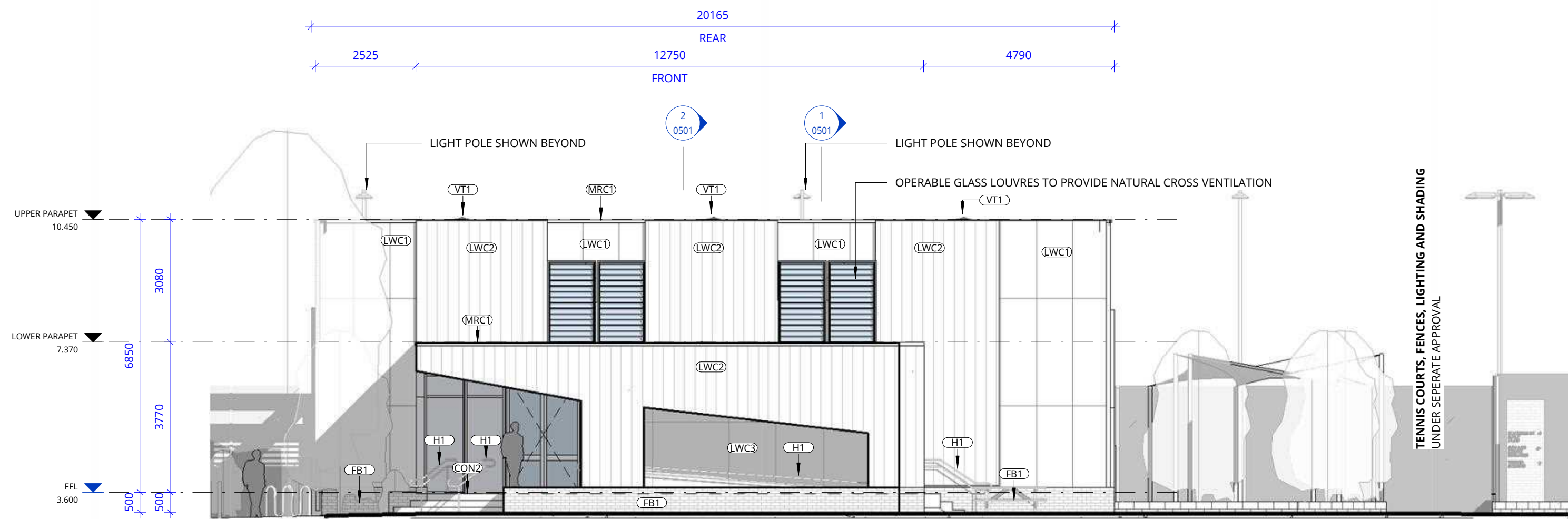
SCALE

KEYNOTES	
AWN	AWNING - TYPE 1
CON2	CONCRETE - TYPE 2
F1	FENCE - TYPE 1
FB1	FACE BRICK - TYPE 1
GUT1	GUTTER - TYPE 1
H1	HANDRAIL - TYPE 1
LP2	LIGHT POLE - TYPE 2
LWC1	LIGHT WEIGHT CLADDING - TYPE 1
LWC2	LIGHT WEIGHT CLADDING - TYPE 2
LWC3	LIGHT WEIGHT CLADDING - TYPE 3
MRC1	METAL ROOF CAPPING - TYPE 1
SGN1	SIGN - TYPE 1
SGN3	SIGN - TYPE 3
VT1	VENT - TYPE 1

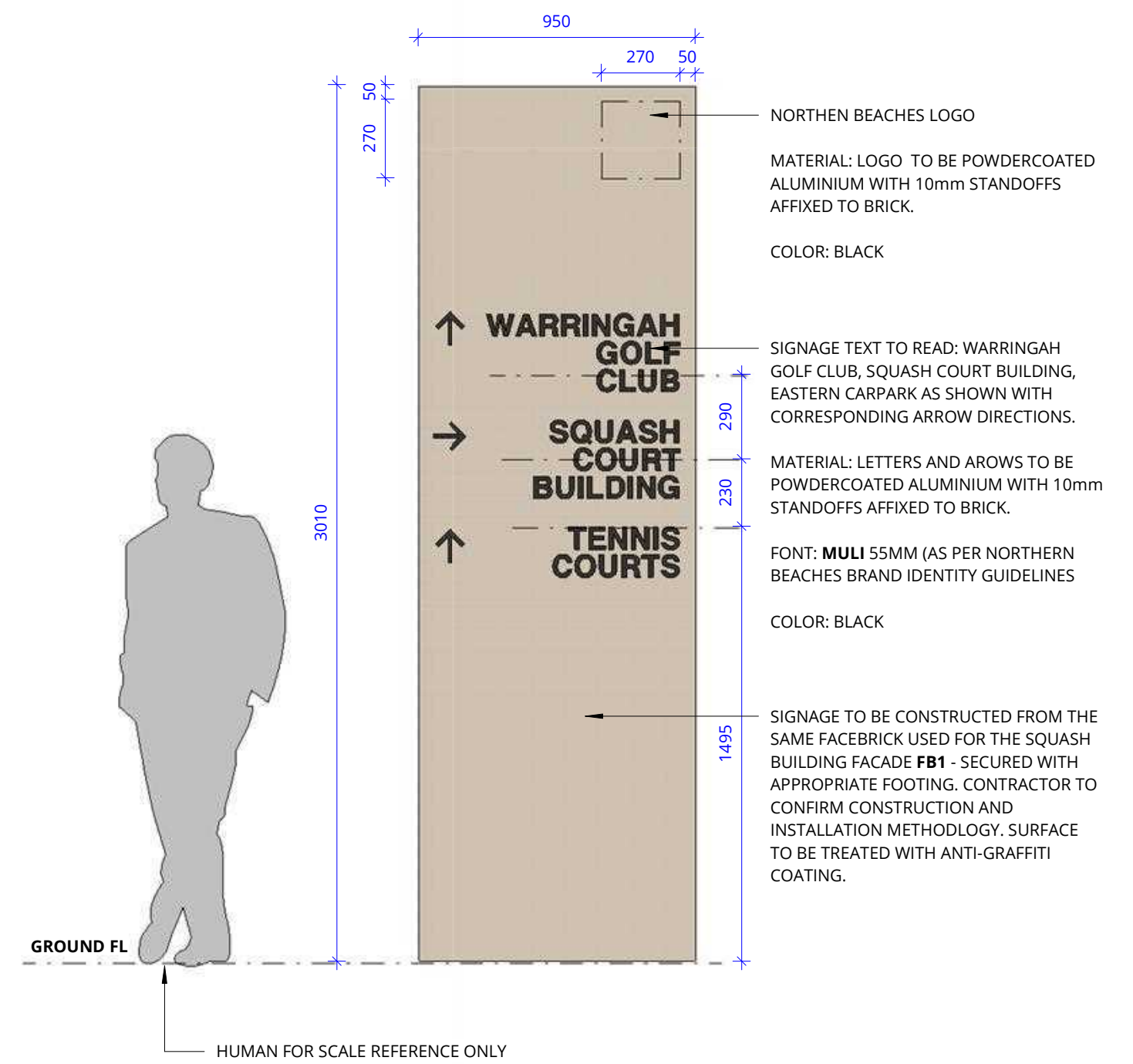


1 ELEVATION - SOUTH
0200b SCALE 1 : 100


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CONJUNCTION WITH
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DA NUMBER: DA2024/1171
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2 ELEVATION - EAST
0200b SCALE 1 : 100



SITE SIGNAGE TYPE 1
CODE: SGN 3
ELEVATION VIEW 1:20

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A	22.05.2024	CONCEPT DESIGN	CT	
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D	15.08.2024	ISSUE FOR APPROVAL	CT	

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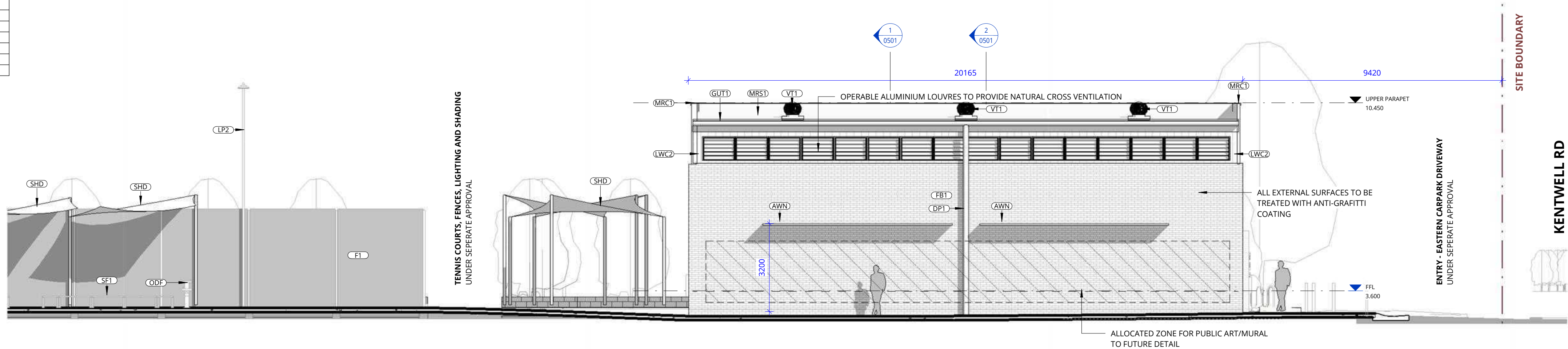
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ELEVATIONS - SHEET 1
WARRINGAH RECREATION CENTRE
KENTWELL RD AT PITWATER RD
NORTH MANLY NSW 2095
Lot 2742 DP 752038
COMMENCEMENT DATE: SEPT 2023

SCALE

KEYNOTES	
AWN	AWNING - TYPE 1
CON1	CONCRETE - TYPE 1
CON2	CONCRETE - TYPE 2
DP1	DOWNPIPE - TYPE 1
DP2	DOWNPIPE - TYPE 2
F1	FENCE - TYPE 1
FB1	FACE BRICK - TYPE 1
GUT1	GUTTER - TYPE 1
GUT2	GUTTER - TYPE 2
H1	HANDRAIL - TYPE 1
LP1	LIGHT POLE - TYPE 1
LP2	LIGHT POLE - TYPE 2
LWC1	LIGHT WEIGHT CLADDING - TYPE 1
LWC2	LIGHT WEIGHT CLADDING - TYPE 2
LWC3	LIGHT WEIGHT CLADDING - TYPE 3
MRC1	METAL ROOF CAPPING - TYPE 1
MRF	METAL ROOF FLASHING
MRS1	METAL ROOF SHEETING - TYPE 1
ODF	OUTDOOR DRINKING FOUNTAIN
SF1	STREET FURNITURE - TYPE 1
SHD	SHADING ELEMENT
VT1	VENT - TYPE 1
VT2	VENT - TYPE 2



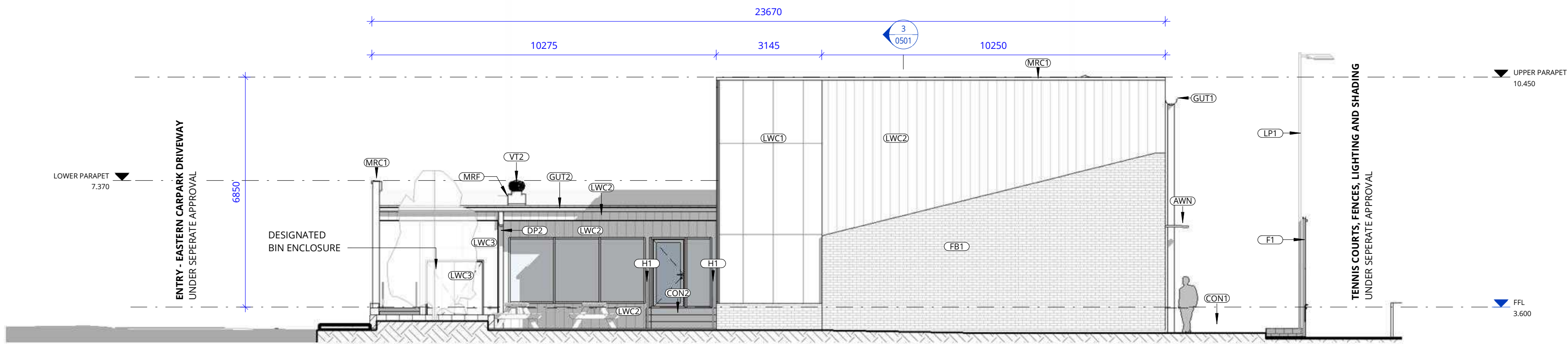
1 ELEVATION - WEST
0200b SCALE 1 : 100

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DA NUMBER: DA2024/1171

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2 ELEVATION - NORTH
0200b SCALE 1 : 100

REV	DATE	DESCRIPTION	BY	CHK
A	22.05.2024	CONCEPT DESIGN	CT	
B	02.07.2024	FOR CLIENT REVIEW	CT	
C	29.07.2024	FOR CLIENT REVIEW	CT	
D	15.08.2024	ISSUE FOR APPROVAL	CT	

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ELEVATIONS - SHEET 2
WARRINGAH RECREATION CENTRE
KENTWELL RD AT PITWATER RD
NORTH MANLY NSW 2095
Lot 2742 DP 752038
COMMENCEMENT DATE: SEPT 2023 SCALE

SHEET NUMBER: 2950 / 0402 / D

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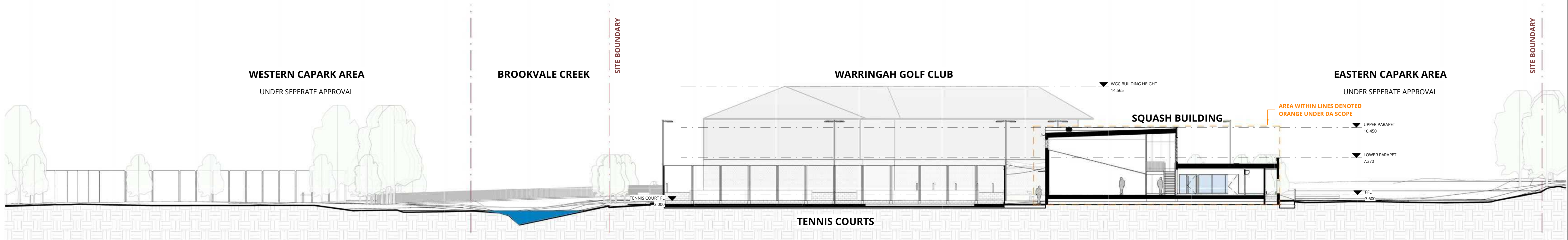
KEYNOTES	
ACW1	ACOUSTIC WALL - TYPE 1
AWN	AWNING - TYPE 1
CON1	CONCRETE - TYPE 1
DP1	DOWNPIPE - TYPE 1
GUT1	GUTTER - TYPE 1
H1	HANDRAIL - TYPE 1
LWC1	LIGHT WEIGHT CLADDING - TYPE 1
MRC1	METAL ROOF CAPPING - TYPE 1
MRS1	METAL ROOF SHEETING - TYPE 1
VT1	VENT - TYPE 1

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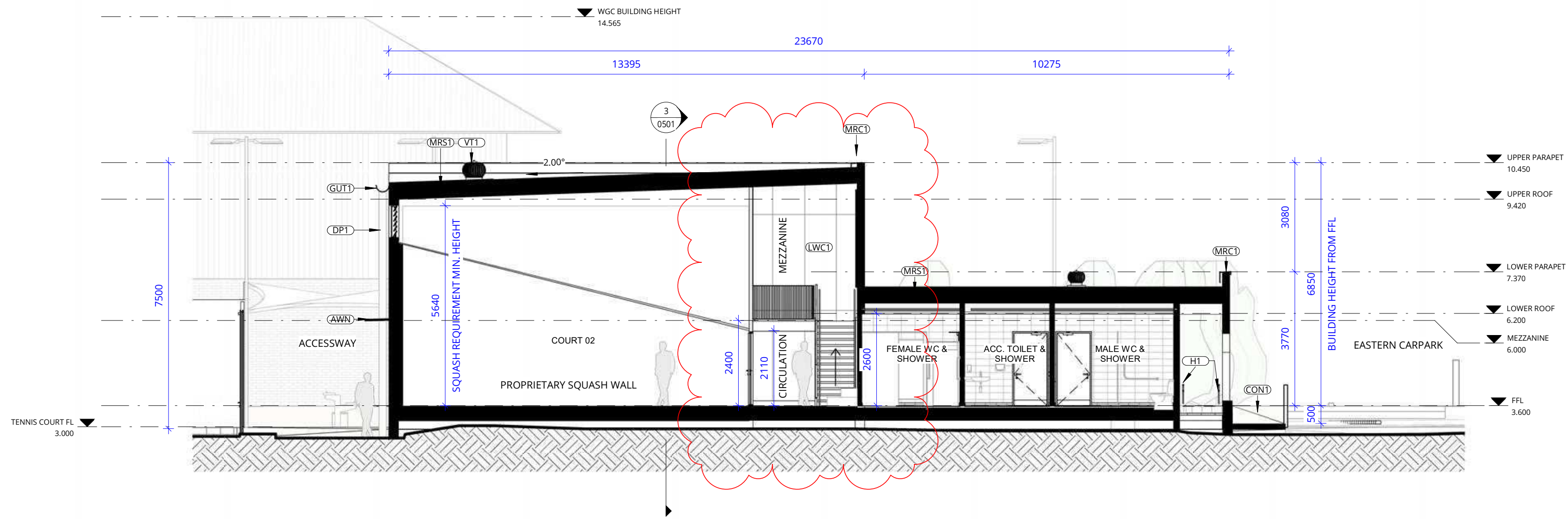
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DA NUMBER: DA2024/1171

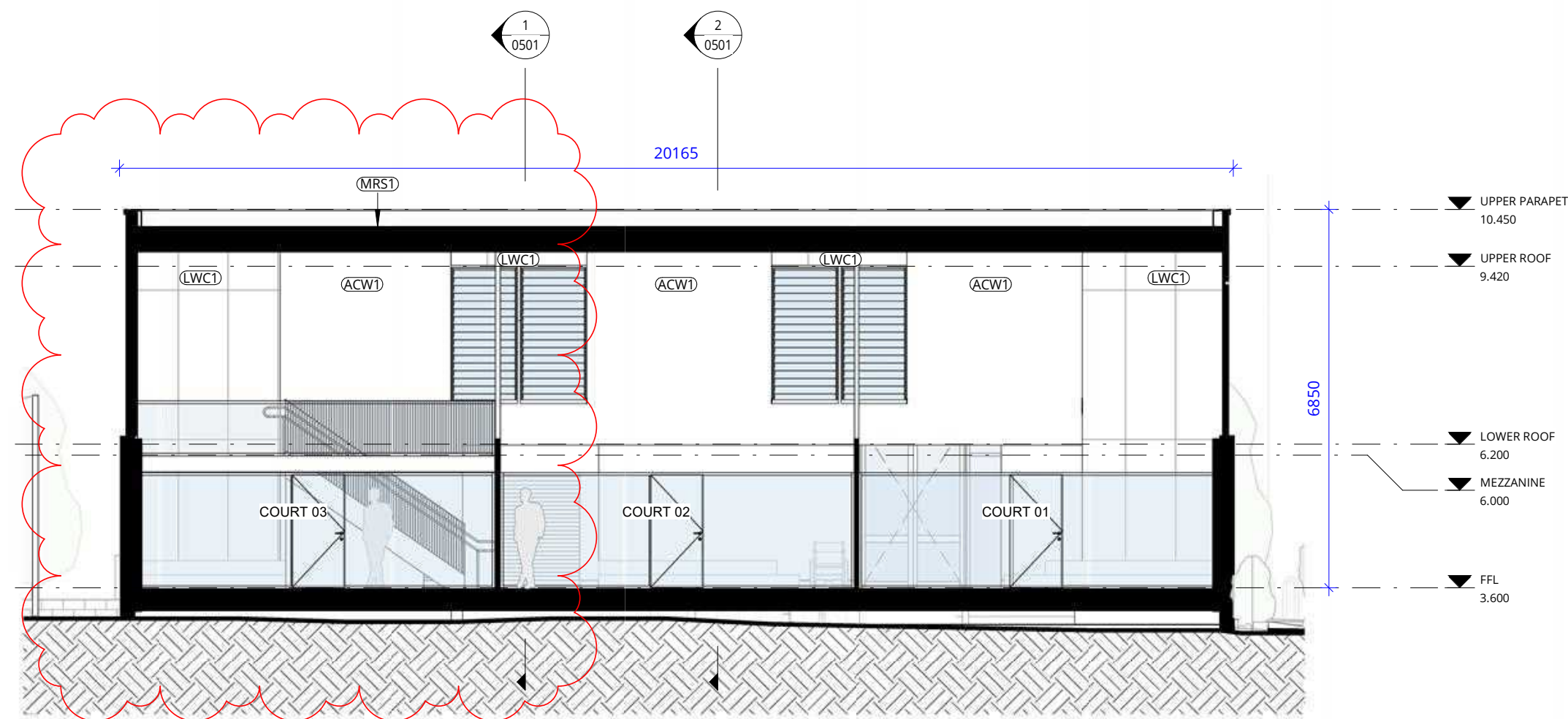
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from Northern Beaches Council)



1 LONG SECTION - SITE FROM KENTWELL
0401 SCALE 1 : 200



2 LONG SECTION - BUILDING
0301 SCALE 1 : 100



3 SHORT SECTION - BUILDING
0301 SCALE 1 : 100

REV	DATE	DESCRIPTION	BY	CHK
A	22.05.2024	CONCEPT DESIGN	CT	
B	02.07.2024	FOR CLIENT REVIEW	CT	
C	29.07.2024	FOR CLIENT REVIEW	CT	
D	15.08.2024	ISSUE FOR APPROVAL	CT	
E	30.01.2025	FOR COORDINATION	SP	
F	03.02.2025	DA BRI	SP	

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SHEET NUMBER: 2950 / 0501 / F

SECTIONS - SHEET 1
WARRINGAH RECREATION CENTRE
KENTWELL RD AT PITWATER RD
NORTH MANLY NSW 2095
Lot 2742 DP 752038
COMMENCEMENT DATE: SEPT 2023
SCALE

PROPOSED EXTERNAL FINISHES PALETTE



FRONT ENTRY SQUASH BUILDING - 3D VISUAL PERSPECTIVE ONLY



WEST FACADE SQUASH BUILDING - 3D VISUAL PERSPECTIVE ONLY



(1) LWC1
POLYCARBONATE
LIGHTWEIGHT PANEL
CLADDING IN SOFTLITE ICE

(2) FB1
LIGHT
COLOURED
FACE BRICK

(3) LWC2
RIBBED
LIGHTWEIGHT
METAL CLADDING
IN SURFMIST

(4)
METAL ELEMENTS:
WINDOW FRAMES,
DOWN PIPES, GUTTERS,
ETC IN SURFMIST

(5)
CLEAR GLAZING

(6) LWC3
CONTRASTING
CLADDING IN
ORANGE

(7) CON2
CONCRETE SLAB

(8) AWN
BRACKETLESS
AWNING SYSTEM
IN SURFMIST



REV	DATE	DESCRIPTION	BY	CHK
A	22.05.2024	CONCEPT DESIGN	CT	
B	02.07.2024	FOR CLIENT REVIEW	CT	
C	10.07.2024	FOR CLIENT REVIEW	CT	
D	29.07.2024	FOR CLIENT REVIEW	CT	
E	15.08.2024	ISSUE FOR APPROVAL	CT	

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MATERIALS PALETTE - SHEET 1
WARRINGAH RECREATION CENTRE
KENTWELL RD AT PITWATER RD
NORTH MANLY NSW 2095
Lot 2742 DP 752038
COMMENCEMENT DATE: SEPT 2023
SCALE

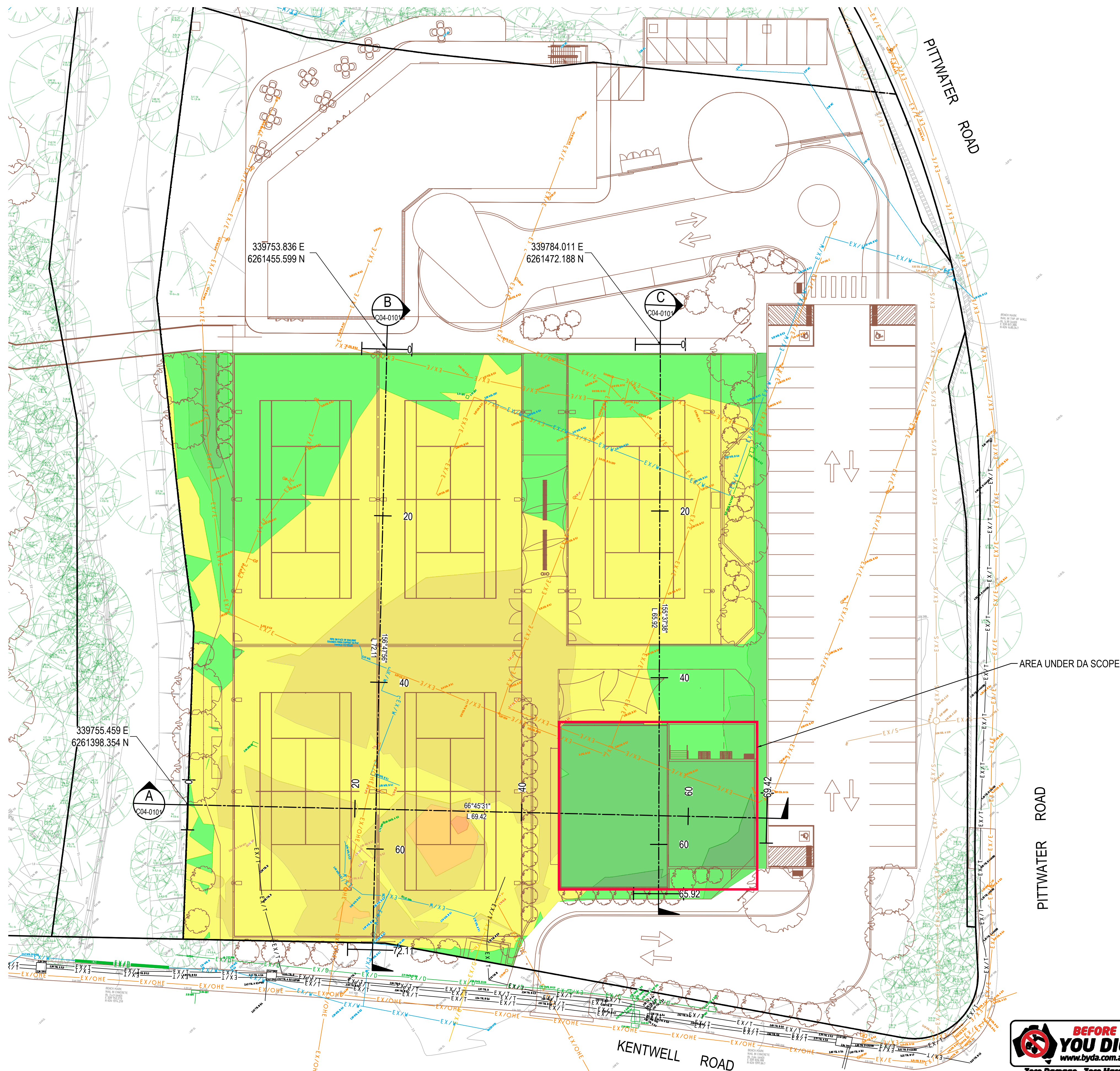
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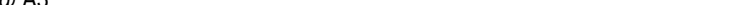
100 YEAR FLOOD LEVEL RL3.2 = 524 CUM (264+165+95)
100 YEAR FLOOD LEVEL RL3.3 = 853 CUM (478+240+135)

CUT / FILL QUANTITIES	
TOTAL CUT (FROM EXISTING TO FINISH LEVEL)	-616m³ ACHIEVED COMPENSATORY CUT
TOTAL FILL (FROM EXISTING TO FINISH LEVEL)	488m³
CUT/FILL BALANCE	128m³ (CUT)

CUT	FILL
-8.00 to -6.50 m	0.00 to 0.25 m
-6.50 to -5.00 m	0.25 to 0.50 m
-5.00 to -4.00 m	0.50 to 0.75 m
-4.00 to -3.00 m	0.75 to 1.00 m
-3.00 to -2.50 m	1.00 to 1.50 m
-2.50 to -2.00 m	1.50 to 2.00 m
-2.00 to -1.50 m	2.00 to 2.50 m
-1.50 to -1.00 m	2.50 to 3.00 m
-1.00 to -0.75 m	3.00 to 4.00 m
-0.75 to -0.50 m	4.00 to 5.00 m
-0.50 to -0.25 m	5.00 to 6.50 m
-0.25 to 0.00 m	6.50 to 8.00 m

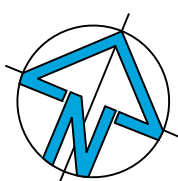


SCALE 1:250 @ A1
SCALE 1:500 @ A3



A horizontal graphic scale bar with alternating black and white segments. Numerical labels are placed above the bar at intervals of 2.5 units, starting from 0 and ending at 25. The unit is specified as 'metres' at the far right end.

B	ISSUE FOR DA		30.07.24	JK	GL
A	ISSUE FOR 30% DESIGN		10.07.24	DW	RT
Issue	Description	Date	Drawn	Approved	



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Project
WARRINGAH RECREATION CENTRE

KENTWELL RD AT PITTWATER RD, NORTH MANLY
Lot 2742 DP 752038

NOT FOR CONSTRUCTION

Drawing Title
CIVIL SERVICES
BULK EARTHWORKS PLAN

Drawn DW	Designed DV	Q.A. Check GL	Date 30.07.24	Scale @ A1 1:250
Project No. NA240429	Drawing No. C04-0001			Issue B



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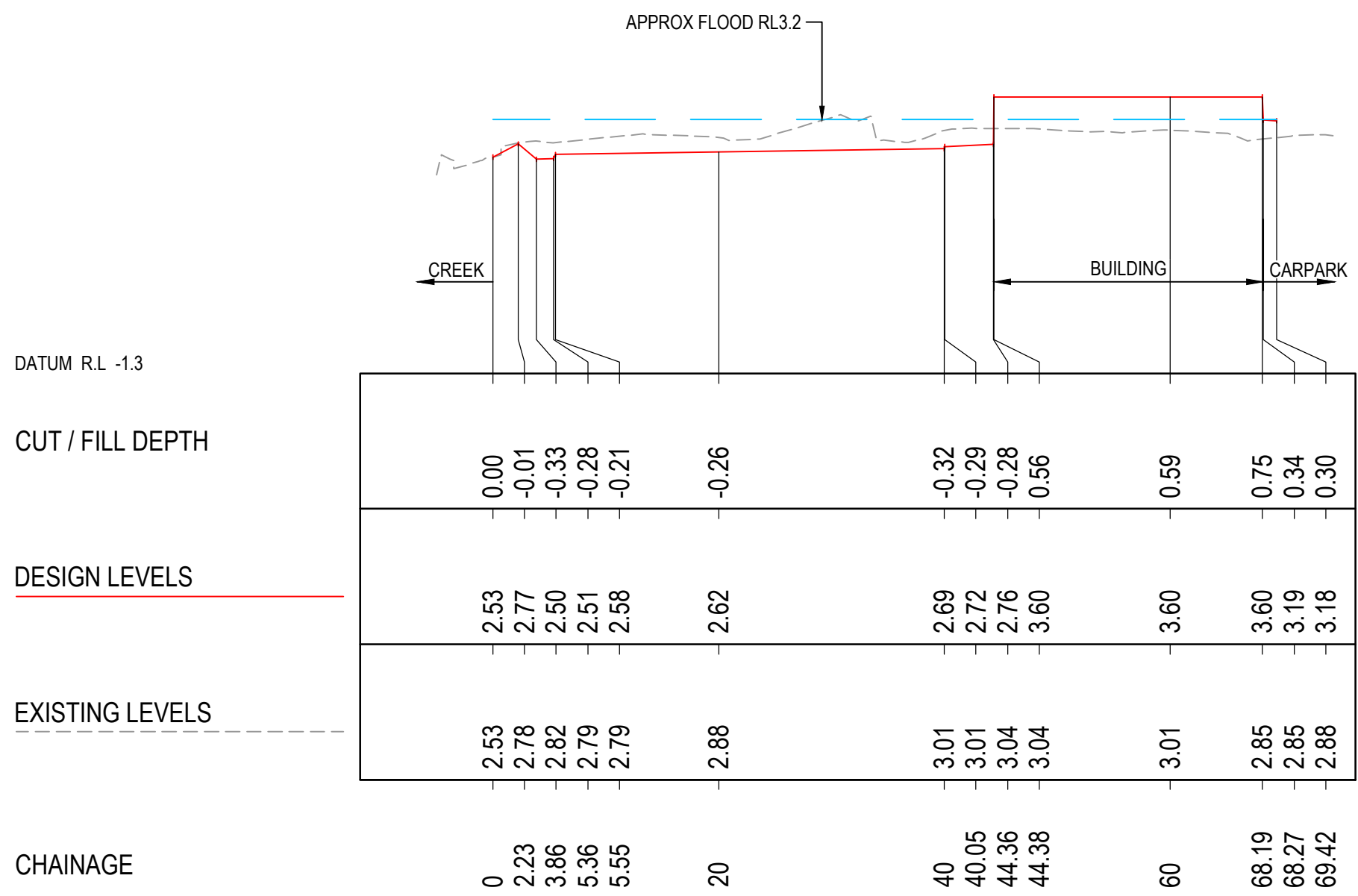
Jul 30, 2024 - 2:45pm
 (SYDPROJ11\Projects\NA24\NA240429\Drawings\CAD\CIV\Drawings\NA240429-004-0001.dwg

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DA NUMBER: DA2024/1171

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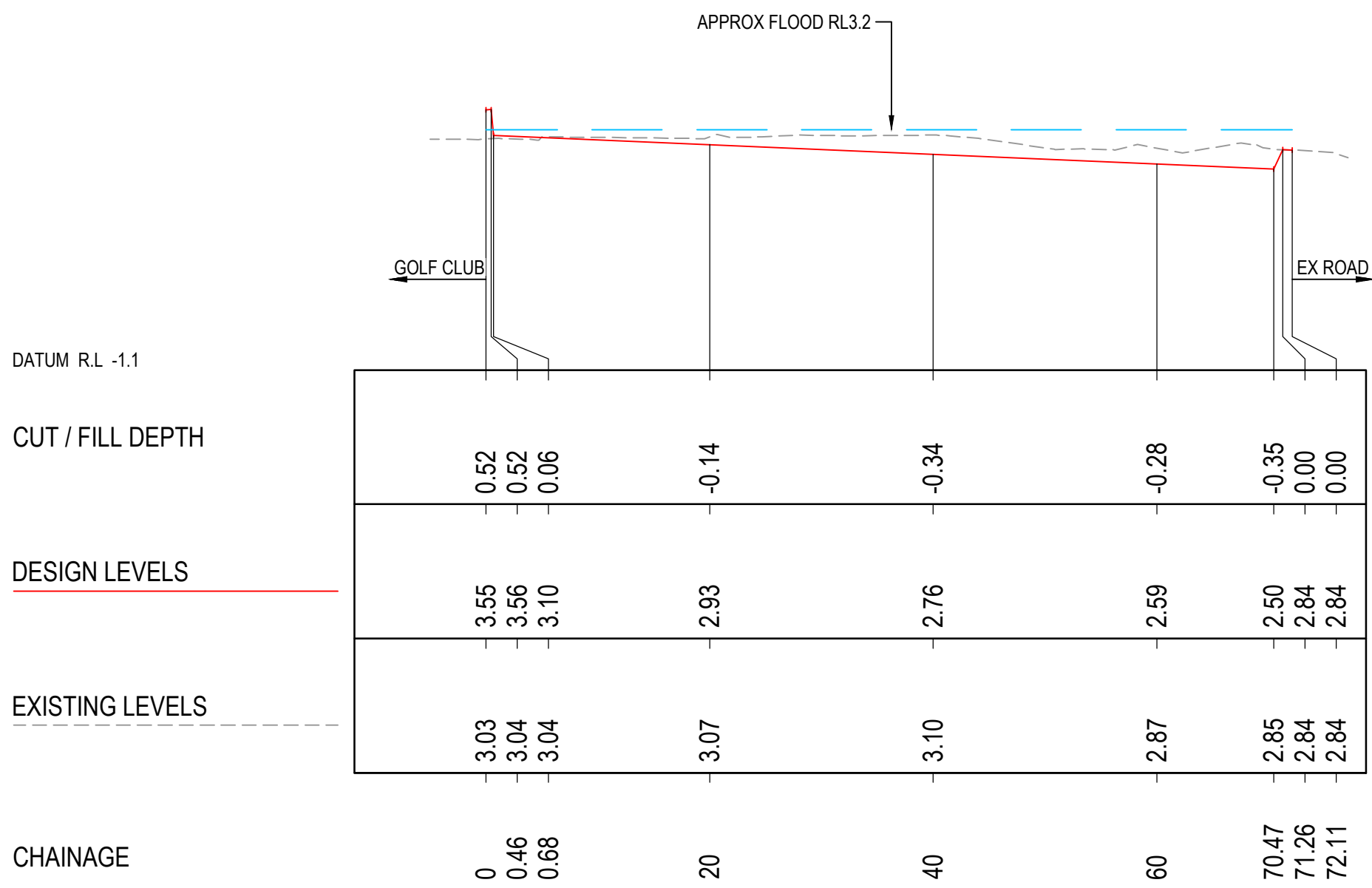


SITE SECTION - SECTION A

A1 Horizontal Scale 1 : 500
A1 Vertical scale 1 : 100

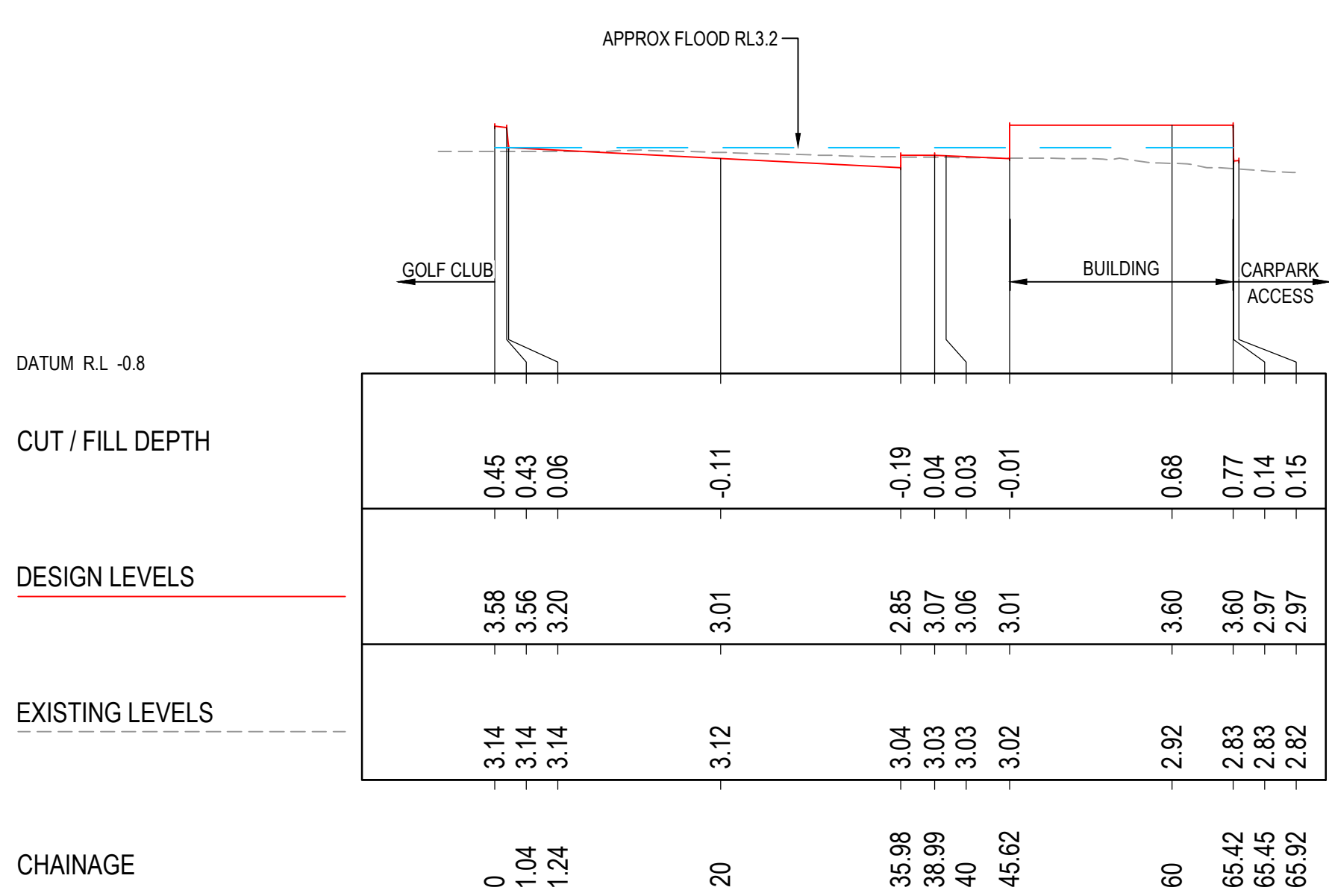
SCALE 1:100 @ A1
SCALE 1:200 @ A3
SCALE 1:500 @ A1
SCALE 1:1000 @ A3

0 1 2 4 6 8 10 metres
0 5 10 20 30 40 50 metres



SITE SECTION - SECTION B

A1 Horizontal Scale 1 : 500
A1 Vertical scale 1 : 100



SITE SECTION - SECTION C

A1 Horizontal Scale 1 : 500
A1 Vertical scale 1 : 100



Issue	Description	Date	Drawn	Approved
B	ISSUE FOR DA	30.07.24	JK	GL
A	ISSUE FOR 30% DESIGN	10.07.24	DW	RT

North

Scale

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Project
WARRINGAH RECREATION CENTRE
KENTWELL RD AT PITTWATER RD, NORTH MANLY
Lot 2742 DP 752038

Drawing Title CIVIL SERVICES BULK EARTHWORKS SECTIONS				
Drawn DW	Designed DV	O.A. Check GL	Date 30.07.24	Scale @ A1 AS SHOWN
Project No. NA240429	Drawing No. C04-0101	Issue B		

EXISTING SERVICES LEGEND

EX/S

EX/S

EXISTING SEWER

EX/G

EX/G

EXISTING GAS

EX/E

EX/E

EX/OHE

EX/OHE

EX/D

EX/D

EX/C

EX/C

EX/T

EX/T

EX/W

EX/W

1.48 MH

1.48 MH

3.54 SP

3.54 SP

2.76 GM

2.76 GM

3.11 EPIT

3.11 EPIT

EOH

EOH

LP

LP

PP

PP

3.07 GRN

3.07 GRN

1.55 SWMH

1.55 SWMH

2.06 GRT

2.06 GRT

1.84 PIT

1.84 PIT

2.65 TPIT

2.65 TPIT

2.76 WM

2.76 WM

3.37 WV

3.37 WV

2.12 TAP

2.12 TAP

2.53 HYD

2.53 HYD

2.32 SVA

2.32 SVA

CIVIL LEGEND

FALL

FALL

INDICATIVE DIRECTION OF FALL

FFL 3.6

FFL 3.6

P2.8

P2.8

GD1

GD1

A3

A3

RW1

RW1

SOIL EROSION AND SEDIMENT CONTROL LEGEND

/

/

SEDIMENT FENCE

northern beaches council

THIS PLAN IS TO BE READ IN CONJUNCTION WITH DEFERRED COMMENCEMENT CONSENT

DA NUMBER: DA2024/1171

(Activation of consent must be obtained from Northern Beaches Council)



GENERAL NOTES

1.

THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND STRUCTURAL CONSULTANTS DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED.
2.

ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFF-SITE WORK SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION
3.

DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE DRAWINGS.
4.

ALL DIMENSIONS ON DETAILS ARE IN MILLIMETRES UNLESS STATED OTHERWISE. ALL PLANS AND LEVELS ARE EXPRESSED IN METRES.
5.

DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STRUCTURAL STABILITY OF THE WORKS AND ENSURE NO PARTS BE OVER STRESSED UNDER CONSTRUCTION ACTIVITIES.
6.

WORKMANSHIP AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE RELEVANT CURRENT S.A.A. CODES INCLUDING ALL AMENDMENTS, AND THE LOCAL STATUTORY AUTHORITIES, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
7.

THE APPROVAL OF A SUBSTITUTION SHALL BE SOUGHT FROM ACOR CONSULTANTS / PRINCIPAL'S REPRESENTATIVE BUT IS NOT AN AUTHORISATION FOR A VARIATION. ANY VARIATIONS INVOLVED MUST BE TAKEN UP WITH ACOR CONSULTANTS / PRINCIPAL'S REPRESENTATIVE BEFORE THE WORK COMMENCES.
8.

ANY DISCREPANCIES OR OMISSIONS SHALL BE REFERRED TO THE ENGINEER FOR A DECISION BEFORE PROCEEDING WITH THE WORK.
9.

THE CONTRACTOR SHALL GIVE 48 HOURS NOTICE FOR ALL ENGINEERING INSPECTIONS. ALL INSPECTIONS AND CERTIFICATIONS TO BE INCLUDED IN CONTRACTORS COST.
10.

BUILDING FROM THESE DRAWINGS IS NOT TO COMMENCE UNTIL APPROVED BY THE PRINCIPAL CERTIFYING AUTHORITY.
11.

THE WORD 'ENGINEER' USED IN THESE NOTES REFER TO AN EMPLOYEE OR NOMINATED REPRESENTATIVE OF **ACOR CONSULTANTS PTY LTD.**
12.

ALL CONSTRUCTION ACTIVITIES SHALL COMPLY WITH THE RELEVANT CURRENT WORKPLACE HEALTH AND SAFETY LEGISLATION.

EXISTING SERVICES AND FEATURES

1.

THE CONTRACTOR SHALL ALLOW FOR THE CAPPING OFF, EXCAVATION, REMOVAL AND DISPOSAL IF REQUIRED OF ALL EXISTING SERVICES IN AREAS AFFECTED BY WORKS WITHIN THE CONTRACT AREA, AS SHOWN ON THE DRAWINGS UNLESS DIRECTED OTHERWISE BY THE PRINCIPAL'S REPRESENTATIVE.
2.

THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES SERVICES TO ALL BUILDINGS NOT AFFECTED BY THE WORKS ARE NOT DISRUPTED.
3.

PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL GAIN WRITTEN APPROVAL OF THEIR PROGRAMME FOR THE RELOCATION/CONSTRUCTION OF TEMPORARY SERVICES.
4.

EXISTING BUILDINGS, EXTERNAL STRUCTURES, AND TREES SHOWN ON THESE DRAWINGS ARE FEATURES EXISTING PRIOR TO ANY DEMOLITION WORKS.
5.

CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN EXISTING SUPPLY TO BUILDINGS REMAINING IN OPERATION DURING WORKS TO THE SATISFACTION AND APPROVAL OF THE PRINCIPAL'S REPRESENTATIVE. ONCE DIVERSION IS COMPLETE AND COMMISSIONED THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD TO THE SATISFACTION OF THE PRINCIPAL'S REPRESENTATIVE.
6.

INTERRUPTION TO SUPPLY OF EXISTING SERVICES SHALL BE DONE SO AS NOT TO CAUSE ANY INCONVENIENCE TO THE PRINCIPAL. CONTRACTOR TO GAIN APPROVAL OF PRINCIPAL'S REPRESENTATIVE FOR TIME OF INTERRUPTION.

SITEWORKS NOTES

1.

ORIGIN OF LEVELS :- AUSTRALIAN HEIGHT DATUM (A.H.D.)
2.

CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK.
3.

ALL WORK IS TO BE UNDERTAKEN IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS, THE SPECIFICATIONS AND THE DIRECTIONS OF THE PRINCIPAL'S REPRESENTATIVE.
4.

EXISTING SERVICES HAVE BEEN PLOTTED FROM SUPPLIED DATA AND AS SUCH THEIR ACCURACY CANNOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE PRINCIPAL'S REPRESENTATIVE. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY.
5.

WHERE NEW WORKS ABOUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS OBTAINED.
6.

THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A REGISTERED SURVEYOR.
7.

CARE IS TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATIONS ARE TO BE UNDERTAKEN OVER COMMUNICATIONS OR ELECTRICAL SERVICES. HAND EXCAVATE IN THESE AREAS.
8.

ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH AN APPROVED NON-NATURAL GRANULAR MATERIAL AND COMPACTED TO 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS.1289.5.1.1.
9.

ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
10.

ON COMPLETION OF PIPE INSTALLATION ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AND GRASSED AREAS AND ROAD PAVEMENTS.
11.

PROVIDE 10mm WIDE EXPANDING CORK JOINTS BETWEEN CONCRETE PAVEMENTS AND ALL BUILDINGS , WALLS, FOOTINGS, COLUMNS, KERBS, DISH DRAINS, GRATED DRAINS, BOLLARD FOOTINGS ETC
12.

CONTRACTOR TO OBTAIN ALL AUTHORITY APPROVALS.
13.

ALL BATTERS TO BE GRASSED LINED WITH MINIMUM 100 TOPSOIL AND APPROVED COUCH LAID AS TURF.
14.

MAKE SMOOTH TRANSITION TO EXISTING SERVICES AND MAKE GOOD.
15.

THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY DIVERSION DRAINS AND MOUNDS TO ENSURE THAT AT ALL TIMES EXPOSED SURFACES ARE FREE DRAINING AND WHERE NECESSARY EXCAVATE SUMPS AND PROVIDE PUMPING EQUIPMENT TO DRAIN EXPOSED AREAS.
16.

THESE PLANS SHALL BE READ IN CONJUNCTION WITH APPROVED ARCHITECTURAL, STRUCTURAL, HYDRAULIC AND ELECTRICAL DRAWINGS AND SPECIFICATIONS.
17.

TRENCHES THROUGH EXISTING ROAD AND CONCRETE PAVEMENTS SHALL BE SAWCUT TO FULL DEPTH OF CONCRETE AND A MIN 50mm IN BITUMINOUS PAVING.
18.

ALL BRANCH GAS AND WATER SERVICES UNDER DRIVEWAYS AND BRICK PAVING SHALL BE LOCATED IN Ø80 uPVC SEWER GRADE CONDUITS EXTENDING A MIN OF 500mm PAST PAVING.
19.

ON COMPLETION OF WORKS ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL INCLUDING, BUT NOT LIMITED TO, KERBS, FOOTPATHS, CONCRETE AREAS, GRASS AND LANDSCAPED AREAS.

COMPACTION NOTES

1.

STRIP TOPSOIL TO EXPOSE NATURALLY OCCURRING MATERIAL AND STOCKPILE ON SITE FOR SELECTIVE RE-USE OR DISPOSE OFF-SITE AS DIRECTED BY THE SUPERINTENDENT.
2.

UNCONTROLLED FILLING IS TO BE REMOVED FROM THE FOOTPRINT OF THE BUILDING AND PAVEMENT AREAS, THE STRIPPED SURFACE SHALL BE INSPECTED BY A GEOTECHNICAL ENGINEER.
3.

PROOF ROLL EXPOSED NATURAL SURFACE WITH A MINIMUM OF EIGHT PASSES OF A SMOOTH DRUM ROLLER (MINIMUM STATIC WEIGHT OF 10 TONNES) THE FINAL PASS SHALL BE IN THE PRESENCE OF A GEOTECHNICAL ENGINEER.
4.

ALL SOFT, WET OR UNSUITABLE MATERIAL TO BE REMOVED AS DIRECTED BY THE GEOTECHNICAL ENGINEER AND REPLACED WITH APPROVED MATERIAL SATISFYING THE REQUIREMENTS LISTED BELOW.
5.

WASTE CLASSIFICATION OF SPOIL MATERIAL, INCLUDING PROVISION OF APPROPRIATE HAZARDOUS MATERIALS HANDLING (AS REQUIRED) IS THE RESPONSIBILITY OF THE CONTRACTOR PRIOR TO UNDERTAKING THE EXCAVATION WORKS.
6.

ALL FILL MATERIAL SHALL BE FROM A SOURCE APPROVED BY THE GEOTECHNICAL ENGINEER AND SHALL COMPLY WITH THE FOLLOWING :

LOCATION

STANDARD DRY DENSITY

UNDER BUILDING SLABS

98%

AREAS OF SERVICE TRENCHES

98%

EXTERNAL PAVED AREAS, ROADS AND CARPARKS

98%

LANDSCAPED AREAS

90%
8.

ALL FILL MATERIAL SHALL BE PLACED IN MAXIMUM 200MM THICK LAYERS AND COMPACTED AT OPTIMUM MOISTURE CONTENT (+ OR - 2%) TO ACHIEVE A DRY DENSITY DETERMINED IN ACCORDANCE WITH AS 1289 5.3.1 OF NOT LESS THAN THE FOLLOWING STANDARD MINIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.1.1 :

LOCATION

STANDARD DRY DENSITY

UNDER BUILDING SLABS

100%

PAVEMENTS AND CARPARKS

100%

9.

THE CONTRACTOR SHALL PROGRAM THE EARTHWORKS OPERATION SO THAT THE WORKING AREAS ARE ADEQUATELY DRAINED DURING THE PERIOD OF CONSTRUCTION. THE SURFACE SHALL BE GRADED AND SEALED OFF TO REMOVE DEPRESSIONS, ROLLER MARKS AND SIMILAR WHICH WOULD ALLOW WATER TO POND AND PENETRATE THE UNDERLYING MATERIAL. ANY DAMAGE RESULTING FROM THE CONTRACTOR NOT OBSERVING THESE REQUIREMENTS SHALL BE RECTIFIED BY THE CONTRACTOR AT THEIR COST.
10.

TESTING OF THE SUBGRADE SHALL BE CARRIED OUT BY AN APPROVED NATA REGISTERED LABORATORY AT THE CONTRACTORS EXPENSE. TESTING FREQUENCY SHALL BE IN ACCORDANCE WITH THE FREQUENCY SPECIFIED IN THE GEOTECHNICAL REPORT - FOR EARTHWORKS 1 TEST / 1000m² / LAYER OR THREE TESTS PER VISIT, WHICHEVER IS THE GREATER

STORMWATER NOTES

1.

ALL 375 DIA. DRAINAGE PIPES AND LARGER SHALL BE CLASS "2" APPROVED SPIGOT AND SOCKET FRC OR RCP PIPES WITH RUBBER RING JOINTS. (U.N.O.) ALL DOWNPIPE DRAINAGE LINES SHALL BE SEWER GRADE uPVC WITH SOLVENT WELD JOINTS. (U.N.O.)
2.

EQUIVALENT STRENGTH REINFORCED CONCRETE PIPES MAY BE USED.
3.

ALL PIPE JUNCTIONS UP TO AND INCLUDING 450 DIA. AND TAPERS SHALL BE VIA PURPOSE MADE FITTINGS.
4.

MINIMUM GRADE TO STORMWATER LINES TO BE 1%. (U.N.O.)
5.

CONTRACTOR TO SUPPLY AND INSTALL ALL FITTINGS AND SPECIALS INCLUDING VARIOUS PIPE ADAPTORS TO ENSURE PROPER CONNECTION BETWEEN DISSIMILAR PIPEWORK.
6.

ALL CONNECTIONS TO EXISTING DRAINAGE PITS SHALL BE MADE IN A TRADESMAN-LIKE MANNER AND THE INTERNAL WALL OF THE PIT AT THE POINT OF ENTRY SHALL BE CEMENT RENDERED TO ENSURE A SMOOTH FINISH.
7.

PRECAST PITS SHALL NOT BE USED UNLESS WRITTEN APPROVAL IS OBTAINED FROM THE ENGINEER.
8.

WHERE TRENCHES ARE IN ROCK, THE PIPE SHALL BE BEDDED ON A MIN. 50MM CONCRETE BED (OR 75MM THICK BED OF 12MM BLUE METAL) UNDER THE BARREL OF THE PIPE. THE PIPE COLLAR AT NO POINT SHALL BEAR ON THE ROCK. IN OTHER THAN ROCK, PIPES SHALL BE LAID ON A 75MM THICK SAND BED. IN ALL CASES BACKFILL THE TRENCH WITH SAND TO 200MM ABOVE THE PIPE. WHERE THE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH WITH SAND OR APPROVED GRANULAR BACKFILL COMPACTED IN 150MM LAYERS TO 98% STANDARD MAX. DRY DENSITY.
9.

BEDDING SHALL BE (U.N.O.) TYPE HS2, IN ACCORDANCE WITH CURRENT RELEVANT AUSTRALIAN STANDARDS.
10.

WHERE STORMWATER LINES PASS UNDER FLOOR SLABS SEWER GRADE RUBBER RING JOINTS ARE TO BE USED.
11.

WHERE SUBSOIL DRAINAGE LINES PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS UNSLOTTED UPVC SEWER GRADE PIPE SHALL BE USED.
12.

PROVIDE 3.0M LENGTH OF 100 DIA. SUBSOIL DRAINAGE PIPE WRAPPED IN FABRIC SOCK, AT UPSTREAM END OF EACH PIT.

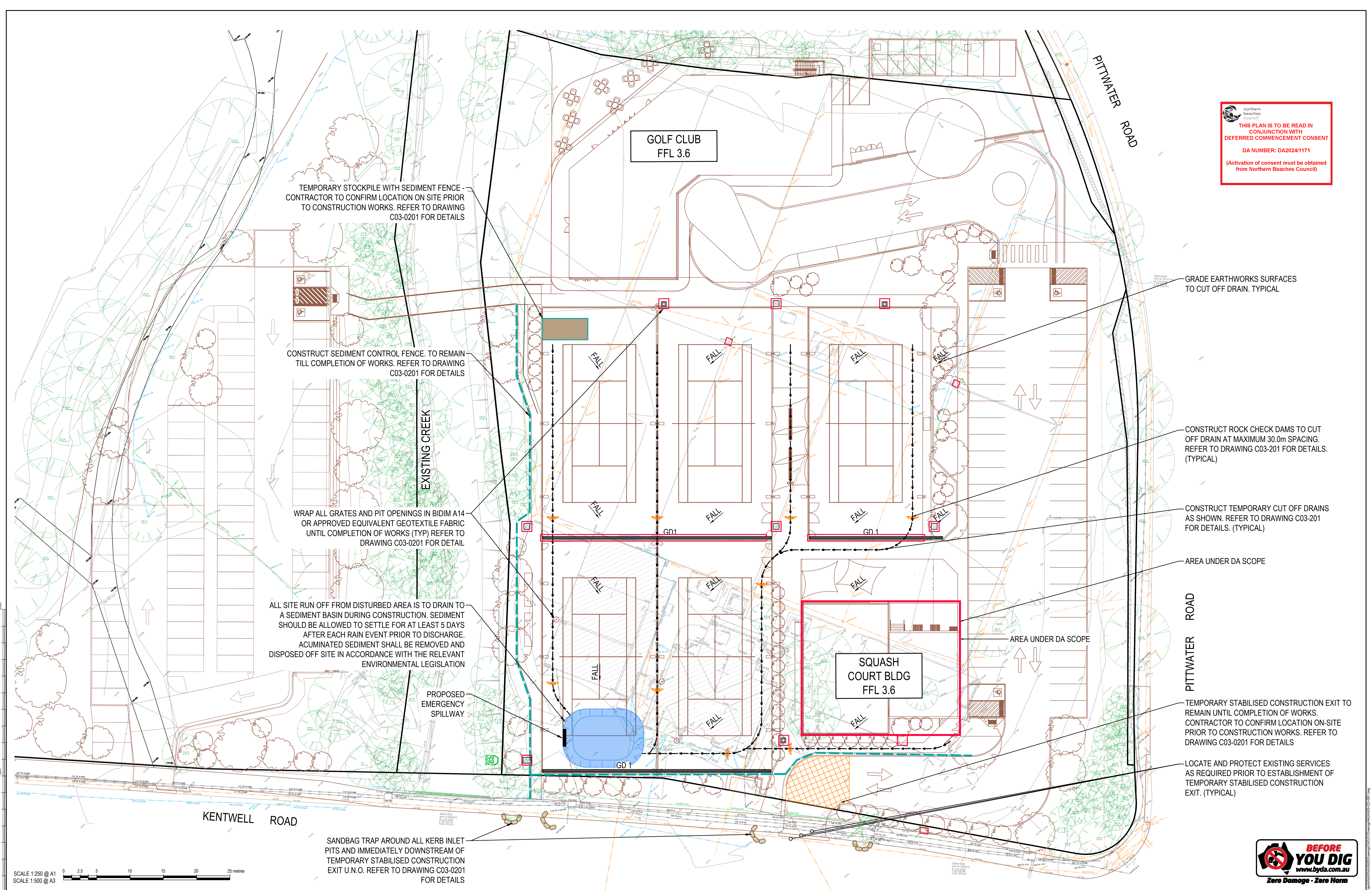


northern
beaches
council

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CONJUNCTION WITH
DEFERRED COMMENCEMENT CONSENT

DA NUMBER: DA2024/1171

(Activation of consent must be obtained
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northern beaches council
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SCALE 1:250 @ A1
SCALE 1:500 @ A3

North		Scale		Client	
B		30.07.24			
A		10.07.24		Architect	
Issue		Date		WEBBER ARCHITECTS	
Description		Drawn		webber	
		Approved		AcOR CONSULTANTS	
				Project	
				WARRINGAH RECREATION CENTRE	
				Drawing Title	
				CIVIL SERVICES	
				SOIL EROSION AND SEDIMENT CONTROL PLAN	
				Drawn	
				DW	
				Designed	
				DV	
				O.A. Check	
				GL	
				Date	
				30.07.24	
				Scale @ A1	
				1:250	
				Project No.	
				NA240429	
				Drawing No.	
				C03-0001	
				Issue	
				B	

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SANDBAG TRAP AROUND ALL KERB INLET PITS AND IMMEDIATELY DOWNSTREAM OF TEMPORARY STABILISED CONSTRUCTION EXIT U.N.O. REFER TO DRAWING C03-0201 FOR DETAILS

TEMPORARY STOCKPILE WITH SEDIMENT FENCE - CONTRACTOR TO CONFIRM LOCATION ON SITE PRIOR TO CONSTRUCTION WORKS. REFER TO DRAWING C03-0201 FOR DETAILS

CONSTRUCT SEDIMENT CONTROL FENCE. TO REMAIN TILL COMPLETION OF WORKS. REFER TO DRAWING C03-0201 FOR DETAILS

WRAP ALL GRATES AND PIT OPENINGS IN BIDIM A14 OR APPROVED EQUIVALENT GEOTEXTILE FABRIC UNTIL COMPLETION OF WORKS (TYP) REFER TO DRAWING C03-0201 FOR DETAIL

ALL SITE RUN OFF FROM DISTURBED AREA IS TO DRAIN TO A SEDIMENT BASIN DURING CONSTRUCTION. SEDIMENT SHOULD BE ALLOWED TO SETTLE FOR AT LEAST 5 DAYS AFTER EACH RAIN EVENT PRIOR TO DISCHARGE. ACUMINATED SEDIMENT SHALL BE REMOVED AND DISPOSED OFF SITE IN ACCORDANCE WITH THE RELEVANT ENVIRONMENTAL LEGISLATION

PROPOSED EMERGENCY SPILLWAY

GOLF CLUB
FFL 3.6

SQUASH COURT BLDG
FFL 3.6

GRADE EARTHWORKS SURFACES TO CUT OFF DRAIN. TYPICAL

CONSTRUCT ROCK CHECK DAMS TO CUT OFF DRAIN AT MAXIMUM 30.0m SPACING. REFER TO DRAWING C03-201 FOR DETAILS. (TYPICAL)

CONSTRUCT TEMPORARY CUT OFF DRAINS AS SHOWN. REFER TO DRAWING C03-201 FOR DETAILS. (TYPICAL)

AREA UNDER DA SCOPE

PITTWATER ROAD

TEMPORARY STABILISED CONSTRUCTION EXIT TO REMAIN UNTIL COMPLETION OF WORKS. CONTRACTOR TO CONFIRM LOCATION ON-SITE PRIOR TO CONSTRUCTION WORKS. REFER TO DRAWING C03-0201 FOR DETAILS

LOCATE AND PROTECT EXISTING SERVICES AS REQUIRED PRIOR TO ESTABLISHMENT OF TEMPORARY STABILISED CONSTRUCTION EXIT. (TYPICAL)



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KENTWELL RD AT PITTWATER RD, NORTH MANLY
Lot 2742 DP 752038

Drawing Title
**CIVIL SERVICES
SOIL EROSION AND SEDIMENT CONTROL PLAN**

Drawn	Designed	O.A. Check	Date	Scale @ A1
DW	DV	GL	30.07.24	1:250
Project No.	Drawing No.	Issue		
NA240429	C03-0001	B		

NOT FOR CONSTRUCTION

EROSION AND SEDIMENT CONTROL NOTES

GENERAL INSTRUCTIONS

1. THIS SOIL AND WATER MANAGEMENT PLAN IS TO BE READ IN CONJUNCTION WITH OTHER ENGINEERING PLANS RELATING TO THIS DEVELOPMENT.
2. CONTRACTORS WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE UNDERTAKEN AS INSTRUCTED IN THIS SPECIFICATION AND CONSTRUCTED FOLLOWING THE GUIDELINES OF "MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION", DEPT OF HOUSING, 2004 (BLUE BOOK).
3. ALL SUBCONTRACTORS WILL BE INFORMED OF THEIR RESPONSIBILITIES IN REDUCING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSLOPE AREAS.

LAND DISTURBANCE INSTRUCTIONS

1. DISTURBANCE TO BE NO FURTHER THAN 5 (PREFERABLY 2) METRES FROM THE EDGE OF ANY ESSENTIAL ENGINEERING ACTIVITY AS SHOWN ON APPROVED PLANS. ALL SITE WORKERS WILL CLEARLY RECOGNISE THESE ZONES THAT, WHERE APPROPRIATE, ARE IDENTIFIED WITH BARRIER FENCING (UPSLOPE) AND SEDIMENT FENCING (DOWNSLOPE) OR SIMILAR MATERIALS.
2. ACCESS AREAS ARE TO BE LIMITED TO A MAXIMUM WIDTH OF 10 METRES THE SITE MANAGER WILL DETERMINE AND MARK THE LOCATION OF THESE ZONES ON-SITE. ALL SITE WORKERS WILL CLEARLY RECOGNISE THESE BOUNDARIES THAT, WHERE APPROPRIATE, ARE IDENTIFIED WITH BARRIER FENCING (UPSLOPE) AND SEDIMENT FENCING (DOWNSLOPE) OR SIMILAR MATERIALS.
3. ENTRY TO LANDS NOT REQUIRED FOR CONSTRUCTION OR ACCESS IS PROHIBITED EXCEPT FOR ESSENTIAL THINNING OF PLANT GROWTH.
4. WORKS ARE TO PROCEED IN THE FOLLOWING SEQUENCE:
 - a. INSTALL ALL BARRIER AND SEDIMENT FENCING WHERE SHOWN ON THE PLAN.
 - b. CONSTRUCT THE STABILISED SITE ACCESS.
 - c. CONSTRUCT DIVERSION DRAINS AS REQUIRED.
 - d. INSTALL MESH AND GRAVEL INLETS FOR ANY ADJACENT KERB INLETS.
 - e. INSTALL GEOTEXTILE INLET FILTERS AROUND ANY ON-SITE DROP INLET PITS.
 - f. CLEAR SITE AND STRIP AND STOCKPILE TOPSOIL IN LOCATIONS SHOWN ON THE PLAN.
 - g. UNDERTAKE ALL ESSENTIAL CONSTRUCTION WORKS ENSURING THAT ROOF AND/OR PAVED AREA STORMWATER SYSTEMS ARE CONNECTED TO PERMANENT DRAINAGE AS SOON AS PRACTICABLE.
 - h. GRADE LOT AREAS TO FINAL GRADES AND APPLY PERMANENT STABILISATION (LANDSCAPING) WITHIN 20 DAYS OF COMPLETION OF CONSTRUCTION WORKS.
 - i. REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER THE PERMANENT LANDSCAPING HAS BEEN COMPLETED.
5. ENSURE THAT SLOPE LENGTHS DO NOT EXCEED 80 METRES WHERE PRACTICABLE. SLOPE LENGTHS ARE DETERMINED BY SILTATION FENCING AND CATCH DRAIN SPACING. 6. ON COMPLETION OF MAJOR WORKS LEAVE DISTURBED LANDS WITH A SCARIFIED SURFACE TO ENCOURAGE WATER INFILTRATION AND ASSIST WITH KEYING TOPSOIL LATER.

EROSION AND SEDIMENT CONTROL NOTES Cont.

SITE INSPECTION AND MAINTENANCE INSTRUCTIONS

1. THE SITE PRINCIPAL'S REPRESENTATIVE WILL INSPECT THE SITE AT LEAST WEEKLY AND AT THE CONCLUSION OF EVERY STORM EVENT TO:
 - a. ENSURE THAT DRAINS OPERATE PROPERLY AND TO EFFECT ANY NECESSARY REPAIRS.
 - b. REMOVE SPILLED SAND OR OTHER MATERIALS FROM HAZARD AREAS, INCLUDING LANDS CLOSER THAN 5 METRES FROM AREAS OF LIKELY CONCENTRATED OR HIGH VELOCITY FLOWS ESPECIALLY WATERWAYS AND PAVED AREAS.
 - c. REMOVE TRAPPED SEDIMENT WHENEVER THE DESIGN CAPACITY OF THAT STRUCTURE HAS BEEN EXCEEDED.
 - d. ENSURE REHABILITATED LANDS HAVE EFFECTIVELY REDUCED THE EROSION HAZARD AND TO INITIATE UPGRADING OR REPAIR AS NECESSARY.
 - e. CONSTRUCT ADDITIONAL EROSION AND/OR SEDIMENT CONTROL WORKS AS MIGHT BECOME NECESSARY TO ENSURE THE DESIRED PROTECTION IS GIVEN TO DOWNSLOPE LANDS AND WATERWAYS. MAKE ONGOING CHANGES TO THE PLAN WHERE IT PROVES INADEQUATE IN PRACTICE OR IS SUBJECTED TO CHANGES IN CONDITIONS ON THE WORK-SITE OR ELSEWHERE IN THE CATCHMENT.
 - f. MAINTAIN EROSION AND SEDIMENT CONTROL STRUCTURES IN A FULLY FUNCTIONING CONDITION UNTIL ALL EARTHWORK ACTIVITIES ARE COMPLETED AND THE SITE IS REHABILITATED.
2. THE PRINCIPAL'S REPRESENTATIVE WILL KEEP A LOGBOOK MAKING ENTRIES AT LEAST WEEKLY, IMMEDIATELY BEFORE FORECAST RAIN AND AFTER RAINFALL. ENTRIES WILL INCLUDE:
 - a. THE VOLUME AND INTENSITY OF ANY RAINFALL EVENTS.
 - b. THE CONDITION OF ANY SOIL AND WATER MANAGEMENT WORKS.
 - c. THE CONDITION OF VEGETATION AND ANY NEED TO IRRIGATE.
 - d. THE NEED FOR DUST PREVENTION STRATEGIES.
 - e. ANY REMEDIAL WORKS TO BE UNDERTAKEN. THE LOGBOOK WILL BE KEPT ON-SITE AND MADE AVAILABLE TO ANY AUTHORISED PERSON UPON REQUEST. IT WILL BE GIVEN TO THE PROJECT MANAGER AT THE CONCLUSION OF THE WORKS.

SEDIMENT CONTROL INSTRUCTIONS

1. SEDIMENT FENCES WILL BE INSTALLED AS SHOWN ON THE PLAN AND ELSEWHERE AT THE DISCRETION OF THE PRINCIPAL'S REPRESENTATIVE TO CONTAIN SOIL AS NEAR AS POSSIBLE TO THEIR SOURCE.
2. SEDIMENT FENCES WILL NOT HAVE CATCHMENT AREAS EXCEEDING 900 SQUARE METRES AND HAVE A STORAGE DEPTH OF AT LEAST 0.6 METRES.
3. SEDIMENT REMOVED FROM ANY TRAPPING DEVICES WILL BE RELOCATED WHERE FURTHER POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS CAN NOT OCCUR.
4. STOCKPILES ARE NOT TO BE LOCATED WITHIN 5 METRES OF HAZARD AREAS INCLUDING AREAS OF HIGH VELOCITY FLOWS SUCH AS WATERWAYS, PAVED AREAS AND DRIVEWAYS.
5. WATER WILL BE PREVENTED FROM DIRECTLY ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR WATER HAS BEEN TREATED BY AN APPROVED DEVICE.
6. TEMPORARY SEDIMENT TRAPS WILL REMAIN IN PLACE UNTIL AFTER THE LANDS THEY ARE PROTECTING ARE COMPLETELY REHABILITATED.
7. ACCESS TO SITES SHOULD BE STABILISED TO REDUCE THE LIKELIHOOD OF VEHICLES TRACKING SOIL MATERIALS ONTO PUBLIC ROADS AND ENSURE ALL-WEATHER ENTRY/EXIT.

EROSION AND SEDIMENT CONTROL NOTES Cont.

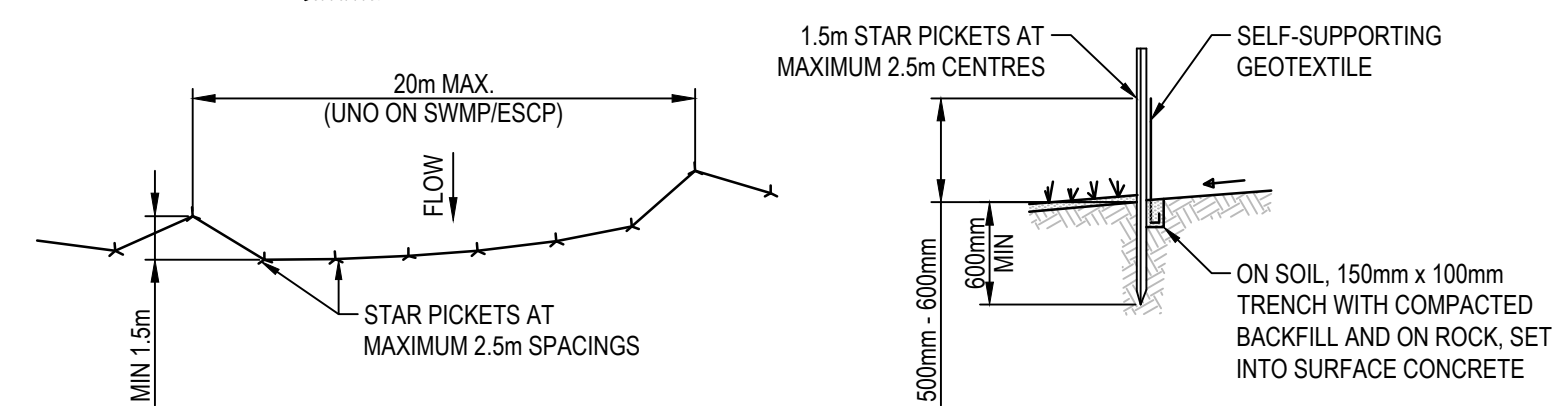
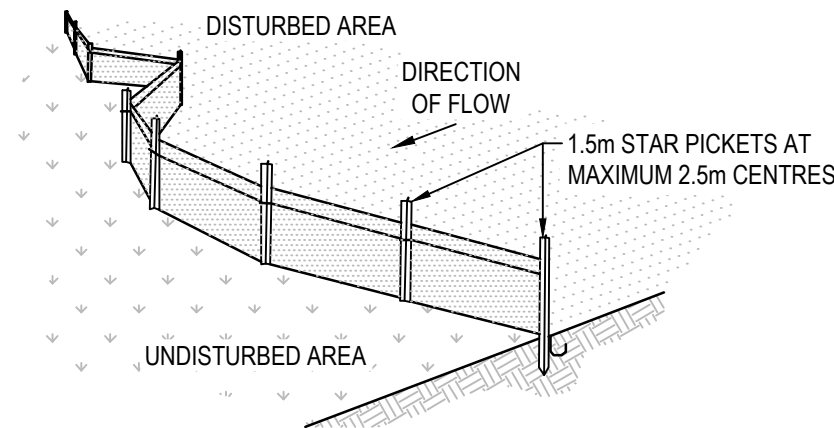
SOIL EROSION CONTROL INSTRUCTIONS

1. EARTH BATTERS WILL BE CONSTRUCTED WITH AS LOW A GRADIENT AS PRACTICABLE BUT NO STEEPER, UNLESS OTHERWISE NOTED, THAN:
 - a. 2(H):1(V) WHERE SLOPE LENGTH LESS THAN 12 METRES
 - b. 2.5(H):1(V) WHERE SLOPE LENGTH BETWEEN 12 AND 16 METRES.
 - c. 3(H):1(V) WHERE SLOPE LENGTH BETWEEN 16 AND 20 METRES.
 - d. 4(H):1(V) WHERE SLOPE LENGTH GREATER THAN 20 METRES.
2. ALL WATERWAYS, DRAINS, SPILLWAYS AND THEIR OUTLETS WILL BE CONSTRUCTED TO BE STABLE IN AT LEAST THE 1:20 YEAR ARI, TIME OF CONCENTRATION STORM EVENT.
3. WATERWAYS AND OTHER AREAS SUBJECT TO CONCENTRATED FLOWS AFTER CONSTRUCTION ARE TO HAVE A MAXIMUM GROUND COVER C-FACTOR OF 0.05 (70% GROUND COVER) WITHIN 10 WORKING DAYS FROM COMPLETION OF FORMATION. FLOW VELOCITIES ARE TO BE LIMITED TO THOSE SHOWN IN TABLE 5-1 OF "MANAGING URBAN STORMWATER -SOILS AND CONSTRUCTION", DEPT OF HOUSING 2004 (BLUE BOOK). FOOT AND VEHICULAR TRAFFIC WILL BE PROHIBITED IN THESE AREAS.
4. STOCKPILES AFTER CONSTRUCTION ARE TO HAVE A MAXIMUM GROUND-COVER C-FACTOR OF 0.1 (60% GROUND-COVER) WITHIN 10 WORKING DAYS FROM COMPLETION OF FORMATION.
5. ALL LANDS, INCLUDING WATERWAYS AND STOCKPILES, DURING CONSTRUCTION ARE TO HAVE A MAXIMUM GROUND-COVER C-FACTOR OF 0.15 (50% GROUND COVER) WITHIN 20 WORKING DAYS FROM INACTIVITY EVEN THOUGH WORKS MAY CONTINUE LATER.
6. FOR AREAS OF SHEET FLOW USE THE FOLLOWING GROUND COVER PLANT SPECIES FOR TEMPORARY COVER: JAPANESE MILLET 20 KG/HA AND OATS 20 KG/HA.
7. PERMANENT REHABILITATION OF LANDS AFTER CONSTRUCTION WILL ACHIEVE A GROUND-COVER C-FACTOR OF LESS THAN 0.1 AND LESS THAN 0.05 WITHIN 60 DAYS. NEWLY PLANTED LANDS WILL BE WATERED REGULARLY UNTIL AN EFFECTIVE COVER IS ESTABLISHED AND PLANTS ARE GROWING VIGOROUSLY. FOLLOW-UP SEED AND FERTILISER WILL BE APPLIED AS NECESSARY.
8. RE-VEGETATION SHOULD BE AIMED AT RE-ESTABLISHING NATURAL SPECIES. NATURAL SURFACE SOILS SHOULD BE REPLACED AND NON-PERSISTENT ANNUAL COVER CROPS SHOULD BE USED.

WASTE CONTROL INSTRUCTIONS

1. ACCEPTABLE BINS WILL BE PROVIDED FOR ANY CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHING, LIGHTWEIGHT WASTE MATERIALS AND LITTER. CLEARANCE SERVICES WILL BE PROVIDED AT LEAST WEEKLY. DISPOSAL OF WASTE WILL BE IN A MANNER APPROVED BY THE PRINCIPAL'S REPRESENTATIVE.
2. ALL POSSIBLE POLLUTANT MATERIALS ARE TO BE STORED WELL CLEAR OF ANY POORLY DRAINED AREAS, FLOOD PRONE AREAS, STREAMBANKS, CHANNELS AND STORMWATER DRAINAGE AREAS. STORE SUCH MATERIALS IN A DESIGNATED AREA UNDER COVER WHERE POSSIBLE AND WITHIN CONTAINMENT BUNDS.
3. ALL SITE STAFF AND SUB-CONTRACTORS ARE TO BE INFORMED OF THEIR OBLIGATION TO USE WASTE CONTROL FACILITIES PROVIDED.
4. ANY DE-WATERING ACTIVITIES ARE TO BE CLOSELY MONITORED TO ENSURE THAT WATER IS NOT POLLUTED BY SEDIMENT, TOXIC MATERIALS OR PETROLEUM PRODUCTS.
5. PROVIDE DESIGNATED VEHICULAR WASHDOWN AND MAINTENANCE AREAS WHICH ARE TO HAVE CONTAINMENT BUNDS.

[illegible]



PLAN

SECTION DETAIL

CONSTRUCTION NOTES

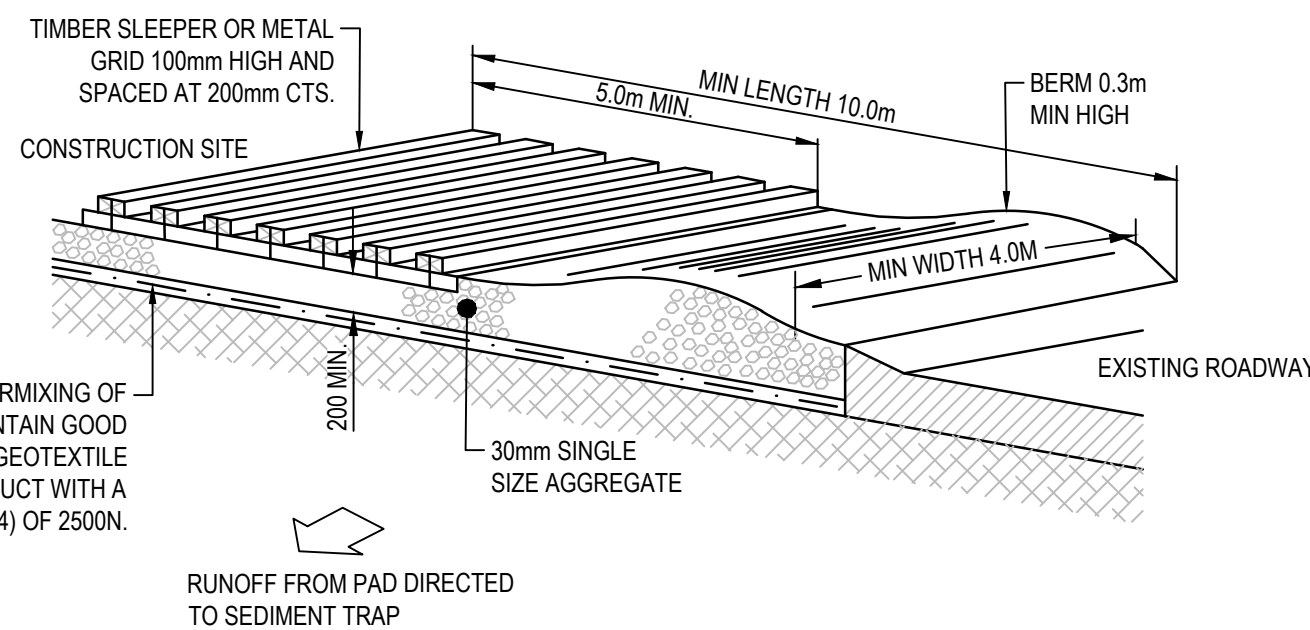
1. CONSTRUCT SEDIMENT FENCE AS CLOSE AS POSSIBLE TO PARALLEL TO THE CONTOURS OF THE SITE.
2. DRIVE 1.5m LONG STAR PICKETS INTO GROUND, 2.5 METRES APART (MAX). ENSURE STAR PICKETS ARE FITTED WITH SAFETY CAPS.
3. DIG A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
4. BACKFILL TRENCH OVER BASE OF FABRIC.
5. FIX SELF-SUPPORTING GEOTEXTILE TO UPSLOPE SIDE OF POSTS WITH WIRE TIES OR AS RECOMMENDED BY GEOTEXTILE MANUFACTURER.
6. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.

SEDIMENT CONTROL FENCE

N.T.S.

NOTE
ENSURE THAT ALL UTILITY ASSETS ARE MAINTAINED AND PROTECTED AT ALL TIMES IN THE VICINITY OF THE TEMPORARY CONSTRUCTION EXIT

GEOTEXTILE FABRIC DESIGNED TO PREVENT INTERMIXING OF SUBGRADE AND BASE MATERIALS AND TO MAINTAIN GOOD PROPERTIES OF THE SUB-BASE LAYERS. THE GEOTEXTILE MAY BE WOVEN OR NEEDLE PUNCHED PRODUCT WITH A MINIMUM CBR BURST STRENGTH (AS3706.4) OF 2500N.



CONSTRUCTION NOTES

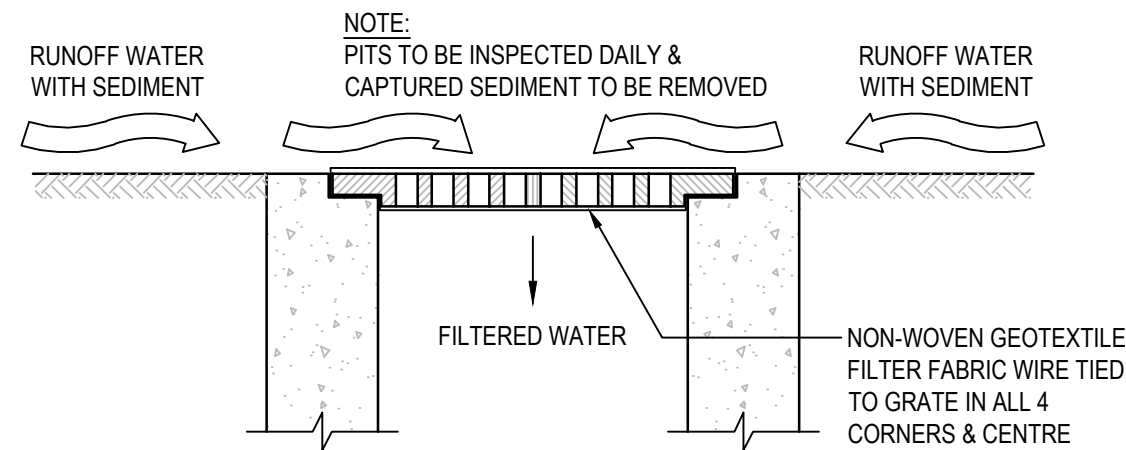
1. STRIP TOPSOIL AND LEVEL SITE.
2. COMPACT SUBGRADE.
3. COVER AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
4. CONSTRUCT 200mm THICK PAD OVER GEOTEXTILE USING 30mm SINGLE SIZE AGGREGATE.
5. CONSTRUCT HUMPS IMMEDIATELY WITHIN BOUNDARY TO DIVERT WATER TO A SEDIMENT FENCE OR OTHER SEDIMENT TRAP WHERE THE SEDIMENT IS COLLECTED AND REMOVED.

MAINTENANCE NOTES

THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH PREVENTS TRACKING OR FLOWING OF SEDIMENT OFF THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL GRAVEL AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED OFF THE CONSTRUCTION SITE MUST BE REMOVED IMMEDIATELY.

TEMPORARY STABILISED CONSTRUCTION EXIT

N.T.S.



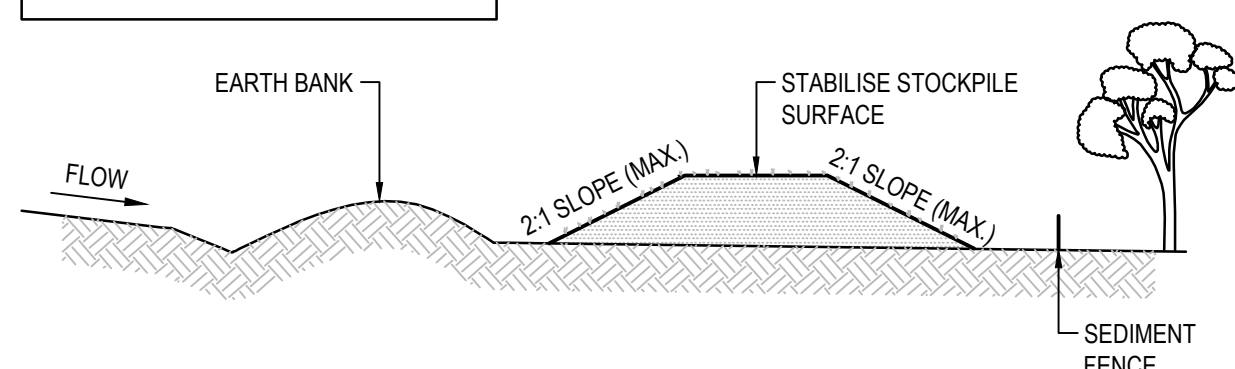
INLET TRAP

N.T.S.

NOTE

TO BE USED IN PAVED AREAS WHERE TRAFFIC ACCESS IS REQUIRED

SOURCE:
MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION, THIRD EDITION, AUGUST 1998 PRODUCED BY THE DEPARTMENT OF HOUSING

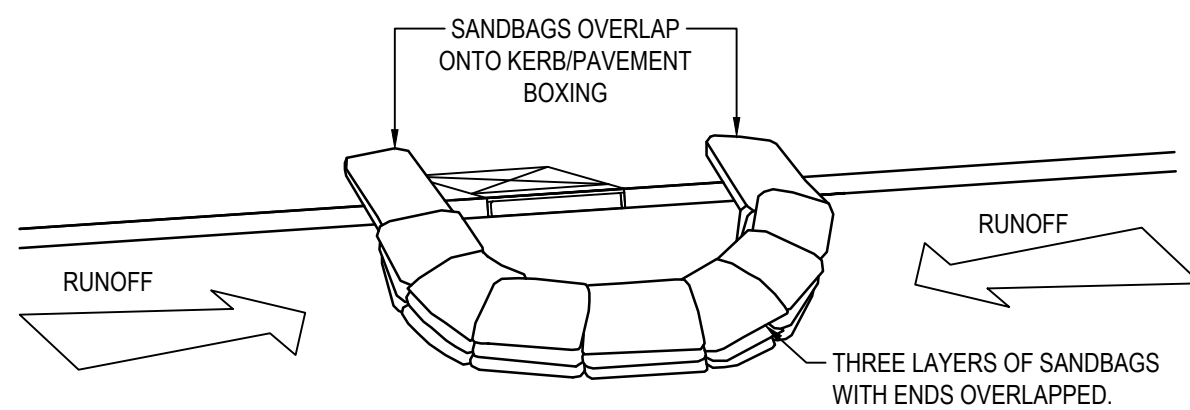


CONSTRUCTION NOTES

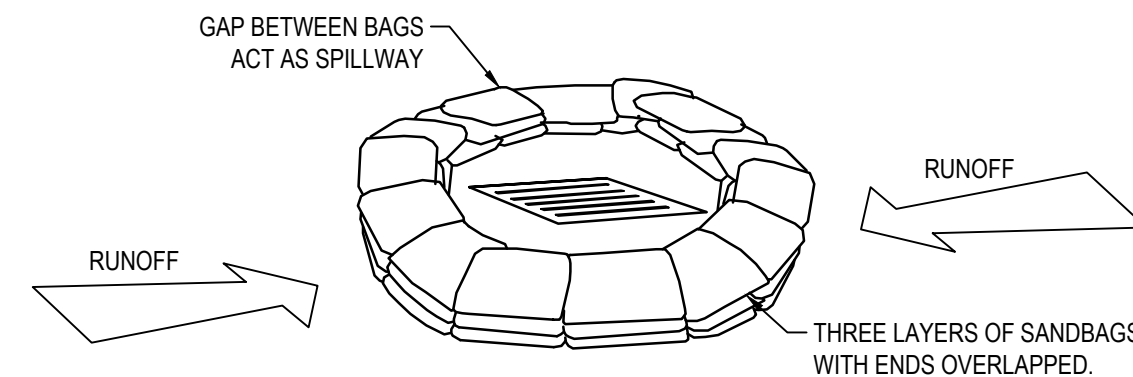
1. LOCATE STOCKPILE AT LEAST 5 METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOWS, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS A LOW, FLAT, ELONGATED MOUND.
3. WHERE THERE IS SUFFICIENT AREA TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METERS IN HEIGHT.
4. REHABILITATE IN ACCORDANCE WITH THE SWMP/ESCP.
5. CONSTRUCT EARTH BANK (STANDARD DRAWING 5-2) ON THE UPSLOPE SIDE TO DIVERT RUN OFF AROUND THE STOCKPILE AND A SEDIMENT FENCE (STANDARD DRAWING 6-7) 1 TO 2 METRES DOWNSLOPE OF STOCKPILE.

STOCKPILES

N.T.S.



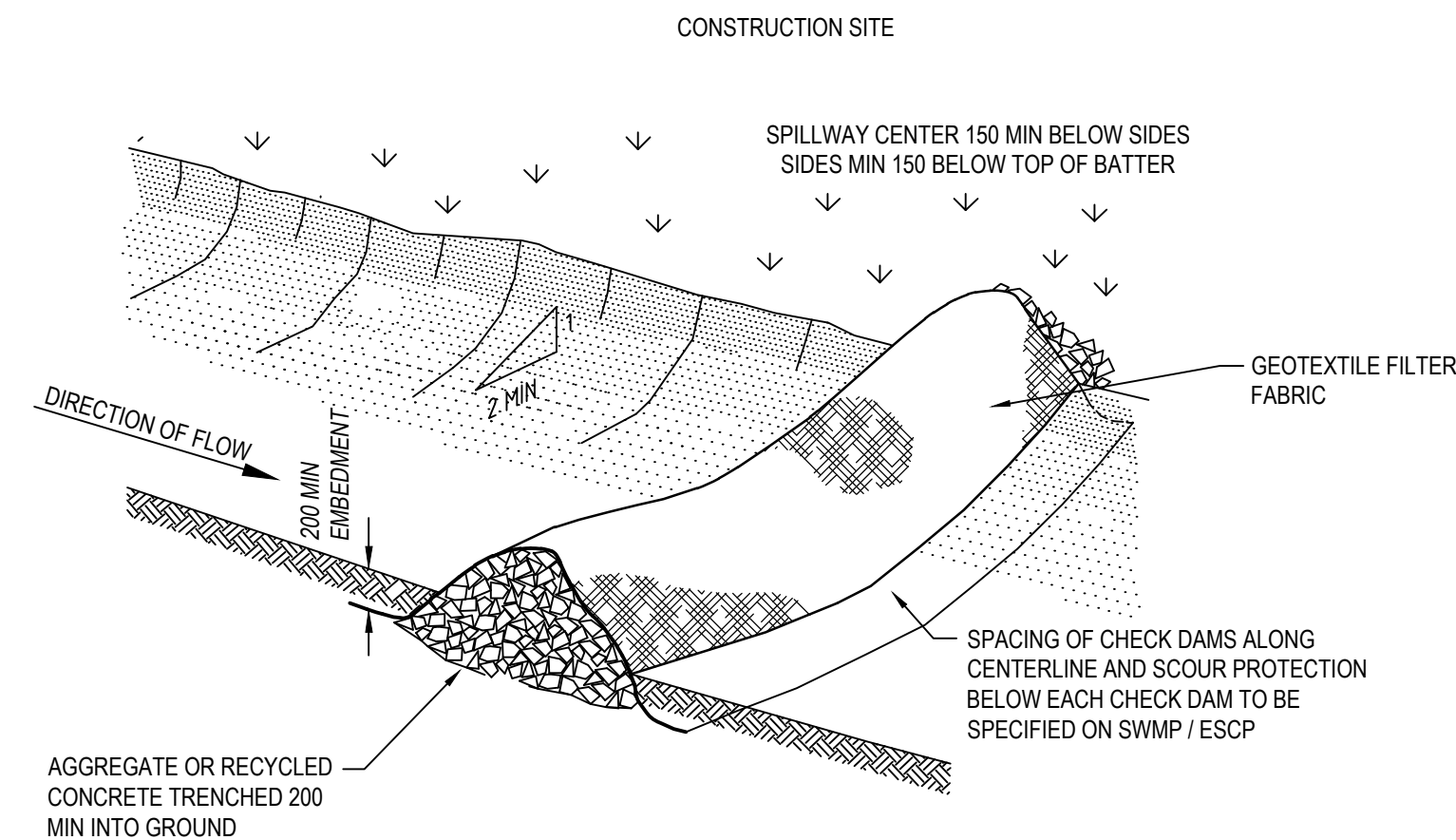
SANDBAG SEDIMENT TRAP - AT KERB SAG PIT



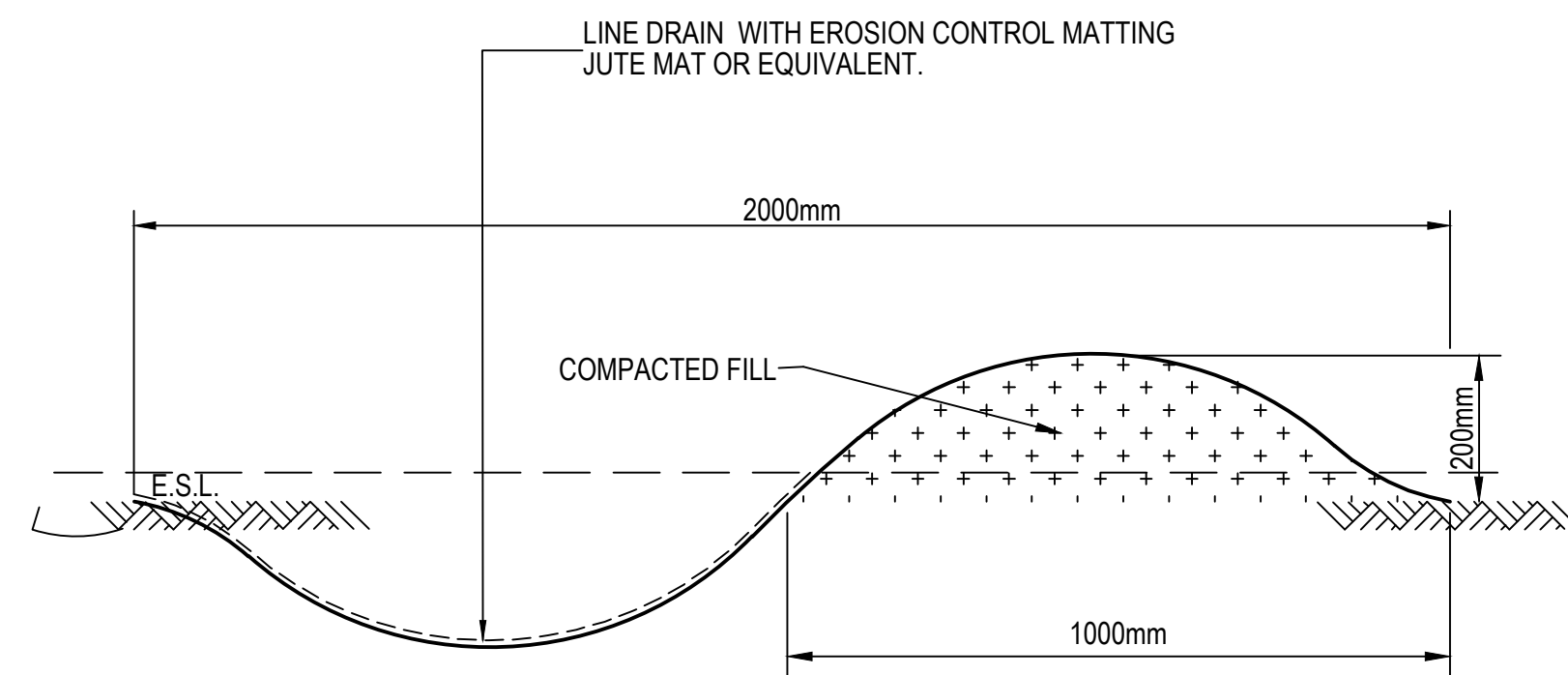
SANDBAG SEDIMENT TRAP - AT OTHER THAN KERB SAG PIT

SANDBAG SEDIMENT TRAP DETAILS

NTS



CHECK DAM - ROCK




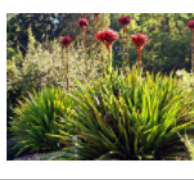

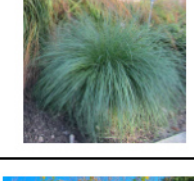




CUT-OFF DRAIN - 2.0m WIDE

N.T.S.



										North	Scale	Client	Architect	Project	Drawing Title				
														ACOR Consultants Pty Ltd	WARRINGAH RECREATION CENTRE	Drawing Title			
													webber	Suite 2, Level 1, 33 Herbert Street	CIVIL SERVICES	SOIL EROSION AND SEDIMENT CONTROL DETAILS			
														St Leonards NSW 2065	KENTWELL RD AT PITTWATER RD, NORTH MANLY				
														T +61 2 9438 5098	Lot 2742 DP 752038	G.A. Check			
															NOT FOR CONSTRUCTION	Date			
																30.07.24	Scale @ A1		
																AS SHOWN	Issue		
																Project No.	Drawing No.	Issue	
																NA240429	C03-0201	B	

PLANTING SCHEDULE				
Key	Botanical Name	Common Name	Mature Height	Mature Width
Trees				
A	Angophora costata	Smooth-barked Apple	20m	12m
B	Banksia integrifolia	Coastal Banksia	8m	5m
K	Brachychiton acerifolius	Illawarra Flame Tree	12m	6m
C	Casuarina glauca	Swamp She-oak	12m	5m
E	Leptospermum petersonii	Lemon scented tea-tree	3m	2m
H	Eucalyptus haemastoma	Scribbly Gum	15m	7m
M	quinenervia Tristaniopsis laurina	Broad Leafed Paperbark	12m	4m
T	'Luscious'	Luscious	10m	5m
Tall Screening Plants				
As	Acmena 'Purple Rain'	Lilly Pilly	3m	2m
W	Syzygium 'Resilience'	Lilly Pilly	3m	m
Brookvale Creek - Grasses and Ground covers				
Ca	Carex appressa	Tall Sedge	1m	0.5m
Gc	Gahnia clarkiei	Tall Saw Sedge	1.5m	0.7m
Ic	Imperata cylindrica	Red Cotton Grass	1m	0.5m
JK	Juncus kraussii sp. australiensis	Sea Rush	1m	0.7m
Kr	Kennedia rubicunda	Dusky Coral Pea	0.2m	5m
Vh	Viola hederacea	Native Violet	0.1m	0.5m
Shrubs, Grasses and Groundcovers				
Cg	Carporobrotus 'Aussie Rambler'	Pigface	0.2m	1m
Cv	Callistemon linearifolius	Netted bottlebrush	4m	3m
Cc	Commelina cyanea	Scurvy Weed	0.1m	2m
Co	Correa alba	White Correa	1.5m	1.5m
Cp	Crinum pedunculatum	Swamp Lily	2m	1.5m
Dc	Dianella caerulea	Blue Flax Lily	0.5m	0.5m
De	Doryanthes excelsa	Gynea Lily	2m	2m
Eg	Eremophila glabra prostrata	Emu Bush	0.2m	1m
Hs	Hibbertia scandens	Snake Vine	0.3m	3m
Le	Leptospermum 'Fore Shore'	Tea Tree	0.5m	1m
LI	Lomandra longifolia 'Tanika'	Mat Rush	0.7m	0.7m
Pe	Poa labillardieri 'Eskdale'	Tussock Grass	1m	0.5m
Wf	Westringia fruticosa	Coastal Rosemary	1.5m	1.5m
Wj	Westringia 'Jervis Gem'	Jervis Gem	1m	1m

PLANT VISUAL SCHEDULE EXERPT			
	TREE A - ANGOPHORA COSTATA SHADE TREES		SHRUB De - DORYANTHES EXCELSA SHRUB BUFFER KENTWELL RD
	TREE B - BANKSIA INTEGRIFOLIA SHADE TREES		SHRUB Pe - POA LABILLARDIERI SHRUB BUFFER KENTWELL RD
	TREE K - BRACHYCHINTON ACERIFOLIUS FEATURE TREE		SCREENING PLANTS - WATERHOUSEA FLORIBUNDA MAIN THOROUGHFARE SCREENING PLANT TO TENNIS COURTS
	TREE T - TRISTANIOPSIS LAURINA SHADE TREES		TREE E - EUCALYPTUS PULVERULENTA TREES INFRONT OF SQUASH BUILDING

WARRINGAH GOLF COURSE

PROPOSED SUPPLEMENTARY MIX OF NATIVE TREE SPECIES TO INCLUDE:
ANGOPHORA COSTATA
CASUARINA GLAUCA
EUCALYPTUS HAEMASTOMA
REFER PLANT SCHEDULE FOR DETAILS.

PROPOSED TRISTANIOPSIS LAURINA WITH CARPOBROTUS 'AUSSIE RAMBLER' BENEATH. REFER PLANT SCHEDULE FOR DETAILS.

ALTERNATE AND STAGGERED PLANTING OF TRISTANIOPSIS LAURINA AND ANGOPHORA COSTATA TO PROVIDE AN INFORMAL DEFINITION TO THE CAR PARK BOUNDARY.

PROPOSED SUPPLEMENTARY NATIVE TREES BETWEEN THE CARPARK AND EXISTING TREES A MIX OF NATIVE TREE SPECIES TO INCLUDE:
ANGOPHORA COSTATA
CASUARINA GLAUCA
EUCALYPTUS HAEMASTOMA
MELALEUCA QUINQUINERVA
REFER PLANT SCHEDULE FOR DETAILS

PRUNE & REMOVE WEEDS AS RECOMMENDED BY ECOLOGIST. REFER TO FLORA & FAUNA REPORT BY NARLA

MASS PLANTING TO EMBANKMENT TO INCLUDE LOW SHRUBS, GRASSES AND GROUNDCOVERS, INCLUDING:

CARPOBROTUS 'AUSSIE RAMBLER'
CRINUM PEDUNCULATUM
DORYANTHES EXCELSA
POA LABILLARDIERI 'ESKDALE'
WESTRINGIA FRUTICOSA

REFER PLANT SCHEDULE FOR DETAILS.

WARRINGAH GOLF COURSE

WARRINGAH GOLF CLUB
GENERAL BUILDING FOOTPRINT SHOWN GREY

2742
D.P. 752038
LEASE LOT 3
D.P. 829465

PITTWATER ROAD

PITTWATER ROAD

KENTWELL ROAD

KENTWELL ROAD


THIS PLAN IS TO BE READ IN CONJUNCTION WITH DEFERRED COMMENCEMENT CONSENT
DA NUMBER: DA2024/1171
(Activation of consent must be obtained from Northern Beaches Council)

1 LANDSCAPE PLAN

0401 SCALE 1 : 300

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FOR REF
NOT FOR CONSTRUCTION

SHEET NUMBER: 2950 / L01 / D

LANDSCAPE PLAN
WARRINGAH RECREATION CENTRE
KENTWELL RD AT PITTWATER RD
NORTH MANLY NSW 2095
Lot 2742 DP 752038
COMMENCEMENT DATE: SEPT 2023

SCALE

PROJECT NORTH

