

EDMUND RICE COLLEGE, WEST WOLLONGONG - TAS

BUILDING & ACCESS WORKS DA

112 Mount Keira Rd WEST WOLLONGONG NSW

AYLIE O'HANLON


QUINN O'HANLON ARCHITECTS - MANAGING DIRECTOR
NSW ARCHITECTS REGISTRATION NO. 04600

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LEGEND

NOTE: IF AN (e) IS LOCATED AT THE FRONT OF AN ABBREVIATION IT INDICATES THE ELEMENT IS EXISTING, OTHERWISE IT SHOULD BE ASSUMED AS NEW (n)

PROPOSED BUILDING WORKS

PROPOSED SITE WORKS

SITE BOUNDARY

DEVELOPMENT APPLICATION

DRAWING REGISTER

ID	Name	Rev.
1000 SERIES - SITE		
DA000	DRAWING REGISTER & LOCATION PLAN	02
DA1100	EXISTING SITE PLAN	01
DA1101	SITE ANALYSIS PLAN	01
DA1102	PROPOSED SITE PLAN	02
DA1103	INDICATIVE SITE MANAGEMENT PLAN	02
DA1200	DETAILED SITE PLAN SHEET 01 - DEMOLITION PLAN	02
DA1201	DETAILED SITE PLAN SHEET 02	03

2000 SERIES - BLOCK L TAS HUB

DA2220	BLOCK L - PROPOSED GROUND FLOOR PLAN	02
DA2221	BLOCK L - PROPOSED FIRST FLOOR PLAN	02
DA2222	BLOCK L - PROPOSED ROOF PLAN	01
DA2300	BLOCK L - ELEVATIONS AND SECTIONS SHEET 01	02
DA2301	BLOCK L - ELEVATIONS AND SECTIONS SHEET 02	02
DA2900	BLOCK L - DESIGN APPROACH DIAGRAMS	01
DA2910	BLOCK L - EGRESS PLANS	02
DA2920	BLOCK L - ACCESSIBILITY PLANS	02
DA2930	BLOCK L - EXTERNAL FINISHES NORTH ELEVATION	02
DA2931	BLOCK L - EXTERNAL FINISHES SOUTH ELEVATION	02
DA2940	BLOCK L - WINTER SHADOW DIAGRAMS	01
DA2941	BLOCK L - SUMMER SHADOW DIAGRAMS	01
DA2951	BLOCK L - PERSPECTIVES	02

3000 SERIES - BLOCK A/B LIFT WORKS

DA3220	LIFT - LOWER GROUND & GROUND FLOOR PLAN	02
DA3221	LIFT - FIRST FLOOR PLAN & ROOF PLAN	01
DA3300	LIFT - ELEVATIONS	02
DA3350	LIFT - SECTIONS	01
DA3920	LIFT - ACCESSIBILITY PLANS	01
DA3930	LIFT - EXTERNAL FINISHES NORTH ELEVATION	02
DA3931	LIFT - EXTERNAL FINISHES SOUTH ELEVATION	01
DA3940	LIFT - SHADOW DIAGRAMS	01



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PROJECT

EDMUND RICE COLLEGE, WEST WOLLONGONG - TAS BUILDING & ACCESS WORKS DA

ADDRESS
112 Mount Keira Rd WEST WOLLONGONG NSW

CLIENT
EDMUND RICE COLLEGE

6/08/2024 DEVELOPMENT APPLICATION 02

30/11/2023 DEVELOPMENT APPLICATION 01

DATE REVISION ISSUE

SCALEBAR:
0 20 100 200

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DRAWING TITLE

DRAWING REGISTER

DRAWING REGISTER & LOCATION PLAN

JOB NUMBER

DRAWING NUMBER

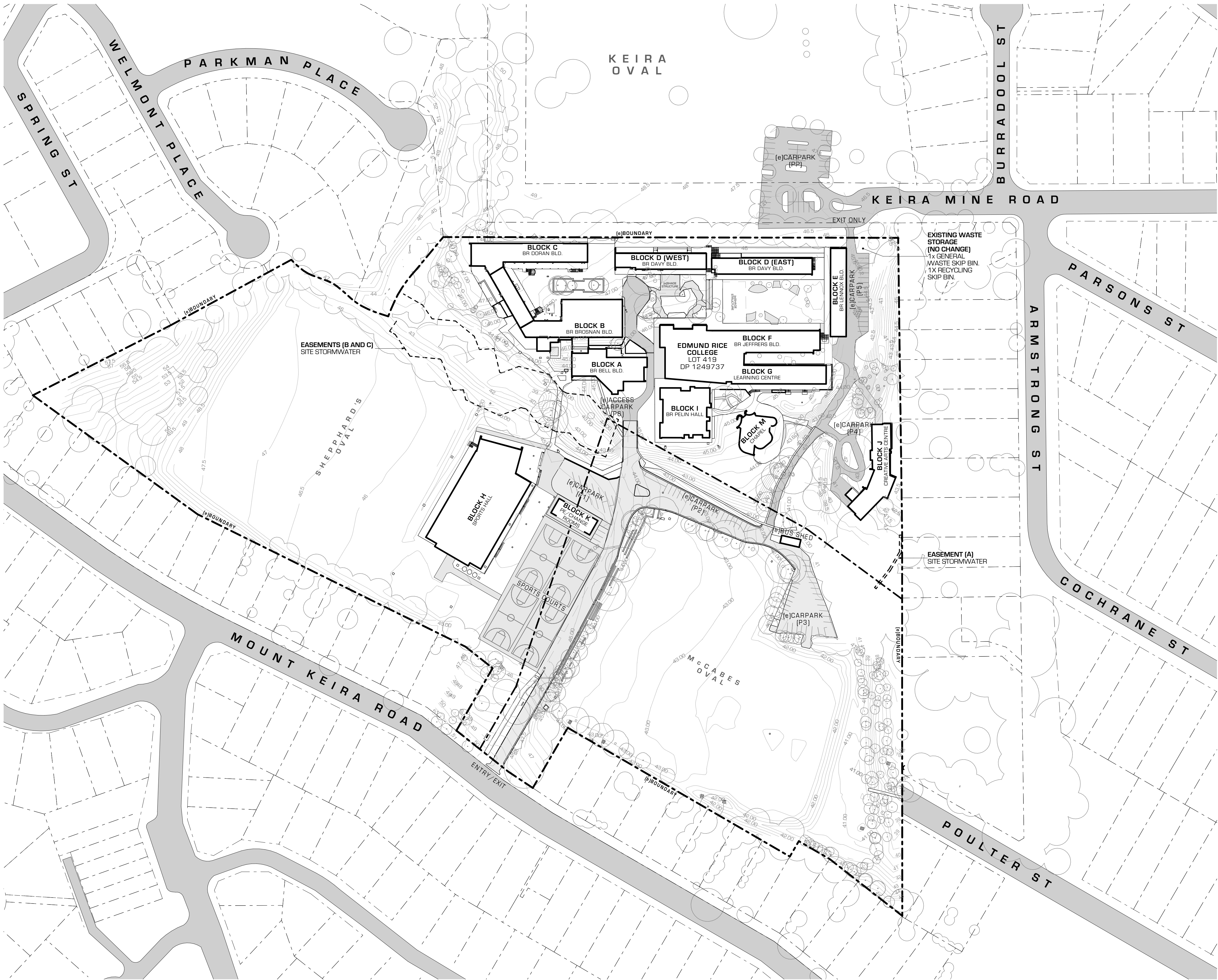
ISSUE

2301

DA000

02

DEVELOPMENT APPLICATION



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LEGEND
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- EXISTING TREE
- NEW TREE
- PROPOSED BUILDING WORKS
- PROPOSED SITE WORKS
- PROPOSED LANDSCAPE WORKS
- EXISTING BOUNDARY
- EXISTING SEWER
- EXISTING WATER
- EXISTING TELECOMMUNICATIONS
- EXISTING POWER
- EXISTING STORMWATER



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30/11/2023 DEVELOPMENT APPLICATION 01

DATE REVISION ISSUE

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DRAWING TITLE

SITE

EXISTING SITE PLAN

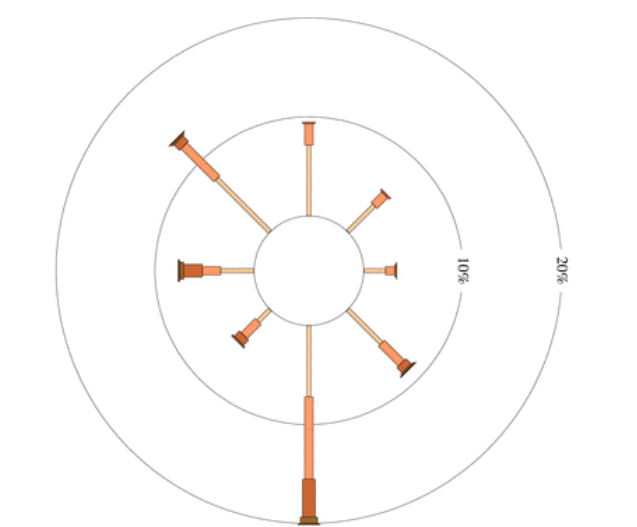
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2301 DA1100 01

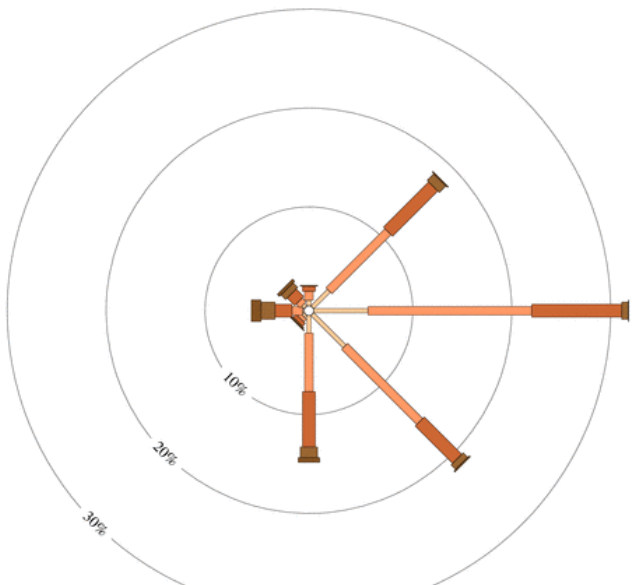
DEVELOPMENT APPLICATION



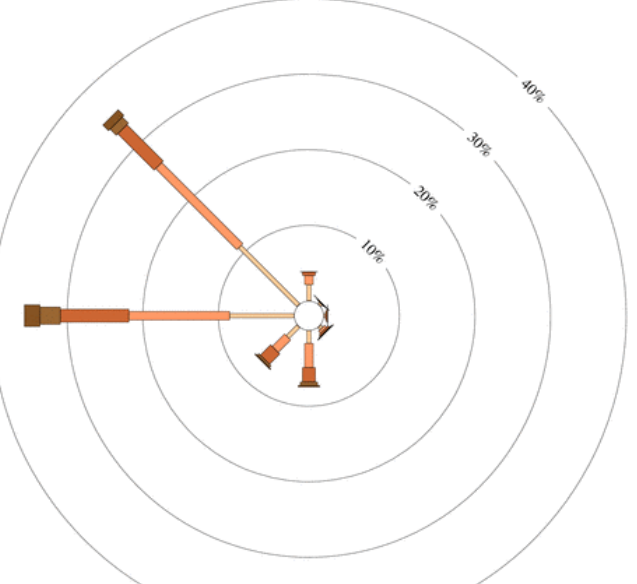
- LEGEND**
NOTE: IF AN (e) IS LOCATED AT THE FRONT OF AN ABBREVIATION IT INDICATES THE ELEMENT IS EXISTING, OTHERWISE IT SHOULD BE ASSUMED AS NEW (n).
- (e) EXISTING
(n) NEW
CONC CONCRETE
GB GARDEN BED
PP POWER POLE
SW STORM WATER
SWP STORM WATER PIT
- EXISTING WATERCOURSE (TO TOP OF BANK)
20m RIPARIAN ZONE OFFSET
10m RIPARIAN VEGETATION BUFFER OFFSET
30m RIPARIAN BUFFER OFFSET FROM STORM DRAIN
INDICATIVE EXISTING ENCAPSULATED FILL ZONE
LEP MAPPED BIODIVERSITY AREA
- PROPOSED BUILDINGS WORKS
PROPOSED LANDSCAPE/EXTERNAL WORKS
EXISTING BUILDINGS
- EXISTING TREE (SURVEYED)
EXISTING TREE (UNSURVEYED)
NOISE SOURCE
STORMWATER FLOW PATH
VEHICLE ACCESS
WINTER WINDS
SUMMER WINDS



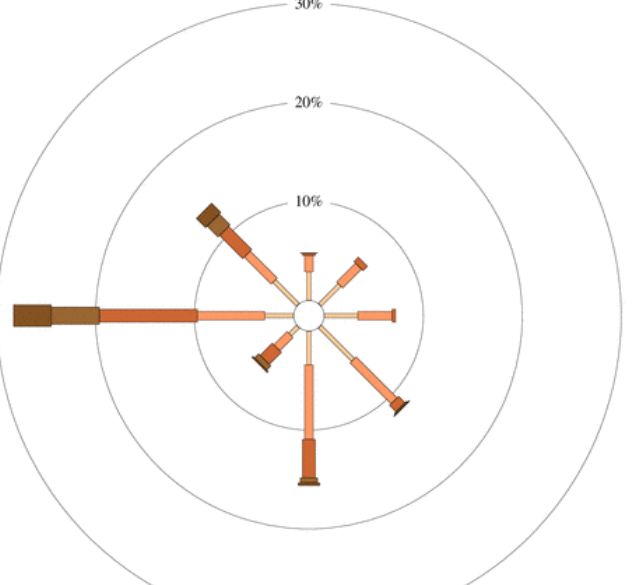
WIND ROSE - SUMMER 8AM



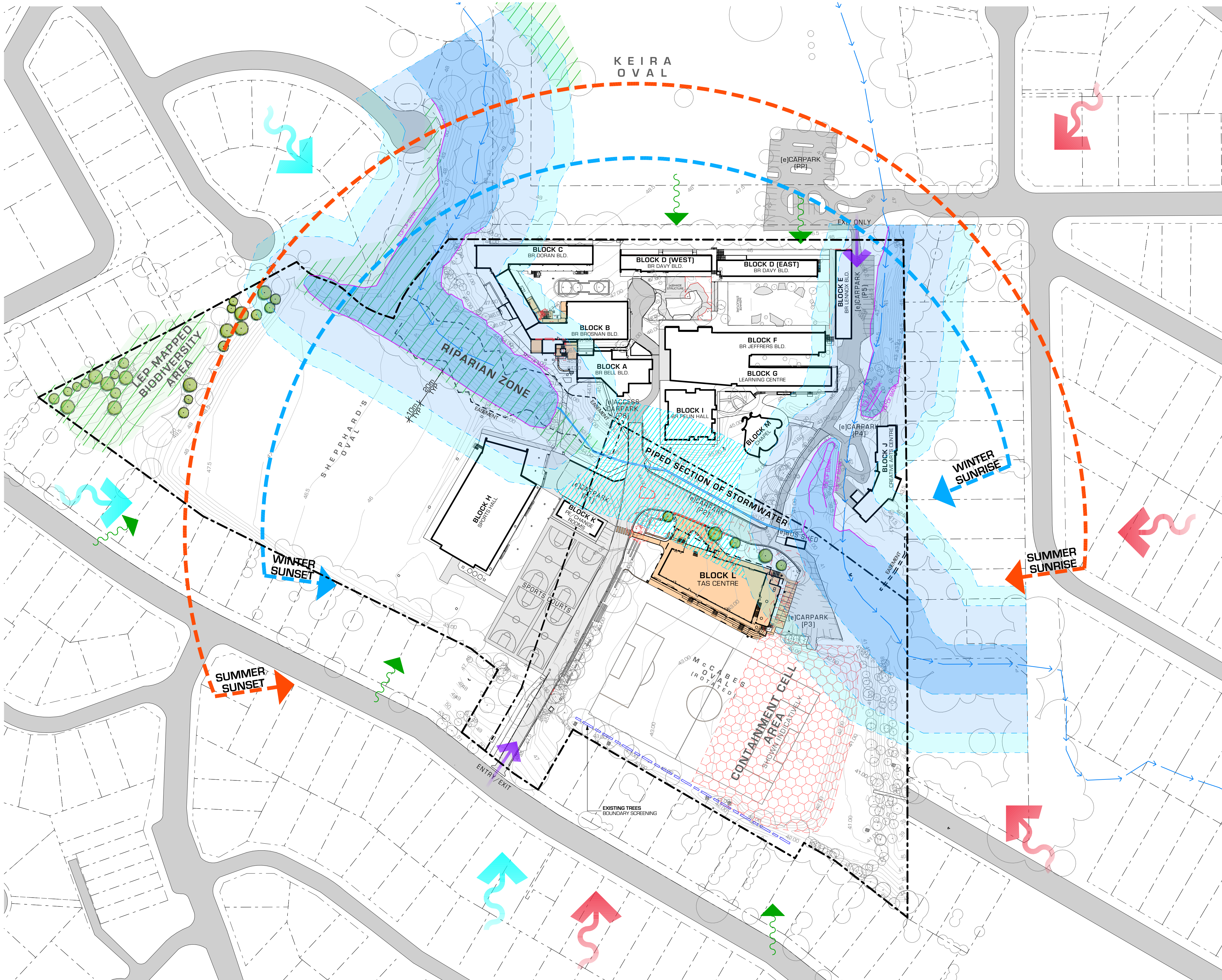
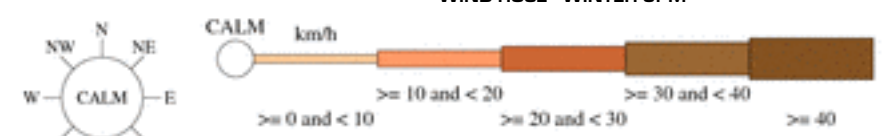
WIND ROSE - SUMMER 3PM



WIND ROSE - WINTER 8AM



WIND ROSE - WINTER 3PM



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30/11/2023 DEVELOPMENT APPLICATION 01

DATE REVISION ISSUE

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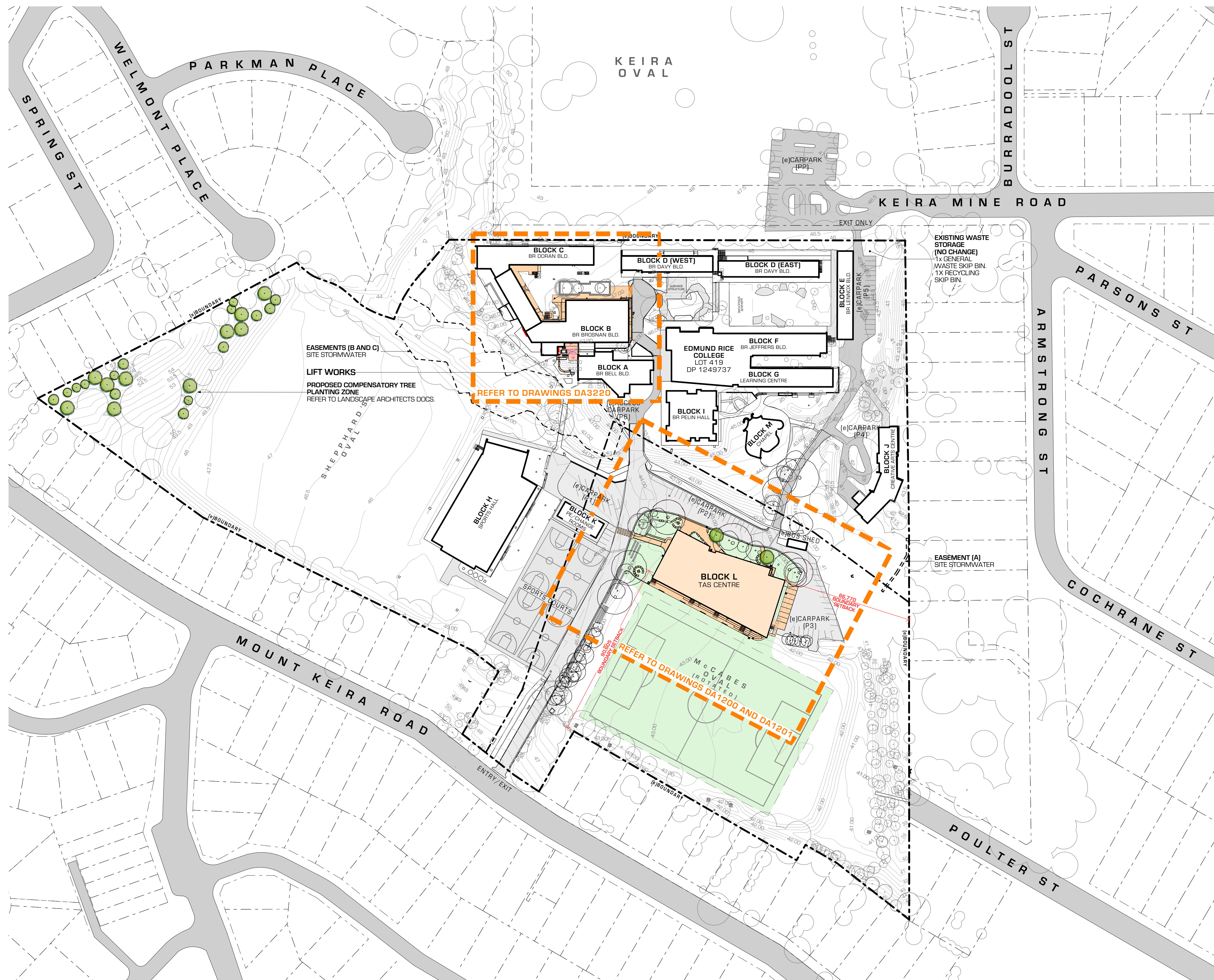
SITE

SITE ANALYSIS PLAN

JOB NUMBER DRAWING NUMBER ISSUE

2301 DA1101 01

DEVELOPMENT APPLICATION



AYLIE O'HANLON
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LEGEND
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(e) EXISTING
(n) NEW
(c) CONCRETE
(g) GARDEN BED
(p) POWER POLE
(s) STORM WATER
(swp) STORM WATER PIT
PROPOSED WORKS
CONTRACTOR COMPOUND
EXISTING TREE

INDICATIVE SITE FENCING
INDICATIVE TREE PROTECTION
EXISTING SEWER
EXISTING WATER
EXISTING TELECOMMUNICATIONS
EXISTING POWER
EXISTING STORMWATER
NOTES
1) ALL TREES WITHIN CONSTRUCTION AREAS. PROVIDE PROTECTION TO AS4970
2) SEDIMENT CONTROL - REFER TO CIVIL ENG. DOCS.

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6/08/2024 DEVELOPMENT APPLICATION 02
30/11/2023 DEVELOPMENT APPLICATION 01

DATE REVISION ISSUE

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DRAWING TITLE

SITE

INDICATIVE SITE

MANAGEMENT PLAN

JOB NUMBER DRAWING NUMBER ISSUE

2301 DA1103 02

DEVELOPMENT APPLICATION

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DEMOLITION PLAN LEGEND
NOTE: IF AN (E) IS LOCATED AT THE FRONT OF AN ABBREVIATION IT INDICATES THE ELEMENT IS EXISTING. OTHERWISE IT SHOULD BE ASSUMED AS NEW (N).
(E) EXISTING
AFL ABOVE FLOOR LEVEL
B BALCONY
BH BULK HEAD
BIT BUTT JUNCTION
C COLUMN
CU CONTROL JOINT
CL LIGHT WEIGHT CLADDING
CONC CONCRETE
CPT CARPET
CT CERAMIC TILE
D DOWNPIPE
(E) EXISTING
ES EDGE STRIP
EGB ELECTRICAL DISTRIBUTION BOARD
FW FLOOR WASTE
G GRATE
GB GARDEN BED
GM GAS LINE MARKER
H HAND RAIL
P PROJECTOR
PAV PAVING
PB PLASTERBOARD
PJ CONG PANEL JOINT
MU METAL FLASHING
NB NOTICEBOARD
PP POWER POLE
RL RELOCATE
RC RIDGE CAPPING
RS SECURITY ROLLER
SH SHUTTER
RFL RESILIENT FLOOR
RW RAIN WATER TANK
S SEAT
SB SMART BOARD
SK SKYLIGHT
SWP STORM WATER PIT
VNL VINYL
WB WATER BOARD
WC WATER CLOSET
WM WATER LINE MARKER

SYMBOL LEGEND
EXISTING TREE TO REMAIN
REMOVE EXISTING TREE

FILL LEGEND
DEMOLITION EXTENT
OUTLINE OF PROPOSED BUILDING

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6/08/2024 DEVELOPMENT APPLICATION 02
30/11/2023 DEVELOPMENT APPLICATION 01

DATE REVISION ISSUE

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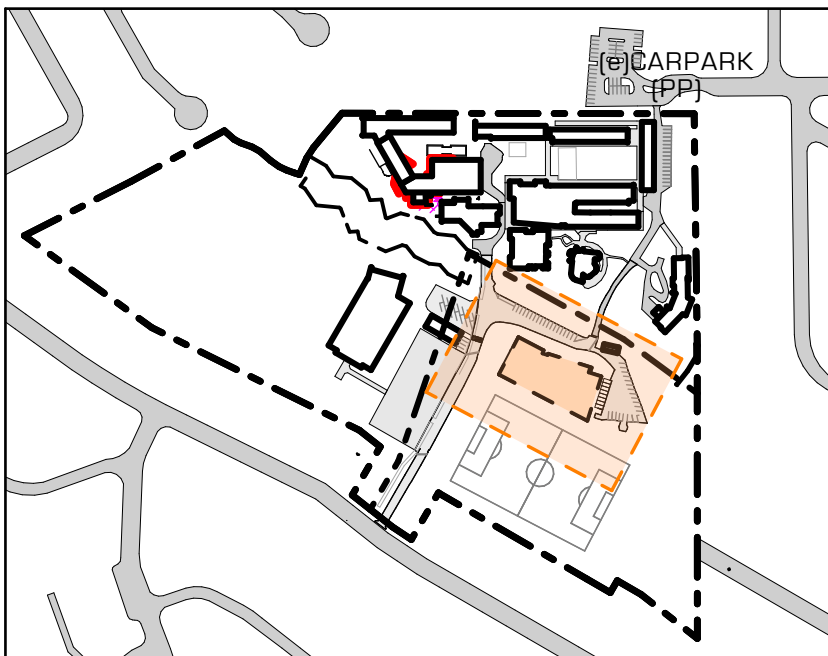
DRAWING TITLE
DETAILED SITE PLANS

01 - DEMOLITION PLAN

JOB NUMBER DRAWING NUMBER ISSUE

2301 DA1200 02

DEVELOPMENT APPLICATION



KEY PLAN
1:5000

MCCABES
OVAL
(E) OVAL TO BE
ROTATED

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LEGEND
NOTE: IF AN (e) IS LOCATED AT THE FRONT OF AN ABBREVIATION IT INDICATES THE ELEMENT IS EXISTING, OTHERWISE IT SHOULD BE ASSUMED AS NEW (n)
BIV BUILDING ISOLATION VALVE
BOL BOLLARD
CGP COMPACTED GRAVEL PATH
CONC CONCRETE
F - IV FIRE SYSTEM - ISOLATION VALVE
F - M FIRE MARKER
FEN FENCE
G - M GAS MARKER
GP GOAL POST
HR HAND RAIL
HT HOSE TAP
KR KERB RAIL
LP LIGHTPOST
PCP PRECAST CONCRETE PLANK
RB REMOVABLE BOLLARD
RWT RAIN WATER TANK
SCW SECURITY CAMERA
ST SAND STONE
SW CVT SEWER CULVERT
SWP STORM WATER PIT
U/L UP LIGHT
W - M WATER MARKER



PROPOSED BUILDING WORKS
PROPOSED SITE WORKS
PROPOSED LANDSCAPE WORKS

EXISTING BOUNDARY
EXISTING SEWER
EXISTING WATER
EXISTING TELECOMMUNICATIONS
EXISTING POWER
EXISTING STORMWATER

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PROJECT
**EDMUND RICE COLLEGE,
WEST WOLLONGONG - TAS
BUILDING & ACCESS
WORKS DA**

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CLIENT
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6/08/2024 DEVELOPMENT APPLICATION 03
9/07/2024 CONSULTANT ISSUE 02
30/11/2023 DEVELOPMENT APPLICATION 01

DATE REVISION ISSUE

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DRAWING TITLE

DETAILED SITE PLANS

DETAILED SITE PLAN SHEET

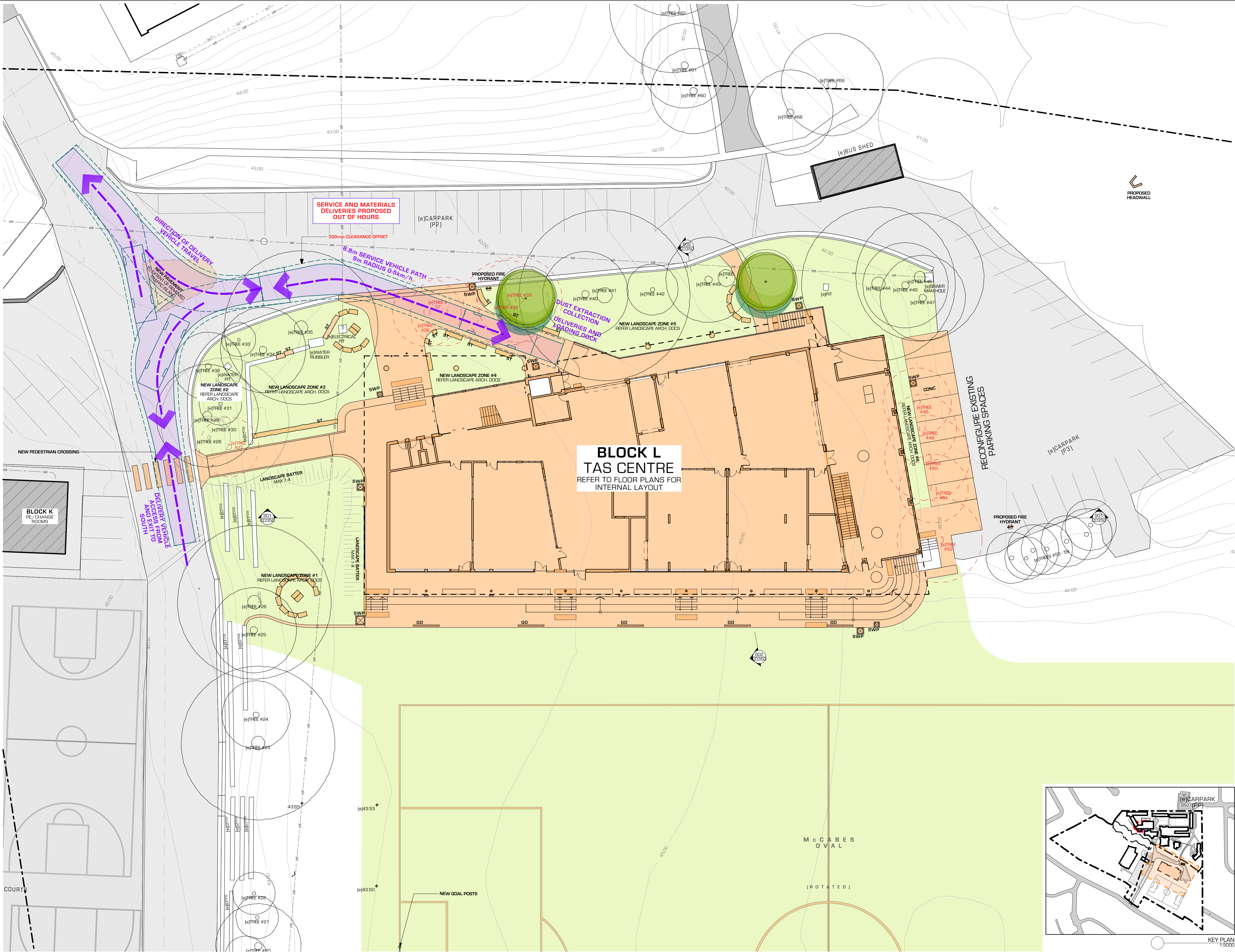
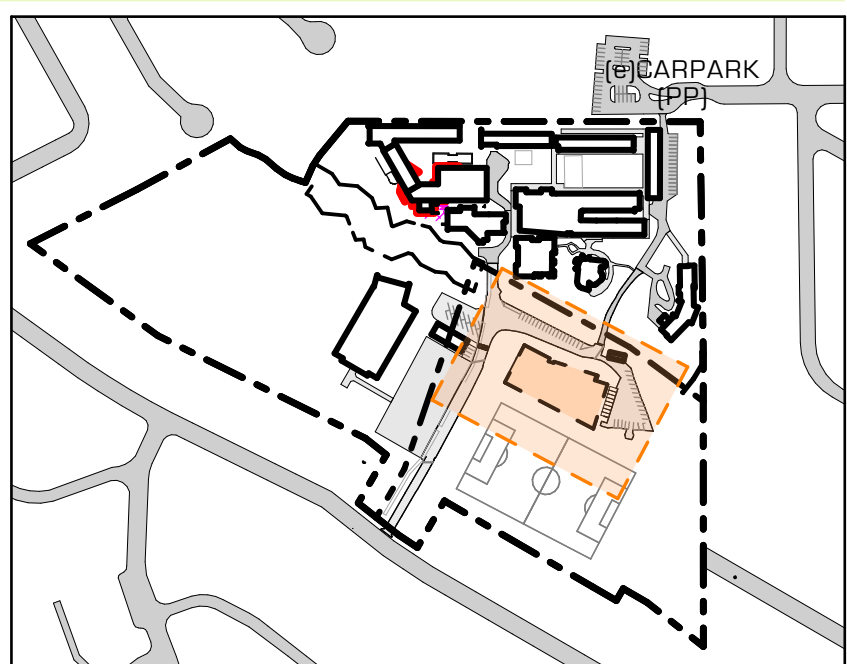
02

JOB NUMBER DRAWING NUMBER ISSUE

2301 DA1201 03

DEVELOPMENT APPLICATION

KEY PLAN
1:5000







FLOOR PLAN LEGEND			
NOTE: IF AN (N) IS LOCATED AT THE FRONT OF AN ABBREVIATION IT INDICATES THE ELEMENT IS EXISTING, OTHERWISE IT SHOULD BE ASSUMED AS NEW (N)			
(W) EXISTING	FH FIRE HYDRANT	SHD SUN SHADING	
AC AIR CONDITIONER	FHR FIRE HOSE REEL	SK SKYLIGHT	
AV AUDIO VISUAL EQUIPMENT	FW FLOOR WASTE	ST SAND STONE	
BH BULK HEAD	GM GAS MANNER	SWP STORMWATER PIT	
BOL BOLLARD	GUL GULLY	TG TACTILE GROUND INDICATOR	
C CONC CONCRETE	HT HOT WATER TAP	TR THRESHOLD RAMP	
CPT DOWNPIPE	HWS HOT WATER SYSTEM	VNL VINYL	
EDB ELECTRICAL DISTRIBUTION BOARD	KE KERB AND GUTTER	VOS VERIFY ON SITE	
FEN FENCE	KB KERB	WC WATER CLOSET	
FL FLOORED FLOOR LEVEL	RL RAIN WATER TANK	WG WALL GRILLE	
	SC STEEL COLUMN		

SYMBOL LEGEND	
	EXISTING TREE TO REMAIN
	EXISTING TREE TO BE DEMOLISHED

HATCH LEGEND	
	PROPOSED BUILDING
	PROPOSED SITE WORKS
	PROPOSED VERTICAL CIRCULATION
	PROPOSED SOFT LANDSCAPING



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PROJECT
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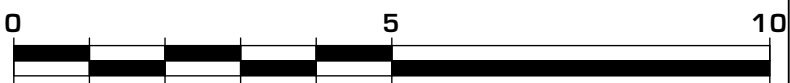
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CLIENT
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6/08/2024	DEVELOPMENT APPLICATION	02
30/11/2023	DEVELOPMENT APPLICATION	01

DATE	REVISION	ISSUE
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DATE: 6/08/2024



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DRAWING TITLE
**GENERAL ARRANGEMENT
BLOCK L - PROPOSED FIRST
FLOOR PLAN**

JOB NUMBER	DRAWING NUMBER	ISSUE
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2301 DA2221 02

DEVELOPMENT APPLICATION

AYLIE O'HANLON
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NSW ARCHITECTS REGISTRATION NO. 0460
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ROOF LEGEND
NOTE: IF AN (e) IS LOCATED AT THE FRONT OF AN ABBREVIATION IT INDICATES THE ELEMENT IS EXISTING, OTHERWISE IT SHOULD BE ASSUMED AS NEW:
(e) EXISTING
(n) NEW
BC BARGE CAPPING
DP DOWNSPIPE
GUE GUTTER - EAVES
MR METAL ROOF
RC RIDGE CAPPING
RPF ROOF PENETRATION FLASHING
RV RIDGE VENT
RWIT RAIN WATER TANK
SPD SPREADER DOWNSPIPE
SK SKY LIGHT
TR TRANSLUCENT ROOF SHEETING
VOS VERIFY ON SITE



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EDMUND RICE COLLEGE

30/11/2023 DEVELOPMENT APPLICATION 01

DATE REVISION ISSUE

SCALEBAR:

0 5 10

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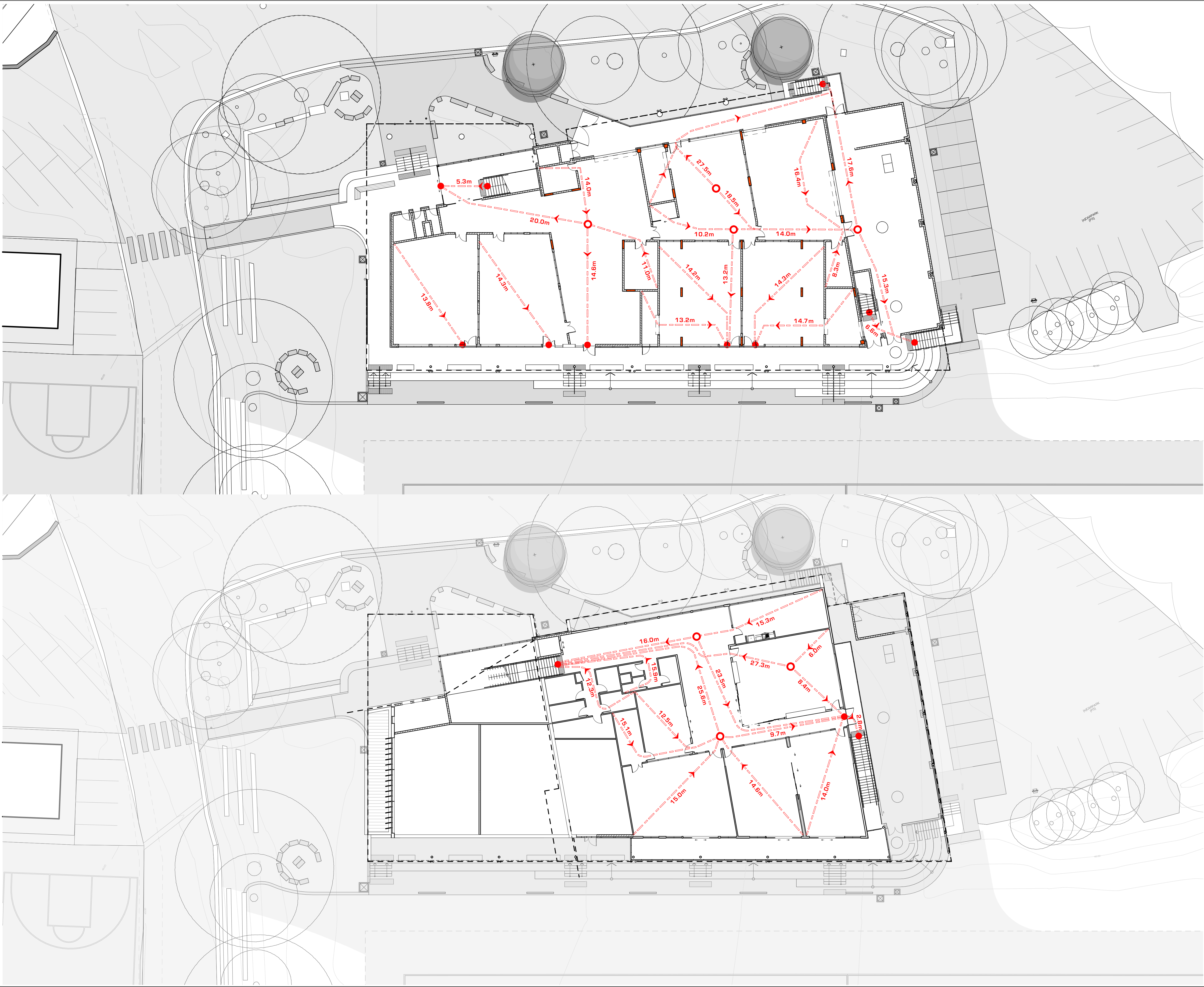
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DRAWING TITLE
**GENERAL ARRANGEMENT
BLOCK L - PROPOSED ROOF
PLAN**

JOB NUMBER DRAWING NUMBER ISSUE

2301 DA2222 01

DEVELOPMENT APPLICATION



AYLIE O'HANLON

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NSW ARCHITECTS REGISTRATION NO. 04660

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EGRESS PLAN LEGEND



POINT OF REQUIRED EXIT



POINT OF CHOICE BETWEEN REQUIRED EXITS



PATH OF EGRESS TRAVEL



DISTANCE BETWEEN ALTERNATIVE EXITS



1M WIDE PATH OF EGRESS



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EDMUND RICE COLLEGE

6/08/2024	DEVELOPMENT APPLICATION	02
30/11/2023	DEVELOPMENT APPLICATION	01

DATE	REVISION	ISSUE
SCALEBAR:		
0	10	20

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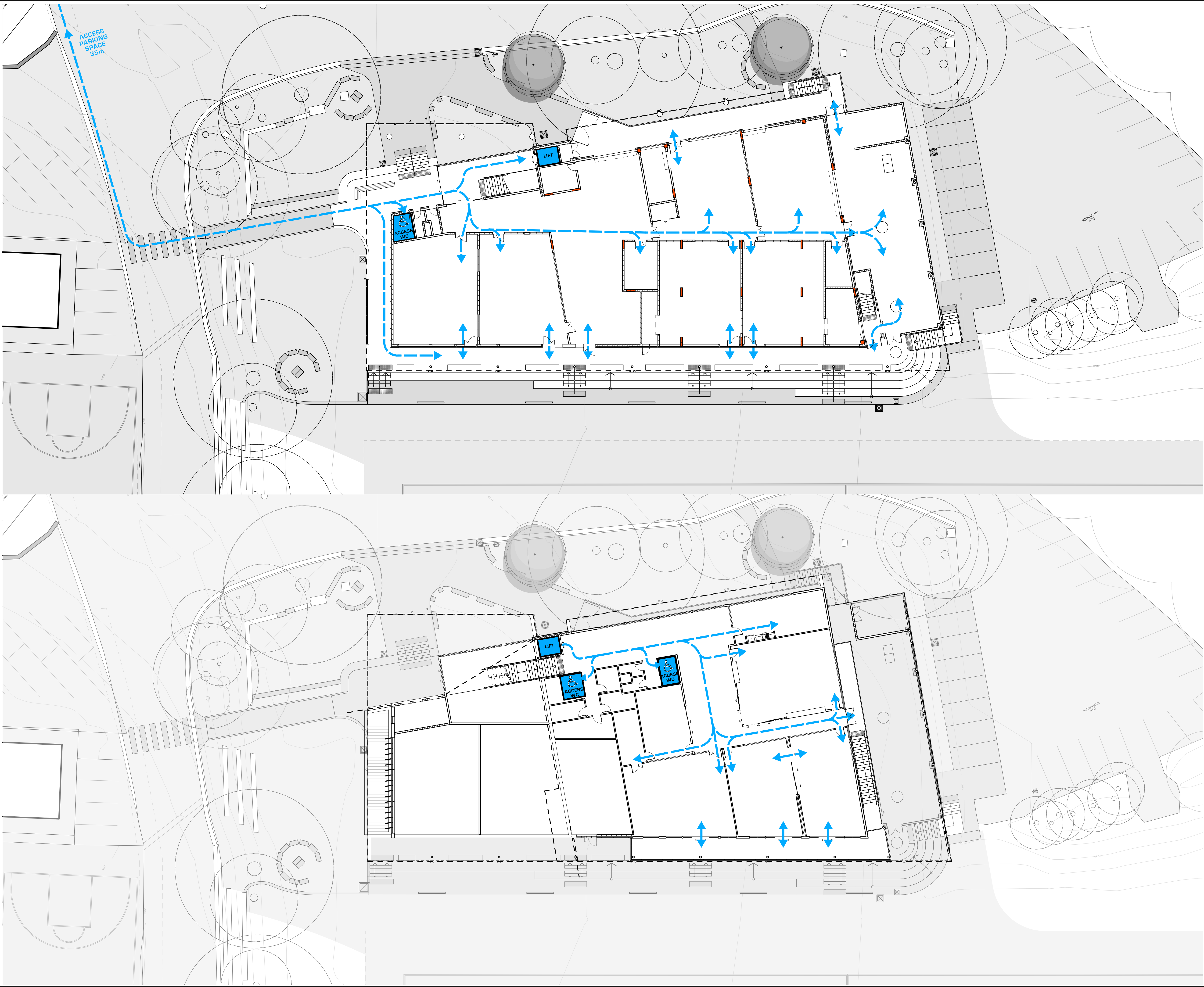
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DRAWING TITLE

EGRESS PLAN

BLOCK L - EGRESS PLANS

JOB NUMBER	DRAWING NUMBER	ISSUE
2301	DA2910	02
DEVELOPMENT APPLICATION		



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ACCESS PLAN LEGEND

PATH OF ACCESS TRAVEL

EXISTING ACCESS TRAVEL PATH TO BE UPGRADED

ACCESSIBLE TOILET

QOH

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PROJECT

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ADDRESS

112 Mount Keira Rd WEST WOLLONGONG NSW

CLIENT

EDMUND RICE COLLEGE

6/08/2024	DEVELOPMENT APPLICATION	02
30/11/2023	DEVELOPMENT APPLICATION	01

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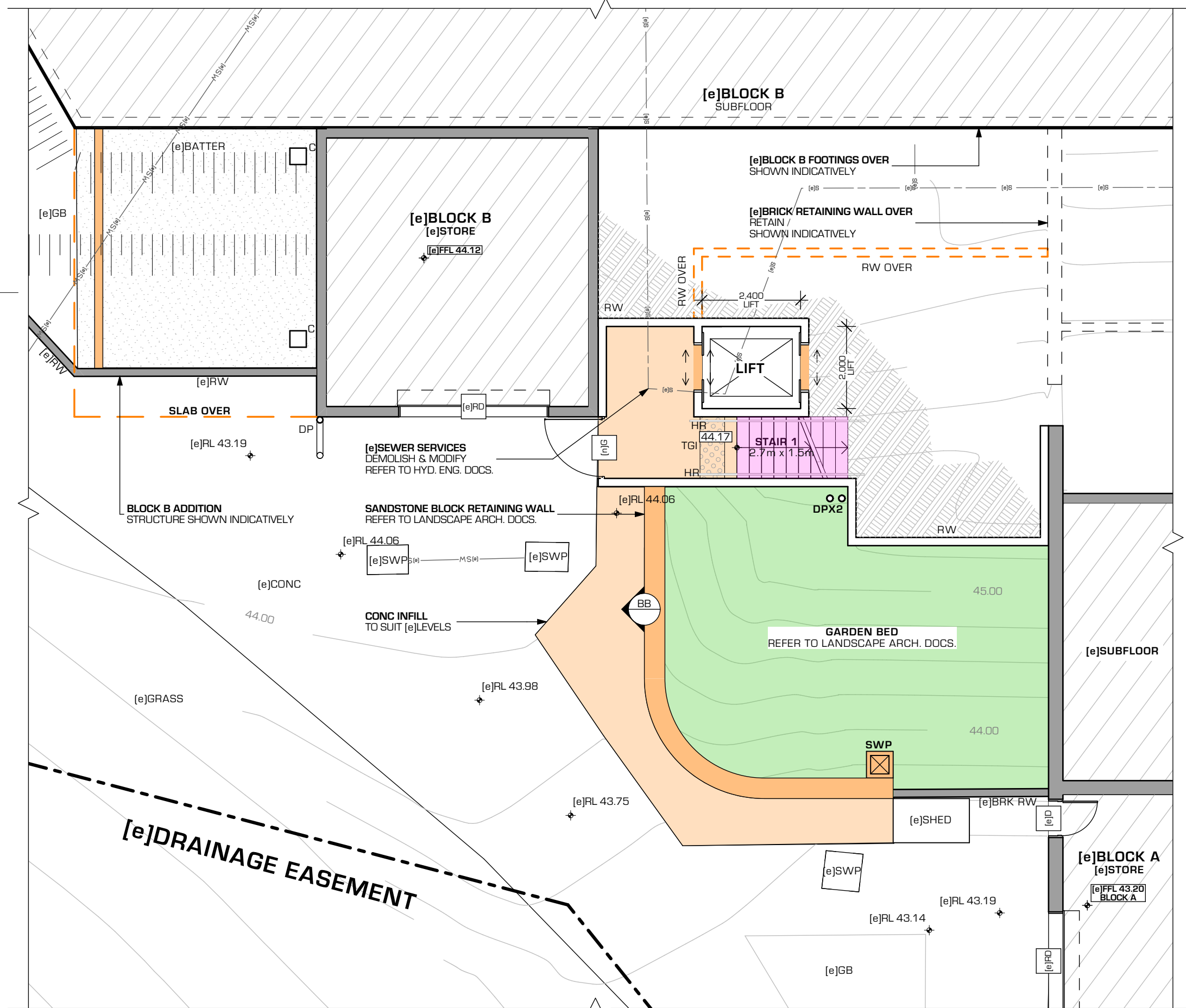
DRAWING TITLE

ACCESSIBILITY PLAN

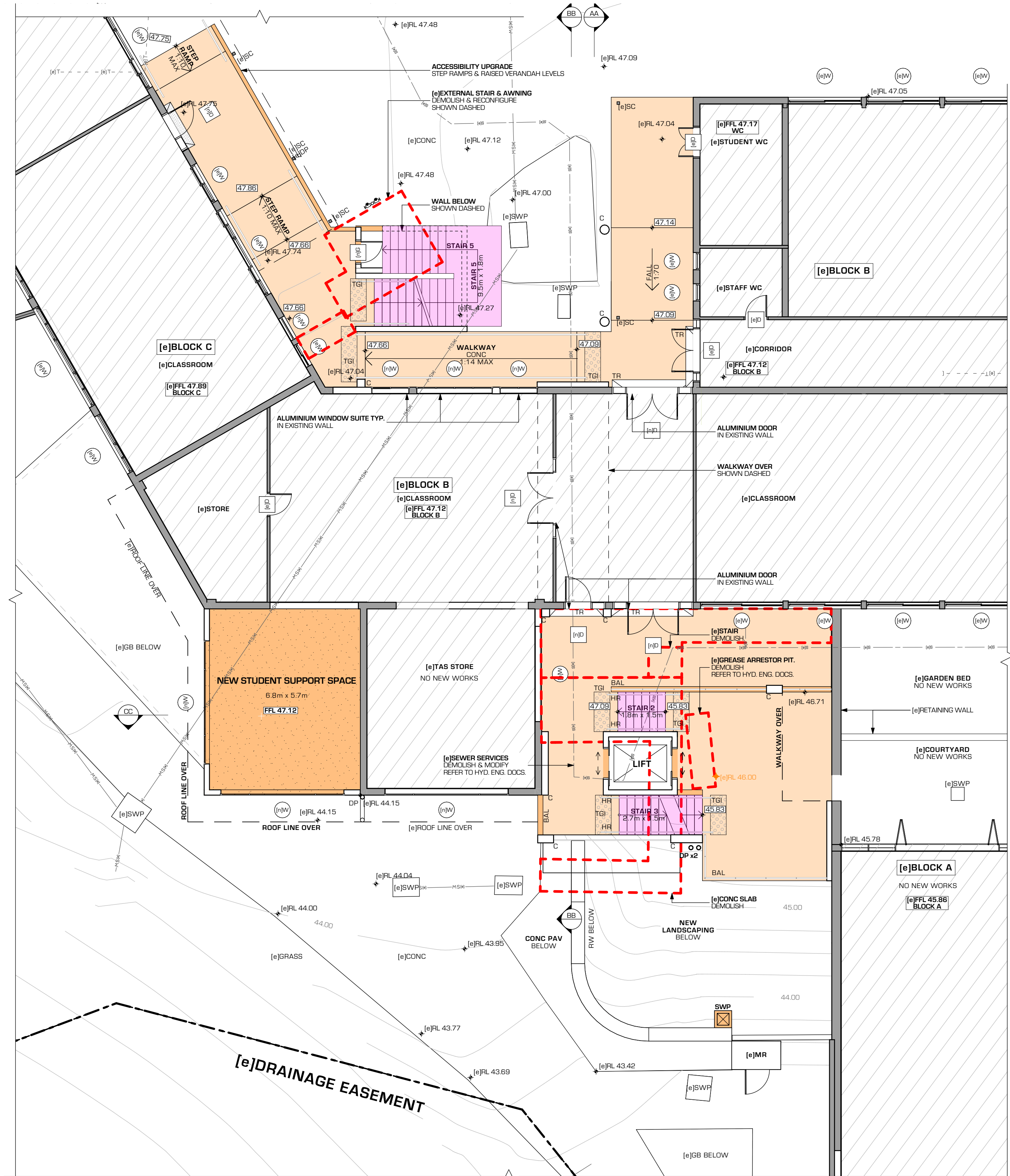
BLOCK L - ACCESSIBILITY PLANS

JOB NUMBER	DRAWING NUMBER	ISSUE
2301	DA2920	02
DEVELOPMENT APPLICATION		

[e]EASEMENTS
B - EASEMENT FOR DRAINAGE 20.115 WIDE (K443264)
C - RIGHT OF CARRIAGEWAY 20.115 WIDE (K443264)



LOWER GROUND FLOOR PLAN
1:100



GROUND FLOOR PLAN
1:100

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FLOOR PLAN LEGEND
NOTE: IF AN (e) IS LOCATED AT THE FRONT OF AN ABBREVIATION IT INDICATES THE ELEMENT IS EXISTING, OTHERWISE IT SHOULD BE ASSUMED AS NEW (n).
(e) EXISTING BALUSTRADE
(e) EXISTING COLUMN
(e) EXISTING CONCRETE DOOR
(e) EXISTING DOWNPIPE
(e) EXISTING FINISHED FLOOR LEVEL
(e) EXISTING FIRE HOSE REEL
(e) EXISTING FIRE HYDRANT
(n) NEW BALUSTRADE
(n) NEW COLUMN
(n) NEW CONCRETE
(n) NEW DOOR
(n) NEW DOWNPIPE
(n) NEW FINISHED FLOOR LEVEL
(n) NEW FIRE HOSE REEL
(n) NEW FIRE HYDRANT
(e) EXISTING FLOOR WASTE
(e) EXISTING GARDEN BED
(e) EXISTING METAL ROOF
(e) EXISTING RETAINING WALL
(e) EXISTING STEEL COLUMN
(e) EXISTING STORMWATER PIT
(e) EXISTING TBC
(n) NEW FLOOR WASTE
(n) NEW GARDEN BED
(n) NEW METAL ROOF
(n) NEW RETAINING WALL
(n) NEW STEEL COLUMN
(n) NEW STORMWATER PIT
(n) NEW TBC
(e) EXISTING TACTILE GROUND INDICATOR
(e) EXISTING TIME TO MATCH EXISTING THRESHOLD RAMP
(e) EXISTING TRI
(e) EXISTING VOS
(e) EXISTING W
(e) EXISTING WINDOW

HATCH LEGEND
PROPOSED BUILDING
PROPOSED SITE WORKS
PROPOSED VERTICAL CIRCULATION
PROPOSED SOFT LANDSCAPING
NO NEW WORKS
[e] EXISTING SEWER
[n] NEW SEWER
[e] EXISTING STORMWATER
[n] NEW STORMWATER
[e] EXISTING TELECOMMUNICATIONS
[n] NEW TELECOMMUNICATIONS

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CLIENT
EDMUND RICE COLLEGE

3/09/2024 DEVELOPMENT APPLICATION 02
30/11/2023 DEVELOPMENT APPLICATION 01

DATE REVISION ISSUE

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DRAWING TITLE

GENERAL ARRANGEMENT

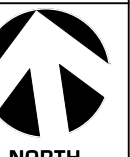
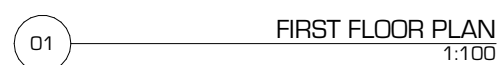
LIFT - LOWER GROUND &

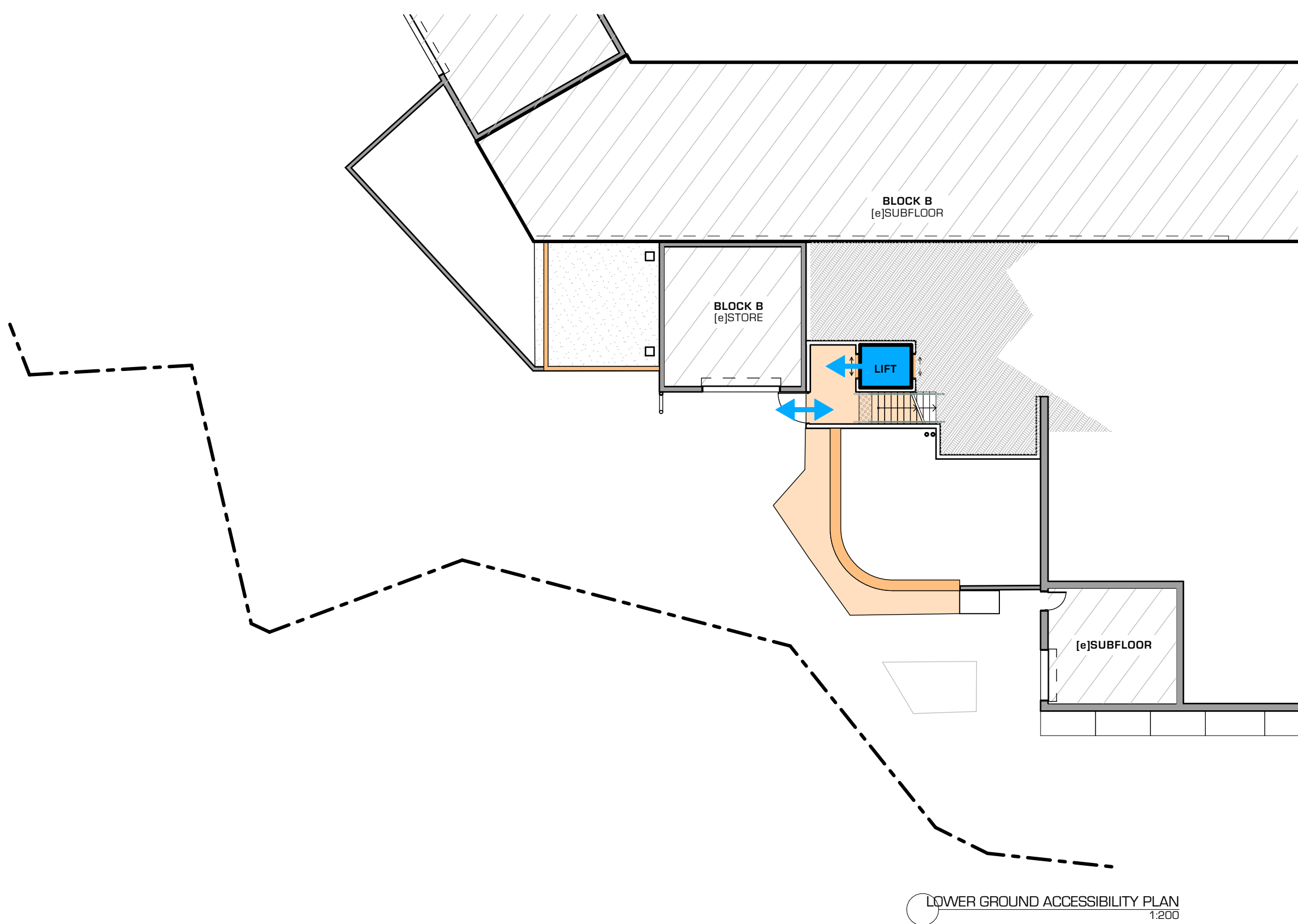
GROUND FLOOR PLAN

JOB NUMBER DRAWING NUMBER ISSUE

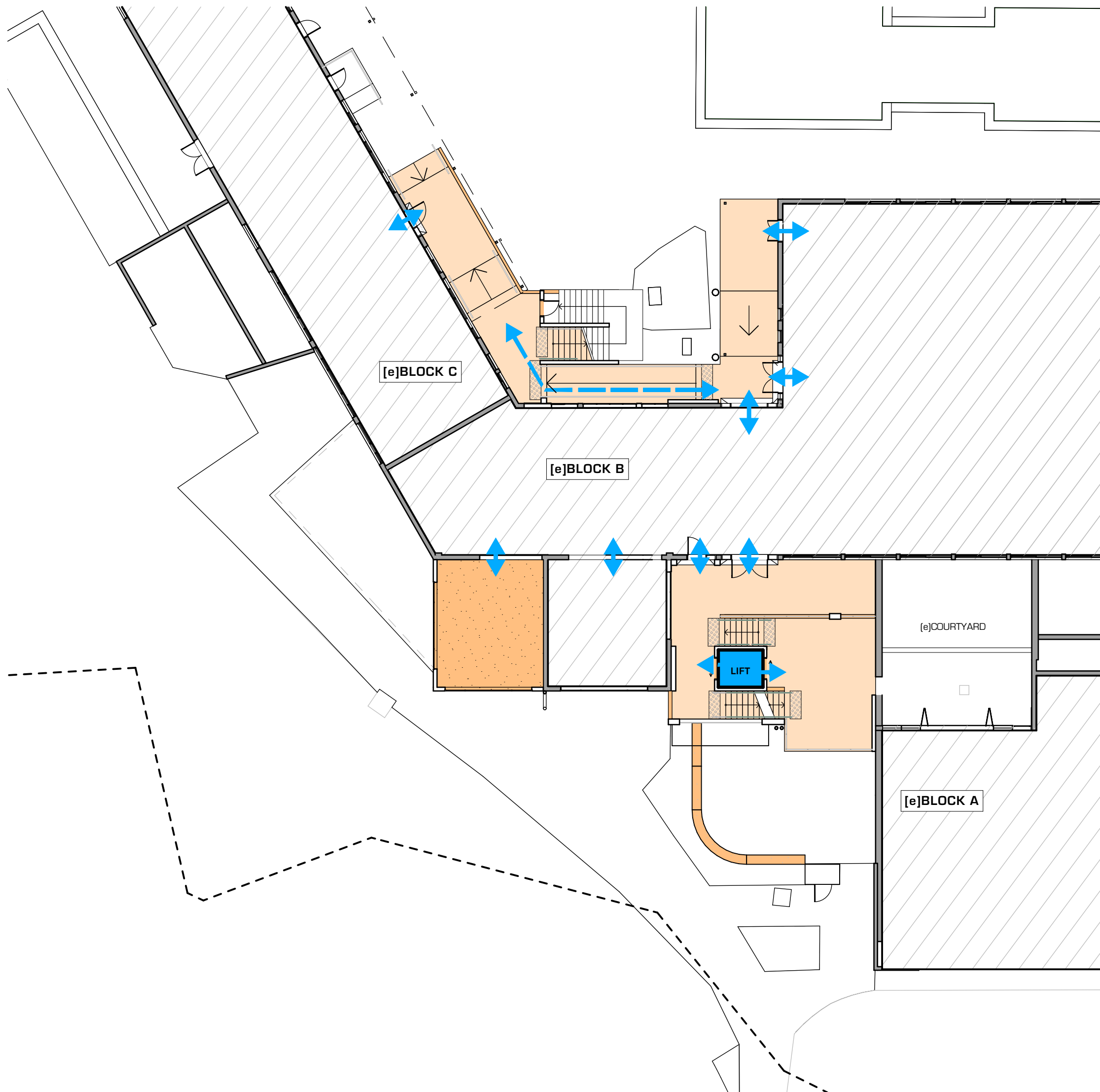
2301 DA3220 02

DEVELOPMENT APPLICATION

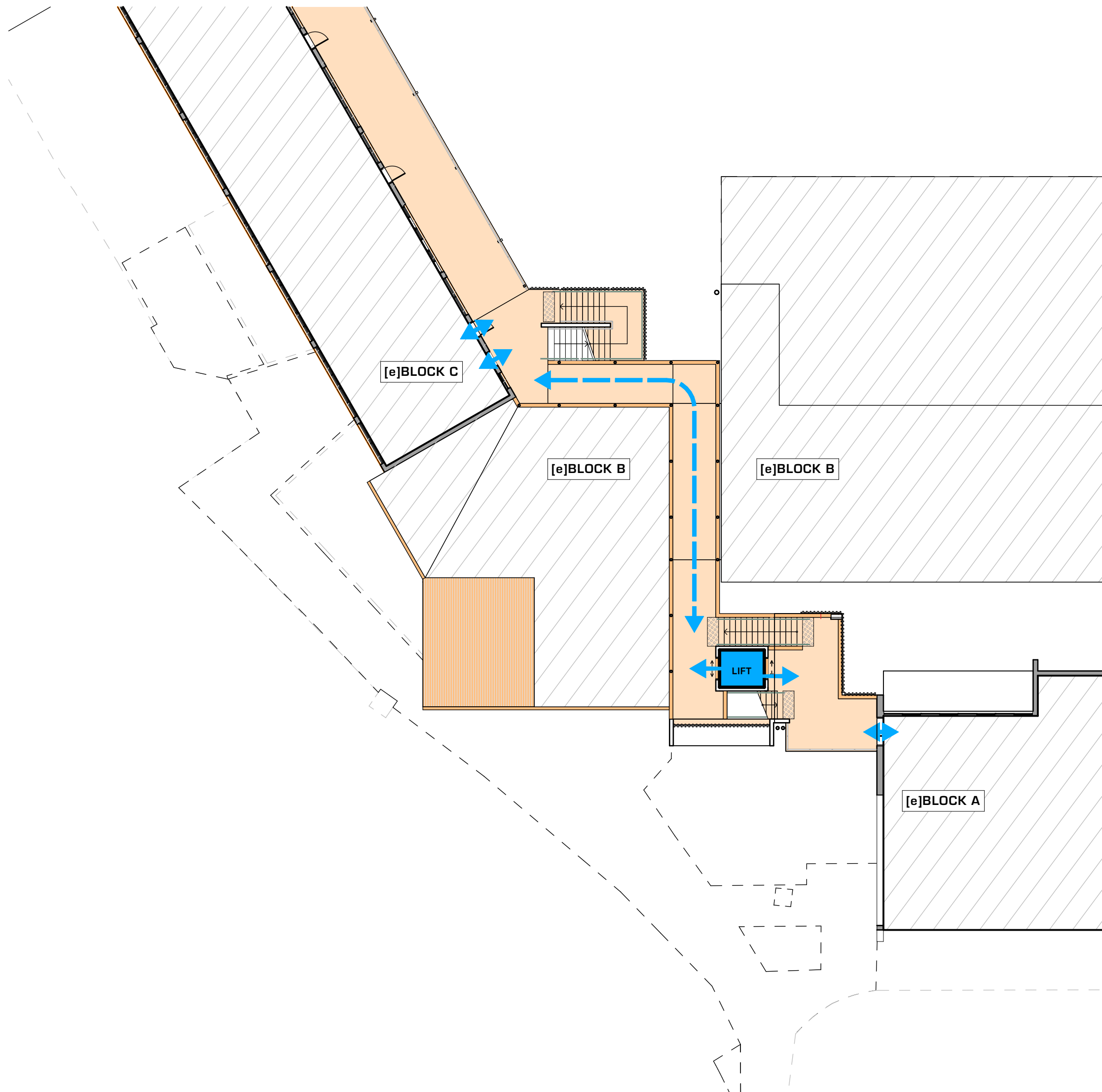




LOWER GROUND ACCESSIBILITY PLAN
1:200



GROUND FLOOR ACCESSIBILITY PLAN
1:200



FIRST FLOOR ACCESSIBILITY PLAN
1:200

AYLIE O'HANLON
QUINN O'HANLON ARCHITECTS - MANAGING DIRECTOR
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30/11/2023 DEVELOPMENT APPLICATION 01

DATE REVISION ISSUE

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DATE: 30/11/2023



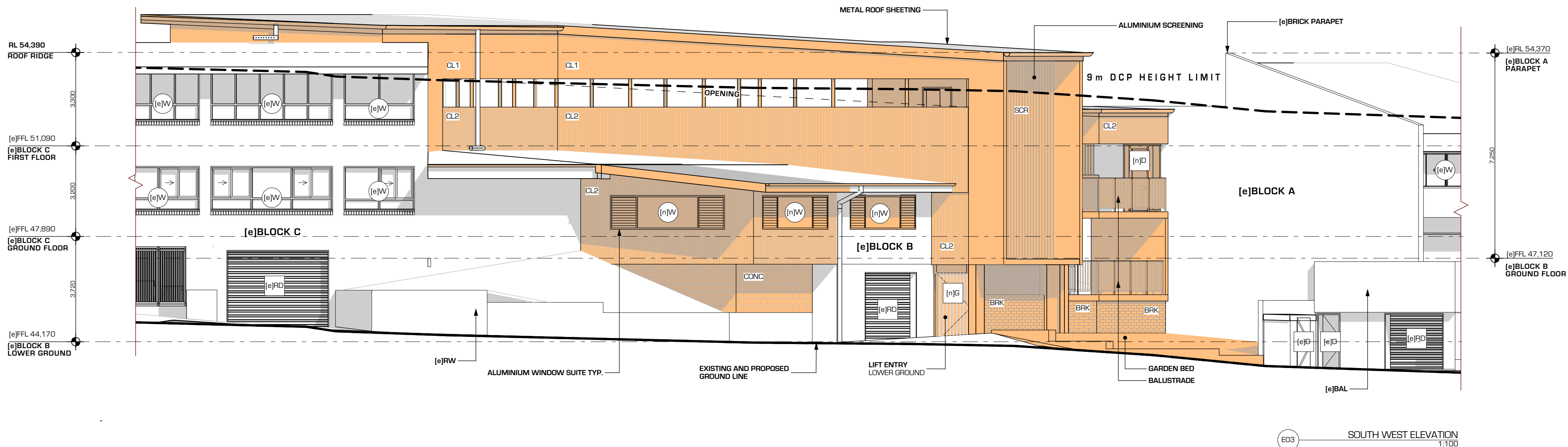
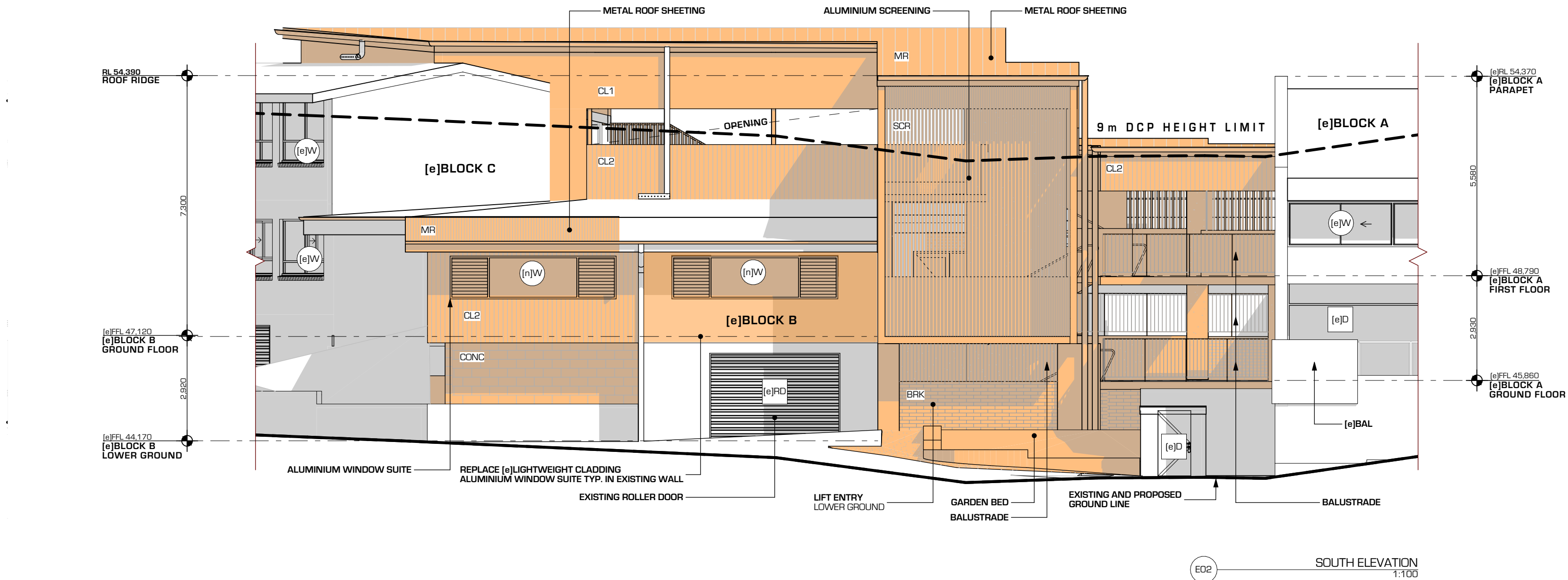
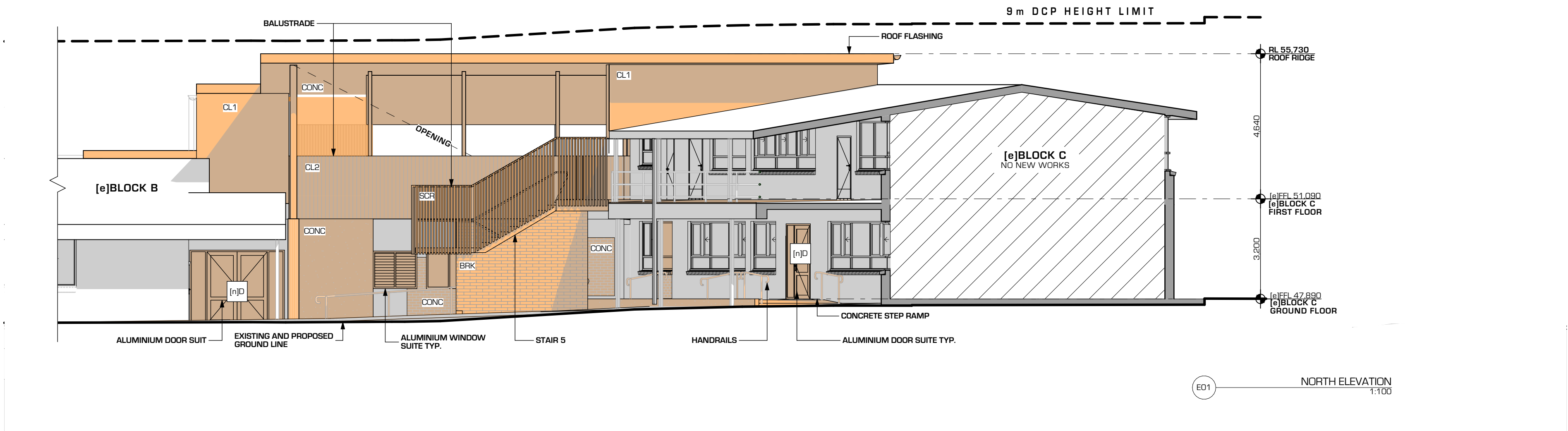
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DRAWING TITLE
**ACCESSIBILITY PLAN
LIFT - ACCESSIBILITY PLANS**

JOB NUMBER DRAWING NUMBER ISSUE

2301 DA3920 01

DEVELOPMENT APPLICATION




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ELEVATION/SECTION LEGEND

NOTE: F AN (e) IS LOCATED AT THE FRONT OF AN ABBREVIATION IT INDICATES THE ELEMENT IS EXISTING, OTHERWISE IT IS SHOWN AS NEW (n)

EX	EXISTING	NEW	
BAL	BALUSTRADE	RD	ROLLER DOOR
BRK	BRICK	RL	RELATIVE LEVEL
CL	CLADDING (LIGHTWEIGHT)	RV	RETAINING WALL
CL1	CONCRETE	RWT	RAIN WATER TANK
CL2	DOWN PIPE	SC	STEEL COLUMN
CL	FINISHED CEILING LEVEL	SCR	BATTENED SCREEN
RFL	FINISHED FLOOR LEVEL	SPD	SREADER DOWNPIPE
HI	HANDRAIL	TG	TACTILE GROUND INDICATOR
MR	METAL ROOF	TOW	TOP OF WALL
NS	PLASTERBOARD	TBC	TO BE CONFIRMED
PT	PART FINISH		

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3/09/2024	DEVELOPMENT APPLICATION	02
30/11/2023	DEVELOPMENT APPLICATION	01
DATE	REVISION	ISSUE

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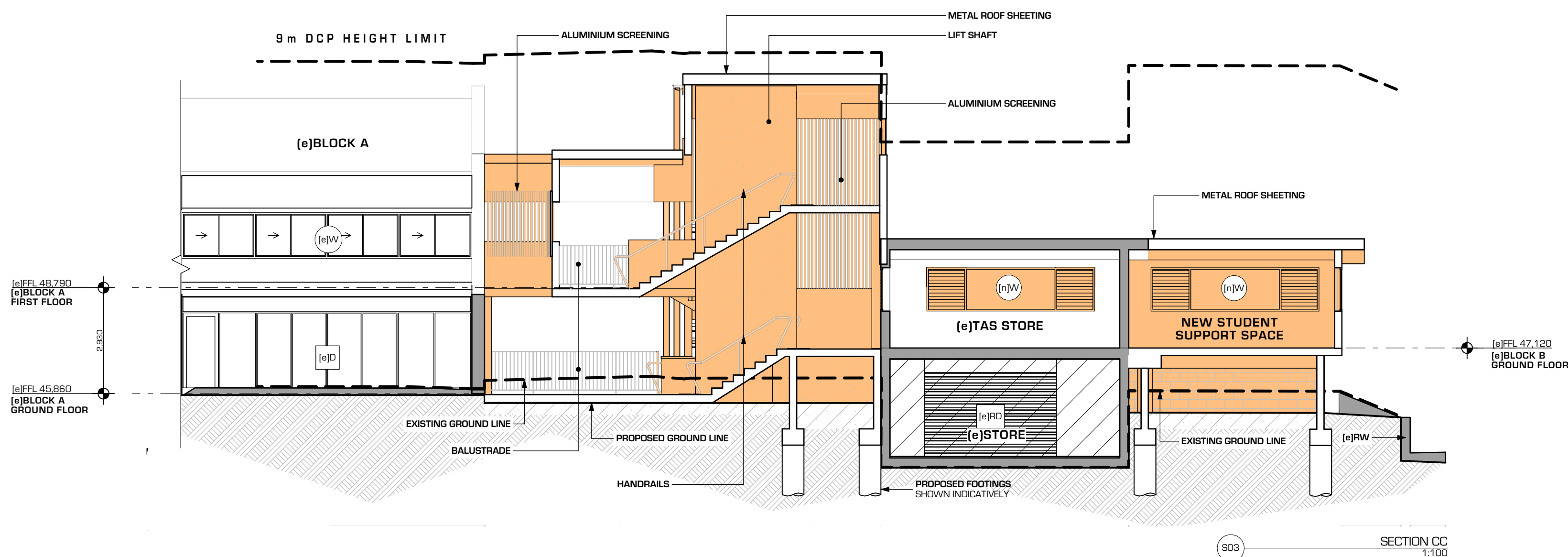
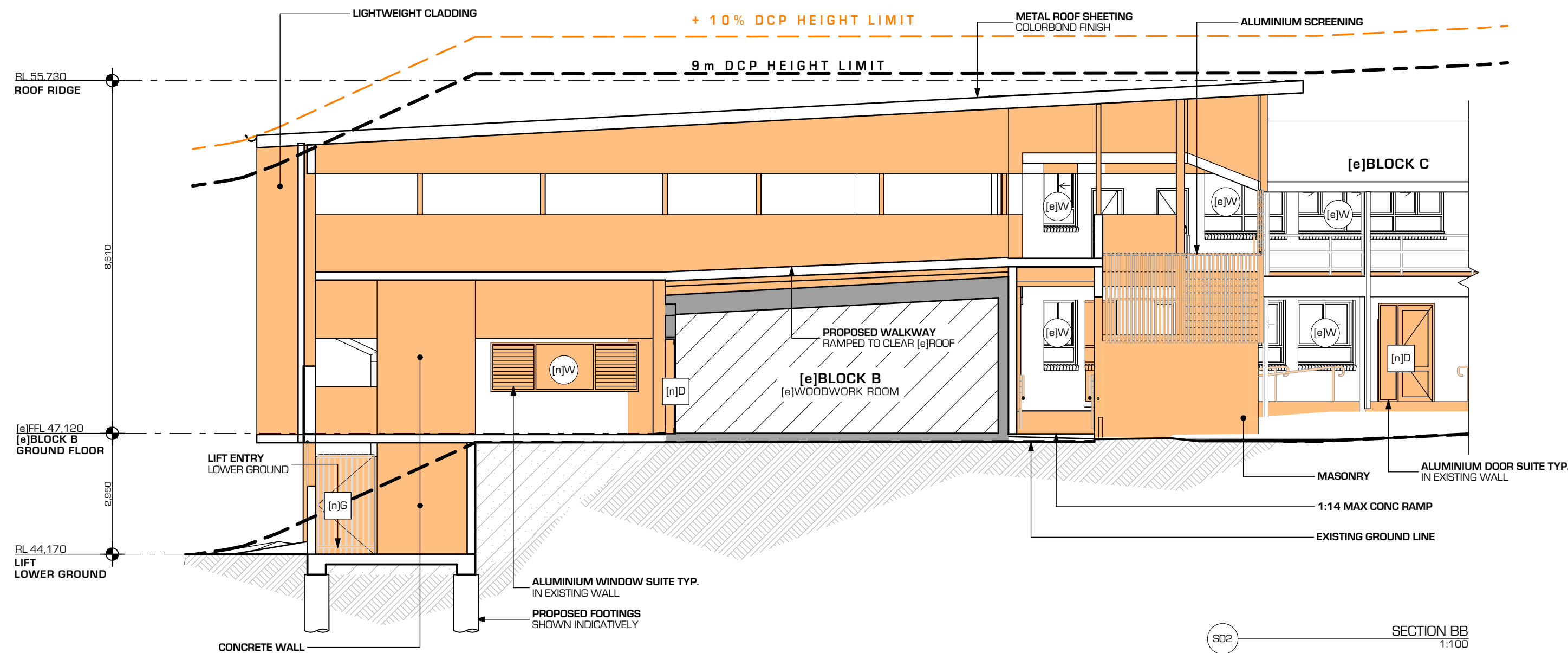
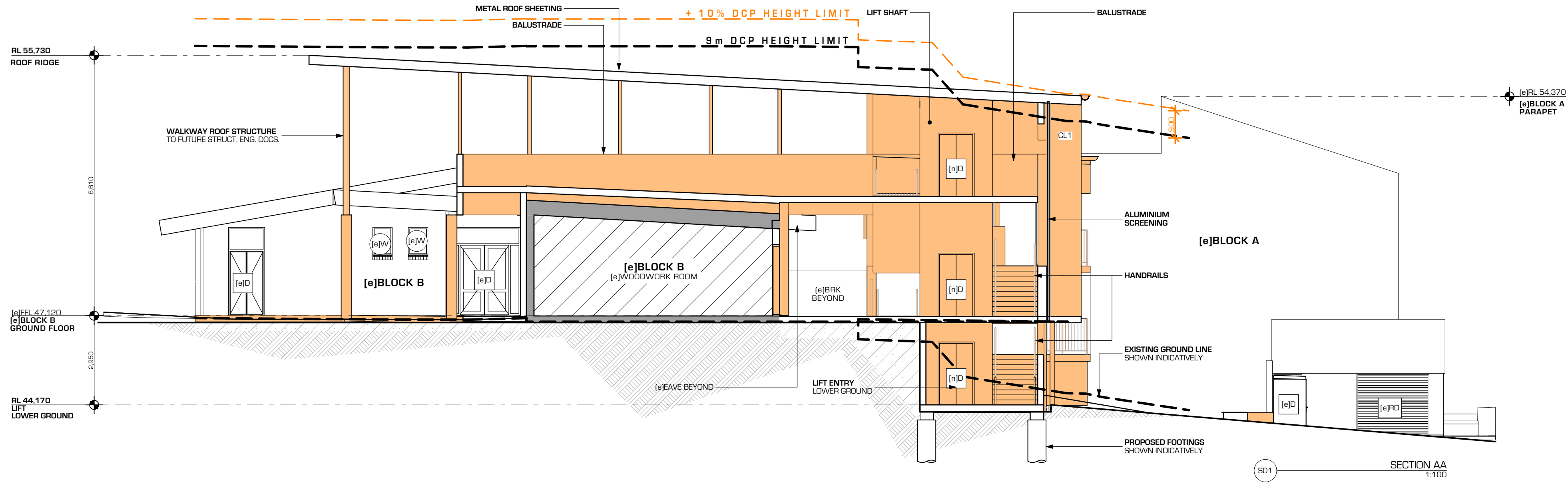
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DRAWING TITLE
ELEVATIONS
LIFT - ELEVATIONS

JOB NUMBER	DRAWING NUMBER	ISSUE
2301	DA3300	02
DEVELOPMENT APPLICATION		



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(e) EXISTING	(n) NEW	BAL BALUSTRADE	CL RELATIVE LEVEL	RD ROLLER DOOR
BAL BALUSTRADE	CL RELATIVE LEVEL	RD ROLLER DOOR	RD ROLLER DOOR	RD ROLLER DOOR
BRW BRICK	CL RELATIVE LEVEL	RD ROLLER DOOR	RD ROLLER DOOR	RD ROLLER DOOR
CL RELATIVE LEVEL	CL RELATIVE LEVEL	RD ROLLER DOOR	RD ROLLER DOOR	RD ROLLER DOOR
CONC CONCRETE	CL RELATIVE LEVEL	RD ROLLER DOOR	RD ROLLER DOOR	RD ROLLER DOOR
DP DOWN PIPE	CL RELATIVE LEVEL	RD ROLLER DOOR	RD ROLLER DOOR	RD ROLLER DOOR
FCL FINISHED CEILING LEVEL	CL RELATIVE LEVEL	RD ROLLER DOOR	RD ROLLER DOOR	RD ROLLER DOOR
FRL FINISHED FLOOR LEVEL	CL RELATIVE LEVEL	RD ROLLER DOOR	RD ROLLER DOOR	RD ROLLER DOOR
GR HANDRAIL	CL RELATIVE LEVEL	RD ROLLER DOOR	RD ROLLER DOOR	RD ROLLER DOOR
MR METAL ROOF	CL RELATIVE LEVEL	RD ROLLER DOOR	RD ROLLER DOOR	RD ROLLER DOOR
PS PLASTERBOARD	CL RELATIVE LEVEL	RD ROLLER DOOR	RD ROLLER DOOR	RD ROLLER DOOR
PT PAINT FINISH	CL RELATIVE LEVEL	RD ROLLER DOOR	RD ROLLER DOOR	RD ROLLER DOOR

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30/11/2023	DEVELOPMENT APPLICATION	01
DATE	REVISION	ISSUE
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DRAWING TITLE
SECTIONS
LIFT - SECTIONS

JOB NUMBER	DRAWING NUMBER	ISSUE
2301	DA3350	01

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ELEVATION/SECTION LEGEND			
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(e)	EXISTING	(n)	NEW
AC	AIR CONDITIONER	MR	METAL ROOF
AV	AUDIO VISUAL EQUIPMENT	MSS	METAL SLATTED SCREEN
BAL	BALUSTRADE	PB	PLASTERBOARD
BRK	BRICK	PC	PRECAST CONCRETE
C	COLUMN	PT	PAINT FINISH
CL	CLADDING (LIGHTWEIGHT)	RL	REDUCED LEVEL
CLC	CONCRETE	RV	RETAINING WALL
CLD	DOWN LIGHT	RWT	RAIN WATER TANK
CLF	FINISHED CEILING LEVEL	SC	STEEL COLUMN
CLP	DOWN PIPE	SPD	SPREADER DOWNPIPE
CLV	FINISHED FLOOR LEVEL	SHD	SUN SHADING
FG	FIXED GLASS	SK	SKYLIGHT
FGH	HANDRAIL	TG	TACTILE GROUND INDICATOR
HWS	HOT WATER SYSTEM	TOW	TOP OF WALL
KR	KERB RAIL	VWG	WALL GRILLE
LW	LOUVER WINDOW		

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NEWCASTLE

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NEWCASTLE NSW 2293

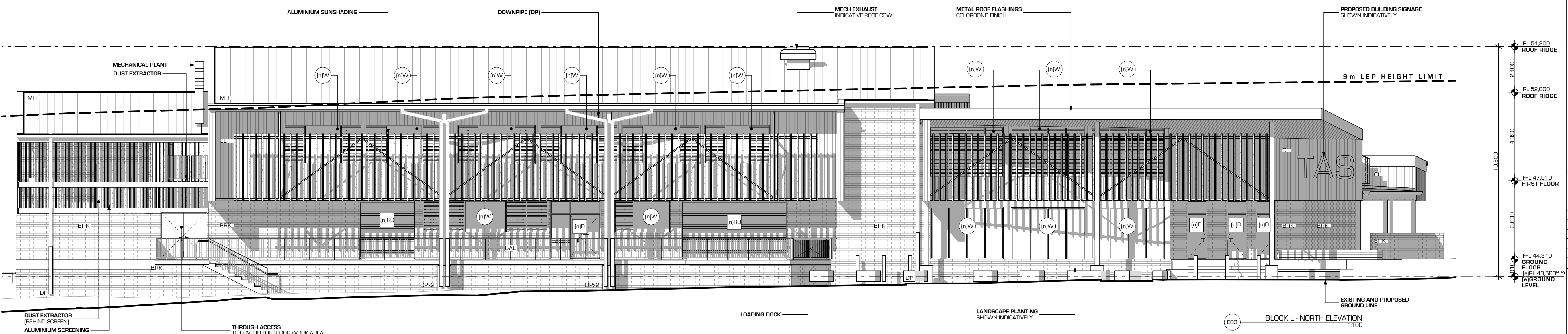
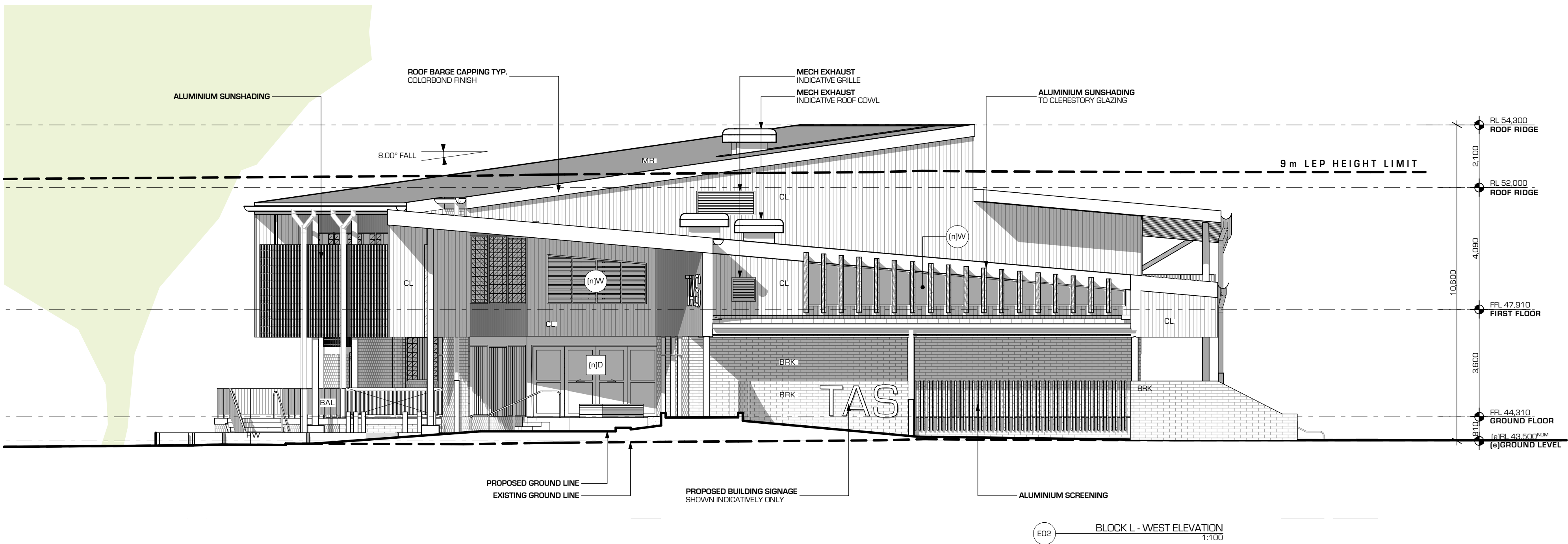
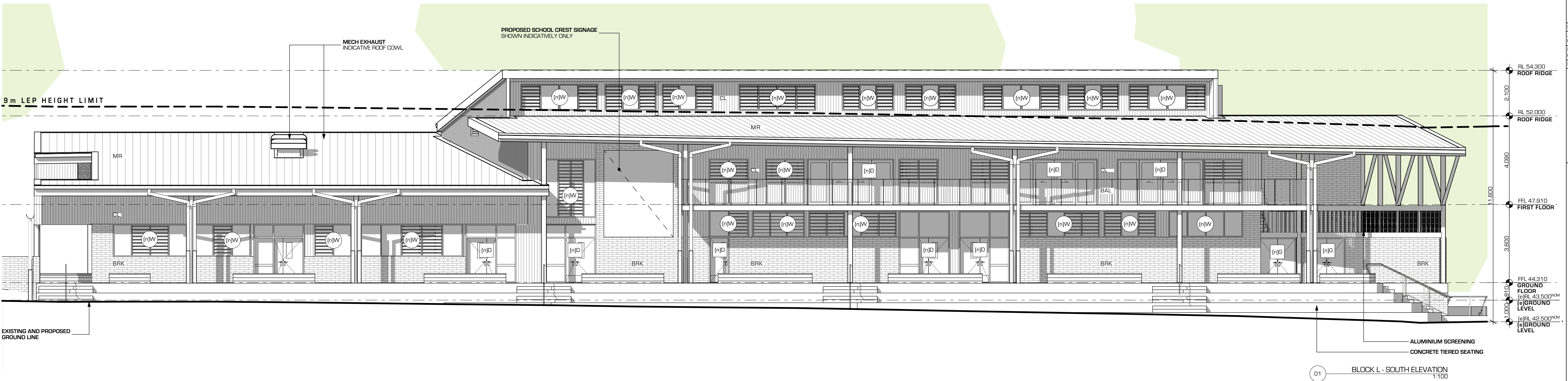
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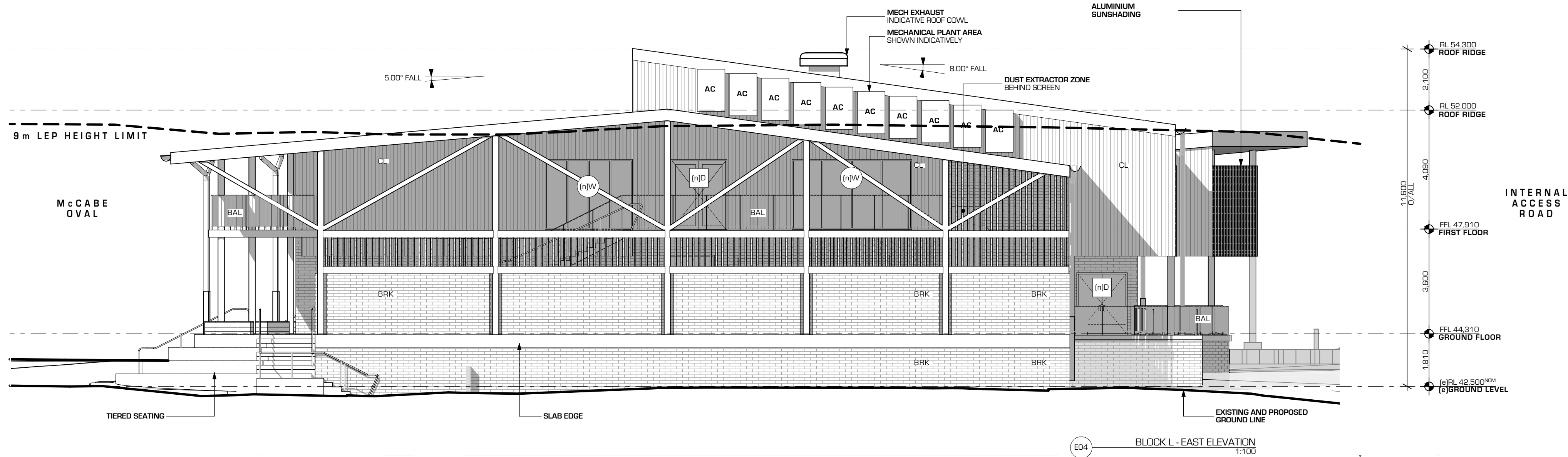
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6/08/2024	DEVELOPMENT APPLICATION	02
30/11/2023	DEVELOPMENT APPLICATION	01
DATE	REVISION	ISSUE
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SCALE: 1:100 @ A1		
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DRAWING TITLE		
ELEVATIONS		
BLOCK L - ELEVATIONS AND SECTIONS SHEET 01		
JOB NUMBER	DRAWING NUMBER	ISSUE
2301	DA2300	02
DEVELOPMENT APPLICATION		

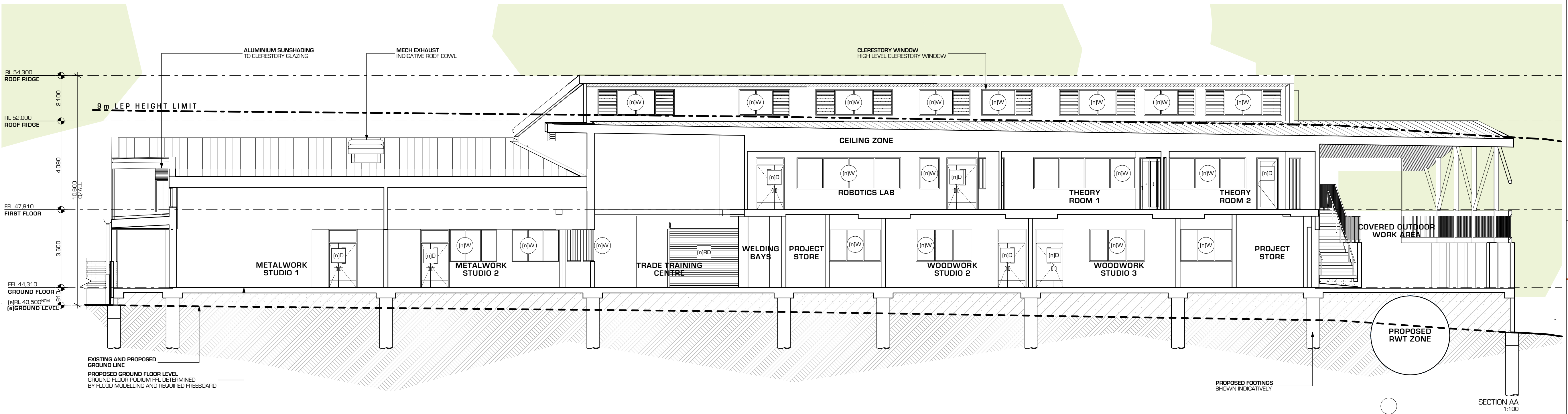




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AC	AIR CONDITIONER	MR	METAL ROOF
AV	AUDIO VISUAL EQUIPMENT	MSS	METAL SLATTED SCREEN
BAL	BALUSTRADE	PB	PLASTERBOARD
BRK	BRICK	PC	PRECAST CONCRETE
C	COLUMN	PT	PAINT FINISH
CL	CLADDING (LIGHTWEIGHT)	RL	REDUCED LEVEL
CONC	CONCRETE	RV	RETAINING WALL
DL	DOWN LIGHT	RW	RAIN WATER TANK
DP	DOWN PIPE	SC	STEEL COLUMN
FCL	FINISHED CEILING LEVEL	SPD	SPREADER DOWNPIPE
FEN	FENCE	SHD	SUN SHADING
FFL	FINISHED FLOOR LEVEL	SK	SKYLIGHT
FG	FIXED GLASS	TG	TACTILE GROUND INDICATOR
HR	HANDRAIL	TOW	TOP OF WALL
HWS	HOT WATER SYSTEM	VWG	WALL GRILLE
KR	KERB RAIL		
LW	LOUVER WINDOW		



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6/08/2024	DEVELOPMENT APPLICATION	02
30/11/2023	DEVELOPMENT APPLICATION	01

DATE	REVISION	ISSUE
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SCALEBAR:
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DRAWING TITLE
ELEVATIONS
**BLOCK L - ELEVATIONS AND
SECTIONS SHEET 02**

JOB NUMBER	DRAWING NUMBER	ISSUE
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2301 DA2301 02

DEVELOPMENT APPLICATION

DESIGN APPROACH DIAGRAMS

BUILDING FORM

- GUIDED BY 9M LEP HEIGHT LIMIT AND FLOOD LEVEL DESIGN REQUIREMENTS.
- ROOF FORM SET TO DECREASE PERCEPTION OF MASS AND BULK.
- BUILDING BULK REDUCED TO THE WEST TO ALLOW OTHER BUILDINGS TO BE EVIDENT IN THE BACKGROUND ON APPROACH ALONG THE MAIN DRIVE.
- HEAVY MASONRY GROUND FLOOR, LIGHTWEIGHT FIRST FLOOR + SHADING SCREEN
- TIERED SPECTATOR SEATING CREATES A SMOOTH TRANSITION BETWEEN BUILDING AND SPORTS FIELDS.
- MAINTAIN EXISTING OR REPLACE TREES WHERE POSSIBLE TO SOFTEN APPEARANCE OF FACADES.

ECOLOGICALLY SUSTAINABLE DEVELOPMENT

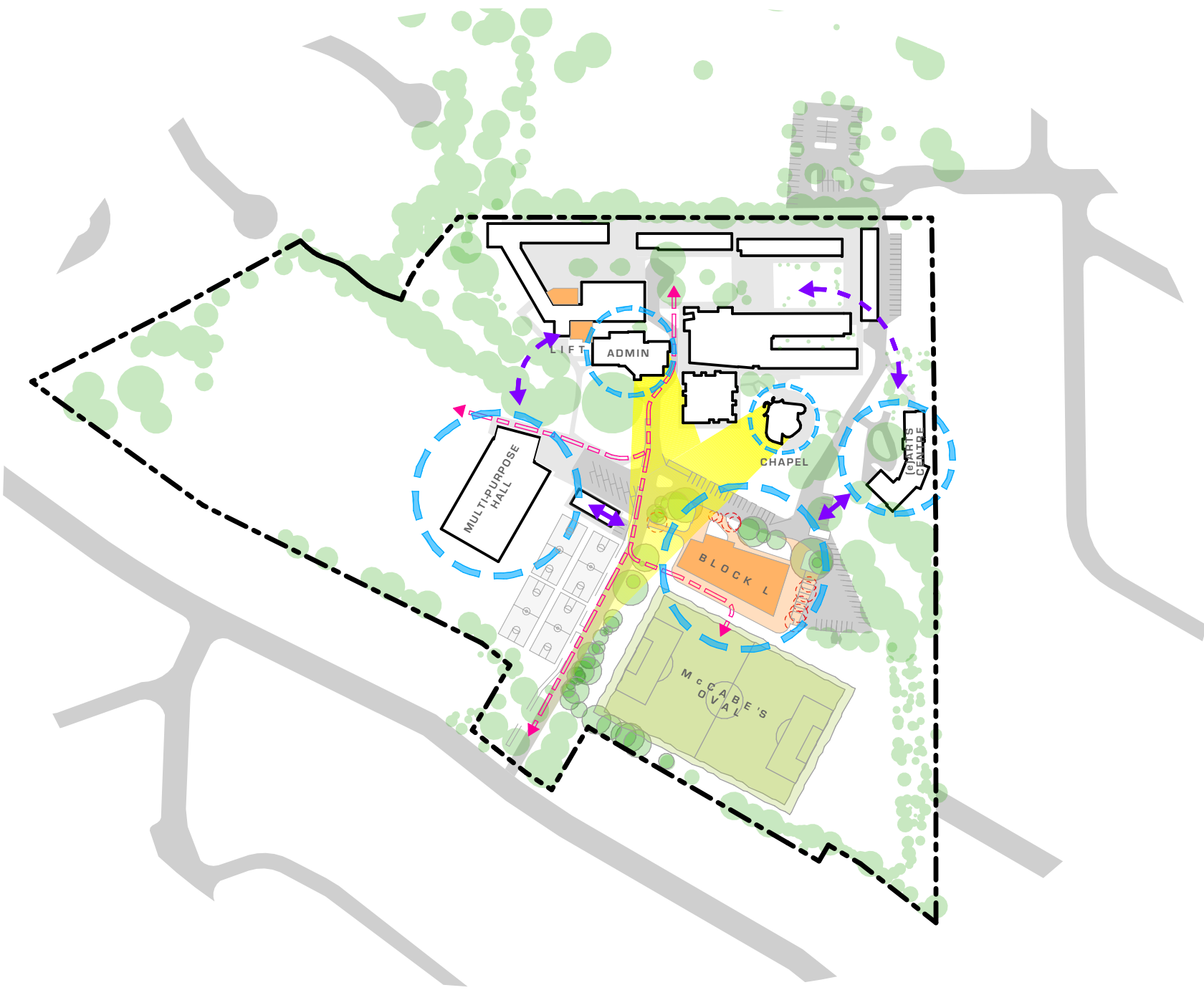
- NATURAL VENTILATION USING LOUVRE CLERESTORY WINDOWS.
- HIGH LEVEL LOUVRE WINDOWS TO ENABLE PASSIVE COOLING - HEAT STACK.
- CLERESTORY PROVIDES NATURAL LIGHT INTO THE DEEP FLOOR PLATE.
- MAINTAIN EXISTING OR REPLACE TREES WHERE POSSIBLE TO PROVIDE SHADE FOR THE NEW BUILDING.
- SHADE SCREEN TO NORTHERN ELEVATION TO REDUCE SOLAR HEAT GAIN.
- BUILDING BULK REDUCED TO THE WEST TO REDUCE SOLAR HEAT GAIN.

SITE CONNECTIVITY

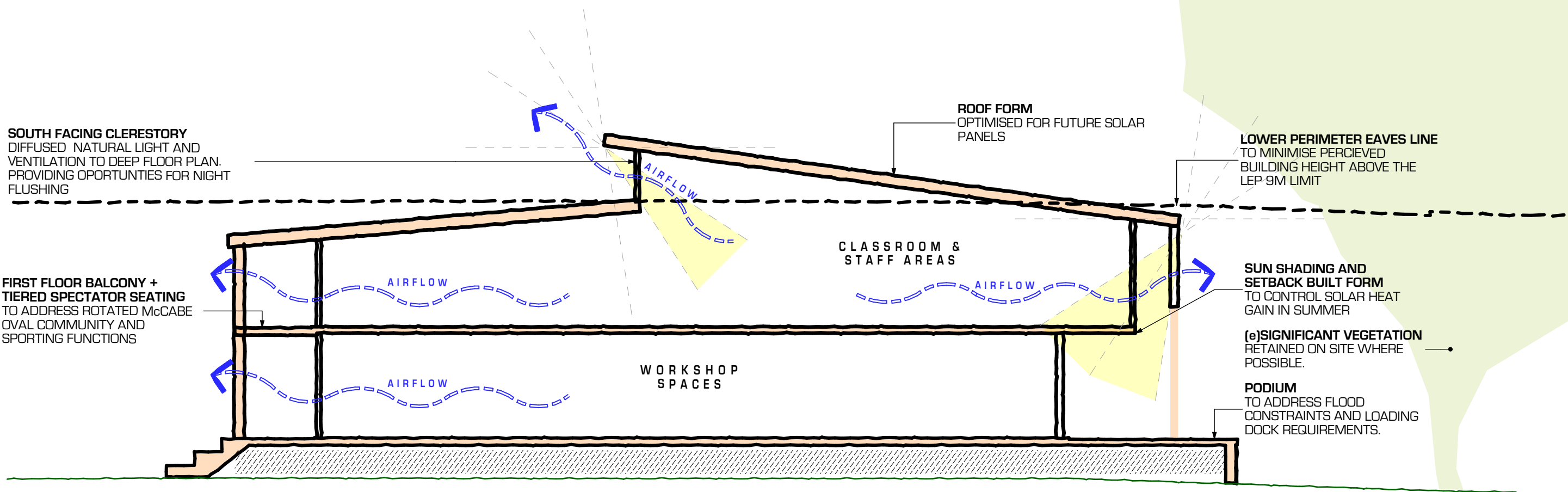
- BUILDING CONNECTS INTO EXISTING VEHICULAR AND PEDESTRIAN NETWORKS.
- ALLOWS FOR ACCESSIBLE PATHS CONNECTED TO THE REMAINDER OF THE CAMPUS.
- IMPROVE ACCESSIBILITY ACROSS THE SITE WITH THOUGHTFUL AND CONNECTED LANDSCAPES, WHILE MAINTAINING EXISTING SPORTS AND PLAY SPACE INFRASTRUCTURE.
- STAFF SUPERVISION THROUGH TO AND AROUND NEW BUILDING FACILITATED BY OPEN SPACES.
- TIERED SPECTATOR SEATING TO SPORTS FIELD CREATES AN INTERMEDIARY SPACE FOR BOTH LEARNING AND SPECTATING.
- BUILDING PLACEMENT CREATES CIRCULATION LOOP BETWEEN TAS, MULTI-PURPOSE HALL, ARTS CENTRE AND BACK TO THE MAJORITY OF THE CAMPUS.
- SITING DESIGNED TO MINIMISE AND SUPPORT CONTINUED OPERATION OF COLLEGE AND DELIVERY OF SUCCESSFUL CURRICULUM IN EXISTING SPACES WITHOUT THE NEED FOR TEMPORARY WORKS.

WAYFINDING + SITE PERCEPTION

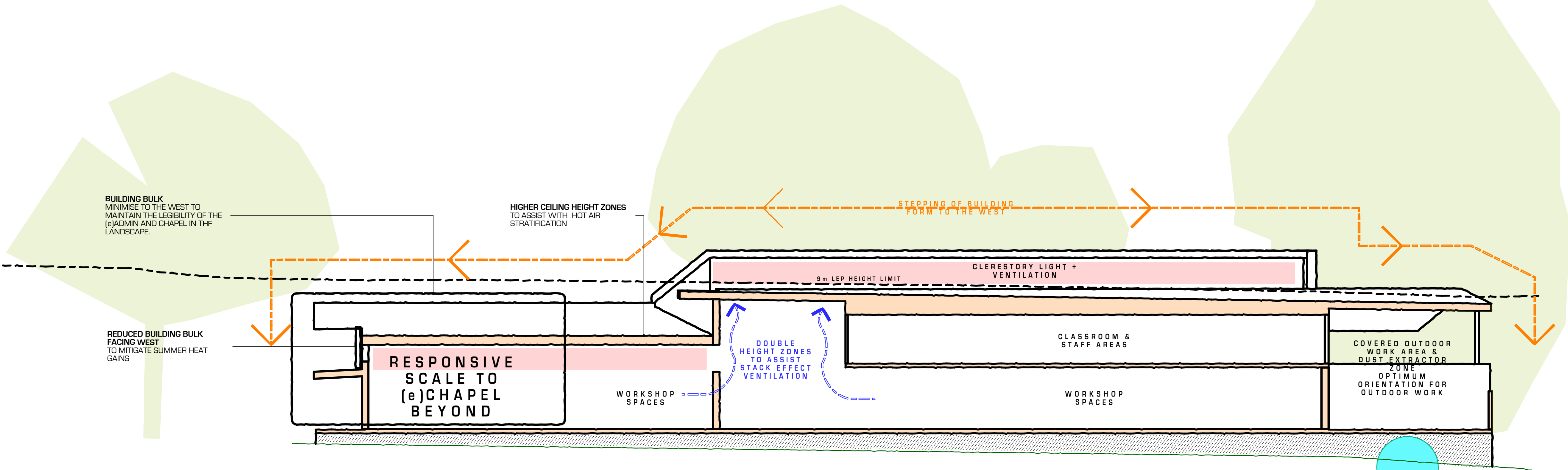
- STREAMLINE TRAFFIC AND ACCESSIBILITY FOR DELIVERIES FOR TAS
- VIEW OF CHAPEL AND ADMIN FROM ENTRY - CLEAR ONSITE WAYFINDING, LEGIBILITY & IDENTITY.
- NEW BUILDING REFERENCES EXISTING FINISHES AND MATERIAL PALETTES ON THE SITE
- AS THE TAS CURRICULUM IS ONE OF THE MOST POPULAR, PLACES THIS SPACE IN THE CAMPUS FOREGROUND, SPEAKING TO THE COLLEGE IDENTITY.



SITE DIAGRAM



SHORT SECTION DIAGRAM



LONG SECTION DIAGRAM

AYLIE O'HANLON

QUINN O'HANLON ARCHITECTS - MANAGING DIRECTOR

NSW ARCHITECTS REGISTRATION NO. 04600

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PROJECT

EDMUND RICE COLLEGE,
WEST WOLLONGONG - TAS
BUILDING & ACCESS
WORKS DA

ADDRESS

112 Mount Keira Rd WEST WOLLONGONG NSW

CLIENT

EDMUND RICE COLLEGE

30/11/2023 DEVELOPMENT APPLICATION 01

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DIAGRAMS

BLOCK L - DESIGN
APPROACH DIAGRAMS

JOB NUMBER

DRAWING NUMBER

ISSUE

2301

DA2900

01

DEVELOPMENT APPLICATION



INTERNAL APPROACH VIEW



NORTHERN ELEVATION



SOUTHERN ELEVATION FROM OVAL



SOUTH WEST CORNER VIEW



SOUTH EAST CORNER VIEW



EAST ELEVATION - CARPARK

AYLIE O'HANLON
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NSW ARCHITECTS REGISTRATION NO. 0460
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6/08/2024 DEVELOPMENT APPLICATION 02
30/11/2023 DEVELOPMENT APPLICATION 01

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**PERSPECTIVES
BLOCK L - PERSPECTIVES**

JOB NUMBER	DRAWING NUMBER	ISSUE
2301	DA2951	02
DEVELOPMENT APPLICATION		

T 02 4929 1165

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112 Mount Keira Rd WEST WOLLONGONG NSW

DEVELOPMENT APPLICATION

OHD DRAWING REGISTER

ID	Name
DA1800	DRAWING REGISTER & LOCATION PLAN
DA1801	LANDSCAPE PLAN 1
DA1802	LANDSCAPE PLAN 2
DA1803	LANDSCAPE PLAN 3
DA1804	LANDSCAPE PLAN 4
DA1805	TYPICAL DETAILS & PLANT SCHEDULE



LOCATION PLAN
1:2000

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LEGEND
NOTE: IF AN (e) IS LOCATED AT THE FRONT OF AN ABBREVIATION IT INDICATES THE ELEMENT IS EXISTING, OTHERWISE IT SHOULD BE ASSUMED AS NEW (n)
PROPOSED BUILDING WORKS
PROPOSED SITE WORKS
SITE BOUNDARY
PROPOSED LANDSCAPE WORKS

NOT FOR CONSTRUCTION



PROJECT
**EDMUND RICE COLLEGE,
WEST WOLLONGONG - TAS
BUILDING & ACCESS
WORKS DA**
ADDRESS
112 Mount Keira Rd WEST WOLLONGONG NSW
CLIENT
EDMUND RICE COLLEGE

30/11/2023 DEVELOPMENT APPLICATION 01

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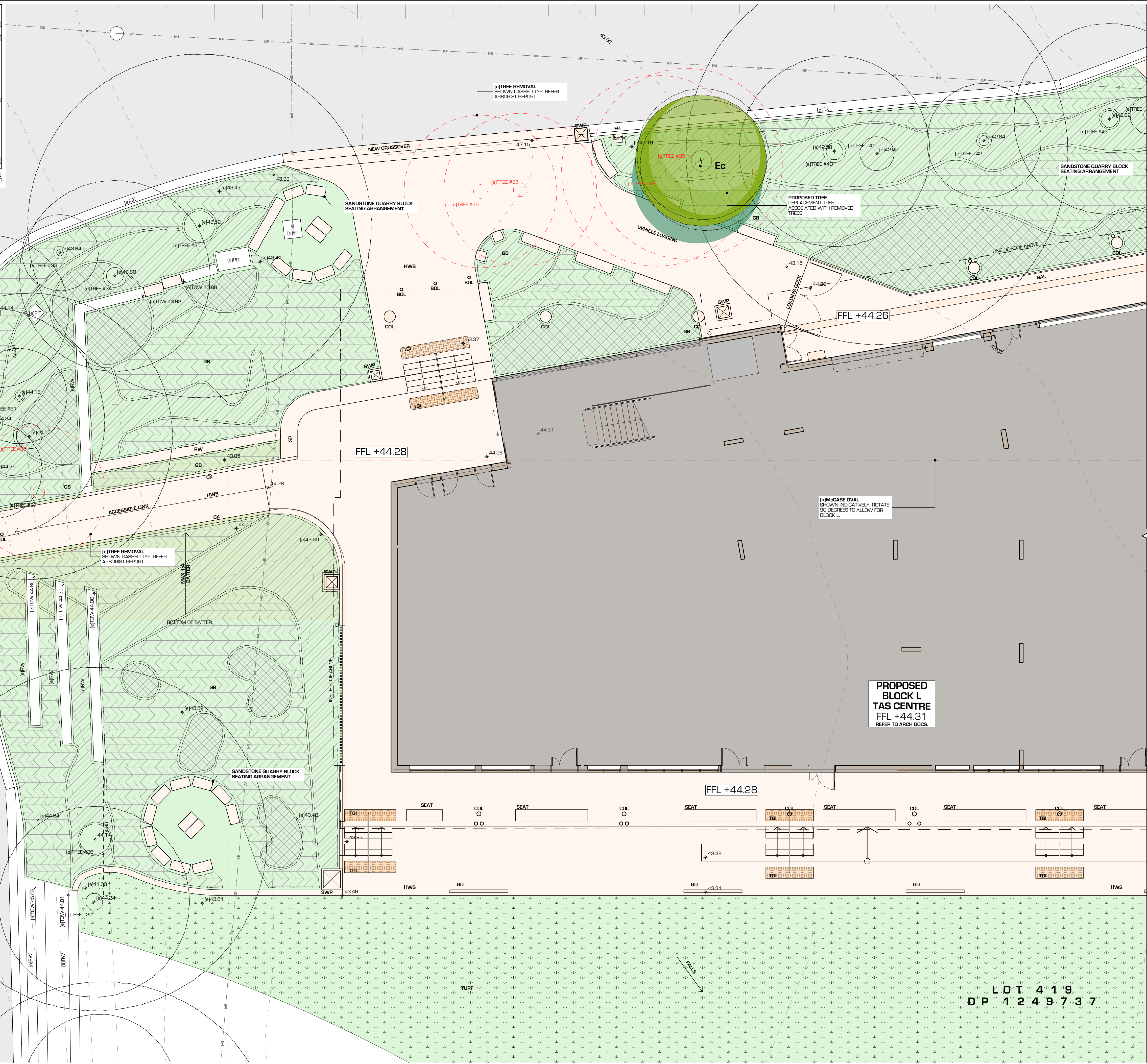


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DRAWING TITLE
**LANDSCAPE PLANS
DRAWING REGISTER &
LOCATION PLAN**

JOB NUMBER DRAWING NUMBER ISSUE

1096 DA1800 01

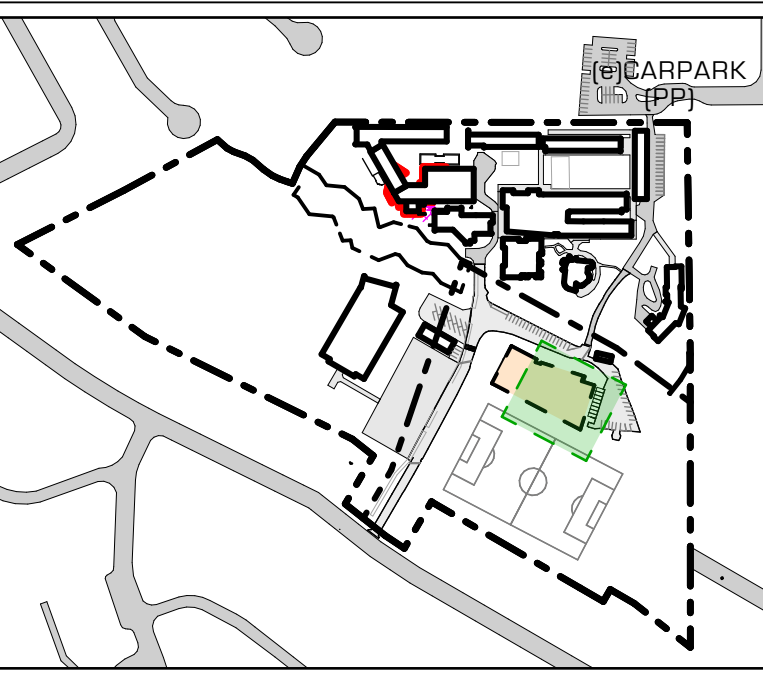
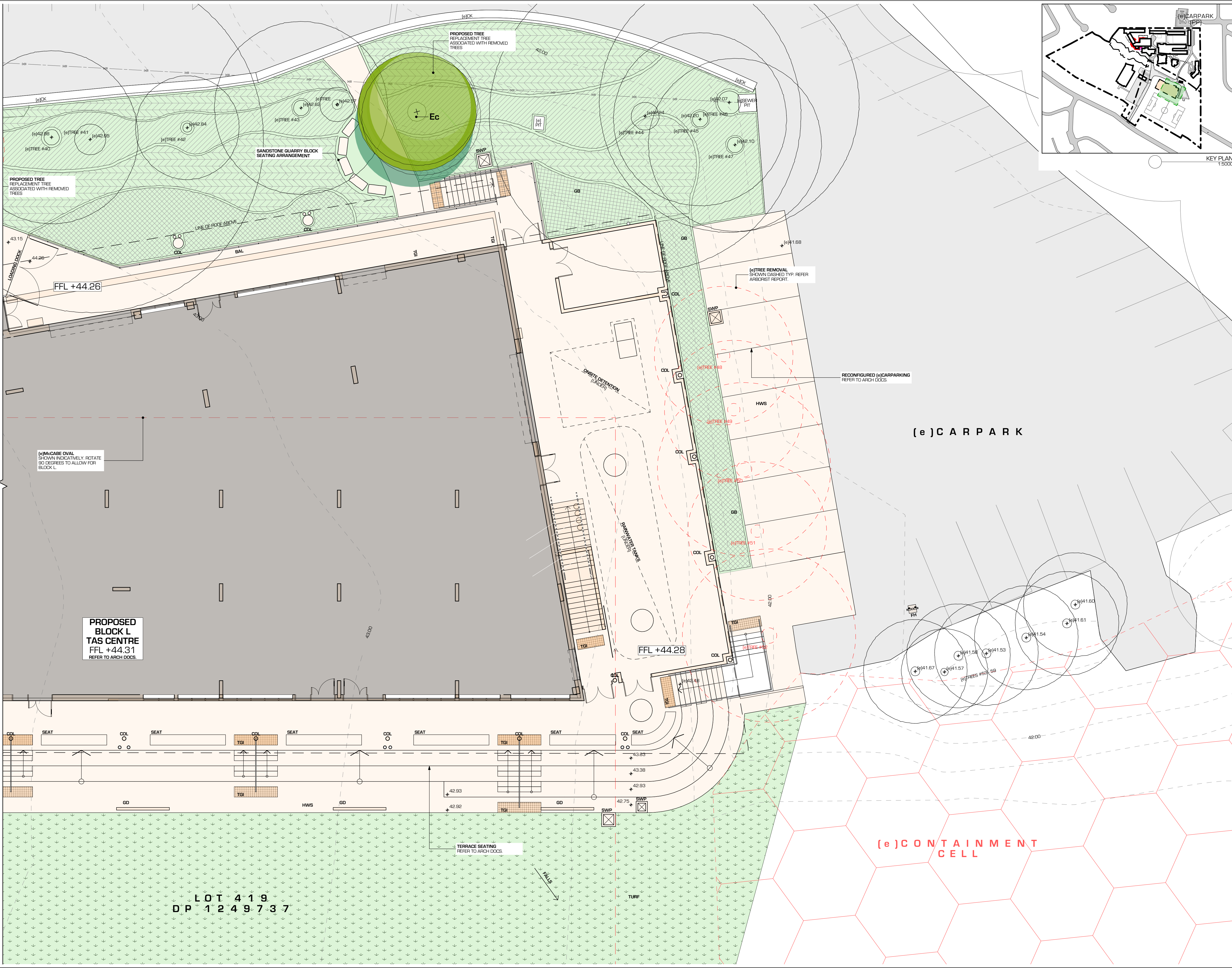
DEVELOPMENT APPLICATION



1096	DA1801	02
DEVELOPMENT APPLICATION		

DRAWING CONTINUES - REFER TO DA1802

DRAWING CONTINUES - REFER TO DA1801



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LEGEND

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(e)	EXISTING	FH	FIRE HYDRANT
AT	ARTIFICIAL TURF	GB	GARDEN BED
BAL	BALLASTRADE	HWS	HARD WEARING SURFACE
BIT	BITUMEN ASPHALT	PAV	PAVING
BOL	BOLLARD	RWH	RETAINING WALL
CK	CONCRETE KERB	SE	SEWAGE
COL	COLUMN	SMH	SEWER MAN HOLE
CONC	CONCRETE	SWP	STORMWATER PIT
CP	COMMUNICATIONS PIT	TGI	TACTILE GROUND INDICATOR
EP	ELECTRICAL PIT	TOW	TOP OF WALL
FEN	FENCE		
FFL	FINISHED FLOOR LEVEL		

DEMOLISHED ELEMENTS

NEW HARD LANDSCAPING

NEW TURF

(e)CONTAINMENT CELL

NEW TREE


(e)TREE

(e)TREE TO BE DEMOLISHED

NEW PLANTING

NEW SANDSTONE BLOCK

NOT FOR CONSTRUCTION



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PROJECT

EDMUND RICE COLLEGE,
WEST WOLLONGONG - TAS
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WORKS DA

ADDRESS

112 Mount Keira Rd WEST WOLLONGONG NSW

CLIENT

EDMUND RICE COLLEGE

6/08/2024 DEVELOPMENT APPLICATION

30/11/2023 DEVELOPMENT APPLICATION

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LANDSCAPE PLANS

LANDSCAPE PLAN 2

JOB NUMBER

DRAWING NUMBER

ISSUE

1096

DA1802

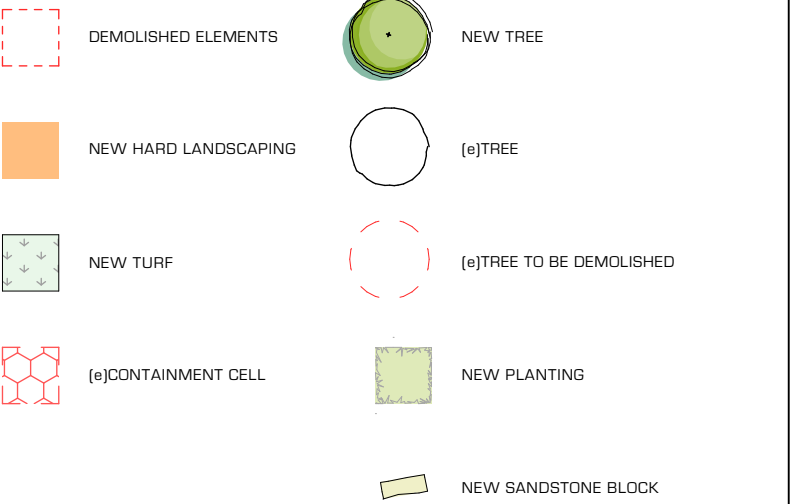
02

DEVELOPMENT APPLICATION

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(e) EXISTING
AT ARTIFICIAL TURF
BAL BALLSTRADE
BIT BITUMEN ASPHALT
BOL BOLLARD
CK CONCRETE KERB
COL COLUMN
CONC CONCRETE
CP COMMUNICATIONS PIT
EP ELECTRICAL PIT
FEN FENCE
FFL FINISHED FLOOR LEVEL
FH FIRE HYDRANT
GB GARDEN BED
HWS HARD WEARING SURFACE
PAV PAVING
RW RETAINING WALL
SF SFTTALL
SMH SEWER MAN HOLE
SWP STORMWATER PIT
TGI TACTILE GROUND INDICATOR
TOW TOP OF WALL



NOT FOR CONSTRUCTION



PROJECT
EDMUND RICE COLLEGE, WEST WOLLONGONG - TAS BUILDING & ACCESS WORKS DA
ADDRESS
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30/11/2023 DEVELOPMENT APPLICATION 01

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LANDSCAPE PLANS

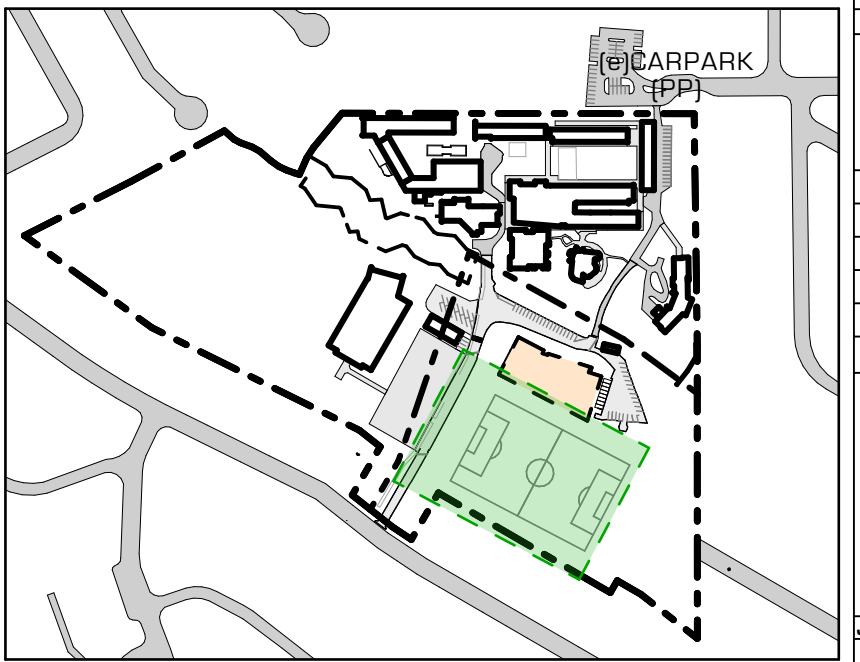
LANDSCAPE PLAN 3

JOB NUMBER DRAWING NUMBER ISSUE

1096 DA1803 01

DEVELOPMENT APPLICATION

KEY PLAN
1:5000



PROPOSED
BLOCK L
TAS CENTRE
FFL +44.31
REFER TO ARCH DOCS

FFL +44.28

FFL +44.28

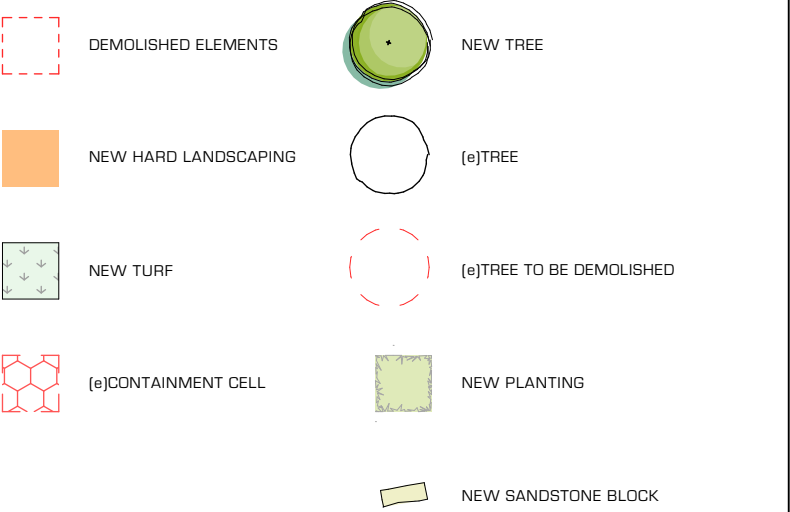
LOT 419
DP 1249737

(e)McCABE OVAL
SHOWN INDICATIVELY. ROTATE
90 DEGREES TO ALLOW FOR
BLOCK L

M c C A B E O V A L
(e)TURF

McCABE OVAL
ROTATED ARRANGEMENT.
(100m x 64m)

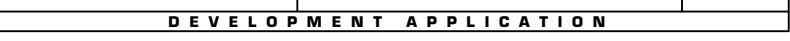
BOUNDARY



ADDRESS
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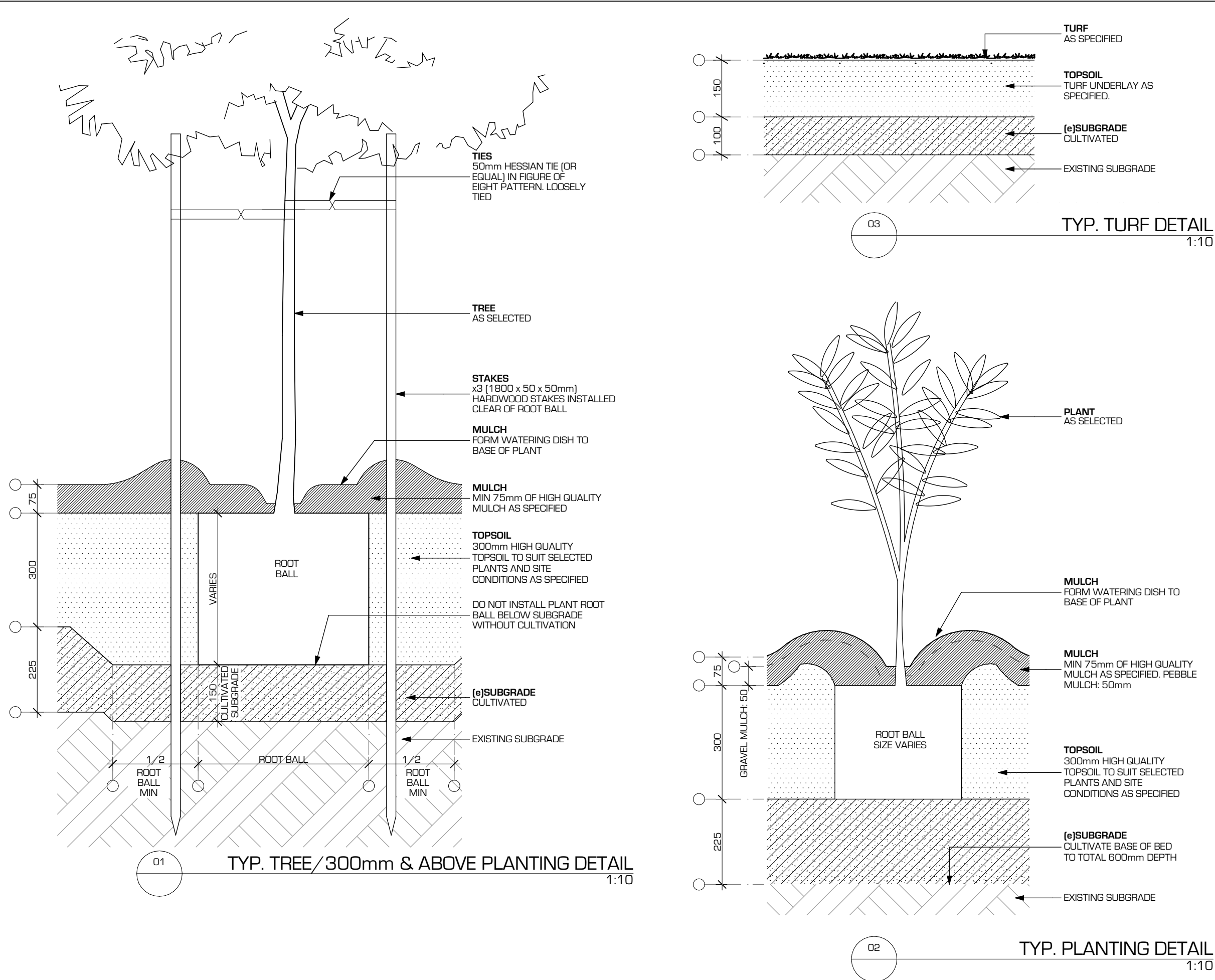
CLIENT
EDMUND RICE COLLEGE

1096 DA1804 01





TREES
1. Brachychiton acerifolius [Illawarra Flame Tree]
2. Eucalyptus cinerea [Argyle Apple]
3. Tristaniopsis laurina [Water Gum]
4. Angophora floribunda [Rough Barked Apple]
5. Banksia serrata [Old Man Banksia]
6. Eucalyptus sideroxylon [Red Ironbark]
7. Cupaniopsis anacardioides [Tuckeroo]



SHRUBS, GRASSES, STRAPPY LEAF PLANTS, CLIMBERS AND GROUNDCOVERS
8. Doryanthes excelsa [Gymea Lily]
9. Asplenium australasicum [Birds Nest Fern]
10. Westringia fruticosa [Coastal Rosemary]
11. Hardenbergia violacea [False Sarsaparilla]
12. Scaevola calendulacea [Dune Fan Flower]
13. Hibbertia scandens [Golden Guinea Flower]
14. Correa Alba [White Correa]
15. Lomandra longifolia [Mat Rush]
16. Scaevola calendulacea [Dune Fan Flower]
17. Hibbertia scandens [Golden Guinea Flower]
18. Carpobrotus glaucescens [Pigface]

PROPOSED PLANTING PALETTE

PROPOSED PLANTING SCHEDULE					
KEY	NAME	POT SIZE	SPACING	SIZE AT MATURITY (HxW)m	STAKING
TREES					
01	Ba Brachychiton acerifolius	75L	as shown	12 x 6	3
02	Ec Eucalyptus cinerea	75L	as shown	11 x 8	3
03	TL Tristaniopsis laurina	75L	as shown	12 x 5	3
04	Af Angophora floribunda	75L	as shown	15 x 8	3
05	Bs Banksia serrata	75L	as shown	10 x 5	3
06	ES Eucalyptus sideroxylon	75L	as shown	15 x 8	3
07	Ca Cupaniopsis anacardioides	75L	as shown	8 x 6	3
PLANTING					
08	Doryanthes excelsa	250mm	1/2m ²	1.5 x 1.5	-
09	Asplenium australasicum	250mm	1/m ²	1.0 x 1.0	-
12	Telopea speciosissima	45L	1/4m ²	3.0 x 2.0	-
13	Indigofera australis	250mm	1/2m ²	1.5 x 1.5	-
10	Westringia fruticosa	250mm	1/m ²	1.0 x 1.0	-
14	Correa Alba	250mm	1/m ²	1.0 x 1.0	-
15	Lomandra longifolia	145mm	2/m ²	0.8 x 0.8	-
11	Hardenbergia violacea	TUBE	1/m ²	0.5 x 0.2	-
16	Scaevola calendulacea	TUBE	1/m ²	0.2 x 1.0	-
17	Hibbertia scandens	TUBE	1/m ²	0.3 x 1.5	-
18	Carpobrotus glaucescens	TUBE	1/m ²	0.2 x 1.5	-
NOTES 1. ALL NEW GARDEN BEDS TO BE INSTALLED WITH SUITABLE NEW TOPSOIL AND MULCH. 2. IRRIGATION TO BE PROVIDED TO NEW GARDENS. 3. PLANTING GENERALLY TO BE LOW MAINTENANCE, NON-TOXIC AND NATIVE SPECIES SUITABLE FOR SCHOOL SITES. 4. NOTE "SIZE AT MATURITY" IS DEPENDANT ON MANY FACTORS. 5. REFER TO ARBORIST REPORT FOR MORE INFORMATION ON EXISTING TREES.					

JANE O'HANLON
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ALA REGISTRATION NO 399

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PROJECT
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CLIENT
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30/11/2023	DEVELOPMENT APPLICATION	01
DATE	REVISION	ISSUE

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**LANDSCAPE PLANS
TYPICAL DETAILS & PLANT
SCHEDULE**

JOB NUMBER	DRAWING NUMBER	ISSUE
1096	DA1805	01

DEVELOPMENT APPLICATION

PROPOSED CRITICAL USE DEVELOPMENT
LOT 419 DP1249737, 112 MOUNT KEIRA ROAD, WEST WOLLONGONG
DEVELOPMENT APPLICATION CIVIL PLANS
EDMUND RICE COLLEGE

Sheet List Table	
Sheet Number	Sheet Title
01	Title Page
02	Stormwater Plan 1
03	Stormwater Plan 2
04	Catchment Plan 1
05	Catchment Plan 2
06	Bulk Earthworks
07	OSD Details
08	Drainage Calculations 1
09	Drainage Calculations 2
10	SWM
11	SWM Details



LOCALITY SKETCH
1:5000 @ A1

LEGEND PROPOSED

	STORMWATER PIPE		PAVEMENT LEVEL
	GRATED PIT		CONTOURS
	JUNCTION PIT		CATCHMENT BOUNDARY
	KERB INLET PIT		EDGE STRIP
	GRATED DRAIN		KERB & GUTTER
	DOWNPipes		LAYBACK KERB & GUTTER
			RETAINING WALL

LEGEND EXISTING

	STORMWATER LINE		EXISTING SPOT LEVEL
	STORMWATER PIT		EXISTING CONTOURS
	WATER LINE		GAS LINE
	SEWER LINE		ELECTRICAL LINE
	TELSTRA LINE		

SERVICES ARE SHOWN INDICATIVE ONLY. CONTRACTOR TO CONFIRM ALL SERVICE LOCATIONS PRIOR TO CONSTRUCTION

DIMENSIONS SHALL NOT BE OBTAINED BY SCALING FROM THIS SET OF PLANS

GENERAL NOTES

- G1. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH WOLLONGONG DEVELOPMENT CODE AND TO THE REQUIREMENTS OF COUNCIL'S AUTHORISED OFFICER.
- G2. INSPECTIONS BY THE AUTHORISED OFFICER SHALL BE CARRIED OUT AT THE FOLLOWING STAGES:
- (a) PRIOR TO INSTALLATION OF EROSION AND SEDIMENT CONTROL STRUCTURES
 - (b) PRIOR TO BACKFILLING PIPELINES, SUBSOIL DRAINS, TRENCH BEDDING AND DAMS
 - (c) PRIOR TO CASTING OF PITS AND OTHER CONCRETE STRUCTURES, INCLUDING KERB AND GUTTER
 - (d) PROOF ROLLER TEST OF SUBGRADE AND SUB-BASE
 - (e) ROLLER TEST OF COMPLETED PAVEMENT PRIOR TO PLACEMENT OF WEARING COURSE
 - (f) FORMWORKS PRIOR TO POURING CONCRETE IN PARKING AREA FOR FOOTPATH CROSSING AND OTHER ASSOCIATED WORK
 - (g) PRIOR TO BACKFILLING PUBLIC UTILITY CROSSINGS IN ROAD RESERVES
 - (h) PRIOR TO PLACEMENT OF ASPHALTIC CONCRETE
 - (i) FINAL INSPECTION AFTER ALL WORKS ARE COMPLETED AND 'WORKS AS EXECUTED' PLANS HAVE BEEN SUBMITTED TO COUNCIL
- G3. NO TREES TO BE REMOVED UNLESS APPROVAL IS GRANTED BY COUNCIL.
- G4. MAKE SMOOTH JUNCTIONS WITH EXISTING WORKS.
- G5. NO WORK TO BE CARRIED OUT ON COUNCIL PROPERTY OR ADJOINING PROPERTIES WITHOUT THE WRITTEN PERMISSION FROM THE OWNER.
- G6. VEHICULAR ACCESS AND ALL SERVICES TO BE MAINTAINED AT ALL TIMES TO ADJOINING PROPERTIES AFFECTED BY CONSTRUCTION.
- G7. ALL RUBBISH, BUILDINGS, SHEDS AND FENCES TO BE REMOVED TO SATISFACTION OF COUNCIL'S ENGINEER AT COMPLETION OF WORKS.
- G8. A TRAFFIC CONTROL PLAN IS TO BE SUBMITTED TO COUNCIL WITH A SECTION 138 APPLICATION PRIOR TO COMMENCEMENT OF WORKS.
- G9. ALL FILL AREAS ARE TO BE INSPECTED BY A GEOTECHNICAL ENGINEER PRIOR TO STRIPPING AND ANY RECOMMENDATIONS REGARDING TREATMENT OF SALINE AFFECTATION ARE TO BE IMPLEMENTED.
- G10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF THE LOCATION OF ANY EXISTING SERVICES AFFECTING THE WORKS AREA, ANY DAMAGED SERVICES SHALL BE REPAIRED AT THE CONTRACTORS COST.

EARTHWORKS NOTES

- E1. EARTHWORKS TO BE CARRIED OUT TO THE SATISFACTION OF THE PCA AND GEOTECHNICAL ENGINEER. UNSOUND MATERIALS ARE TO BE REMOVED FROM ROADS AND LOTS PRIOR TO FILLING. THE CONTRACTOR IS TO ARRANGE AND MAKE AVAILABLE COMPACTION CERTIFICATES WHERE REQUIRED.
- E2. WHERE THE SLOPE OF THE NATURAL SURFACE EXCEEDS ONE IN FOUR (1:4), BENCHES ARE TO BE CUT TO PREVENT SLIPPING OF THE PLACED FILL MATERIAL AS REQUIRED BY THE PCA AND GEOTECHNICAL ENGINEER.
- E3. ALL BATTERS ARE TO BE SCARIFIED TO ASSIST WITH ADHESION OF TOP SOIL TO BATTER FACE.
- E4. PROVIDE MINIMUM 150mm AND MAXIMUM 300mm TOPSOIL WITH GRASS SEEDING ON FOOTPATHS, FILLED AREAS AND ALL OTHER AREAS DISTURBED DURING CONSTRUCTION.
- E5. THE CONTROL TESTING OF EARTHWORKS SHALL BE IN ACCORDANCE WITH THE GUIDELINES IN AUSTRALIAN STANDARD 3798 - 2007. WHERE IT IS PROPOSED TO USE TEST METHOD AS1289 E8.1 OR AS1289 E8.2 TO DETERMINE THE FIELD DENSITY, A SAND REPLACEMENT METHOD SHALL BE USED TO CONFIRM THE RESULTS AS DIRECTED BY COUNCIL. THE GEOTECHNICAL TESTING AUTHORITY SHALL HAVE A LEVEL 1 RESPONSIBILITY FOR ALL FILLING AS DEFINED IN APPENDIX B AS 3798-2007, AND AT THE END OF THE WORKS SHALL CONFIRM THE EARTHWORKS COMPLY WITH THE REQUIREMENTS OF THE SPECIFICATION AND DRAWINGS.
- E6. THE CONTRACTOR SHALL CONTROL SEDIMENTATION, EROSION AND POLLUTION DURING CONSTRUCTION IN ACCORDANCE WITH MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION VOLUME 1 (LANDCOM 2004) AND MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION VOLUME 2 (DEPARTMENT OF ENVIRONMENT AND CLIMATE CHANGE 2007).

ROADWORKS NOTES

- R1. SUBGRADE, SUB-BASE, AND BASE TO BE COMPACTED IN ACCORDANCE WITH WOLLONGONG CITY COUNCILS DEVELOPMENT CODE.
- R2. SUBSOIL DRAINS TO BE PROVIDED ON BOTH SIDES OF ROADS (EXCEPT WHERE THERE IS STORM WATER DRAINAGE).
- R3. 150 X 50 H.D. GALVANISED STEEL KERB OUTLETS TO BE PLACED IN LAYBACK KERB AND 90mm DIA. GALVANISED STEEL PIPE SECTION TO BE PLACED IN UPRIGHT KERB ON LOW SIDE OF LOTS. PROVIDE SUITABLE ADAPTOR TO ALLOW CONNECTION OF 90mm DIA. STORM WATER PIPE.
- R4. PERAMBULATOR CROSSINGS TO BE PROVIDED IN ALL KERB RETURNS OR WHERE REQUIRED BY COUNCIL.
- R5. SERVICE CONDUITS TO BE PLACED AS DIRECTED BY ENDEAVOUR ENERGY, TELECOMMUNICATIONS AND AS REQUIRED BY THE SYDNEY WATER.
- R6. PROPOSED SERVICES CROSSING EXISTING ROADS SHALL BE THRUST BORED UNDER THE ROAD SO AS NOT TO DAMAGE EXISTING SURFACE.
- R7. SIGNPOSTING AND LINEMARKING TO CONFORM WITH AS1742.2 RAISED RETRO- REFLECTIVE PAVEMENT MARKERS TO CONFORM WITH AS1906.
- R8. STREET SIGNS TO COMPLY WITH COUNCIL'S SPECIFICATION FOR STREET NAME SIGNS AND MUST BE INSTALLED BY THE DEVELOPER.
- R9. ALL LEVELS ARE TO BE SET OUT FROM ESTABLISHED STATE SURVEY MARKS.

STORMWATER NOTES

- S1. ALL PIPES TO BE SPIGOT AND SOCKET, RUBBER RING JOINTED. ALL PIPES IN ROAD RESERVES (OTHER THAN ROOF WATER AND SUBSOIL) ARE TO BE STEEL REINFORCED CONCRETE PIPES.
- S2. ALL LONGITUDINAL PIPELINES IN ROADS MUST BE LOCATED UNDER KERB AND GUTTER AND BE BACKFILLED WITH 7mm AGGREGATE WHERE 10-15% OF FINES IS ALLOWABLE UNLESS OTHERWISE INDICATED ON PLANS AND APPROVED BY COUNCIL.
- S3. DRAINAGE LINES MUST BE BACKFILLED AS PER SHELLHARBOUR CITY COUNCILS DEVELOPMENT CODE (C21 PIPE DRAINAGE. THREE (3) METRES OF AGLINE WRAPPED IN GEOTECH STOCKING MUST BE PROVIDED TO ALL DOWNSTREAM PITS.
- S4. ALL GULLY PITS TO COUNCIL'S STANDARD AND LINTELS CENTRALLY PLACED AT SAG PITS.
- S5. ALL PITS MUST BE BENCHED AND STREAMLINED. PROVIDE SL72 REINFORCEMENT AND STEP IRONS IN ALL PITS OVER 12M DEEP.
- S6. CONCRETE TO HAVE MINIMUM COMPRESSIVE STRENGTH OF 25 MPA AT 28 DAYS UNLESS SPECIFIED OTHERWISE BY COUNCIL ENGINEER.
- S7. ALL INTER ALLOTMENT DRAINAGE MUST HAVE A MINIMUM COVER OF 300mm TO THE TOP OF PIPE UNLESS OTHERWISE APPROVED BY THE COUNCIL ENGINEER.
- S8. CATCH DRAINS MUST BE CONSTRUCTED AS PER SWMP.
- S9. ALL COMMON DRAINAGE LINES MUST BE LAID CENTRALLY WITHIN 12m-30m EASEMENTS. CLEANING EYES MUST BE PROVIDED IMMEDIATELY DOWNSTREAM OF ALL SLOPE JUNCTIONS.
- S10. ONE HUNDRED (100) YEAR OVERLAND FLOW PATHS MUST BE FORMED AND SHOWN ON WORK AS EXECUTED DRAWINGS.
- S11. ADEQUATE PROVISION TO BE MADE FOR SCOURING AND SEDIMENTATION TO ALL DRAINAGE WORKS IN ACCORDANCE WITH SHELLHARBOUR CITY COUNCILS DEVELOPMENT CODE.
- S12. COMMON DRAINAGE LINES MUST BE INSTALLED AFTER SEWERAGE LINES HAVE BEEN INSTALLED WHERE SEWER IS PROPOSED ADJACENT TO INTER ALLOTMENT

GEOTECHNICAL NOTES

- GT1. THE CONTRACTOR SHALL IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES AS NECESSARY, AND TO THE SATISFACTION OF COUNCIL PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND DURING CONSTRUCTION SEE SWMP.
- GT2. TESTS SHALL BE UNDERTAKEN ON ANY PROPOSED FILL MATERIALS TO ENSURE THAT THEY DO NOT HAVE A HIGH DISPERSION POTENTIAL AS DEFINED BY EMERSON CRUMB/DISPERSION TESTS (AS1289 (8-1980)
- GT3. ALL FILLING AND PAVEMENT CONSTRUCTION MUST BE UNDERTAKEN TO THE REQUIREMENTS OF AS3798-2007 THE FOLLOWING COMPACTION LEVELS ARE RECOMMENDED:
- | | | |
|----------------|------|----------|
| LOT FILLING | 98% | STANDARD |
| ROAD SUB-GRADE | 100% | STANDARD |
| ROAD SUB-BASE | 95% | MODIFIED |
| ROAD BASE | 98% | MODIFIED |
- GT4. ALL TESTING WORKS SHALL BE CONTROLLED AND CERTIFIED BY A N.A.T.A REGISTERED LABORATORY. A COLLATED COPY OF ALL TEST CERTIFICATES, ACCOMPANIED BY AN OVERALL SITE PLAN, CLEARLY INDICATING THE LOCATION OF EACH TEST AND FILL AREAS ETC, AND THE LABORATORY CERTIFICATE COVERING THE WHOLE OF THE AREA TESTED ARE TO BE FORWARDED TO COUNCIL UPON COMPLETION.
- GT5. FINAL PAVEMENT THICKNESS TO BE DETERMINED AFTER BOXING OUT BY JOINT INSPECTION BY N.A.T.A REGISTERED LABORATORY AND COUNCIL'S ENGINEER. PAVEMENT REPORT TO BE AVAILABLE TO COUNCIL A MINIMUM OF TWO CLEAR DAYS PRIOR TO INSPECTION.

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REVISIONS

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B	REVISED TO CLIENTS COMMENTS
C	REVISED DRAINAGE LINES
D	REVISED TO UPDATED ARCH
E	REVISED TO ARCH COMMENTS
F	REVISED TO ARCH COMMENTS

DRN	APP	DATE
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I.B.	A.C.	24/11/23
I.B.	A.C.	29/11/23
I.B.	A.C.	27/08/24
I.B.	a.c.	29/08/24



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Drawn	I.B.
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Checked	A.C.
Approved	A.C.

Client Title

EDMUND RICE COLLEGE

Dwg Status

APPROVAL

Local Authority

WOLLONGONG

Dwg Title

PROPOSED CRITICAL USE DEVELOPMENT
112 MOUNT KEIRA RD WEST WOLLONGONG

TITLE PAGE

Ref & Dwg No

23153.DA.C01

Sheet No

01 of 11

Scale

AS NOTED @ A1

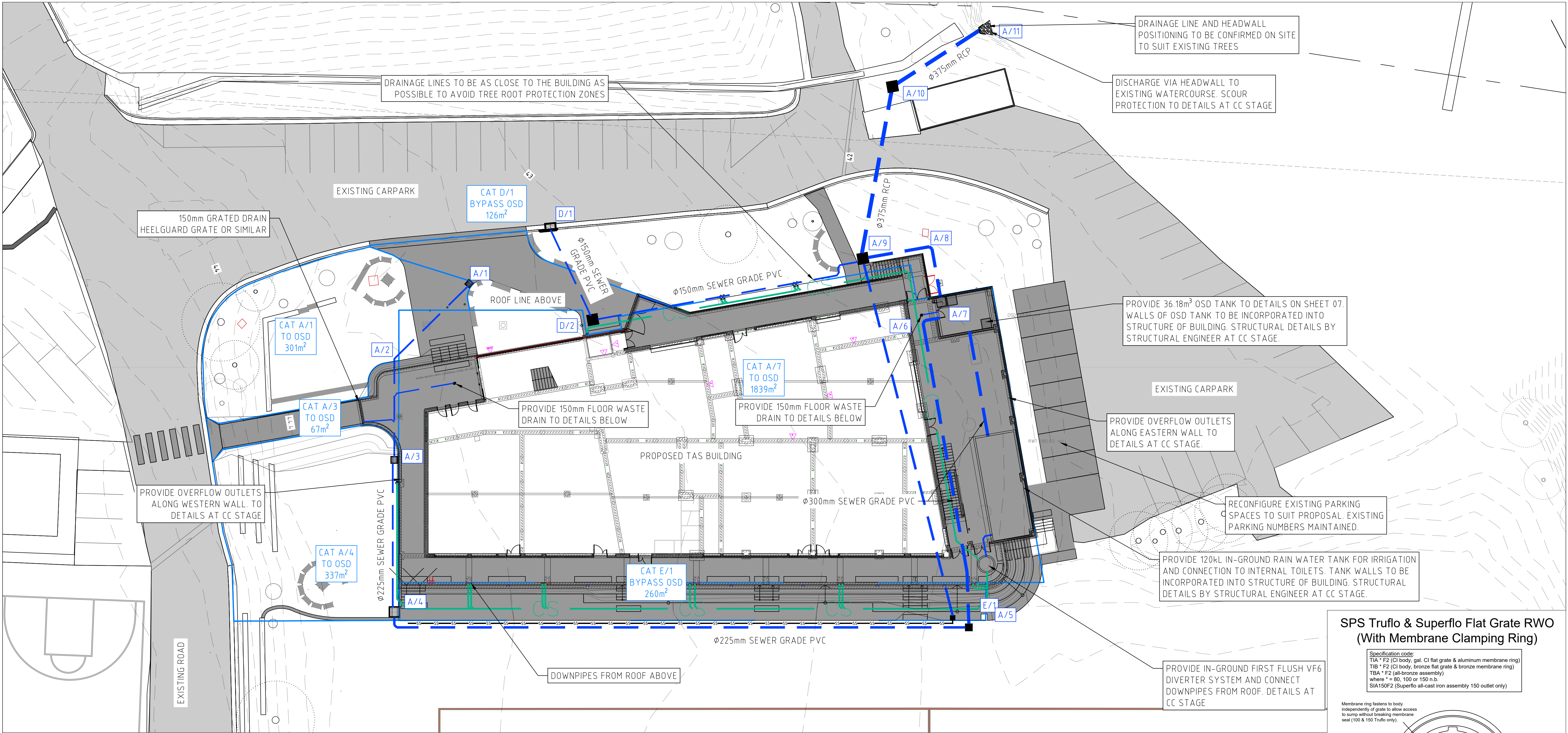
Date

29/08/24

Rev

F

A1



NOTE: ALL DOWNPIPES SIZED FOR ALL STORM EVENTS UP TO AND INCLUDING THE 1% AEP.

LEGEND PROPOSED

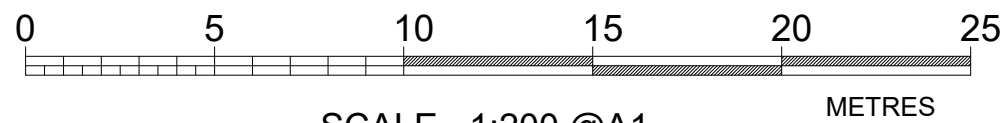
- CHARGED DRAINAGE LINE
- STORMWATER PIPE
- GRATED PIT
- JUNCTION PIT
- SURFACE GRADE
- PAVEMENT LEVEL
- KERB ONLY
- ROOF OUTLINE
- CATCHMENTS

LEGEND EXISTING

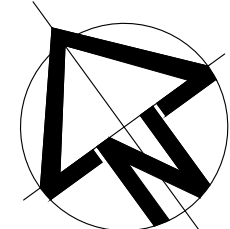
- STORMWATER PIPE
- STORMWATER PIT
- WATER LINE
- SEWER LINE
- TELSTRAL LINE
- EXISTING SPOT LEVEL
- EXISTING CONTOURS
- GAS LINE
- ELECTRICAL LINE
- KERB & GUTTER
- TO BE DEMOLISHED

STORMWATER MANAGEMENT PLAN

SCALE 1:200



SCALE 1:200 @A1
1:400 @A3



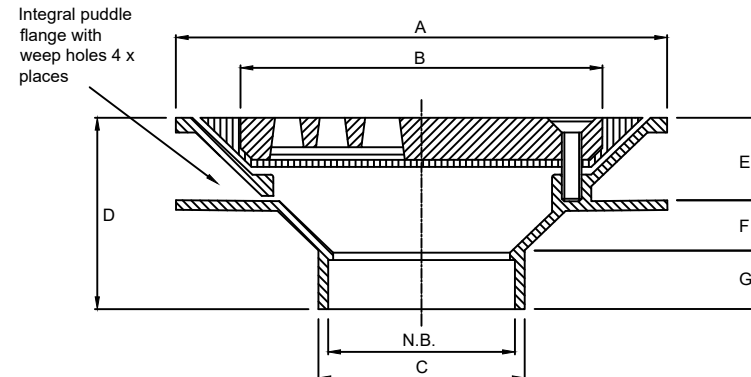
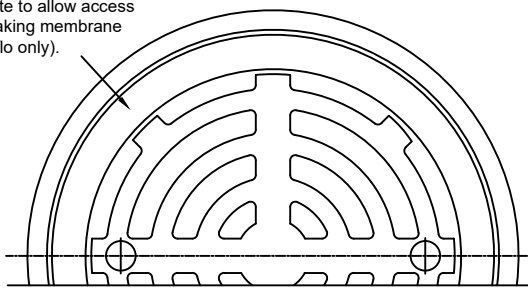
DISCHARGE FROM SITE (L/s)

AEP	PRE-DEVELOPMENT	POST DEVELOPMENT BY-PASS	OSD DISCHARGE	TOTAL SITE DISCHARGE
20%	130.42	39.95	33.2	73.12
5%	172.71	56.05	38.5	94.58
1%	251.17	81.11	45.1	126.25

SPS Truflor & Superflo Flat Grate RWO (With Membrane Clamping Ring)

Specification code:
T1A * F2 (Cl body, gal. Cl flat grate & aluminum membrane ring)
T1B * F2 (Cl body, bronze flat grate & bronze membrane ring)
T1A * F2 (all-bronze assembly)
where * = 80, 100 or 150 n.b.
SIA150F2 (Superflo all-cast iron assembly 150 outlet only)

Membrane ring fastens to body independently of grate to allow access to sump without breaking membrane seal (100 & 150 Truflor only)



N.B.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
80	200	150	85	80	33	22	25	25	8.2																	
100	260	200	110	95	44	26	25	25	8.2																	
150	260	200	160	80	48	4	28	10.2																		
SUPERFLO	400	300	160	143	66	39	38	17																		

Speciality Plumbing Supplies Pty Ltd
Tel: (02) 9416 8031 Fax: (02) 9416 7614 E-mail: sps@bigpond.net.au

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Client Title	EDMUND RICE COLLEGE
Dwg Status	APPROVAL
Local Authority	WOLLONGONG

Dwg Title	PROPOSED CRITICAL USE DEVELOPMENT 112 MOUNT KEIRA RD WEST WOLLONGONG
Ref & Dwg No	23153.DA.C02
Sheet No	02 of 11
Scale	AS NOTED @ A1
Date	29/08/24
Rev	F
A1	

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Local Authority

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Dwg Title

PROPOSED CRITICAL USE DEVELOPMENT
112 MOUNT KEIRA RD WEST WOLLONGONG

STORMWATER PLAN 2

Ref & Dwg No

23153.DA.C03

Sheet No

03 of 11

Scale

AS NOTED @ A1

Date

29/08/24

Rev

F A1

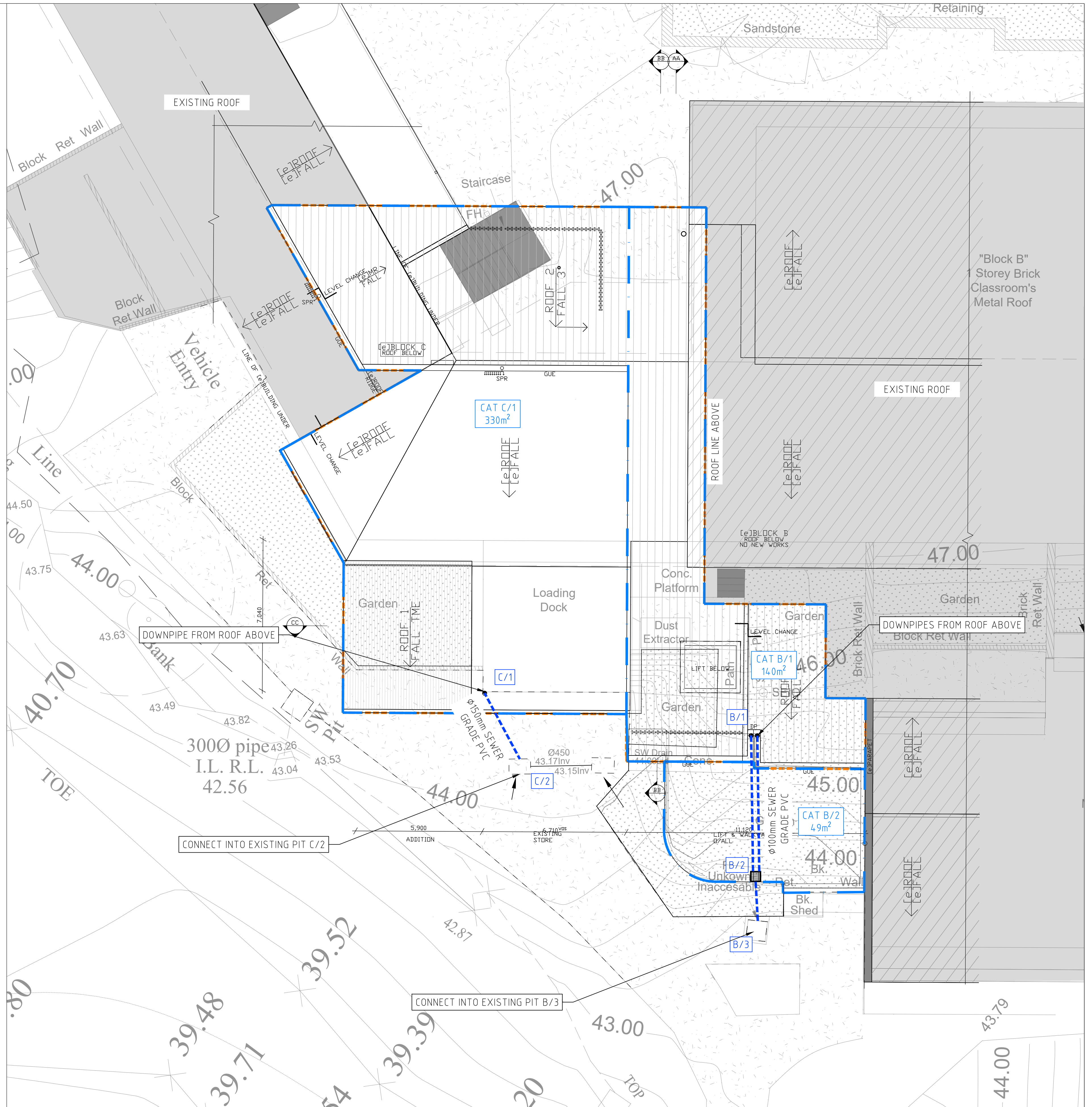
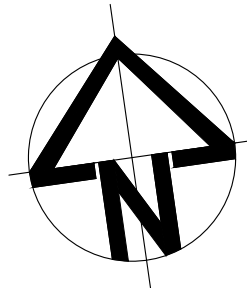
LEGEND PROPOSED	
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	STORMWATER PIPE
	GRATED PIT
	JUNCTION PIT
	SURFACE GRADE
	PAVEMENT LEVEL
	KERB ONLY
	ROOF OUTLINE
	CATCHMENTS

LEGEND EXISTING	
	STORMWATER PIPE
	STORMWATER PIT
	WATER LINE
	SEWER LINE
	TELSTRAL LINE
	EXISTING SPOT LEVEL
	EXISTING CONTOURS
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	KERB & GUTTER
	TO BE DEMOLISHED

NOTE: ALL DOWNPIPES SIZED FOR ALL STORM EVENTS UP TO AND INCLUDING THE 1% AEP.

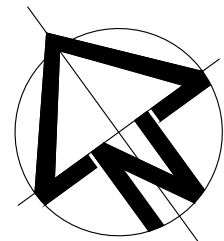
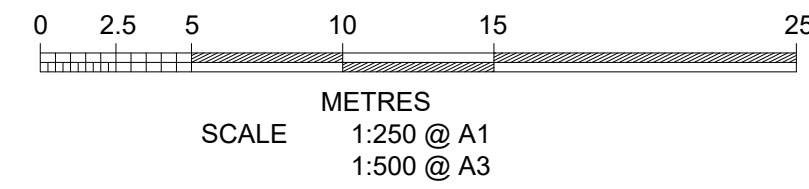
LIFT DISCHARGE (L/s)		
AEP	PRE-DEVELOPMENT DISCHARGE	POST-DEVELOPMENT DISCHARGE
20%	22.53	23.65
5%	31.04	32.80
1%	44.66	44.66

STORMWATER MANAGEMENT PLAN - LIFT
SCALE 1:100
0 2.5 5 7.5 10 12.5
SCALE 1:100 @A1
1:200 @A3
METRES





IMPERVIOUS AREA - EXISTING
SCALE 1:250



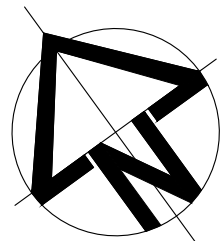
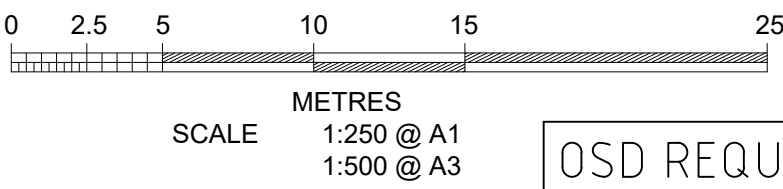
OSD REQUIREMENT CALCULATIONS

CALCULATIONS CARRIED OUT AS PER WOLLONGONG CITY COUNCIL'S DCP CHAPTER E14 - STORMWATER MANAGEMENT CLAUSE 10.1.2.

SUBJECT AREA = 3606 m²
EXISTING IMPERVIOUS AREA = 25 m²
PROPOSED IMPERVIOUS AREA = 2441 m²

AS THE DEVELOPMENT INCREASES THE IMPERVIOUS AREA OF THE SITE BY MORE THAN 100m², OSD IS REQUIRED.

IMPERVIOUS AREA - PROPOSED
SCALE 1:250



OSD REQUIREMENT CALCULATIONS

CALCULATIONS FOR RAINWATER RE-USE AS PER MUSIC MODEL:

NON-POTABLE USAGE RATES:	
- TOTAL NUMBER OF TOILETS (INCL. ACCESSIBLE)	= 7
- TOILET PAN/URINAL DEMAND FOR SCHOOLS	= 0.06kL/DAY
- HENCE, TOTAL DAILY USAGE FOR TOILETS	= 0.42kL/DAY
- TOTAL AREA OF OVAL	= 6450m ²
- REUSE FOR IRRIGATION (PET-RAIN)	= 0.4kL/yr/m ²
- HENCE, TOTAL YEARLY USAGE FOR IRRIGATION	= 2580kL/yr
- TOTAL ROOF AREA DRAINING TO RAINWATER STORAGE	= 1839m ²
- PROPOSED TOTAL RAINWATER STORAGE	= 120kL
- % REUSE DEMAND MET (MUSIC MODEL)	= 14.83%

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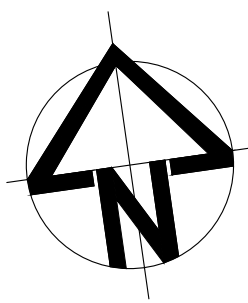
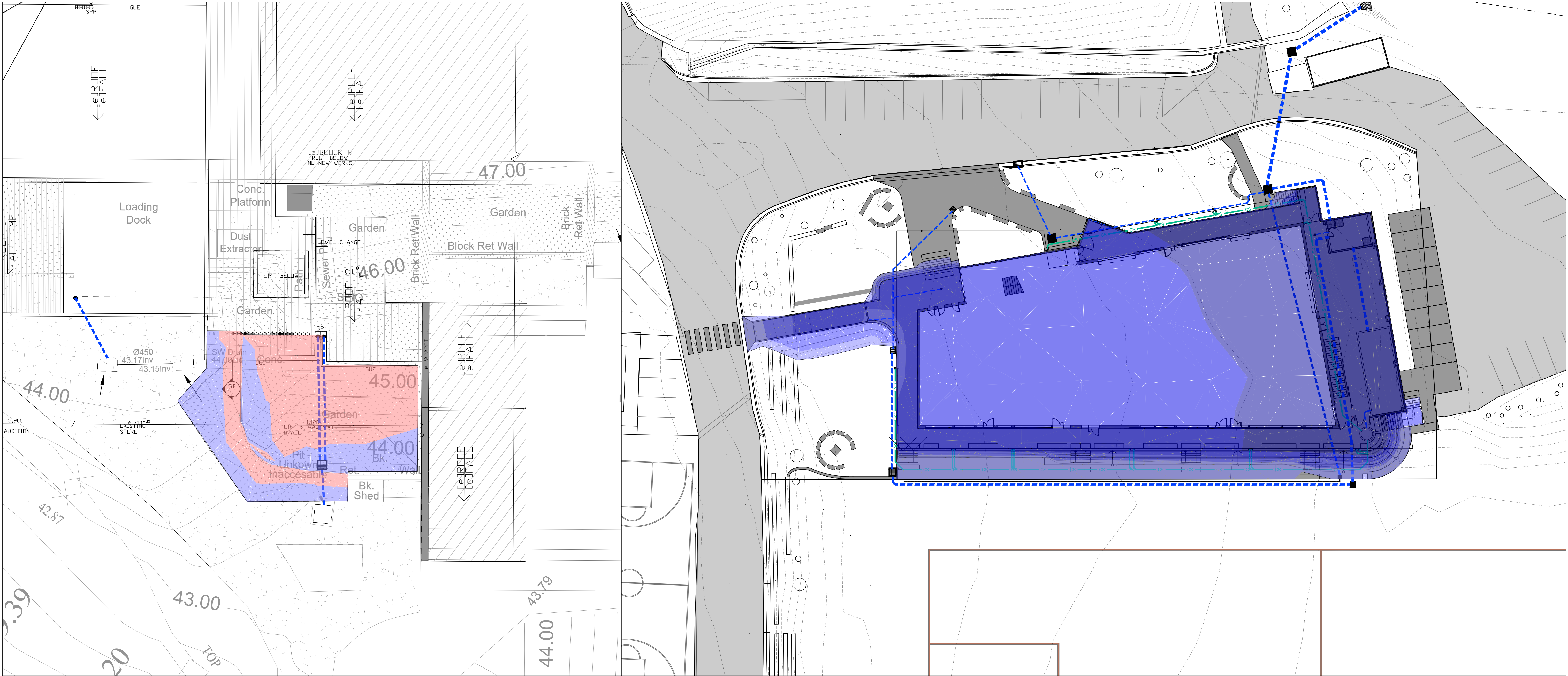
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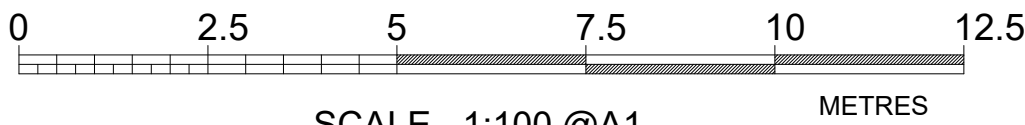
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Designed	I.B.		
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Approved	A.C.		
Dwg Status		APPROVAL	Local Authority
			WOLLONGONG

Dwg Title		Ref & Dwg No
PROPOSED CRITICAL USE DEVELOPMENT 112 MOUNT KEIRA RD WEST WOLLONGONG		23153.DA.C05
		Sheet No 05 of 11
		Scale AS NOTED @ A1
Date	29/08/24	Rev F
		A1



BULK EARTHWORKS PLAN - LIFT

SCALE 1:100



SCALE 1:100 @A1
1:200 @A3

CUT/FILL SUMMARY

- CUT/FILL SUMMARY ASSUMED 200mm TOP SOIL STRIPPING PRIOR TO EXCAVATION OF CUT OR PLACEMENT OF FILL.

- NO ALLOWANCE MADE FOR UNSUITABLE MATERIAL THAT MAY BE ENCOUNTERED ON SITE.

- FILL OR SUSPENDED SLAB DESIGN TO BE CONFIRMED DURING DESIGN DEVELOPMENT.

SUMMARY

CUT= 15 cu.m
FILL= 2693 cu.m

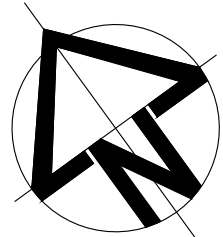
TOTAL IMPORT OF MATERIAL
TO SITE= 2678 cu.m

BULK EARTHWORKS PLAN - TAS BUILDING

SCALE 1:250



SCALE 1:250 @ A1
1:500 @ A3



SURFACE ELEVATION DATA

NUMBER	MINIMUM ELEVATION	MAXIMUM ELEVATION	COLOR
1	-0.84	0.00	Red
2	0.00	0.50	Light Blue
3	0.50	1.00	Blue
4	1.00	1.50	Dark Blue
5	1.50	2.18	Very Dark Blue

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PROPOSED CRITICAL USE DEVELOPMENT
112 MOUNT KEIRA RD WEST WOLLONGONG

BULK EARTHWORKS

Ref & Dwg No

23153.DA.C06

Sheet No

06 of 11

Scale

AS NOTED @ A1

Date

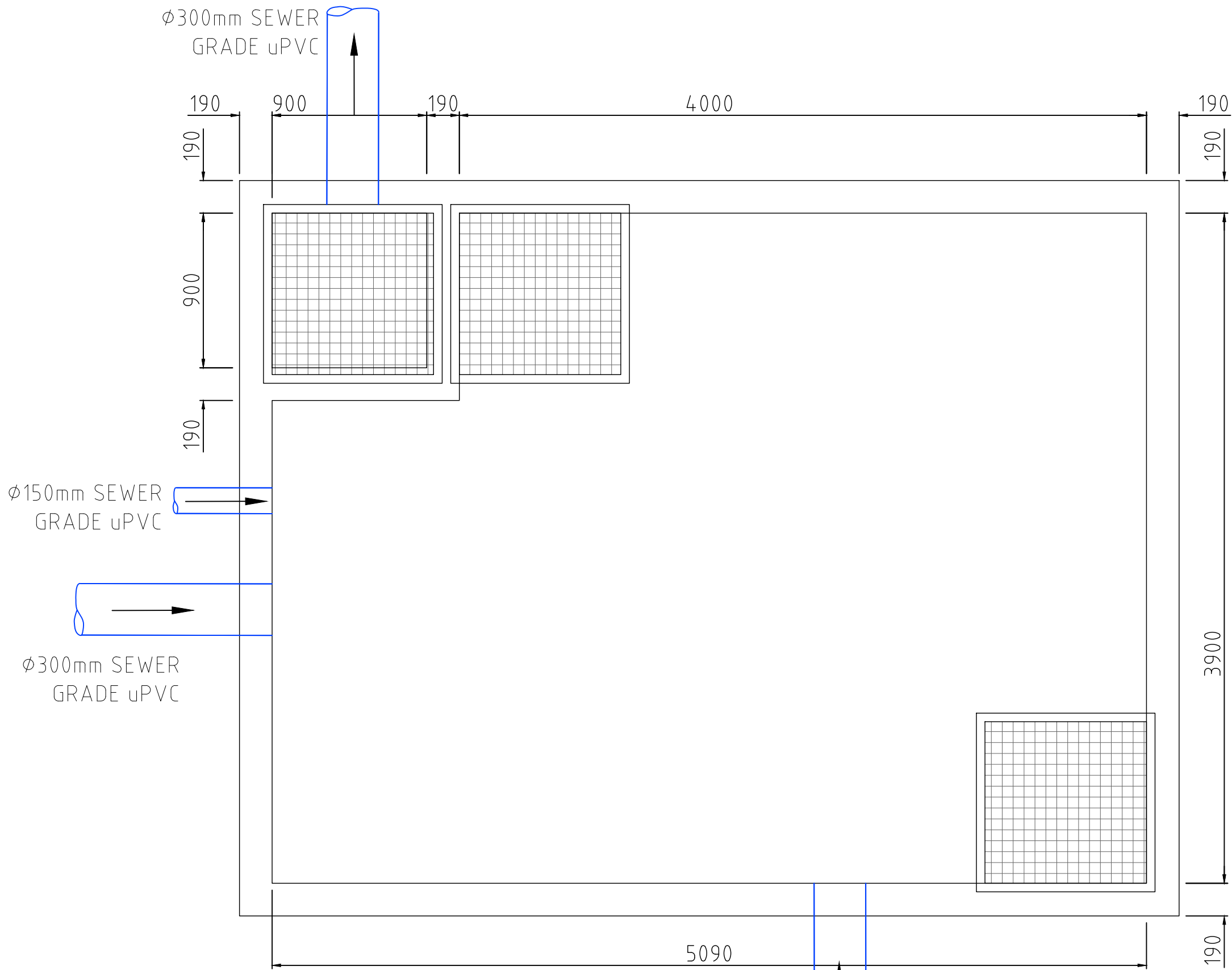
29/08/24

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OSD TANK PLAN
SCALE 1:25

Ø300mm SEWER
GRADE uPVC INLET
FROM RWT

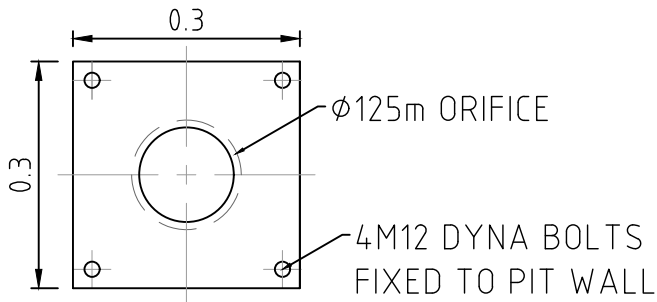
PROVIDE GALVANISED STEP
IRONS AT 300mm CENTRES
IN ACCORDANCE WITH AUST.
STANDARDS

Ø300mm SEWER
GRADE uPVC OUTLET

BLOCK WALL TO PROVIDE WEIR.

Ø150mm SEWER GRADE uPVC
ORIFICE PLATE TO DETAIL

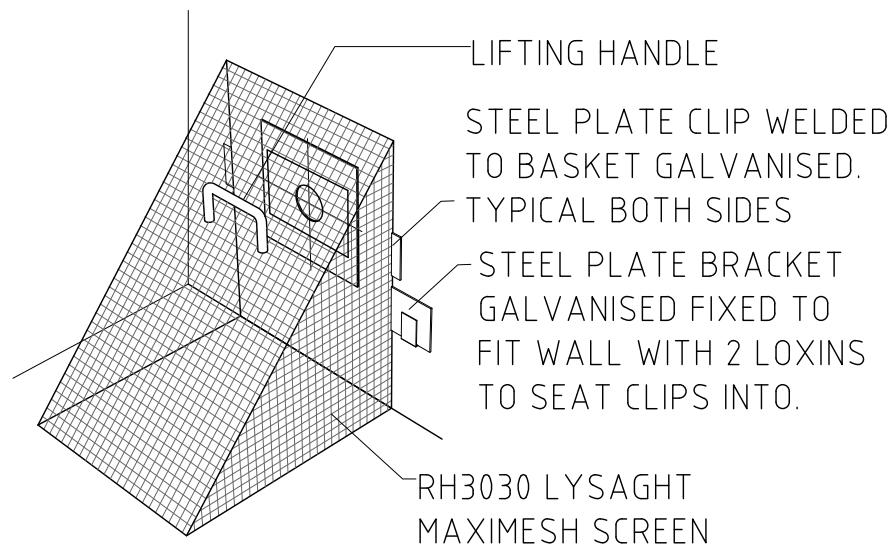
- INSTALL AN IDENTIFICATION SYSTEM ON EACH OSD IN THE FORM OF A CORROSION RESISTANT PLAQUE. THE PLAQUE SHALL BE ON OR CLOSE TO THE OSD SYSTEM AND IS TO INDICATE:
- A. THE STRUCTURE IS AN OSD FACILITY, PART OF THE STORMWATER NETWORK
 - B. ITS IDENTIFICATION NUMBER, PROVIDED AS PART OF THE DEVELOPMENT APPROVAL PROCESS
 - C. IT IS NOT TO BE TAMPERED WITH, AND
 - D. ANY SPECIALIST MAINTENANCE REQUIREMENTS, E.G. CONFINED SPACES WARNING



ORIFICE PLATE DETAIL

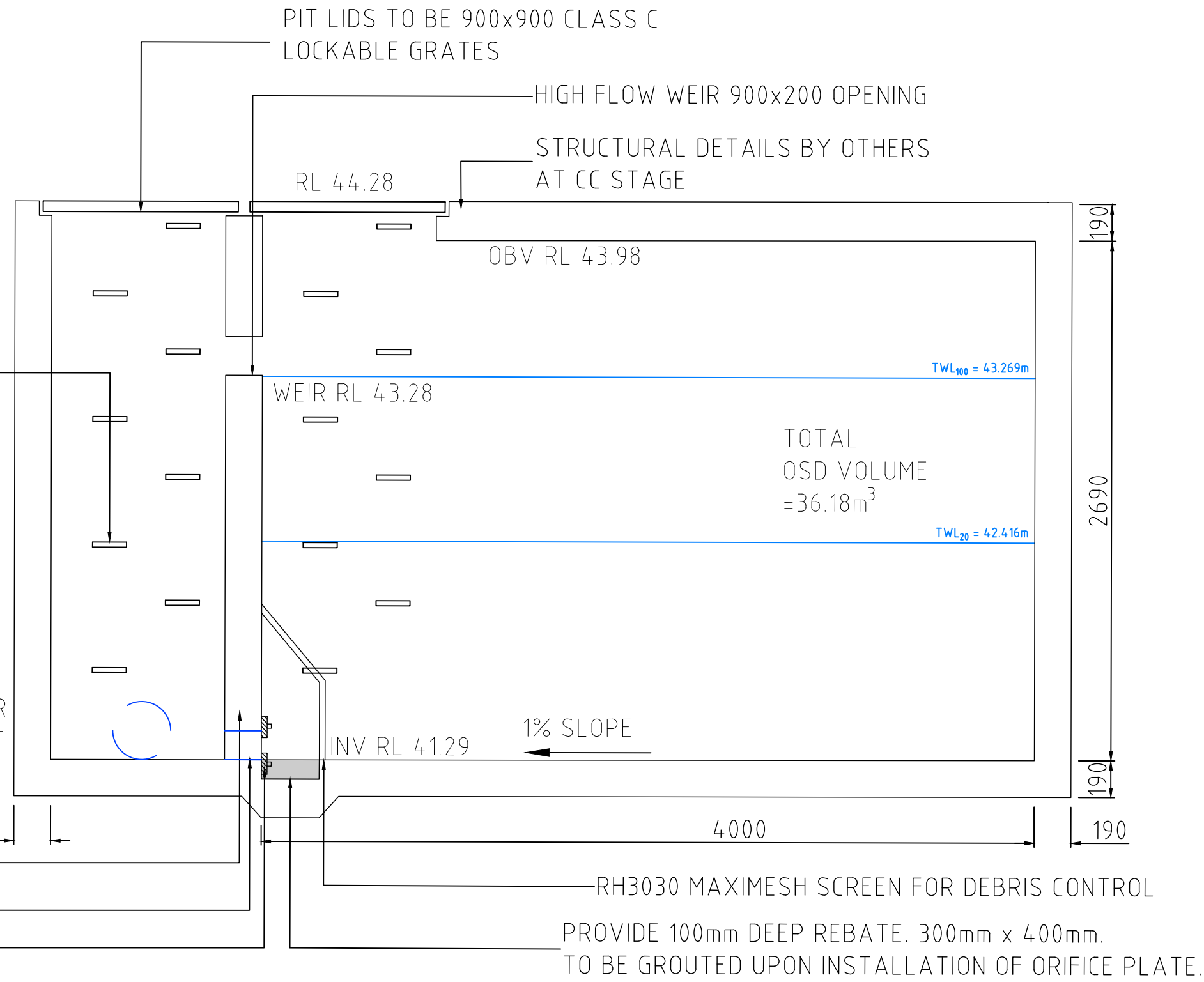
SCALE 1:10

PLATE TO BE 3 mm STAINLESS
STEEL MACHINE CUT



DEBRIS SCREEN DETAIL

NTS



OSD TANK SECTION
SCALE 1:25

OSD CALCULATIONS AS PER SECTION 10.2.4 CHAPTER E14 WDCP 2009					
Input Data	Rainfall Intensity I _t ⁵⁰ (mm/hr)		102.00	OSD Tributary Area (m ²)	
	Existing Impervious Area (m ²)		0.0	Proposed Impervious Area (m ²)	
Step 1	Existing % Impervious		0.0	Proposed % Impervious	
		F1 5yr	0.99		F1 5yr
		F1 100yr	0.99		F1 100yr
	OSD Tributary Area (Ha)		0.2512	OSD Tributary Area (Ha)	
		F2	1.09		F2
		F3	0.00		F3
		F4	0.71		F4
	PSD ₅ = F1 ₅ x F2x2.67xAxI (L/s)		73.79	PSD ₅ = F2x2.67xAxI (L/s)	
	PSD ₁₀₀ = F1 ₁₀₀ x F2x4.67xAxI (L/s)		129.69	PSD ₁₀₀ = F2x4.67xAxI (L/s)	
	SSR ₅ = F3xF4x2.25x(PSD ₅ /F2) (m ³)		20.27	SSR ₅ = F3xF4x2.25x(PSD ₅ /F2) (m ³)	
Final Values	SSR ₁₀₀ = F3xF4x2.25x(PSD ₁₀₀ /F2) (m ³)		35.62	SSR ₁₀₀ = F3xF4x2.25x(PSD ₁₀₀ /F2) (m ³)	
				PSD ₅ = Step 1 (L/s)	
				PSD ₁₀₀ = Step 1 (L/s)	
				SSR ₅ = Step 1 - Step 2 (m ³)	
				SSR ₁₀₀ = Step 1 - Step 2 (m ³)	

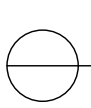
OSD DISCHARGE CONTROL					
STORAGE VOLUME @ RL		43.30	=	36.180 m3	
ORIFICE DIAMETER			=	125 mm	
CENTRE OF ORIFICE LEVEL			=	41.353 m	
WEIR LEVEL			=	43.280 m	
WEIR LENGTH			=	0.900 m	
AEP (%)	DISCHARGE IN	MAX WATER LEVEL	DISCHARGE PER ORIFICE	DISCHARGE WEIR	DISCHARGE TOTAL
20	105.13	42.416	33.17	0.00	33.17
5	146.32	42.765	38.52	0.00	38.52
1	205.84	43.269	45.15	0.00	45.15

REVISIONS

No.	DESCRIPTION	DRN	APP	DATE
B	REVISED TO CLIENTS COMMENTS	I.B.	A.C.	21/11/23
C	REVISED DRAINAGE LINES	I.B.	A.C.	24/11/23
D	REVISED TO UPDATED ARCH	I.B.	A.C.	29/11/23
E	REVISED TO ARCH COMMENTS	I.B.	A.C.	27/08/24
F	REVISED TO ARCH COMMENTS	I.B.	a.c.	29/08/24



Site Plus Pty Ltd ABN 73 104 315 095



engineering

landscape

design

flooding

management

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Height Datum	A.H.D.
Drawn	I.B.
Designed	I.B.
Checked	A.C.
Approved	A.C.

Client Title	
EDMUND RICE COLLEGE	
Dwg Status	APPROVAL
Local Authority	WOLLONGONG

Dwg Title	
PROPOSED CRITICAL USE DEVELOPMENT 112 MOUNT KEIRA RD WEST WOLLONGONG	
OSD DETAILS	

Ref & Dwg No	
23153.DA.C07	
Sheet No	07 of 11
Scale	
AS NOTED @ A1	
Date	29/08/24
Rev	F
	A1

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REVISIONS

No.	DESCRIPTION	DRN	APP	DATE
B	REVISED TO CLIENTS COMMENTS	I.B.	A.C.	21/11/23
C	REVISED DRAINAGE LINES	I.B.	A.C.	24/11/23
D	REVISED TO UPDATED ARCH	I.B.	A.C.	29/11/23
E	REVISED TO ARCH COMMENTS	I.B.	A.C.	27/08/24
F	REVISED TO ARCH COMMENTS	I.B.	a.c.	29/08/24



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engineering	landscape	design	flooding	management
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Dwg Title	
PROPOSED CRITICAL USE DEVELOPMENT 112 MOUNT KEIRA RD WEST WOLLONGONG	
DRAINAGE CALCULATIONS 1	
Ref & Dwg No	
23153.DA.C08	
Sheet No	
08 of 11	
Scale	
AS NOTED @ A1	
Date	29/08/24
Rev	F
	A1

Pit Schedule - TAS Drainage												
Pit No.	Pit Type	Pit Width	Pit Length	Outlet Diameter	Outlet Invert RL	Inlet Diameter	Inlet Invert RL	Pit Depth	Pit Lid Level	Easting	Northing	Comment
		(mm)	(mm)	(mm)	(m)	(mm)	(m)	(m)	(m)	(m)	(m)	
A/11	HEADWALL					375	40.470	-0.048	40.422	303769.98	6189293.682	
A/10	JP 900x900	900	900	375	40.525	375	40.555	1.042	41.567	303759.32	6189294.276	
A/9	JP 900x900	900	900	375	40.766	300	41.196	1.833	42.599	303746.52	6189281.808	
						150	41.191					
						150	41.191					
A/8	Bend	0	0	300	41.240	300	41.240	1.185	42.425	303752.82	6189278.738	
D/2	JP 900x900	900	900	150	42.170	150	42.170	0.976	43.146	303720.42	6189292.886	
E/1	JP 450x450	450	450	150	41.987			0.750	42.737	303732.32	6189246.630	
A/7	JP 900x900	900	900	300	41.290	300	41.330	2.990	44.280	303750.39	6189273.464	
D/1	KIP 12m Lintel	600	900	150	42.276			0.781	43.057	303722.54	6189303.195	
A/6	Bend	0	0	300	41.350	300	41.350	2.930	44.280	303747.62	6189272.835	
A/5	JP 900x900	900	900	300	41.570	225	41.600	1.111	42.681	303733.09	6189244.871	
A/4	GSIP 900x900	900	900	225	42.065	225	42.095	1.391	43.456	303686.19	6189280.347	
A/3	GSIP 900x900	900	900	225	42.260	150	42.290	1.232	43.492	303695.63	6189293.320	
A/2	Bend	0	0	150	42.395	150	42.395	1.021	43.416	303701.75	6189301.838	
A/1	GSIP 600x600	600	600	150	42.505			0.750	43.255	303712.42	6189303.323	

Pit Schedule - Lift Drainage 1												
Pit No.	Pit Type	Pit Width	Pit Length	Outlet Diameter	Outlet Invert RL	Inlet Diameter	Inlet Invert RL	Pit Depth	Pit Lid Level	Easting	Northing	Comment
		(mm)	(mm)	(mm)	(m)	(mm)	(m)	(m)	(m)	(m)	(m)	
B/3	EXISTING PIT					100	42.508	0.700	43.208	303661.24	6189391.469	
B/2	GSIP 450x450	450	450	100	42.644	100	42.669	1.274	43.918	303661.56	6189393.949	
B/1	Downpipe	100		100	43.837			1.488	45.325	303662.53	6189400.430	

Pit Schedule - Lift Drainage 2												
Pit No.	Pit Type	Pit Width	Pit Length	Outlet Diameter	Outlet Invert RL	Inlet Diameter	Inlet Invert RL	Pit Depth	Pit Lid Level	Easting	Northing	Comment
		(mm)	(mm)	(mm)	(m)	(mm)	(m)	(m)	(m)	(m)	(m)	
C/2	EXISTING PIT					150	43.308	0.750	44.058	303651.50	6189400.641	
C/1	Downpipe	100		150	43.387			0.750	44.137	303650.23	6189404.178	

HGL Report - TAS Drainage										Return Period: 10yrs		Location: Wollongong 1987 IFD												
Pipe Connecting Pits (Downstream Upstream)	Pipe Class	Pipe Diameter	Pipe Length	Pipe Design Flow	Mannings n	Pipe Velocity	Pipe Part Velocity	Pipe Velocity Head	HGL at Downstream Pit	Pipe Friction Slope	Pipe Friction Loss	HGL at Upstream Pit	Pit Loss Coefficient	Pipe Head Loss	Adopted Upstream Water Level	Pit Surcharge Level (Pit Inlet/Outlet Level)	Downstream Pipe Obvert	Upstream Pipe Obvert	Downstream Pipe Invert	Upstream Pipe Invert	Pipe Slope	Pipe Design Flow	Pipe HGL Capacity	Pipe Manning Capacity
		(mm)	(m)	(l/s)		(m/s)	(m/s)	(m)	(m)	(%)	(m)	(m)	Ku	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(%)	(l/s)	(l/s)	(l/s)
A/2 A/1	PVC	150	10.777	16.7	0.009	0.95	1.381	0.046	42.883	0.01	0.064	42.946	5.001	0.229	43.175	43.255	42.545	42.655	42.395	42.505	1.021	16.7	22.4	22.2
A/11 A/10	Class 3 RCP	375	10.675	162.7	0.013	14.73	0.111	40.845	0.00	0.049	40.900	1.000	0.111	41.011	41.567	40.845	40.900	40.470	40.525	0.515	162.7	172.5	125.8	
A/3 A/2	PVC	150	10.489	16.7	0.009	0.94	1.367	0.045	42.776	0.01	0.061	42.837	1.000	0.045	42.883	43.416	42.440	42.545	42.290	42.395	1.001	16.7	22.2	22.0
A/4 A/3	PVC	225	16.045	16.9	0.009	0.43	1.387	0.009	42.754	0.00	0.013	42.767	1.000	0.009	42.776	43.492	42.320	42.485	42.095	42.260	1.028	16.9	65.7	65.8
A/5 A/4	PVC	225	58.812	35.8	0.009	0.90	1.528	0.041	42.471	0.00	0.192	42.663	2.192	0.091	42.754	43.456	41.825	42.290	41.600	42.065	0.791	35.8	57.2	57.7
A/6 A/5	PVC	300	31.512	37.8	0.009	0.53	1.473	0.015	42.404	0.00	0.028	42.431	2.736	0.040	42.471	42.681	41.650	41.870	41.350	41.570	0.698	37.8	116.4	116.7
A/7 A/6	PVC	300	2.845	37.2	0.009	0.53	1.470	0.014	42.387	0.00	0.002	42.390	1.000	0.014	42.404	44.280	41.630	41.650	41.330	41.350	0.703	37.2	114.8	117.1
A/8 A/7	PVC	300	5.805	133.4	0.009	1.89	1.887	0.182	41.951	0.01	0.054	42.005	2.105	0.382	42.387	44.280	41.540	41.590	41.240	41.290	0.861	133.4	127.8	129.6
A/9 A/8	PVC	300	7.002	133.1	0.009	1.88	1.882	0.181	41.496	0.01	0.065	41.561	2.154	0.389	41.951	42.425	41.496	41.540	41.196	41.240	0.628	133.1	108.3	110.7
A/10 A/9	Class 3 RCP	375	17.864	163.7	0.013	14.8	1.939	0.112	41.011	0.00	0.083	41.094	2.595	0.291	41.385	42.599	40.930	41.141	40.555	40.766	1.181	163.7	265.4	190.5
D/2 D/1	PVC	150	10.525	7.5	0.009	0.42	1.120	0.009	42.230	0.00	0.014	42.337	9.803	0.089	42.426	43.057	42.320	42.426	42.170	42.276	1.012	7.5	22.3	22.1
A/9 D/2	PVC	150	28.356	7.4	0.009	0.42	1.769	0.009	41.385	0.00	0.037	42.213	1.798	0.016	42.229	43.146	41.341	42.320	41.191	42.170	3.453	7.4	4.25	40.9
A/9 E/1	PVC	150	37.938	15.4	0.009	0.87	1.783	0.039	41.385	0.01	0.191	42.060	5.395	0.209	42.269	42.737	41.341	42.137	41.191	41.987	2.097	15.4	32.8	31.9

HGL Report - Lift Drainage 1										Return Period: 10yrs				Location: Wollongong 1987 IFD										
Pipe Connecting Pits (Downstream Upstream)	Pipe Class	Pipe Diameter	Pipe Length	Pipe Design Flow	Mannings n	Pipe Velocity	Pipe Part Velocity	Pipe Velocity Head	HGL at Downstream Pit	Pipe Friction Slope	Pipe Friction Loss	HGL at Upstream Pit	Pit Loss Coefficient	Pipe Head Loss	Adopted Upstream Water Level	Pit Surcharge Level (Pit Inlet/Outlet Level)	Downstream Pipe Obvert	Upstream Pipe Obvert	Downstream Pipe Invert	Upstream Pipe Invert	Pipe Slope	Pipe Design Flow	Pipe HGL Capacity	Pipe Manning Capacity
		(mm)	(m)	(l/s)		(m/s)	(m/s)	(m)	(m)	(%)	(m)	(m)	Ku	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(%)	(l/s)	(l/s)	(l/s)
B/2 B/1	PVC	100	6.552	8.3	0.009	1.05	2.809	0.014	42.819	0.00	0.022	43.862	3.749	0.053	43.915	45.325	42.769	43.937	42.669	43.837	17.821	8.3	68.3	63.0
B/3 B/2	PVC	100	2.501	11.2	0.009	1.43	2.349	0.104	42.608	0.02	0.053	42.703	1.110	0.116	42.819	43.918	42.608	42.744	42.508	42.644	5.448	11.2	18.5	17.4

HGL Report - Lift Drainage 2									Return Period: 10yrs				Location: Wollongong 1987 IFD											
Pipe Connecting Pits (Downstream Upstream)	Pipe Class	Pipe Diameter	Pipe Length	Pipe Design Flow	Mannings n	Pipe Velocity	Pipe Part Velocity	Pipe Velocity Head	HGL at Downstream Pit	Pipe Friction Slope	Pipe Friction Loss	HGL at Upstream Pit	Pit Loss Coefficient	Pipe Head Loss	Adopted Upstream Water Level	Pit Surcharge Level (Pit Inlet/Outlet Level)	Downstream Pipe Obvert	Upstream Pipe Obvert	Downstream Pipe Invert	Upstream Pipe Invert	Pipe Slope	Pipe Design Flow	Pipe HGL Capacity	Pipe Manning Capacity
		(mm)	(m)	(l/s)		(m/s)	(m/s)	(m)	(m)	(%)	(m)	(m)	Ku	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(%)	(l/s)	(l/s)	(l/s)
C/2 C/1	PVC	150	3.758	18.3	0.009	1.04	1.872	0.055	43.458	0.01	0.026	43.484	4.602	0.253	43.737	44.137	43.458	43.537	43.308	43.387	2.097	18.3	32.8	31.9

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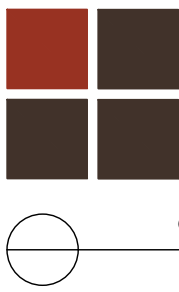
Hydrologic Design Sheet -TAS Drainage										Return Period: 10		Location:			
Wollongong 1987 IFD															
Pit	Catchment Flow Length	Catchment Slope	Catchment Roughness	Catchment Flow Time	Gutter Flow Time	Total Time	Pit C Factor	Total Catchment Area	Aera Contributing	Rainfall Intensity	Total Catchment Flow	Pit Type	Gutter Pit Inflow	Gutter Slope	Total Upstream Catchment
	(m)	(%)	'n'	(min)	(min)	(min)		(ha)	(l/s)	(mm/hr)	(l/s)		(l/s)	(%)	(ha)
A/1				6.10		6	1.000	0.03	0.0	200.2	16.7	SITEPLUS			0.0
							0.000								
							0.000								
	20.59	5.0	0.300				1.000	0.03							
A/10									0.3	213.0		SITEPLUS			0.3
A/2									0.0	213.0		SITEPLUS			0.0
A/3				5.00		5	1.000	0.01	0.0	213.0	4.0	SITEPLUS	4.0		0.0
							1.000	0.01							
							0.000								
							0.000								
A/4				6.29		6	1.000	0.03	0.1	198.7	18.9	SITEPLUS			0.1
							0.000								
							0.000								
	20.00	4.3	0.300				1.000	0.03							
A/5									0.1	213.0		SITEPLUS			0.1
A/6									0.1	213.0		SITEPLUS			0.1
A/7				5.00		5	1.000	0.18	0.3	213.0	108.8	SITEPLUS	108.8		0.3
	50.00	1.0	0.012				1.000	0.18							
							0.000								
							0.000								
A/8									0.3	213.0		SITEPLUS			0.3
A/9				5.00		5	1.000	0.02	0.3	213.0	12.4	SITEPLUS	7.1		0.3
	12.00	3.0	0.012				1.000	0.01							
							0.000								
	5.00	3.0	0.300				1.000	0.01							
D/1				5.00		5	1.000	0.01	0.0	213.0	7.5	SITEPLUS	6.6		0.0
	15.76	3.0	0.012				1.000	0.01							
							0.000								
	5.00	3.0	0.300				1.000	0.00							
D/2									0.0	213.0		SITEPLUS			0.0
E/1				5.00		5	1.000	0.03	0.0	213.0	15.4	SITEPLUS	15.4		0.0
	67.45	3.0	0.012				1.000	0.03							
							0.000								
							0.000								

Hydrologic Design Sheet –Lift Drainage 1											Return Period: 10		Location:		
Wollongong 1987 IFD															
Pit	Catchment Flow Length	Catchment Slope	Catchment Roughness	Catchment Flow Time	Gutter Flow Time	Total Time	Pit C Factor	Total Catchment Area	Aera Contributing	Rainfall Intensity	Total Catchment Flow	Pit Type	Gutter Pit Inflow	Gutter Slope	Total Upstream Catchment
	(m)	(%)	'n'	(min)	(min)	(min)		(ha)	(l/s)	(mm/hr)	(l/s)		(l/s)	(%)	(ha)
B/1				5.00		5	1.000	0.01	0.0	213.0	8.3	SITEPLUS	8.3		0.0
	25.52	3.5	0.012				1.000	0.01							
							0.000								
							0.000								
B/2				5.00		5	1.000	0.01	0.0	213.0	3.0	SITEPLUS			0.0
							0.000								
							0.000								
							1.000	0.01							

Hydrologic Design Sheet –Lift Drainage 2 Return Period: 10 Location: Wollongong 1987 IFD															
Pit	Catchment Flow Length	Catchment Slope	Catchment Roughness	Catchment Flow Time	Gutter Flow Time	Total Time	Pit C Factor	Total Catchment Area	Aera Contributing	Rainfall Intensity	Total Catchment Flow	Pit Type	Gutter Pit Inflow	Gutter Slope	Total Upstream Catchment
	(m)	(%)	'n'	(min)	(min)	(min)		(ha)	(l/s)	(mm/hr)	(l/s)		(l/s)	(%)	(ha)
C/1				5.00		5	1.000	0.03	0.0	213.0	18.3	SITEPLUS	18.3		0.0
	23.67	5.0	0.012				1.000	0.03							
							0.000								
							0.000								

REVISIONS

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F	REVISED TO ARCH COMMENTS	I.B.	a.c.	29/08/24



Site Plus Pty Ltd ABN 73 104 315 095

engineering landscape design flooding management

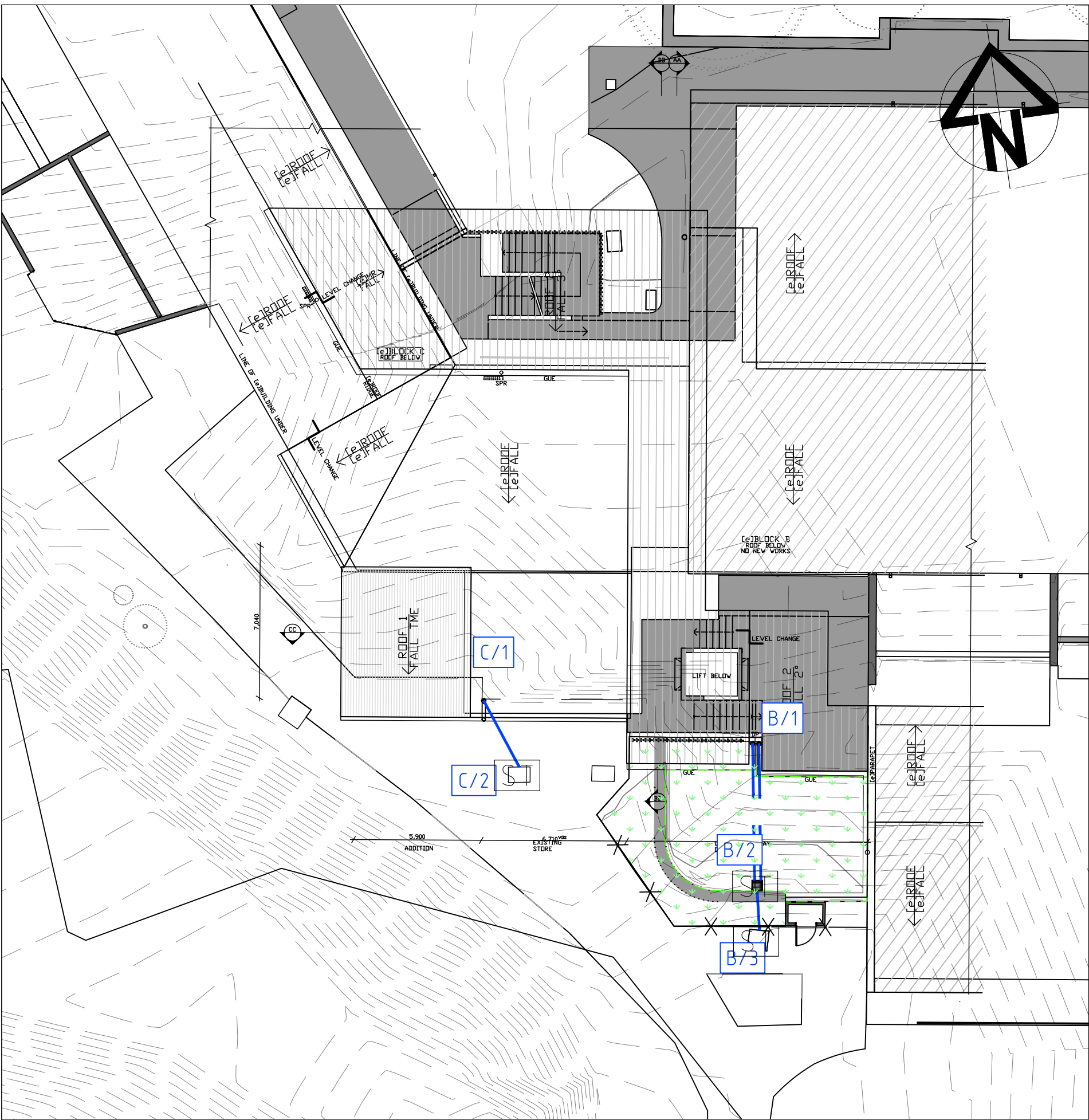
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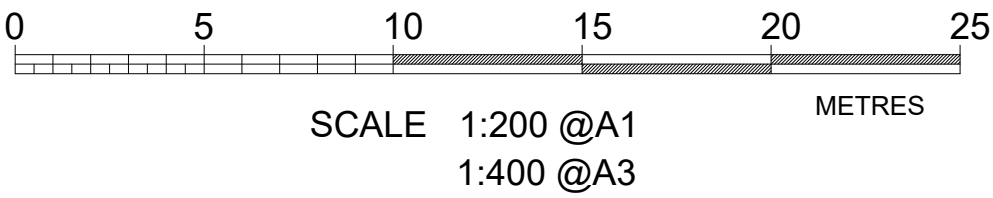
Client Title	
EDMUND RICE COLLEGE	
Dwg Status	APPROVAL
Local Authority	WOLLONGONG

Dwg Title	
PROPOSED CRITICAL USE DEVELOPMENT 112 MOUNT KEIRA RD WEST WOLLONGONG	
DRAINAGE CALCULATIONS 2	

Ref & Dwg No	
23153.DA.C09	
Sheet No	09 of 11
Scale	AS NOTED @ A1
Date	29/08/24
Rev	F
	A1



S&W MANAGEMENT PLAN - LIFT

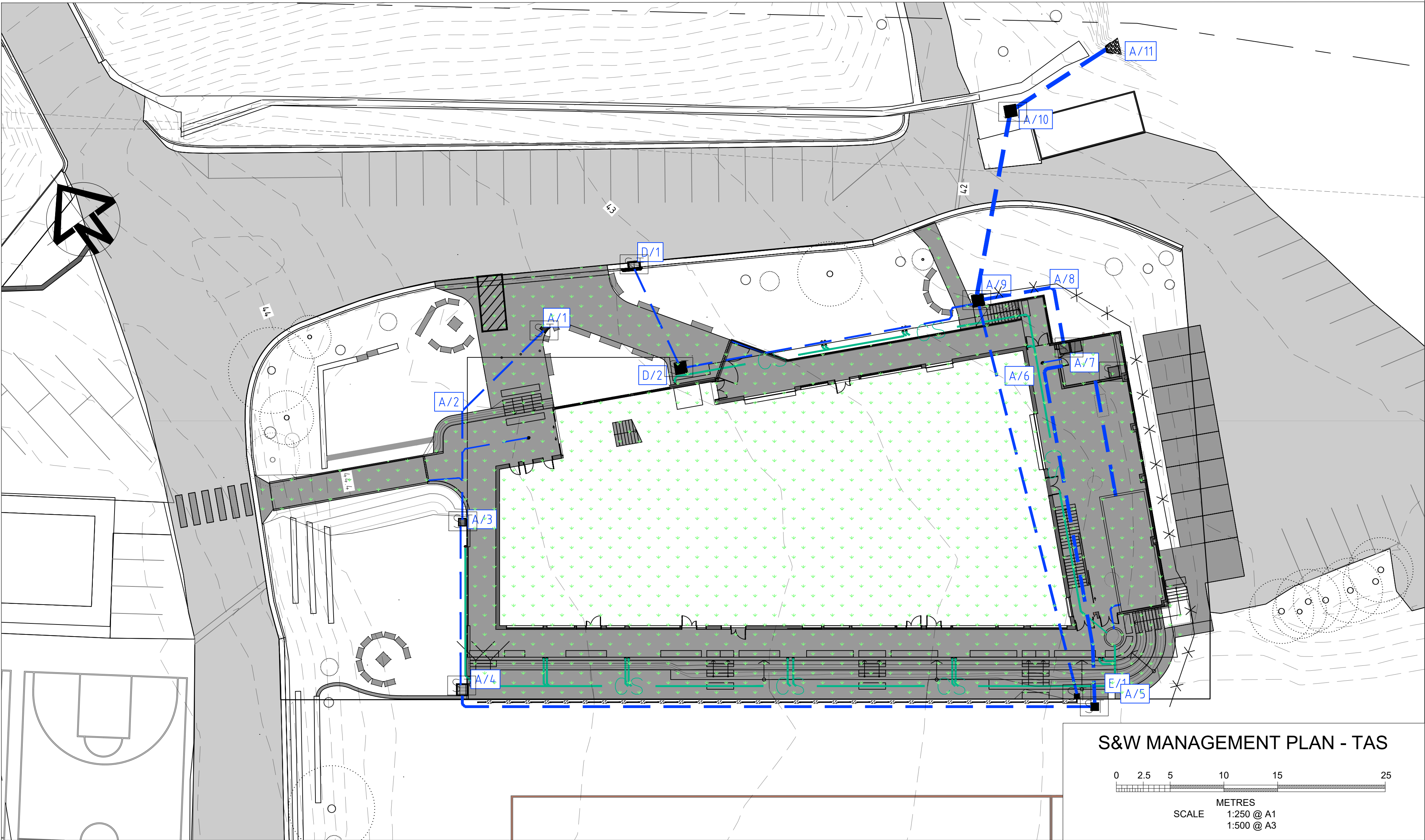


- LEGEND PROPOSED
- LEVEL SPREADER
 - SEDIMENT FENCE
 - SEDIMENT TRAP
 - STABILISED CONSTRUCTION EXIT
 - DISTURBED AREA
 - DIVERSION BANK AND CHANNEL
 - BARRIER FENCE
 - DIVERSION BANK ONLY

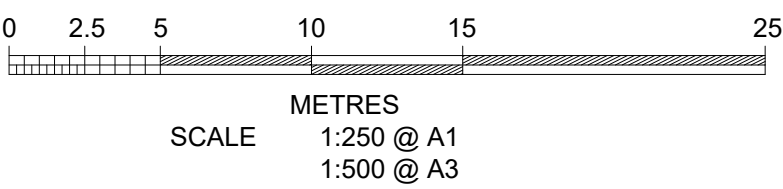
- STATEMENT OF SOIL MANAGEMENT
- 1 ALL TOPSOIL IS TO BE STOCKPILED IN AREAS DESIGNATED ON PLAN
 - 2 ALL FORMED EMBANKMENTS (CUT & FILL) ARE TO BE SEEDD WITHIN 7 DAYS
 - 3 ALL DISTURBED AREAS INCLUDING ANY CONTROLLED FILL ARE TO BE TOPSOILED & SEEDD PRIOR TO COMPLETION OF WORKS. ALL DISTURBED AREAS THAT WILL NOT BE STABILIZED WITHIN 2 MONTHS MUST BE TEMPORARILY REVEGETATED WITHIN 7 DAYS OF CLEARING. AREAS THAT FAIL TO ESTABLISH MUST BE RESOWN IMMEDIATELY
 - 4 ALL GULLY PITS ARE TO BE PROVIDED WITH SEDIMENT FILTER BARRIERS SUCH AS STRAW BAIL OR SANDBAGS.
 - 5 PROVIDE TEMPORARY DIVERSION BANKS ON SITE AS DIRECTED
 - 6 AT THE TOP OF ALL FILL EMBANKMENTS, PROVIDE A BERM TO PREVENT WATER RUNNING DOWN EMBANKMENTS, BERM IS TO BE MAINTAINED AT ALL TIMES AS THE FILL EMBANKMENT PROGRESSES TO FINAL LEVEL
 - 7 ALL FORMED EMBANKMENTS (CUT & FILL) TO BE TOPSOILED & SEEDD/FERTILIZED ON FINAL TRIMMING.
 - 8 FOR TEMPORARY REVEGETATION PURPOSES, THE REVEGETATION MIXTURE SHOULD BE TO COUNCIL SPECIFICATIONS
 - 9 TRENCHES FOR INTERLOT DRAINAGE LINES ARE TO BE REINSTATED WITH TOPSOIL FOLLOWING PIPE INSTALLATION & BACKFILLING & IMMEDIATELY SEEDD/FERTILIZED
 - 10 THE GROUND SHALL BE TYNED / SCARIFIED TO A MIN DEPTH 100mm PRIOR TO SEEDDING
 - 11 CONTRACTOR SHOULD LIAISE REGULARLY WITH ENGINEER TO DETERMINE AREAS WHICH CAN BE PROGRESSIVELY REVEGETATED
 - 12 TO ASSIST IN DUST CONTROL/WIND EROSION A TRACKIFIER SUCH AS CUROSOL SHOULD BE USED. OR EQUIVALENT ENDORSED PRODUCT BY EPA. RATES AS PER MANUFACTURES SPECIFICATION
 - 13 DESIGNATED PLANT AND MACHINERY ACCESSWAYS TO BE DEFINED ONSITE BY THE INSTALLATION OF PARAWEBBING FENCING TO MINIMIZE UNNECESSARY SITE DISTURBANCE
 - 14 IT IS THE CONTRACTORS RESPONSIBILITY TO MAINTAIN SOIL EROSION CONTROL DEVICES AND CONTROL DUST

- GENERAL NOTES
- 1 REMOVE ALL SOIL & SPOIL MATERIAL FROM THE ROADWAY & GUTTER SYSTEM FOR THAT SECTION OF TRENCHING & / OR OTHER WORKS CARRIED OUT ON ANY ONE DAY. THIS IS TO BE UNDERTAKEN ON THE COMPLETION OF EACH DAY'S WORK.
 - 2 ABSTAIN FROM PLACING SPOIL / STOCKPILES ON OR IN THE IMMEDIATE VICINITY OF THE KERB & GUTTER SYSTEM. A MINIMUM SET BACK OF THREE (3) METRES WILL BE REQUIRED.
 - 3 STOCKPILES REFERED TO IN ITEM 2 ARE NOT TO BE PLACED WITHIN FIFTEEN (15) METRES EITHER SIDE OF KERB INLET PITS. THIS IS TO BE REGARDED AS A DESIGNATED EXCLUSION ZONE.
 - 4 WHERE ROCK IS ENCOUNTERED DURING THE TRENCHING OPERATIONS & THIS MATERIAL IS CONSIDERED TO BE UNSUITABLE AS BACKFILL, THEN ALL OVERSIZED ROCK WILL BE REQUIRED TO BE REMOVED FROM THE SITE & WILL NOT BE PERMITTED TO REMAIN ON THE SURFACE OF REGRADING & SURFACE PREPARATION PRIOR TO SEEDDING DISTURBED AREAS.

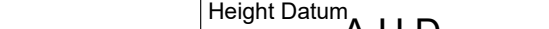

- MAINTENANCE PROCEDURES DURING CONSTRUCTION
- 1 ALL EROSION CONTROL MEASURES ARE TO BE MAINTAINED AT ALL TIMES SO THAT THOSE MEASURES ARE FULLY FUNCTIONAL / OPERATIONAL DURING THE CURRENCY OR WORKS. ALL SUCH CONTROLS MUST ALSO BE FULLY FUNCTIONAL / OPERATIONAL SHOULD WORK OPERATIONS CEASE TEMPORARILY, (e.g. WEEKENDS, ROSTERED DAYS OFF, etc.)
 - 2 RESPREAD MATERIAL GAINED DURING MAINTENANCE OPERATION OR ALTERNATIVELY PLACE ON STOCKPILES.



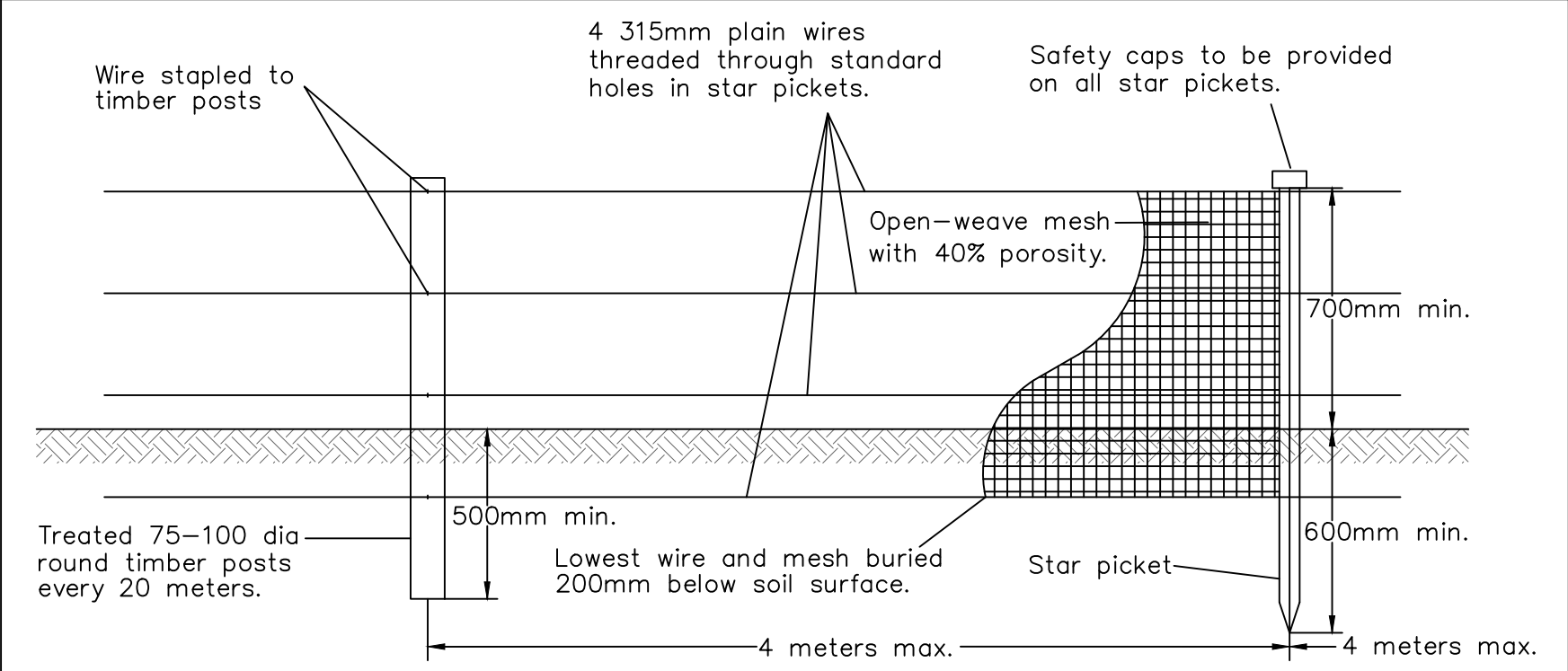
S&W MANAGEMENT PLAN - TAS



T:\Projects\23153 Edmundrice College\DWG\DA\23153_Plans.dwg

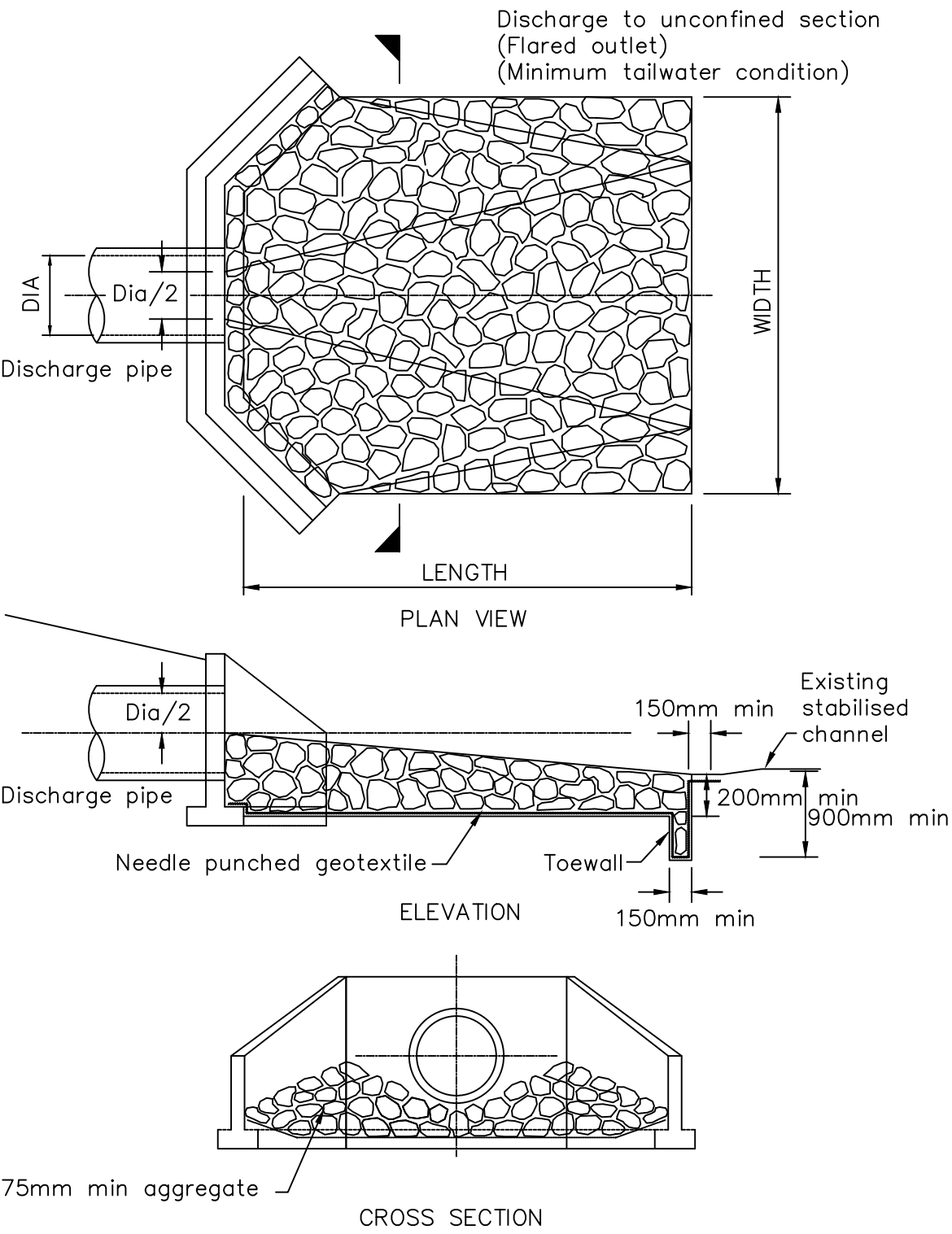
REV I S I O N S	No.	DESCRIPTION	DRN	APP	DATE	 Site Plus Pty Ltd ABN 73 104 315 095	WOLLONGONG - HEAD OFFICE Shop 1, 18 Arrow Avenue Figtree NSW 2525 PO Box 506 Figtree NSW 2525 T 61 2 4227 4233 F 61 2 4227 4133 E info@siteplus.com.au				Height Datum	A.H.D.	Client Title	Ref & Dwg No 23153.DA.C10	Dwg Title PROPOSED CRITICAL USE DEVELOPMENT 112 MOUNT KEIRA RD WEST WOLLONGONG	Sheet No 10 of 11 Scale AS NOTED @ A1	
	B	REVISED TO CLIENTS COMMENTS	I.B.	A.C.	21/11/23			Drawn	I.B.	EDMUND RICE COLLEGE	Dwg Status	Local Authority	WOLLONGONG				SOIL AND WATER MANAGEMENT PLAN
	C	REVISED DRAINAGE LINES	I.B.	A.C.	24/11/23			Designed	I.B.								
	D	REVISED TO UPDATED ARCH	I.B.	A.C.	29/11/23			Checked	A.C.								
	E	REVISED TO ARCH COMMENTS	I.B.	A.C.	27/08/24			Approved	A.C.								
	F	REVISED TO ARCH COMMENTS	I.B.	a.c.	29/08/24												

NOTE: All erosion and sediment controls must be in accordance with Landcom's Managing Urban Stormwater, Soils and Construction, Volume 1, 4th Edition, March 2004



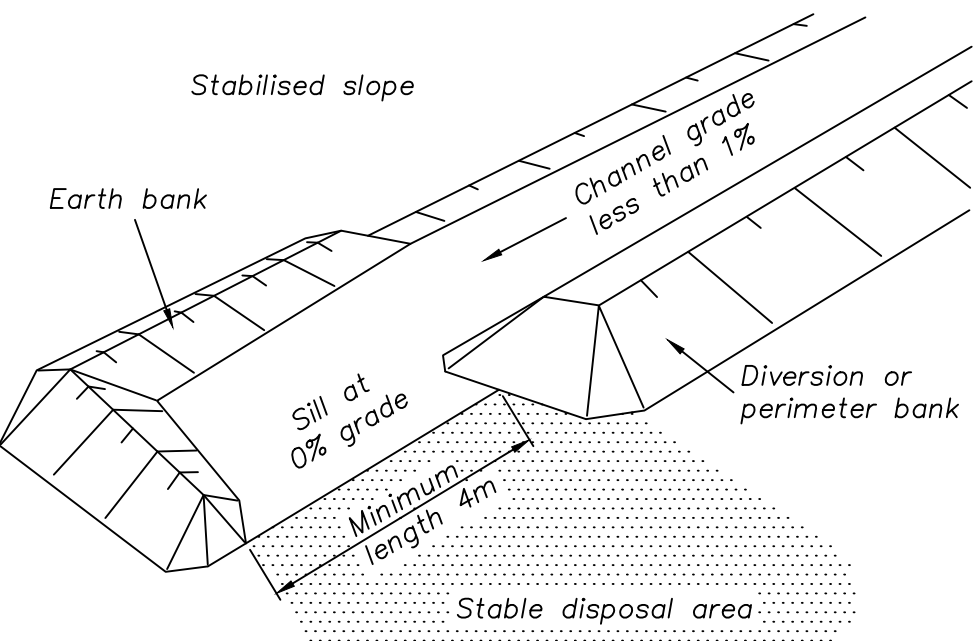
CONTROL OF WIND EROSION – SD 6-15

NOT TO SCALE



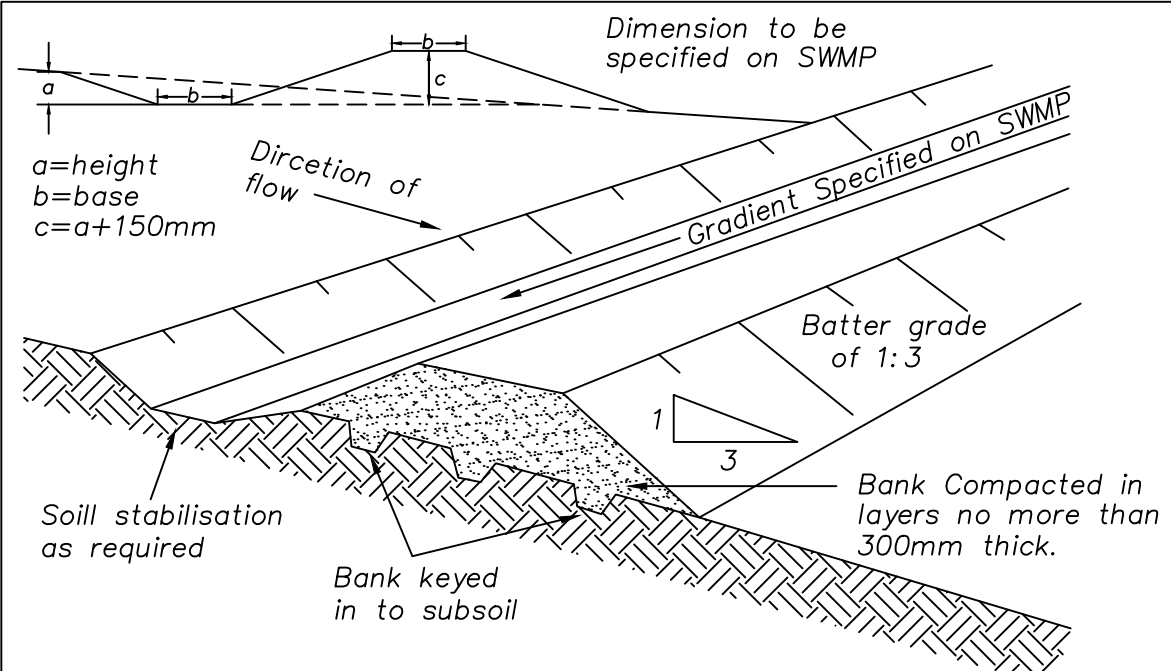
ENERGY DISSIPATER – SD 5-8

NOT TO SCALE



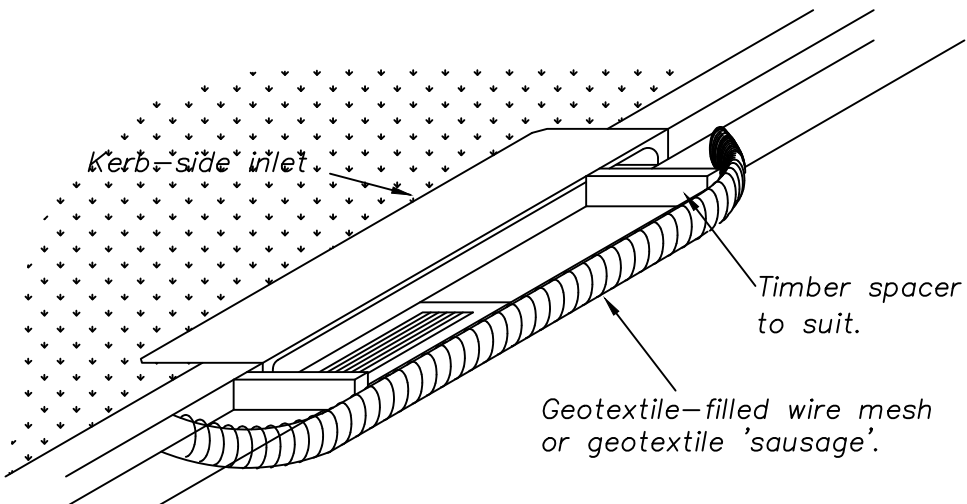
LEVEL SPREADER (OR SILL) SD 5-6

NOT TO SCALE



EARTH BANK (HIGH FLOW) – SD 5-6

NOT TO SCALE



MESH AND GRAVEL INLET FILTER – SD 6-11

NOT TO SCALE

BASIN TO BE TREATED WITH GYPSUM FLOCCULANT AT THE RATE OF 32 kg/100 m³ OF STORED WATER. THE BASIN SHOULD THEN BE DRAINED FOLLOWING A PERIOD OF AT LEAST 3 DAYS, PROVIDING WATER ANALYSIS TESTS SHOW SUSPENDED SEDIMENT CONCENTRATIONS ARE BELOW 50 mg/l.

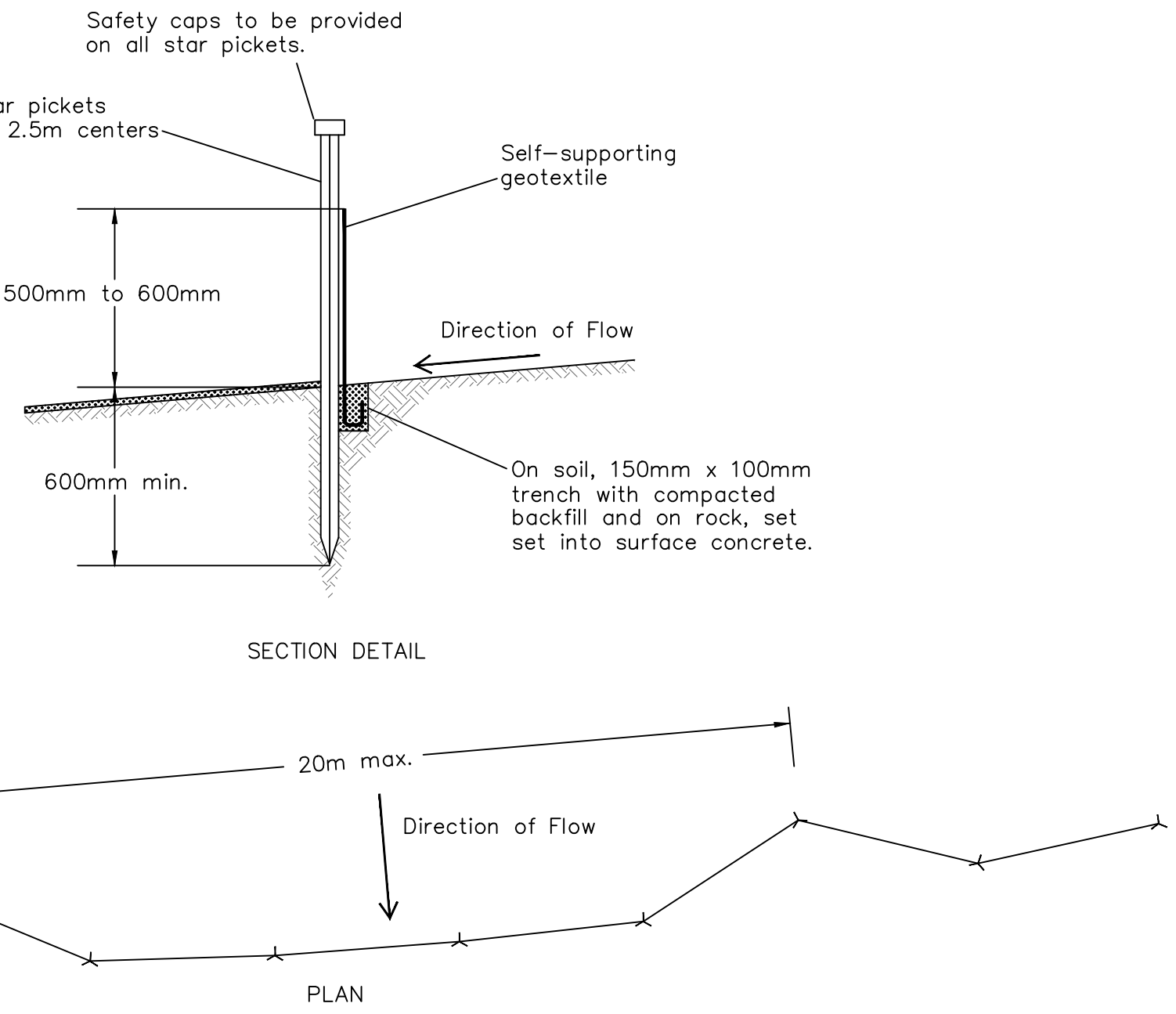
Flocculation

NOT TO SCALE



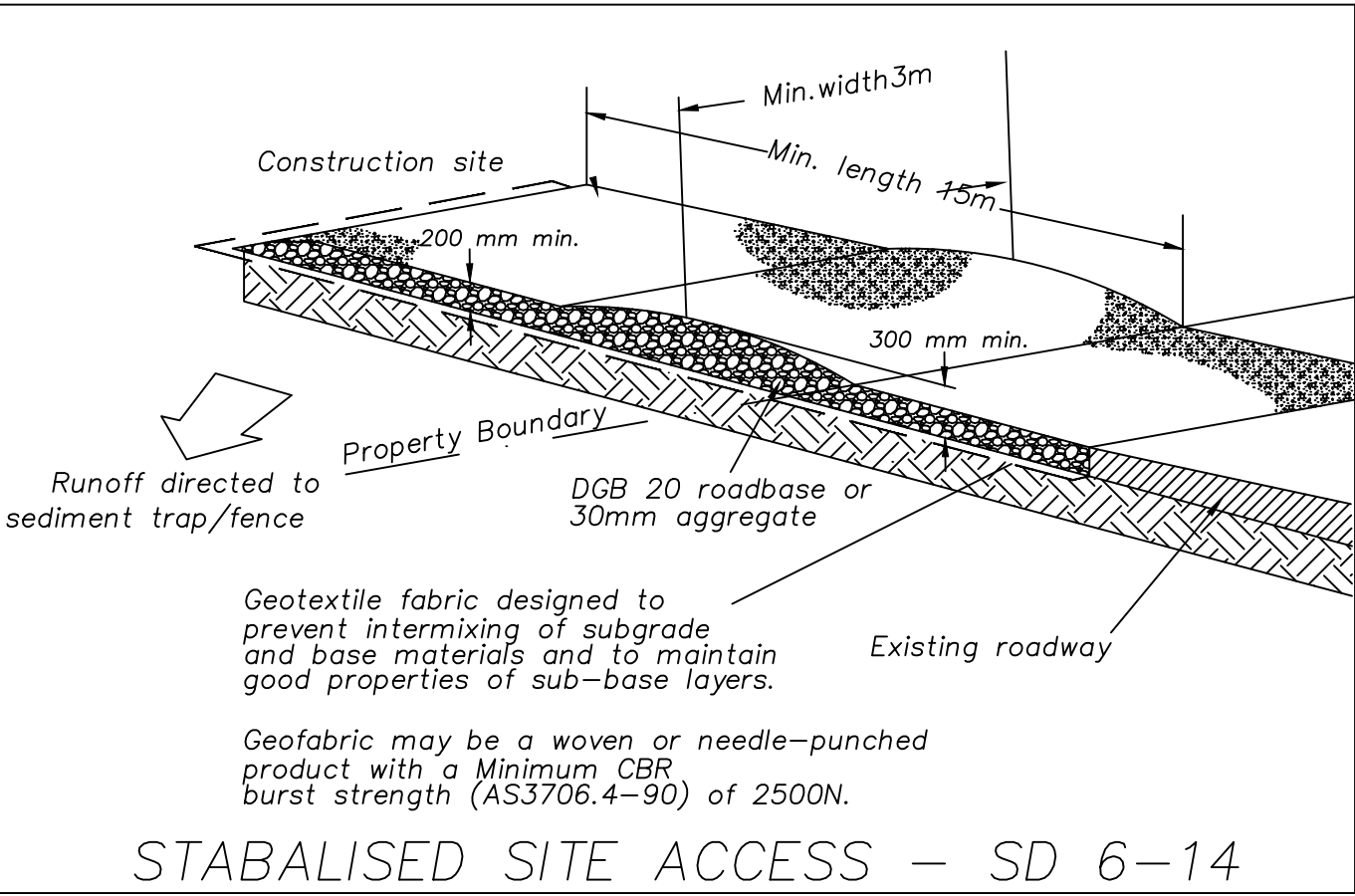
engineering landscape design flooding management

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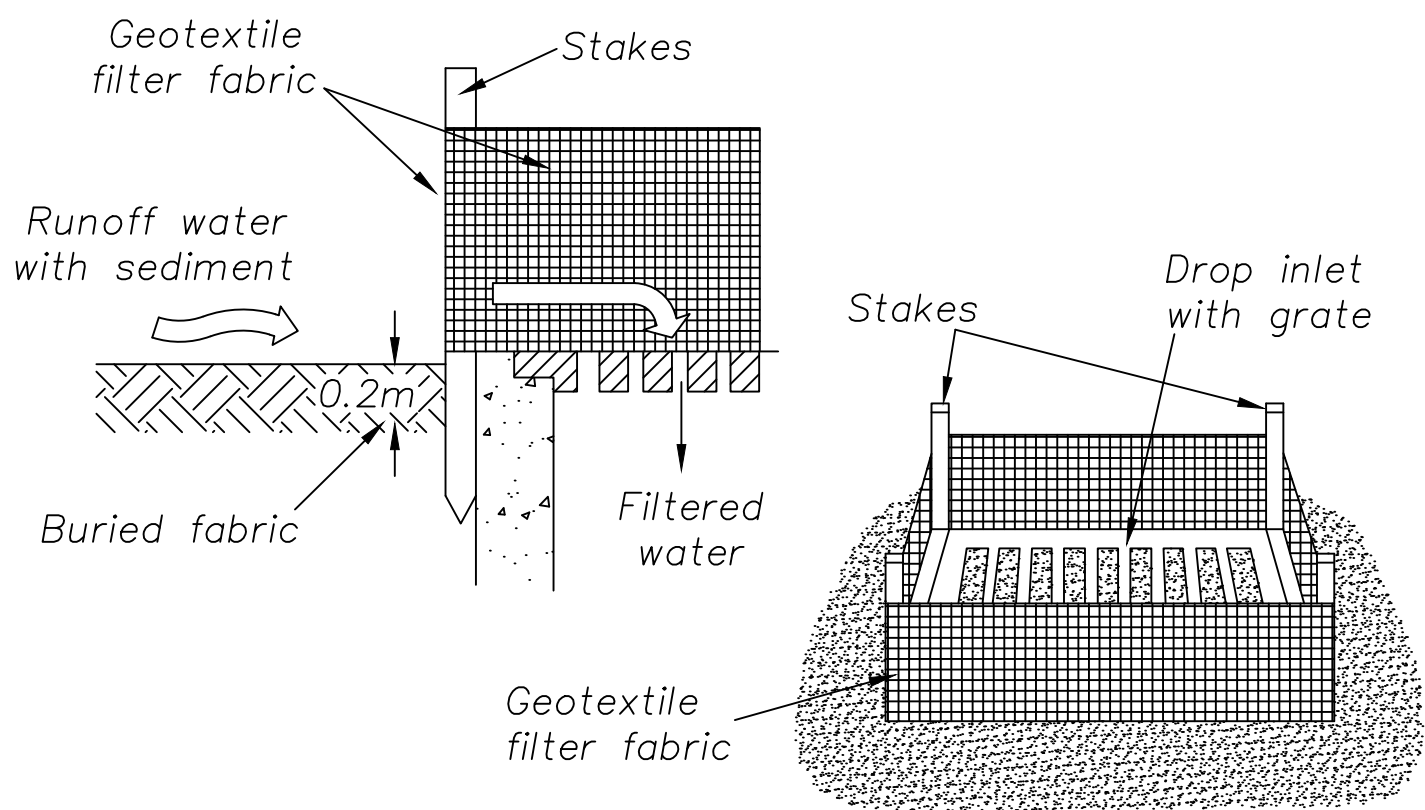
SEDIMENT FENCE – SD 6-8

NOT TO SCALE



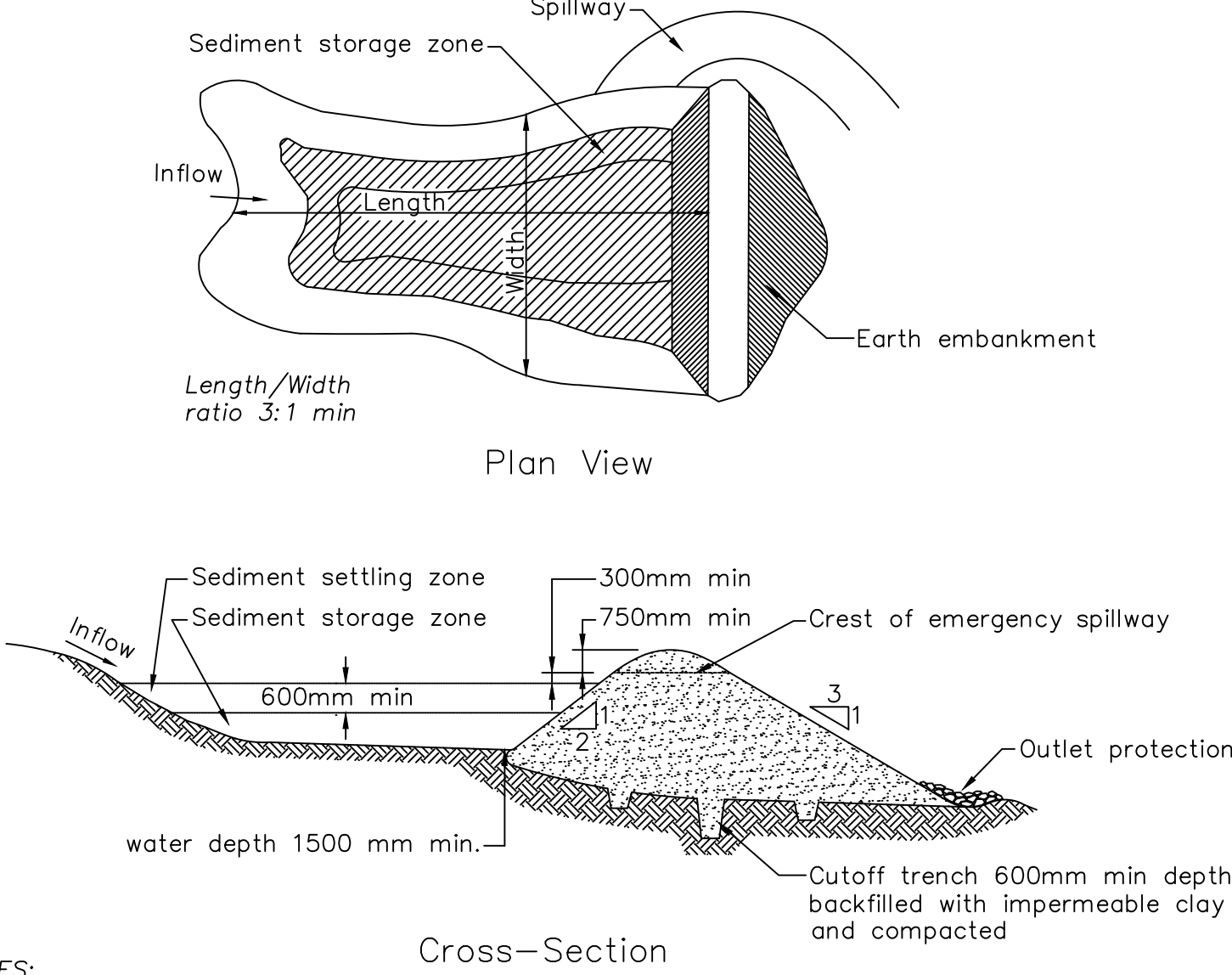
STABILISED SITE ACCESS – SD 6-14

NOT TO SCALE



Geotextile Filter Fabric Drop Inlet Sediment Trap

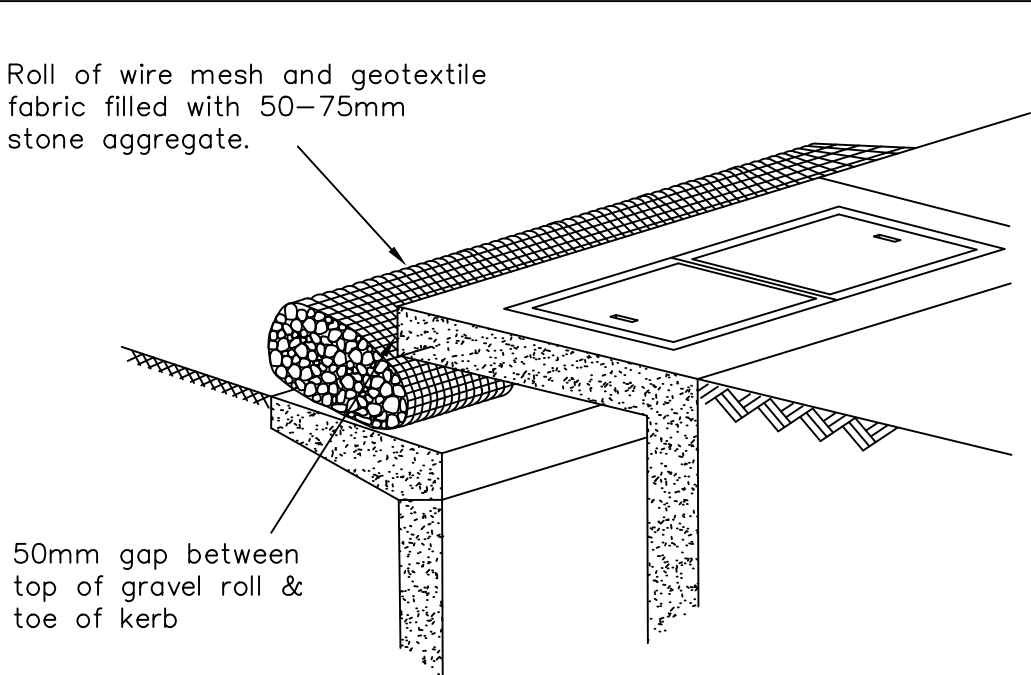
NOT TO SCALE



- NOTES:
1. Remove all vegetation and topsoil from under dam wall and from within storage area.
 2. Construct cut-off trench 500mm deep and 1200mm wide along centreline of the embankment extending to a point on the gully wall level with riser crest.
 3. Maintain the trench free of water and recompact the materials with equipment specified in the S SWMP to 95 per cent Standard Proctor Density.
 4. Select fill according to the directions of the SWMP that is free of roots, wood, rock, large stones or foreign material.
 5. Prepare the site under the embankment by ripping at least 100mm deep to help bond compacted fill to existing substrate.
 6. Spread fill in 100mm to 150mm layers and compact at optimum moisture content in accordance with the SWMP.
 7. Construct emergency spillway.
 8. Rehabilitate structure in accordance with SWMP.
 9. Place a "Full of Sediment" marker to show when less than design capacity occurs and sediment removal is required.

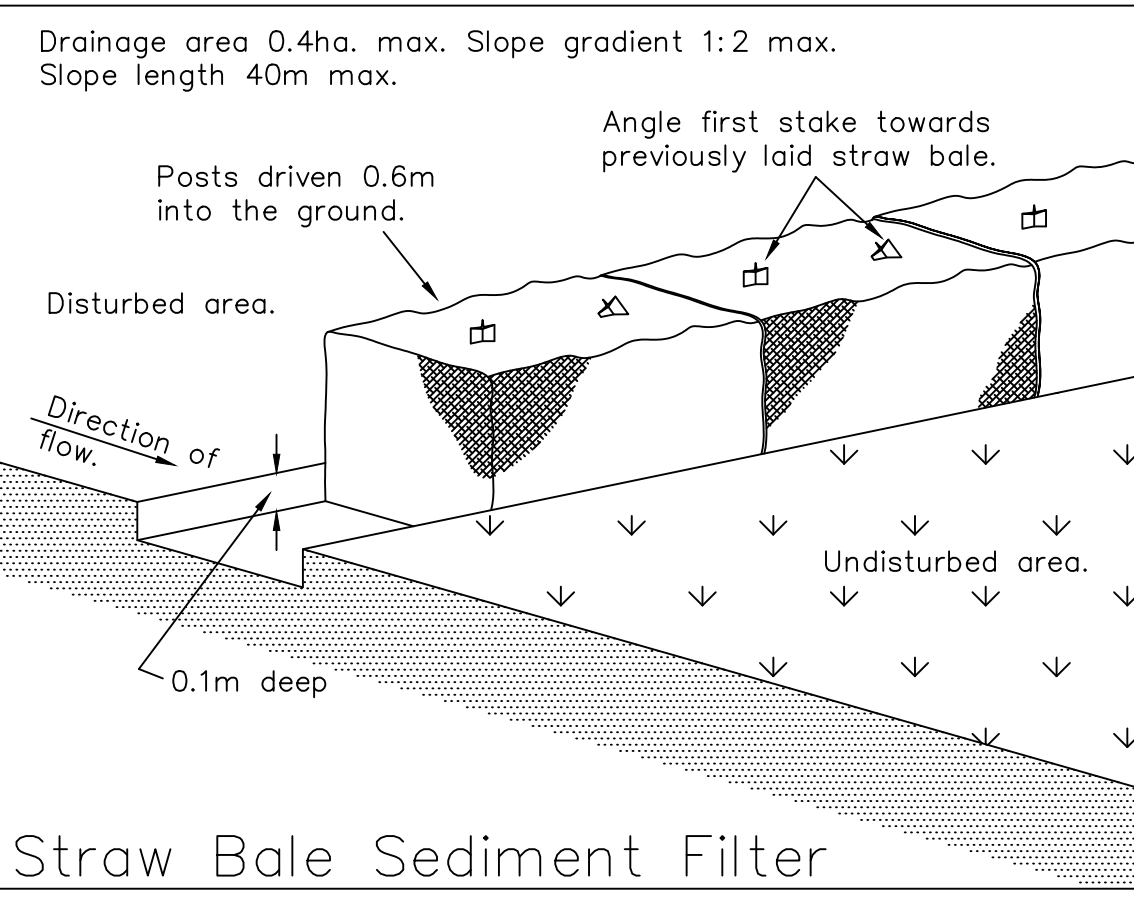
Earth Construction Wet Sediment Basin – SD 6-4

NOT TO SCALE



Kerb Inlet Pit Sediment Trap

NOT TO SCALE



Straw Bale Sediment Filter

NOT TO SCALE

No.	DESCRIPTION	DRN	APP	DATE
B	REVISED TO CLIENTS COMMENTS	I.B.	A.C.	21/11/23
C	REVISED DRAINAGE LINES	I.B.	A.C.	24/11/23
D	REVISED TO UPDATED ARCH	I.B.	A.C.	29/11/23
E	REVISED TO ARCH COMMENTS	I.B.	A.C.	27/08/24
F	REVISED TO ARCH COMMENTS	I.B.	a.c.	29/08/24

Height Datum	A.H.D.	Client Title
Drawn	I.B.	EDMUND RICE COLLEGE
Designed	I.B.	
Checked	A.C.	
Approved	A.C.	

Dwg Status	APPROVAL	Local Authority	WOLLONGONG
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Ref & Dwg No	23153.DA.C11
Sheet No	11 of 11
Scale	NTS
Date	29/08/24
Rev	F
A1	