FRENCHS FOREST BUSHLAND CEMETERY

1 HAKEA AVE, FRENCHS FOREST 2086

DRAWING REGISTER - DEVELOPMENT APPLICATION

JOB	DWG. NO.	DRAWING TITLE	SCALE
FFBC	00	DRAWING REGISTER & LOCATION PLAN	1:2000
FFBC	01	SITE PLAN - EVENT AREA	1:500
FFBC	03	CHAPEL - GROUND FLOOR PLAN	1:200
FFBC	04	CHAPEL - CLERESTORY PLAN	1:200
FFBC	05	CHAPEL - ROOF PLAN	1:200
FFBC	06	CHAPEL - NORTH AND SOUTH ELEVATIONS	1:200
FFBC	08	CHAPEL - EAST AND WEST ELEVATIONS	1:200
FFBC	10	CHAPEL - SECTION A	1:100
FFBC	11	SITE SECTION THROUGH CHAPEL LOOKING NORTH	1:600
FFBC	12	CHAPEL - SECTION C	1:100
FFBC	14	DEMOLITION PLAN - COTTAGE AND STORE	1:500
FFBC	20	FUNCTION CENTRE - MEASURED PLANS	1:200
FFBC	21	FUNCTION CENTRE - MEASURED ELEVATIONS	1:200
FFBC	22	FUNCTION CENTRE - GROUND FLOOR PLAN / ROOF PLAN	1:200
FFBC	23	FUNCTION CENTRE - ELEVATIONS 1	1:200
FFBC	24	FUNCTION CENTRE - ELEVATIONS 2	1:200
FFBC	25	FUNCTION CENTRE - SECTIONS 1	1:200
FFBC	30	TOILET BLOCK	1:100
FFBC	31	SHADOW DIAGRAMS	NTS
FFBC	32	CAR PARK PLAN 1	1:500
FFBC	33	CAR PARK PLAN 2	1:500
FFBC	34	CAR PARK PLAN 3	1:500
FFBC	35	CAR PARK PLAN 4	1:500
FFBC	35	CAR PARK PLAN 5	1:500
FFBC	35	CAR PARK PLAN 6	1:500
FFBC	35	CAR PARK PLAN 7	1:500

Existing buildings

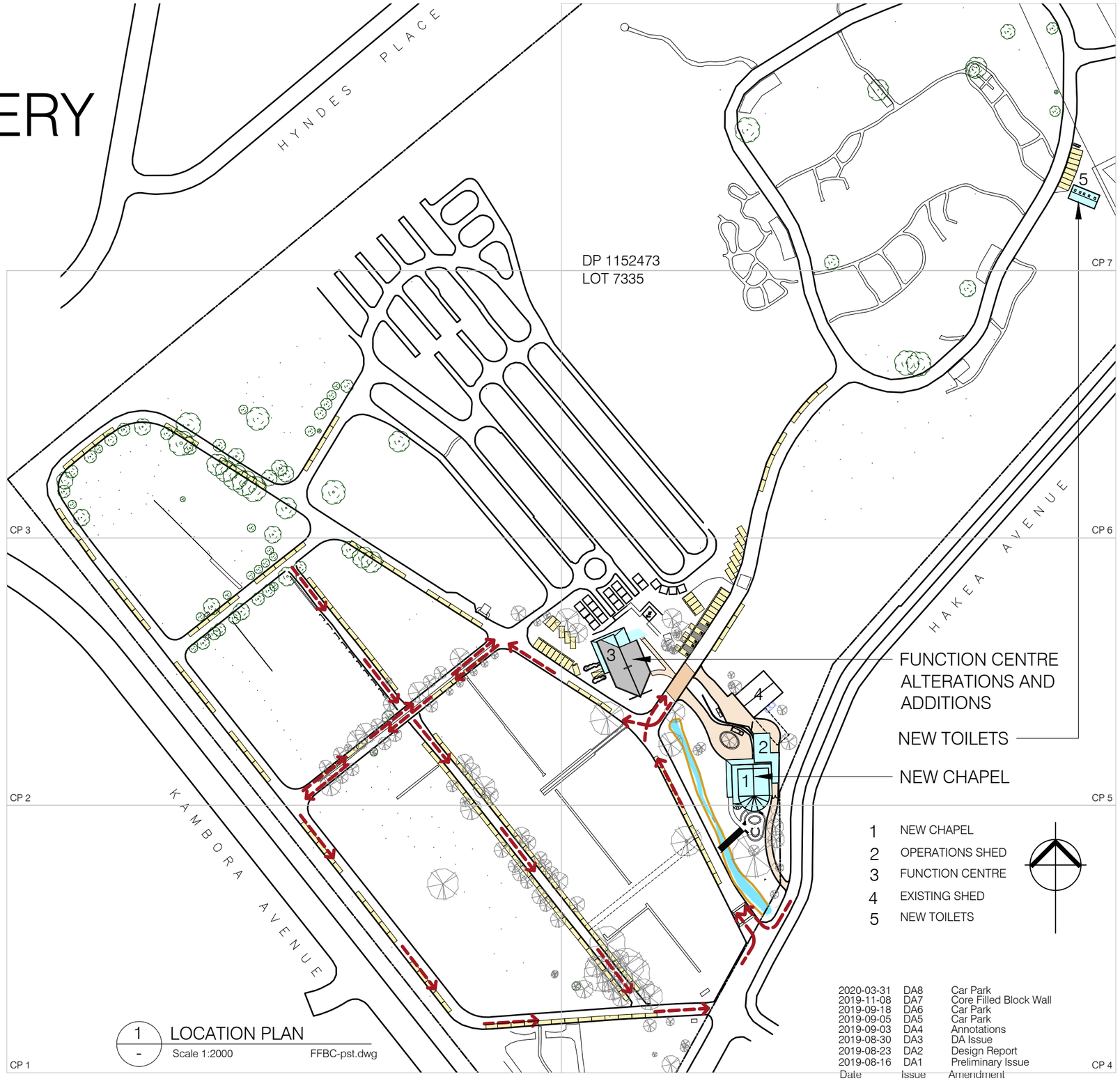
Proposed new works shown coloured

Proposed new roads

Proposed new carspaces

Existing Water course

Traffic flow



1 - LOCATION PLAN
Scale 1:2000 FFBC-pst.dwg

Date	Issue	Amendment
2020-03-31	DA8	Car Park
2019-11-08	DA7	Core Filled Block Wall
2019-09-18	DA6	Car Park
2019-09-05	DA5	Car Park
2019-09-03	DA4	Annotations
2019-08-30	DA3	DA Issue
2019-08-23	DA2	Design Report
2019-08-16	DA1	Preliminary Issue

HECTOR ABRAHAMS ARCHITECTS

ABN 95 160 116 030

Nominated Architect :
Hector Abrahams
Registration No. 5245

Level 2
1 Barrack Street
SYDNEY NSW 2000

Tel : +61 2 9299 7959
Email : mailbox@haarchitects.com.au

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Figured dimensions to be taken in preference to scale

Project : FRENCHS FOREST BUSHLAND CEMETERY

for : NORTHERN METROPOLITAN CEMETERIES TRUST

Dwg. Title : DRAWING REGISTER & LOCATION PLAN

Scale @ A3 : 1:2000

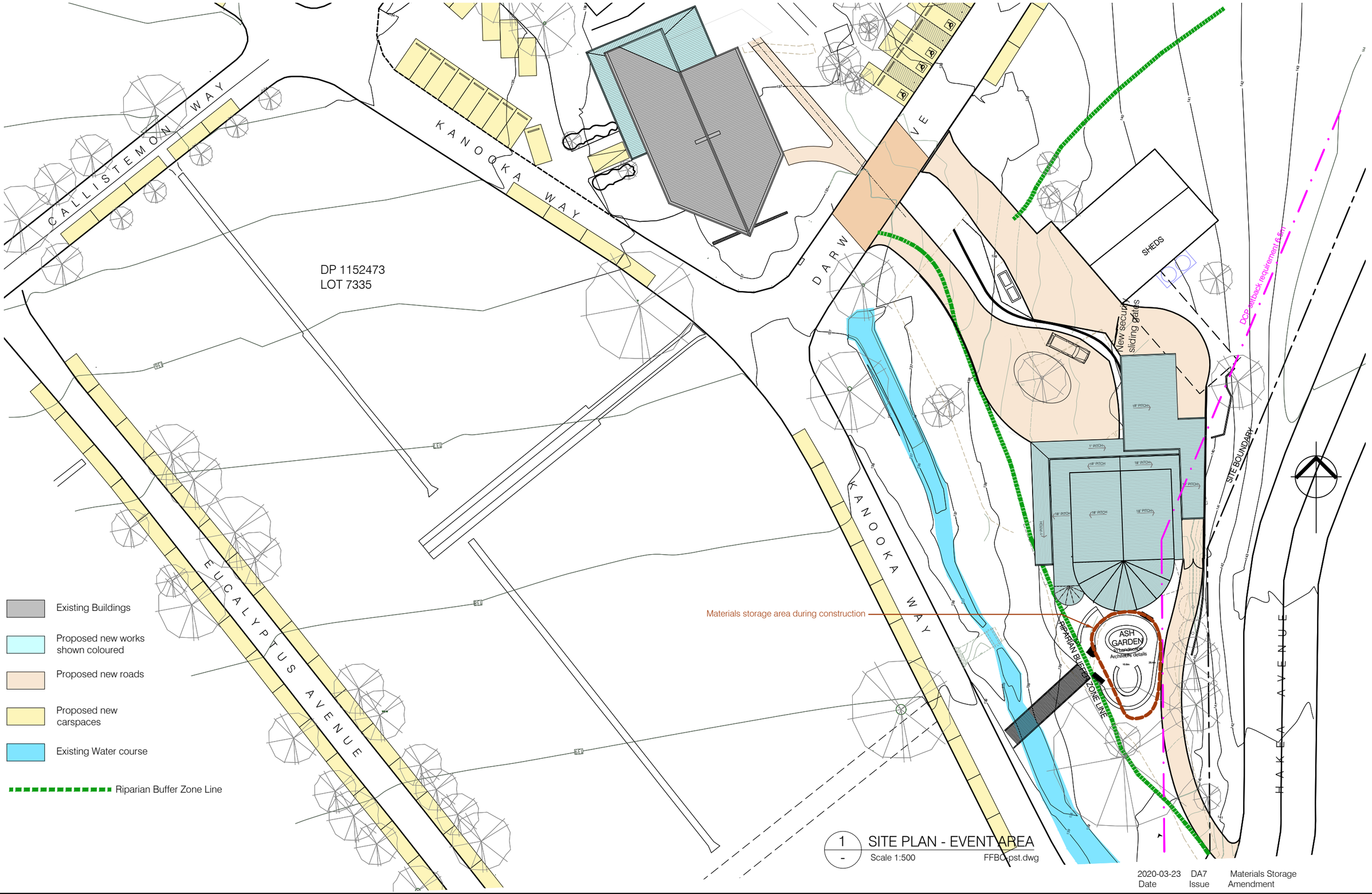
Issue Date : March 2020

Drawn : AC AB

Checked :

Dwg. Name :	Dwg. No :	Stage:	Issue:
FFBC	00	DA	8

0 10 20 30 40 50 100mm



1 / - SITE PLAN - EVENT AREA
Scale 1:500 FFBC-pst.dwg

2020-03-23 Date | DA7 Issue | Materials Storage Amendment

HECTOR ABRAHAMS ARCHITECTS
ABN 95 160 116 030
Nominated Architect : Hector Abrahams Registration No. 5245
Level 2
1 Barrack Street
SYDNEY NSW 2000
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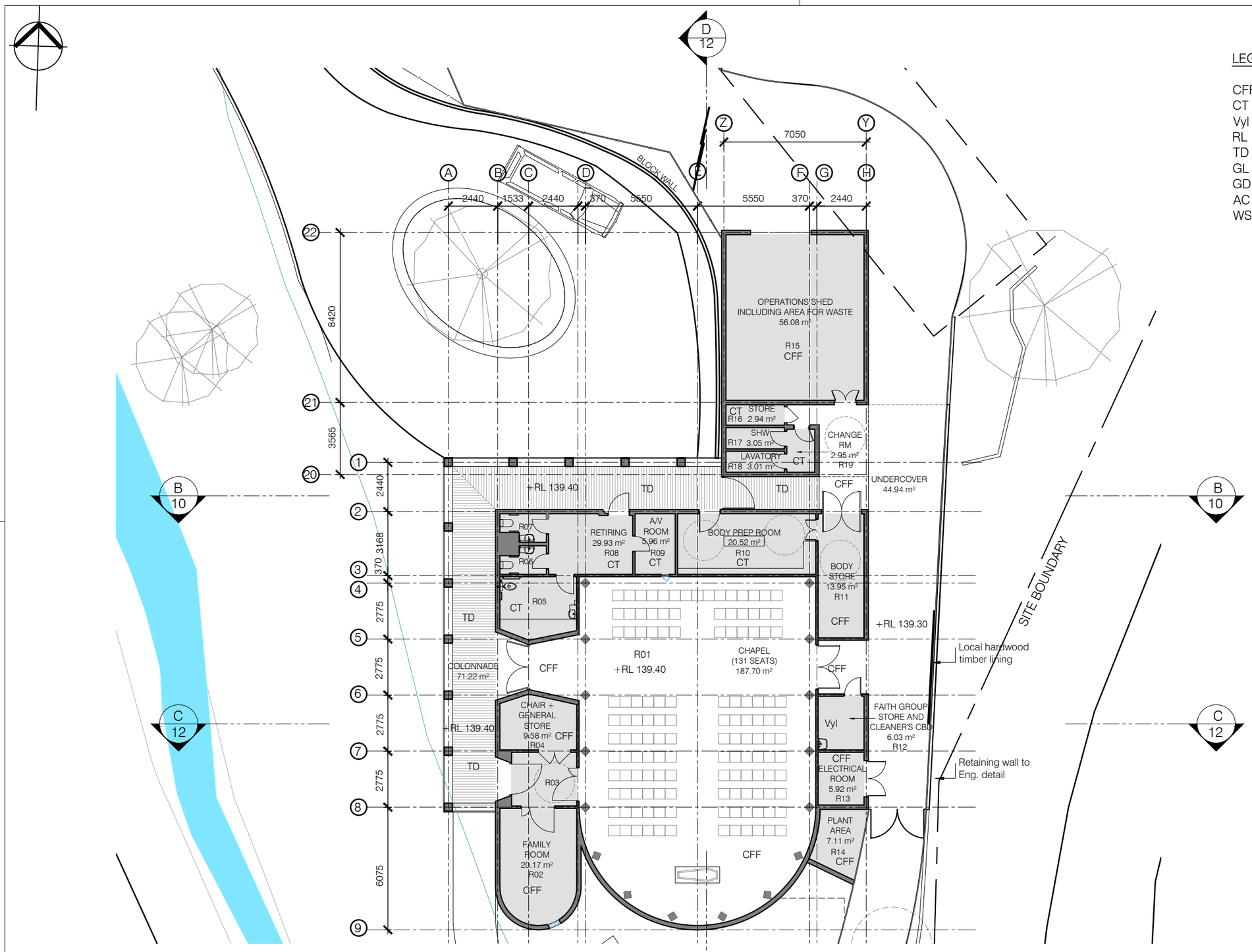
Project : FRENCHS FOREST BUSHLAND CEMETERY
for : NORTHERN METROPOLITAN CEMETERIES TRUST

Dwg. Title : SITE PLAN - EVENT AREA

Scale @ A3 : 1:500
Issue Date : March 2020
Drawn : AC/AB
Checked :

Dwg. Name :	Dwg. No :	Stage:	Issue:
FFBC	01	DA	7

0 10 20 30 40 50 100mm



LEGEND

CFF	CONCRETE FLOOR FINISH
CT	CERAMIC TILES
Vyl	VINYL FLOOR
RL	REDUCED LEVELS
TD	TIMBER DECKING
GL	GROUND LEVEL
GD	GLASS DOORS
AC	AIR CONDITION
WST	WATER STORAGE TANKS

1 / - CHAPEL - GROUND FLOOR PLAN

1:200 FFBC- pfg.dwg

Date	Issue	Amendment
2020-03-23	DA7	Storage Waste
2019-11-08	DA6	Block Wall
2019-09-05	DA5	Annotations
2019-09-03	DA4	Annotations
2019-08-30	DA3	DA Issue
2019-08-23	DA2	Design Report
2019-08-16	DA1	Preliminary Issue

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Dwg. Title : CHAPEL GROUND FLOOR PLAN

Scale @ A3 : 1:200

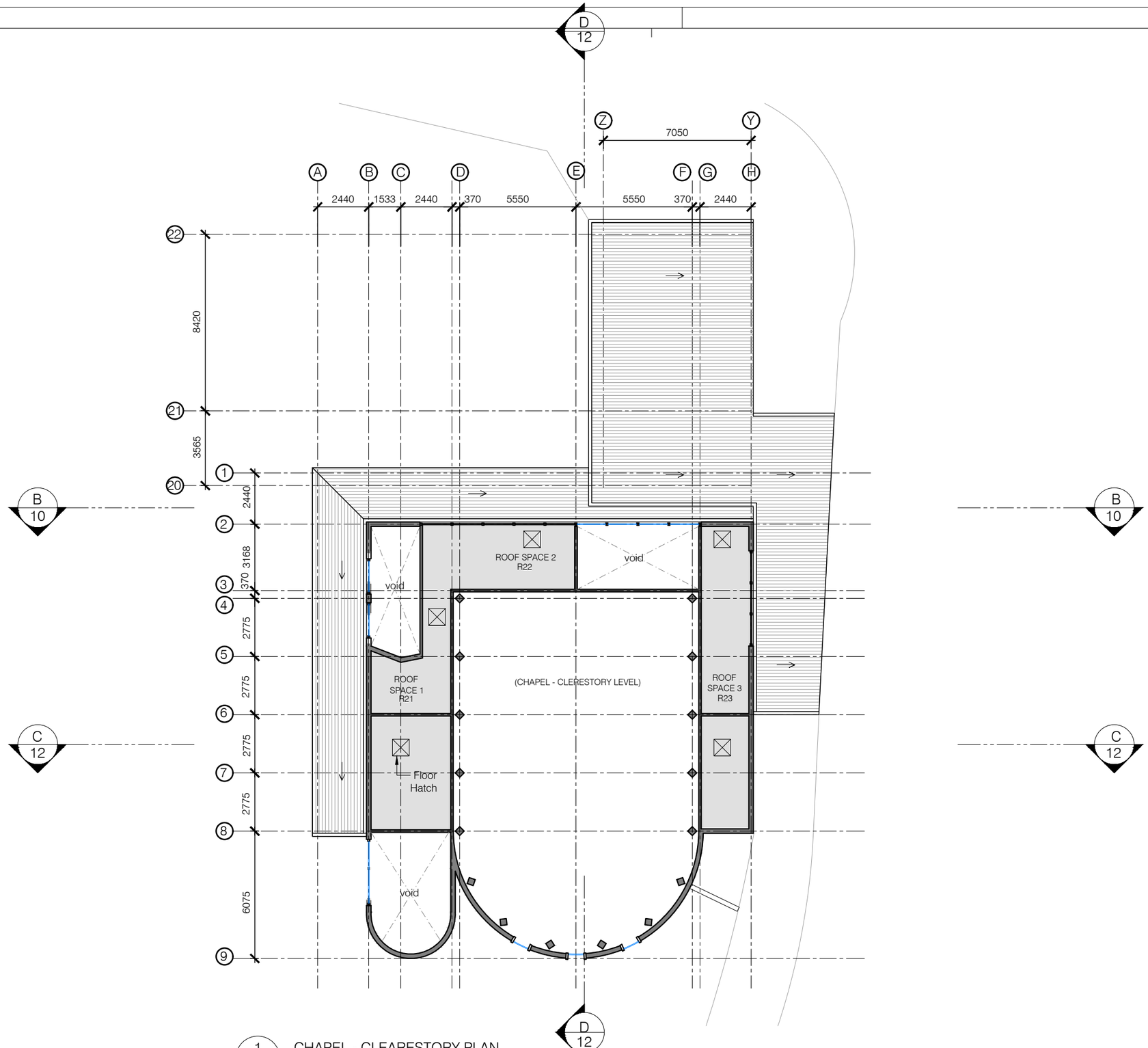
Drawn : AC/AB

Checked :

Issue Date : March 2020

Dwg. Name :	Dwg. No :	Stage:	Issue:
FFBC	03	DA	7

0 10 20 30 40 50 100mm



1 / - CHAPEL - CLEARESTORY PLAN

1:200 FFBC- pfg.dwg

Date	Issue	Amendment
2019-11-08	DA4	Amended Windows
2019-08-30	DA3	DA Issue
2019-08-23	DA2	Design Report
2019-08-16	DA1	Preliminary Issue

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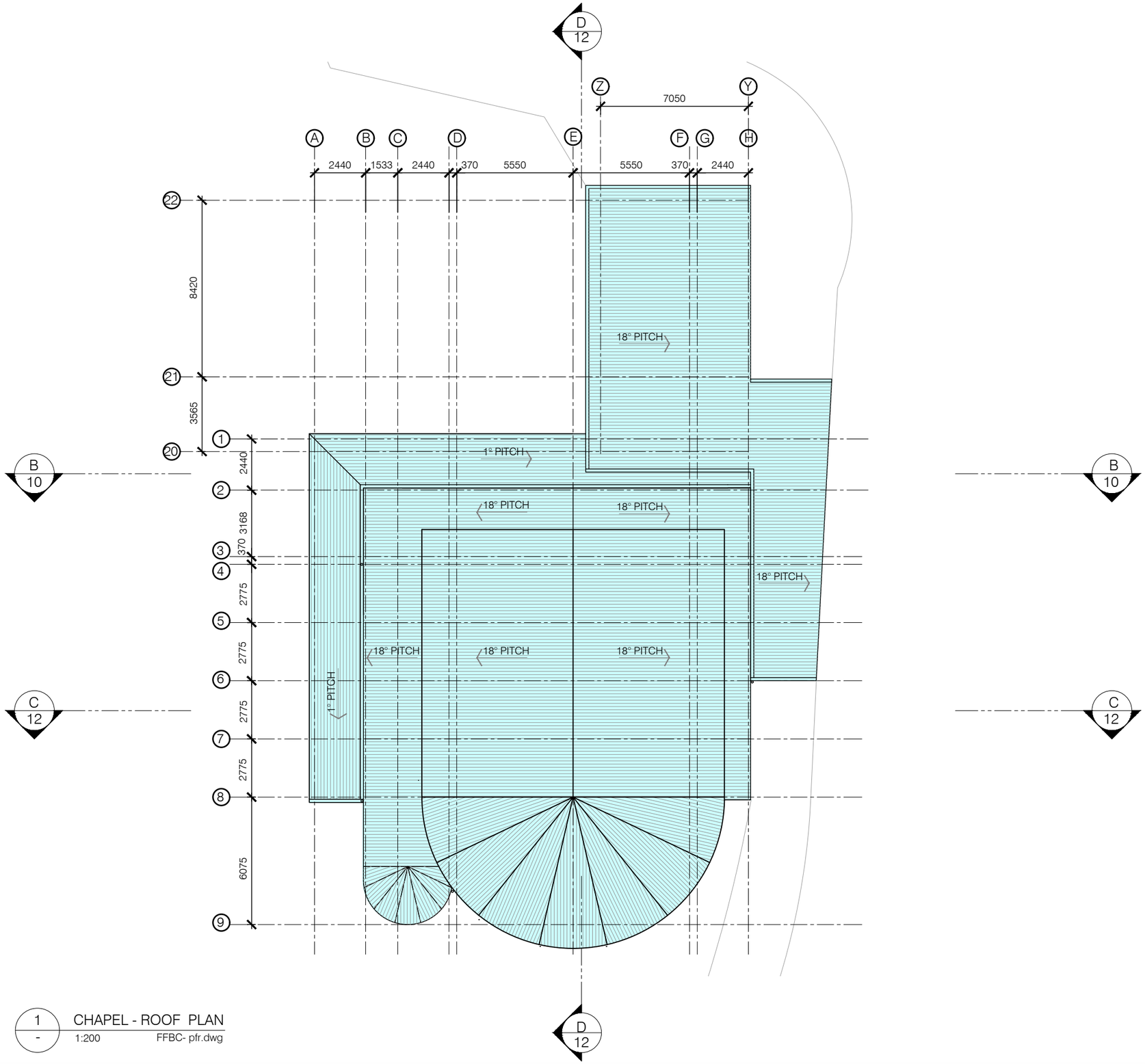
Project : FRENCHS FOREST BUSHLAND CEMETERY

for : NORTHERN METROPOLITAN CEMETERIES TRUST

Dwg. Title : CHAPEL CLERESTORY PLAN

Scale @ A3 : 1:200		Drawn : AC/AB	
Issue Date : March 2020		Checked :	
Dwg. Name : FFBC	Dwg. No : 04	Stage: DA	Issue: 4

0 10 20 30 40 50 100mm



KEY

G	GUTTER
RC	RIDGE CAPPING
BB	BARGE BOARD
RWH	RAIN WATER HEAD
MRS	METAL ROOF SHEETING (COLOURBOND)
Dp	DOWNPIPE
RWT	RAIN WATER TANK
F	FLASHING

1 / - CHAPEL - ROOF PLAN

1:200 FFBC- pfr.dwg

Date	Issue	Amendment
2019-08-30	DA3	DA Issue
2019-08-23	DA2	Design Report
2019-08-16	DA1	Preliminary Issue

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Dwg. Title : CHAPEL ROOF PLAN

Scale @ A3 : 1:200

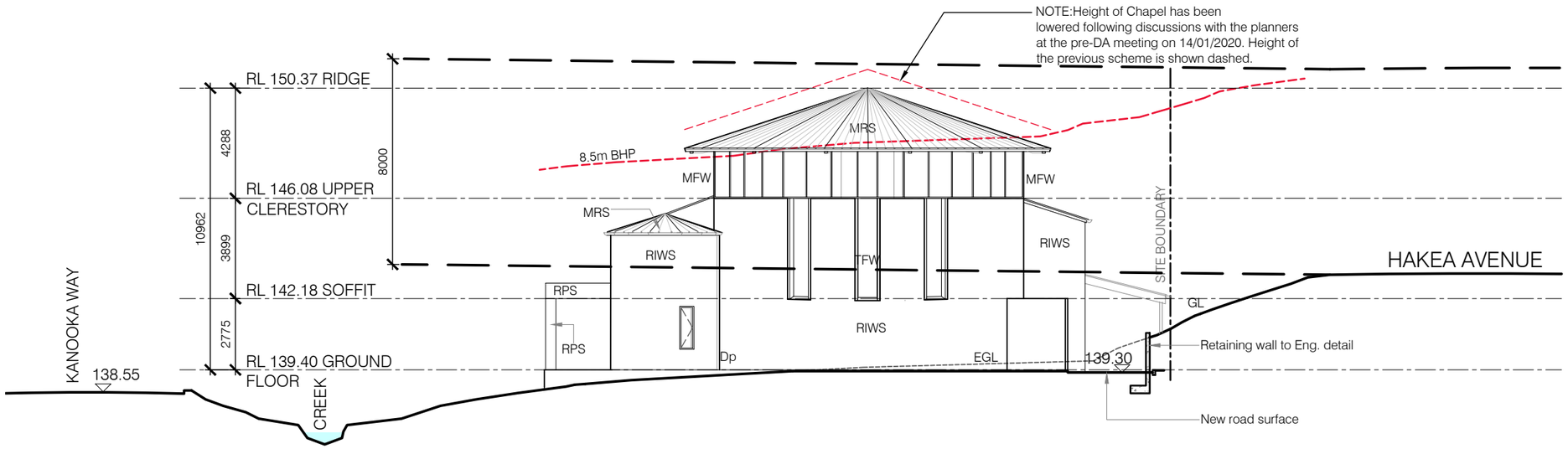
Drawn : AB

Issue Date : March 2020

Checked :

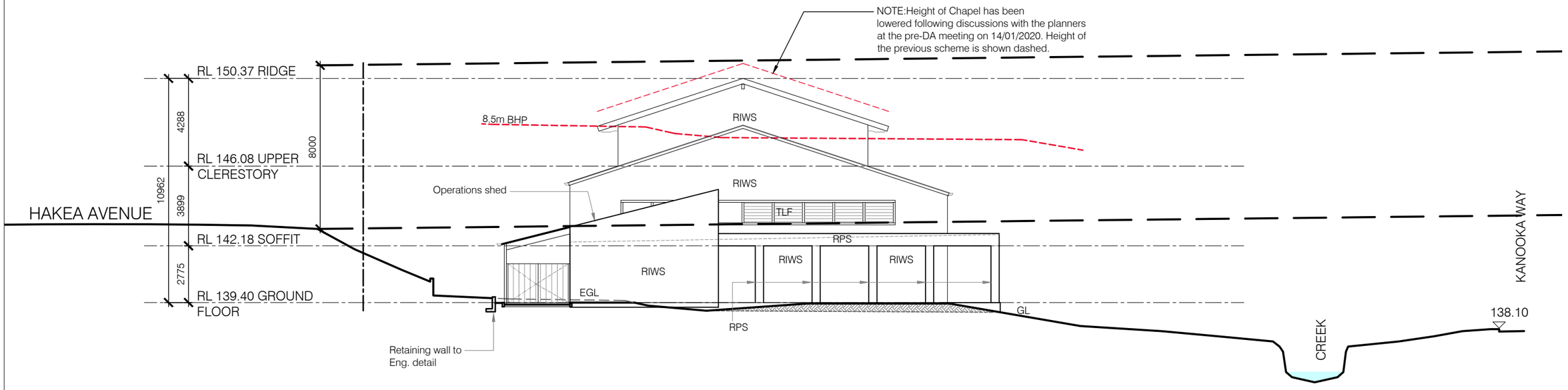
Dwg. Name :	Dwg. No :	Stage:	Issue:
FFBC	05	DA	3

0 10 20 30 40 50 100mm



2 / - CHAPEL - SOUTHERN ELEVATION

1:100 FFBC- els-Chapel.dwg



1 / - CHAPEL - NORTHERN ELEVATION (inc FUTURE BURIAL)

1:200 FFBC- eln-Chapel.dwg

Date	Issue	Amendment
2020-03-31	DA5	Amended Chapel Height
2019-11-08	DA4	Amended Windows
2019-08-30	DA3	DA Issue
2019-08-23	DA2	Design Report
2019-08-16	DA1	Preliminary Issue

LEGEND

MRS	METAL ROOF SHEETING
TLF	TIMBER LOUVRE FRAME
RPS	RENDER PANEL SYSTEM
RIWS	RENDERED INSULATED WALL SYSTEM
RL	REDUCED LEVELS
EGL	EXISTING GROUND LEVEL
GL	GROUND LEVEL
BHP	BUILDING HEIGHT PLANE
TFW	TIMBER FRAMED WINDOWS
MFW	METAL FRAMED WINDOWS

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Project : FRENCHS FOREST BUSHLAND CEMETERY

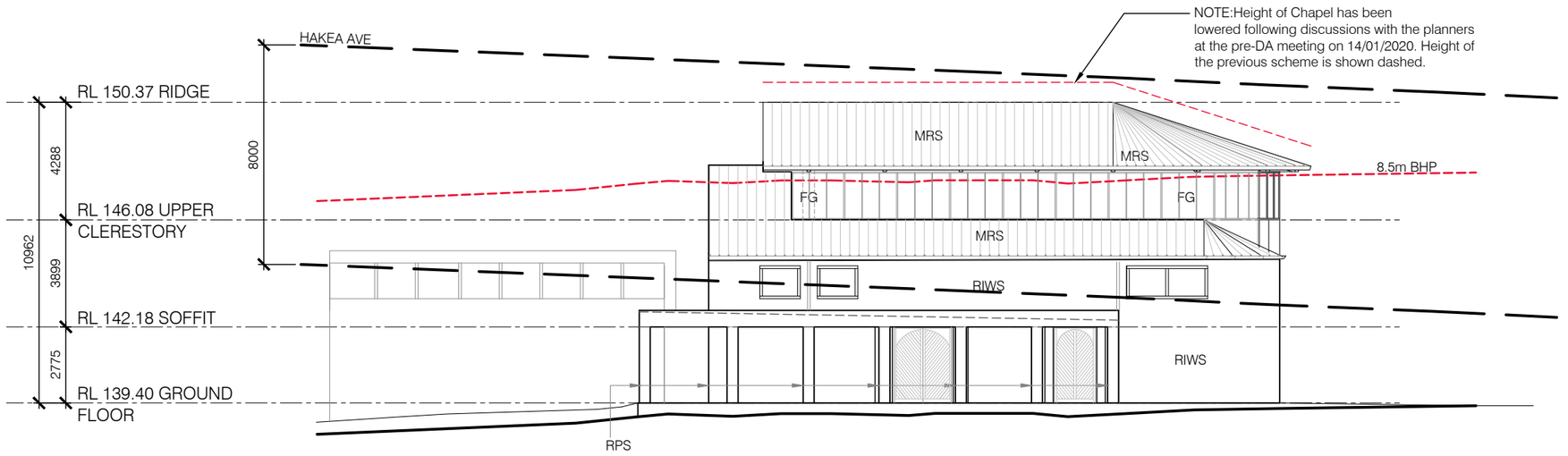
for : NORTHERN METROPOLITAN CEMETERIES TRUST

Dwg. Title : CHAPEL NORTH ELEVATION SOUTH ELEVATION

Scale @ A3 : 1:200
Issue Date : March 2020
Drawn : AC/AB
Checked :

Dwg. Name :	Dwg. No :	Stage:	Issue:
FFBC	06	DA	5

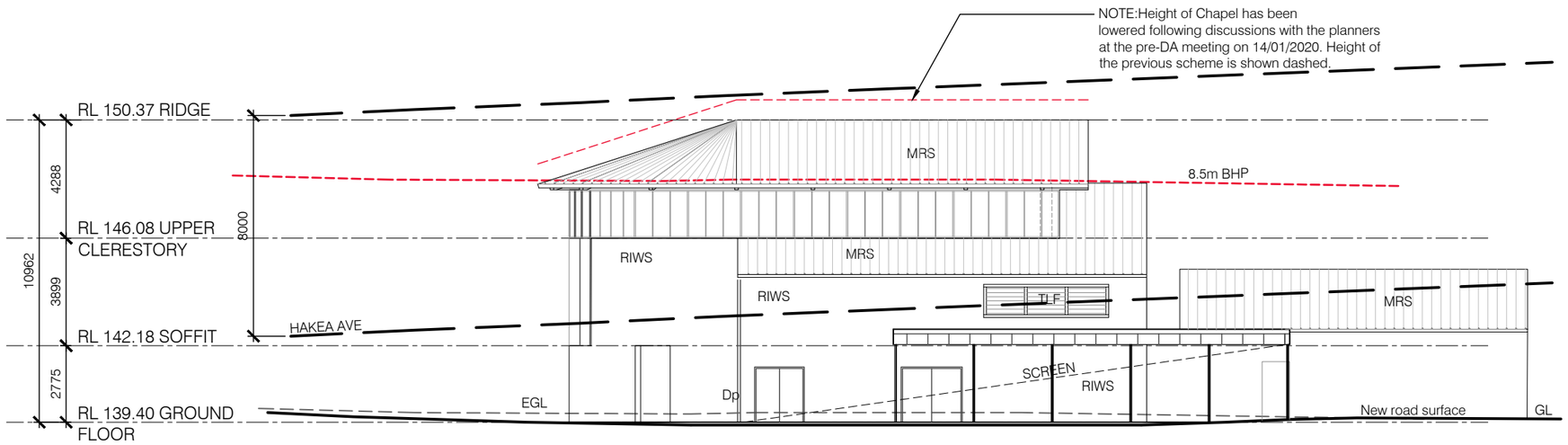
0 10 20 30 40 50 100mm



LEGEND

MRS METAL ROOF SHEETING
TLF TIMBER LOUVRE FRAME
RPS RENDER PANEL SYSTEM
RIWS RENDERED INSULATED WALL SYSTEM
RL REDUCED LEVELS
EGL EXISTING GROUND LEVEL
GL GROUND LEVEL
BHP BUILDING HEIGHT PLANE
TFW TIMBER FRAMED WINDOWS
MFW METAL FRAMED WINDOWS
GD - GLASS DOORS
FG - FIXED GLAZING

2 / -- CHAPEL - WEST ELEVATION
Scale 1:200 FFBC-elw-Chapel.dwg



1 / -- CHAPEL - EAST ELEVATION
Scale 1:200 FFBC-ele-Chapel.dwg

Date	Issue	Amendment
2020-03-31	DA5	Amended Chapel Height
2020-03-23	DA4	Amended Windows

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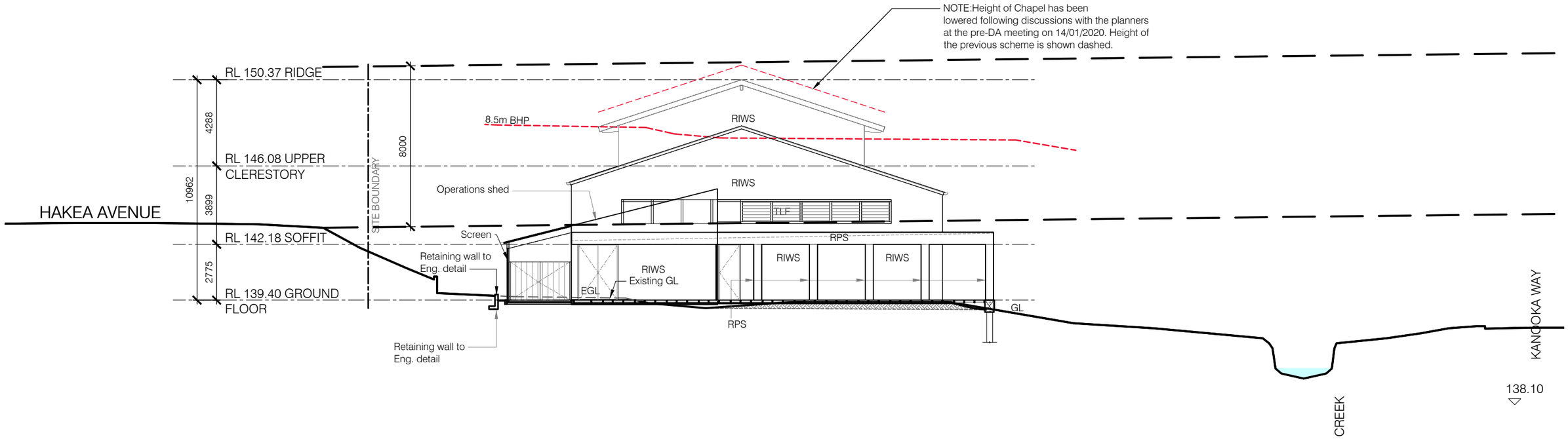
Project : FRENCHS FOREST BUSHLAND CEMETERY
for : NORTHERN METROPOLITAN CEMETERIES TRUST

Dwg. Title : CHAPEL EAST ELEVATION WEST ELEVATION

Scale @ A3 : 1:200
Issue Date : March 2020
Drawn : AC/AB
Checked :

Dwg. Name :	Dwg. No :	Stage:	Issue:
FFBC	08	DA	5

0 10 20 30 40 50 100mm



B 03 CHAPEL - SECTION

Scale 1:100 FFBC-sxb-Chapel.dwg

Date	Issue	Amendment
2020-03-31	DA5	Amended Chapel Height And Drawing Name Change
2019-11-08	DA4	Amended Windows
2019-08-30	DA3	DA Issue
2019-08-23	DA2	Design Report
2019-08-16	DA1	Preliminary Issue

HECTOR ABRAHAMS ARCHITECTS

ABN 95 160 116 030

Nominated Architect :
Hector Abrahams
Registration No. 5245

Level 2
1 Barrack Street
SYDNEY NSW 2000

Tel : +61 2 9299 7959
Email : mailbox@haarchitects.com.au

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Hector Abrahams Architects Pty. Ltd.

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Project : FRENCHS FOREST BUSHLAND CEMETERY

for : NORTHERN METROPOLITAN CEMETERIES TRUST

Dwg. Title : CHAPEL NORTH ELEVATION AND SECTION THROUGH OPERATIONS SHED

Scale @ A3 : 1:200

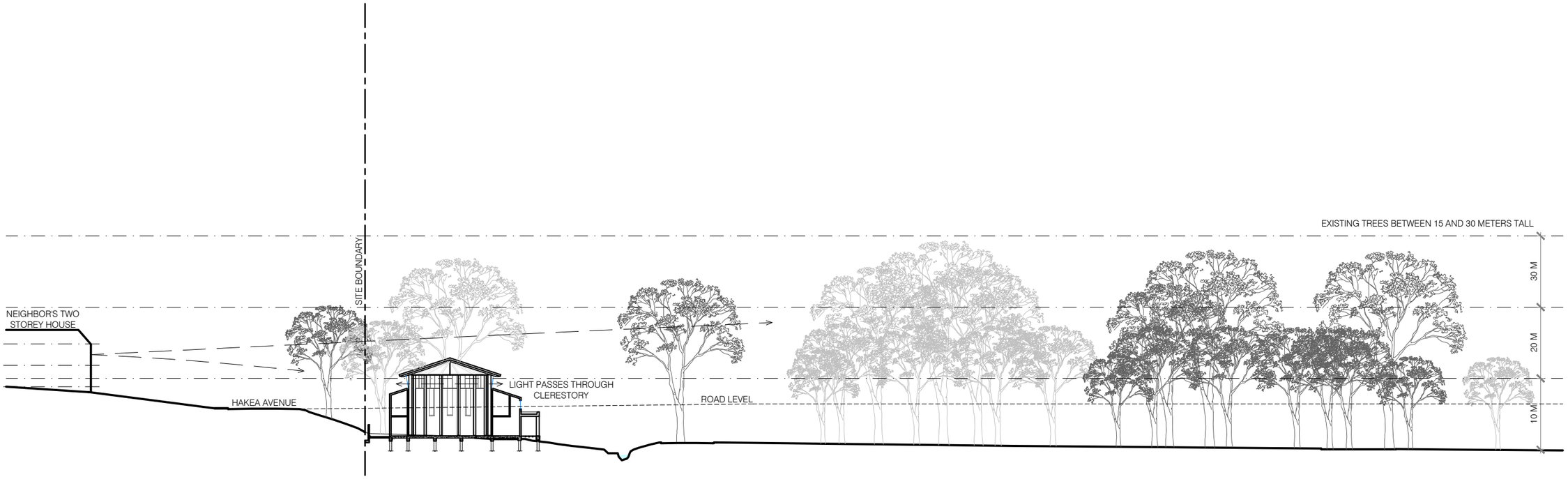
Issue Date : March 2020

Drawn : AC/AB

Checked :

Dwg. Name :	Dwg. No :	Stage:	Issue:
FFBC	10	DA	5

0 10 20 30 40 50 100mm



1 -- SITE SECTION THROUGH CHAPEL LOOKING NORTH

Scale 1:600 FFBC-sxe-site.dwg

Date	Issue	Amendment
2020-03-31	DA1	Amended Chapel Height and Drawing Name Change
2019-04-29	--	Issue to Consultants

HECTOR ABRAHAMS ARCHITECTS

ABN 95 160 116 030

Nominated Architect : Hector Abrahams Registration No. 5245

Level 2
1 Barrack Street
SYDNEY NSW 2000

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Email : mailbox@haarchitects.com.au

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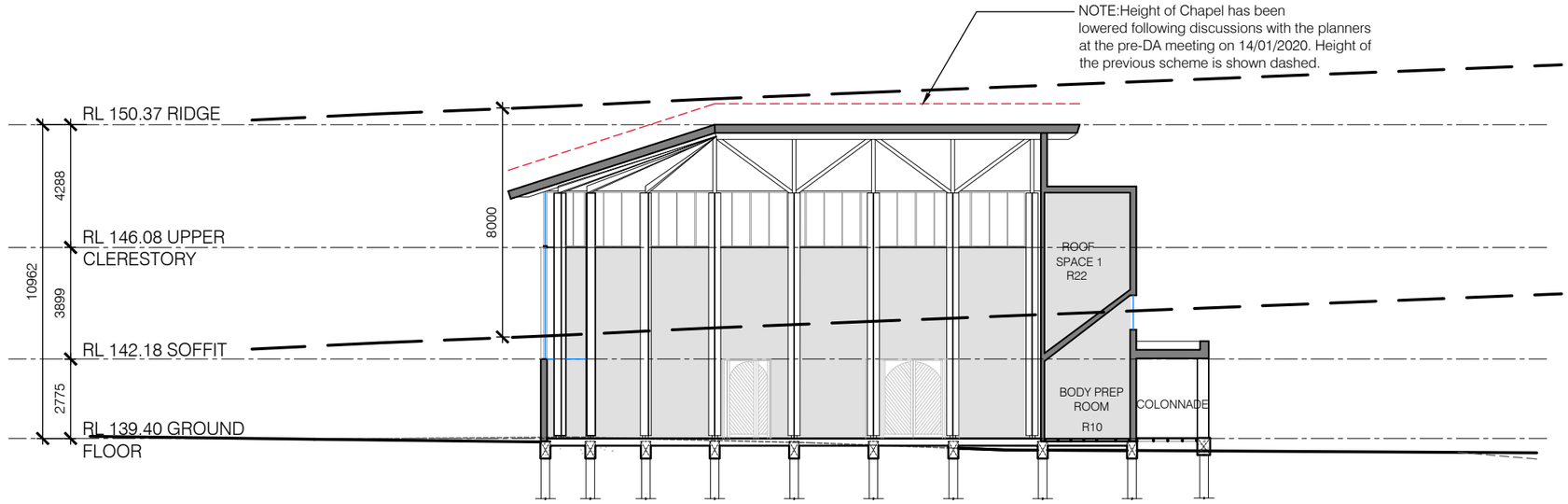
Project : FRENCHS FOREST BUSHLAND CEMETERY

for : NORTHERN METROPOLITAN CEMETERIES TRUST

Dwg. Title : SITE SECTION THROUGH CHAPEL LOOKING NORTH

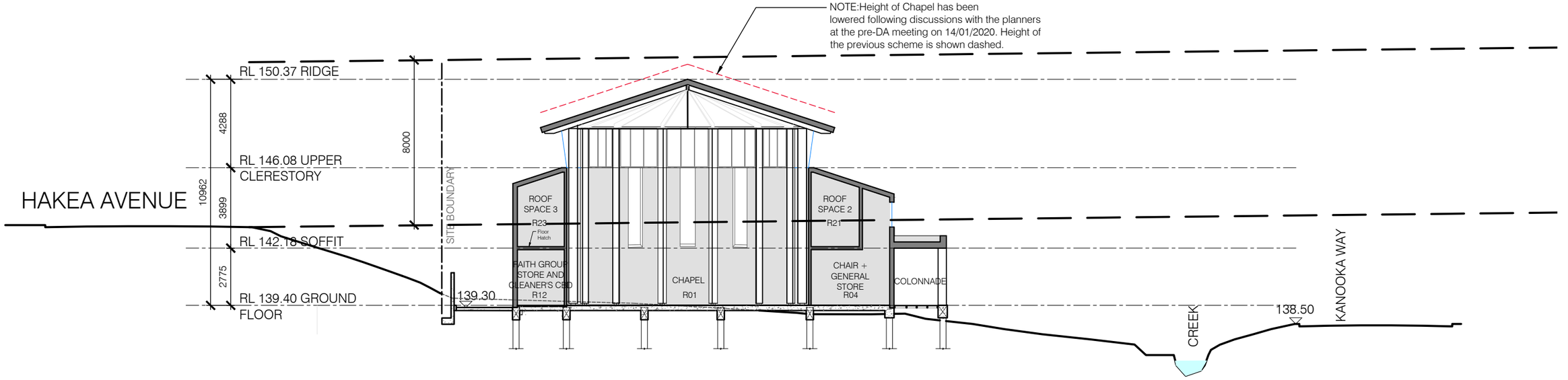
Scale @ A3 : 1:600			Drawn : AJ
Issue Date : March 2020			Checked :
Dwg. Name : FFBC	Dwg. No : 11	Stage: DA	Issue: 1

0 10 20 30 40 50 100mm



D 03 CHAPEL - SECTION

Scale 1:200 FFBC-sxd-Chapel.dwg



C 03 CHAPEL - SECTION

Scale 1:200 FFBC-sxc-Chapel.dwg

Date	Issue	Amendment
2020-03-31	DA5	Amended Chapel Height
2019-11-08	DA4	Tie Rod Structure
2019-08-30	DA3	DA Issue
2019-08-23	DA2	Design Report
2019-08-16	DA1	Preliminary Issue

HECTOR ABRAHAMS ARCHITECTS

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1 Barrack Street
SYDNEY NSW 2000

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for : NORTHERN METROPOLITAN CEMETERIES TRUST

Dwg. Title : CHAPEL SECTION C SECTION D

Scale @ A3 : 1:200 Drawn : AB

Issue Date : March 2020 Checked :

Dwg. Name :	Dwg. No :	Stage:	Issue:
FFBC	12	DA	5

0 10 20 30 40 50 100mm

CALLISTEMON WAY

KANOOKA WAY

LORIKEET

REFER TO FFBC/20 FOR FUNCTION CENTRE DEMOLITION PLAN

DARWINIA DRIVE

SHEDS

SITE BOUNDARY

DP 1152473
LOT 7335

EUCALYPTUS AVENUE

KANOOKA WAY

HAKEA AVENUE

Demolition Works

1 / - DEMOLITION PLAN
Scale 1:500 FFBC-pst.dwg

2020-03-23 Date | DA1 Issue | for DA Amendment

0 10 20 30 40 50 100mm

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Dwg. Title : DEMOLITION PLAN COTTAGE AND STORE

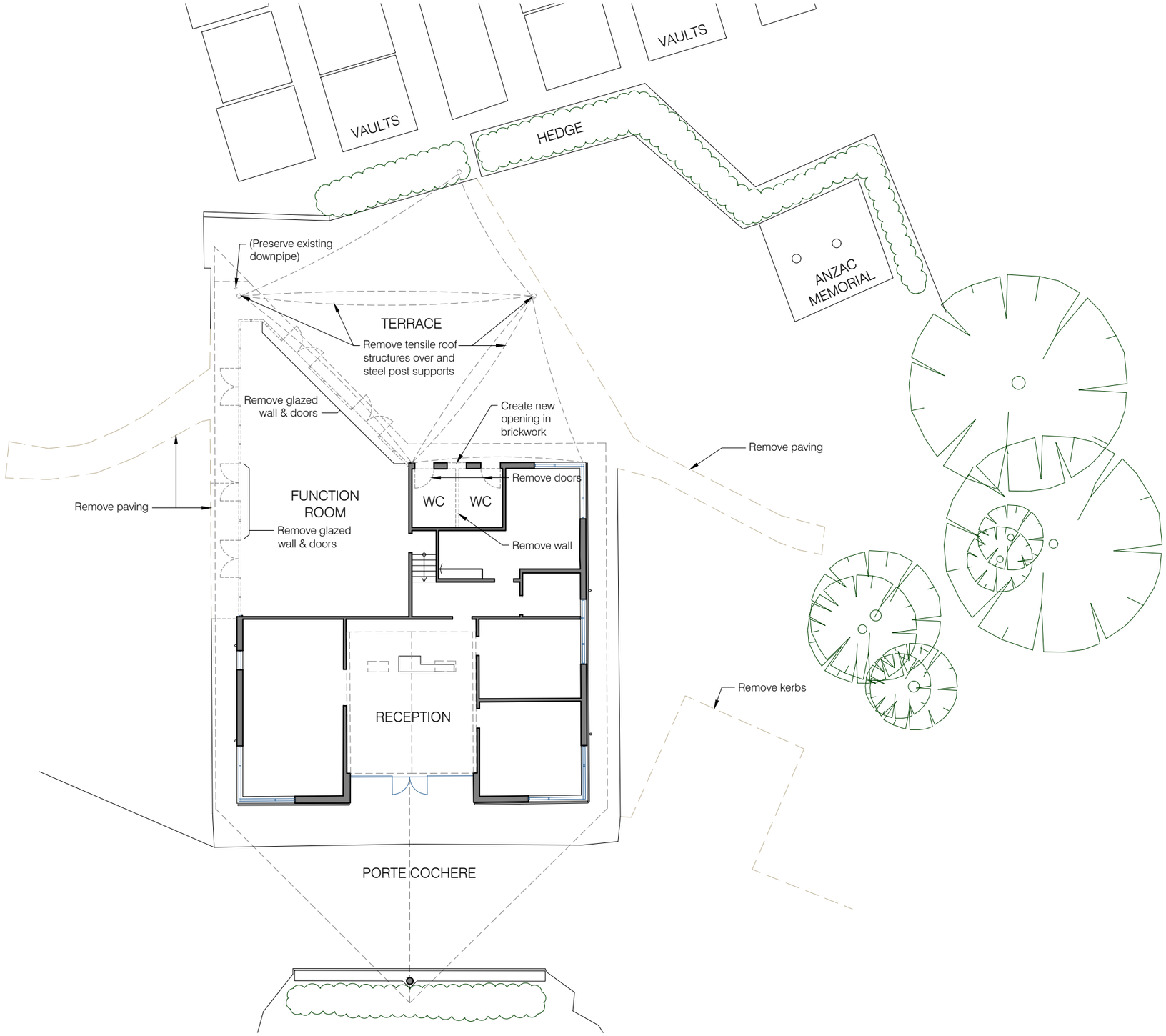
Scale @ A3 : 1:500

Drawn : AC/AB

Checked :

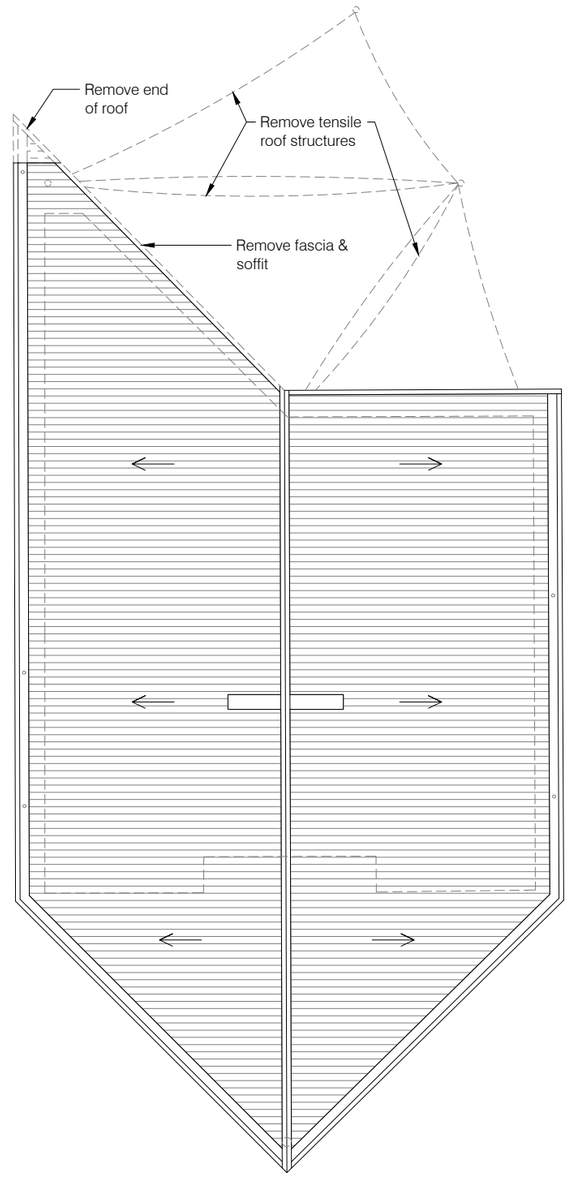
Issue Date : March 2020

Dwg. Name :	Dwg. No :	Stage:	Issue:
FFBC	14	DA	1



1 -- FUNCTION CENTRE - MEASURED FLOOR PLAN

Scale 1:200 FFBC-pmg-Function Center.dwg



2 -- FUNCTION CENTRE - MEASURED ROOF PLAN

Scale 1:200 FFBC-pmr-Function Center.dwg

REMOVED STRUCTURE

Date	Issue	Amendment
2019-08-30	DA3	DA Issue
2019-08-23	DA2	Design Report
2019-08-16	DA1	Preliminary Issue

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Dwg. Title : FUNCTION CENTRE MEASURED PLANS

Scale @ A3 : 1:200

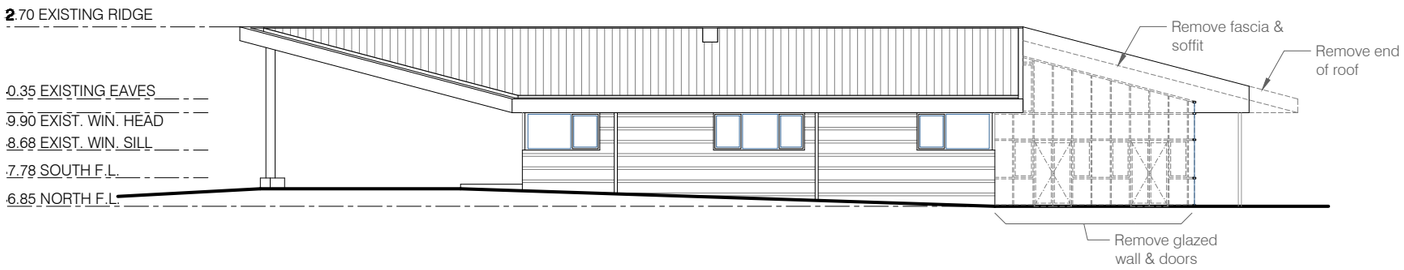
Issue Date : March 2020

Drawn : AB

Checked :

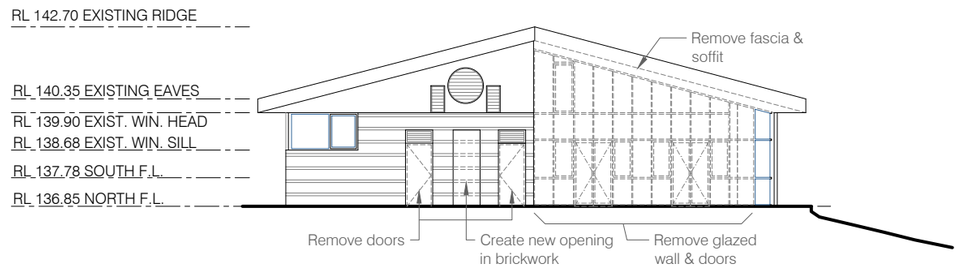
Dwg. Name :	Dwg. No :	Stage:	Issue:
FFBC	20	DA	3

0 10 20 30 40 50 100mm



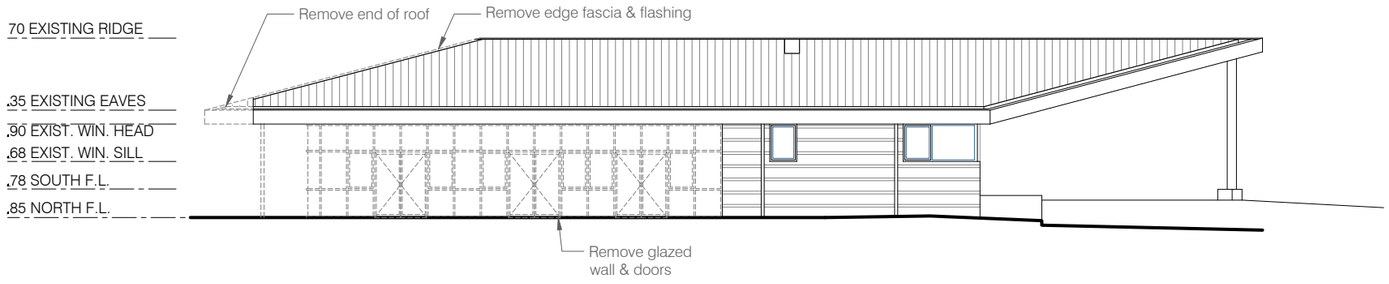
1 - FUNCTION CENTRE MEASURED EAST ELEVATION

1:200 FFBC- eme- Function Center.dwg



2 - FUNCTION CENTRE MEASURED north ELEVATION

1:200 FFBC- ene- Function Center.dwg



3 - FUNCTION CENTRE MEASURED north ELEVATION

1:200 FFBC- emw- Function Center.dwg

REMOVED STRUCTURE

Date	Issue	Amendment
2019-08-30	DA3	DA Issue
2019-08-23	DA2	Design Report
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Dwg. Title : FUNCTION CENTRE MEASURED ELEVATIONS

Scale @ A3 : 1:200

Drawn : AB

Issue Date : March 2020

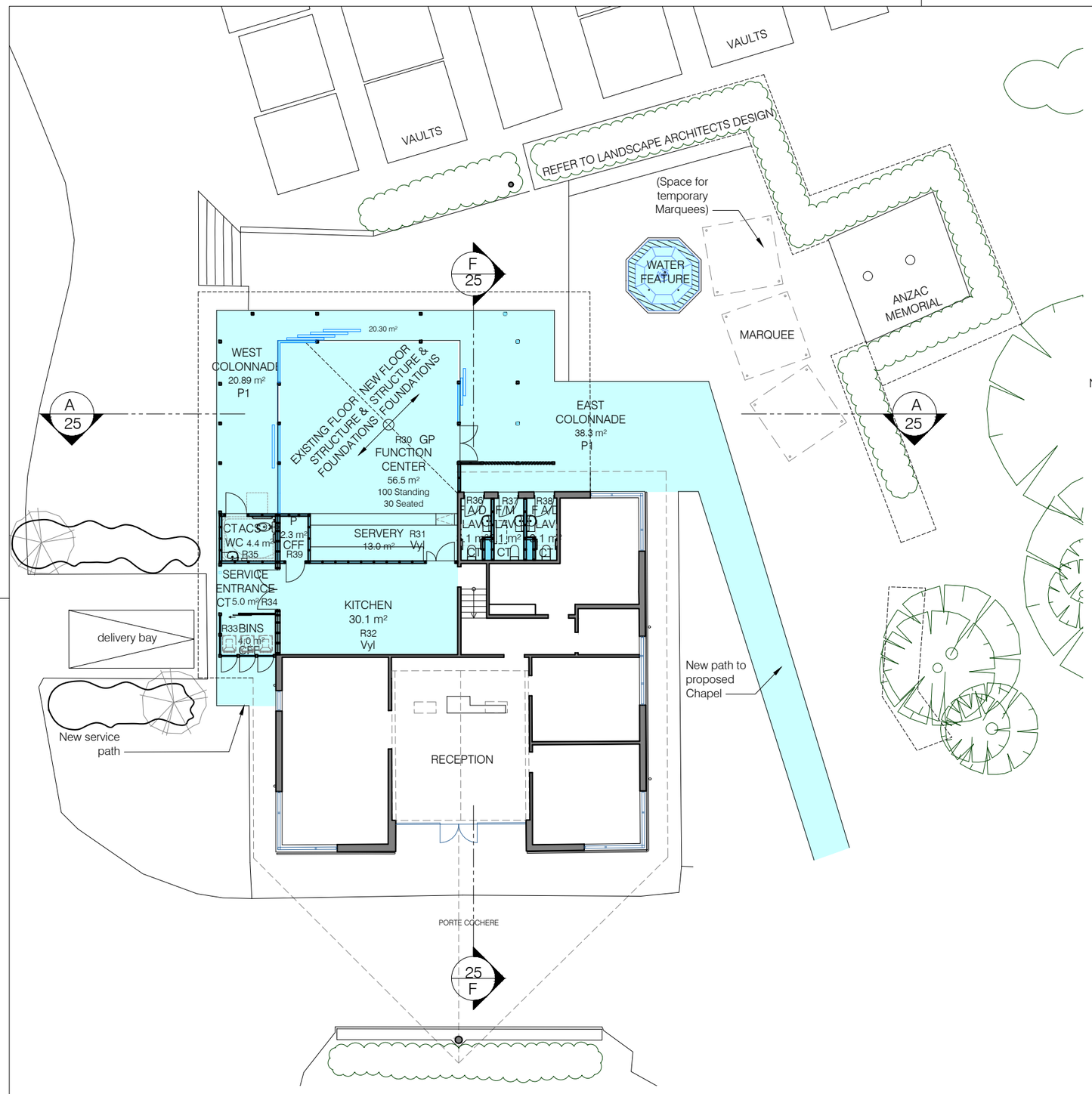
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Dwg. Name :	Dwg. No :	Stage:	Issue:
FFBC	21	DA	3

0 10 20 30 40 50 100mm

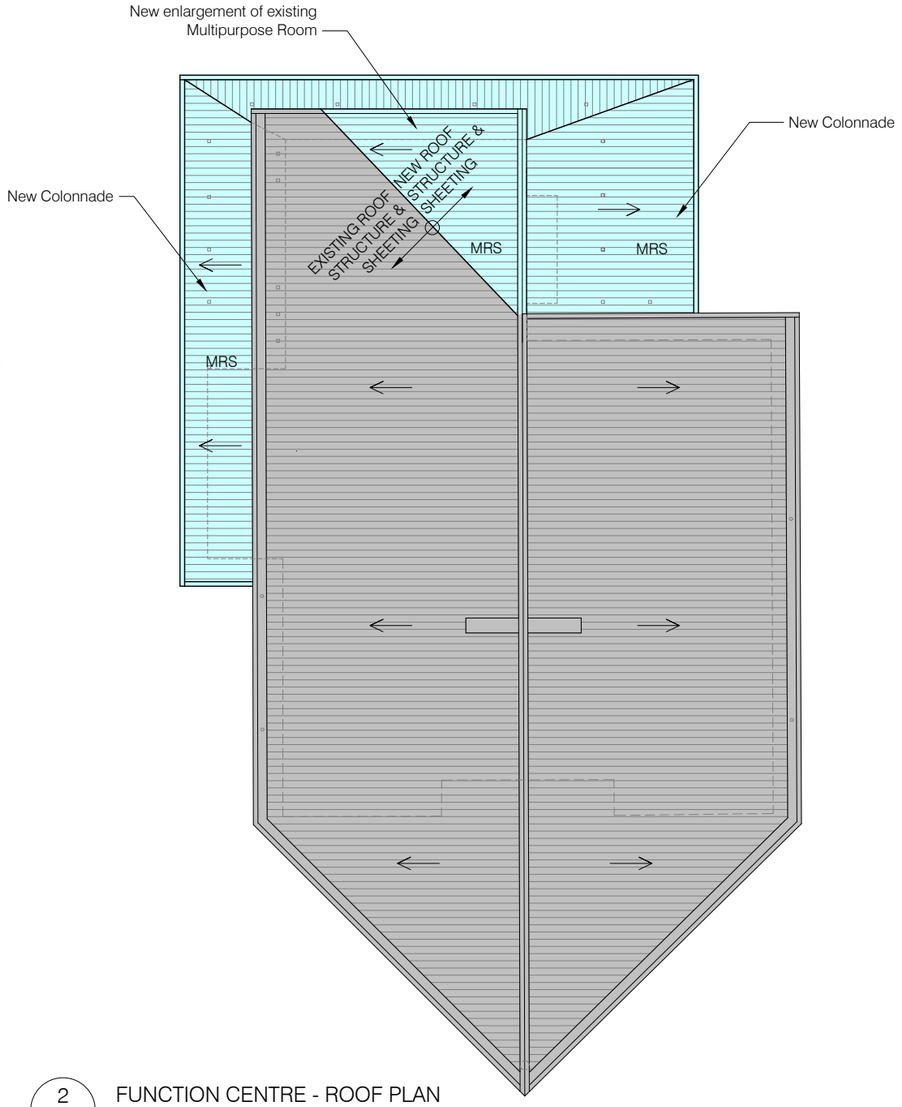
LEGEND

GP	GRANITE PAVERS
CFF	CONCRETE FLOOR FINISH
CT	CERAMIC TILES
Vyl	VINYL FLOOR
P1	INSITU CONCRETE, LIGHT EXPOSED AGGREGATE
MRS	METAL ROOF SHEETING



1 / - FUNCTION CENTRE - GROUND FLOOR PLAN

1:200 FFBC- pfg- Function Centre.dwg



2 / - FUNCTION CENTRE - ROOF PLAN

1:200 FFBC- pfg- Function Centre.dwg

Proposed new works shown coloured

Date	Issue	Amendment
2020-03-31	DA7	Colonnade Extended
2019-11-08	DA6	Title Block
2019-11-08	DA5	Landscape and Floor Finish
2019-09-05	DA4	Car Park
2019-08-30	DA3	DA Issue
2019-08-23	DA2	Design Report
2019-08-16	DA1	Preliminary Issue

HECTOR ABRAHAMS ARCHITECTS

ABN 95 160 116 030

Nominated Architect : Hector Abrahams Registration No. 5245

Level 2
1 Barrack Street
SYDNEY NSW 2000

Tel : +61 2 9299 7959
Email : mailbox@haarchitects.com.au

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Project : FRENCHS FOREST BUSHLAND CEMETERY

for : NORTHERN METROPOLITAN CEMETERIES TRUST

Dwg. Title : PROPOSED FUNCTION CENTRE GROUND FLOOR PLAN ROOF PLAN

Scale @ A3 : 1:200

Drawn : AB/YLN

Issue Date : March 2020

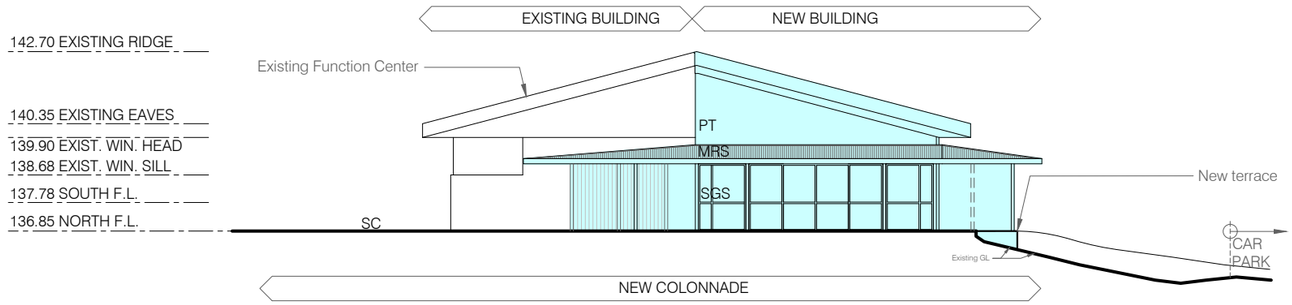
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Dwg. Name :	Dwg. No :	Stage:	Issue:
FFBC	22	DA	7

0 10 20 30 40 50 100mm

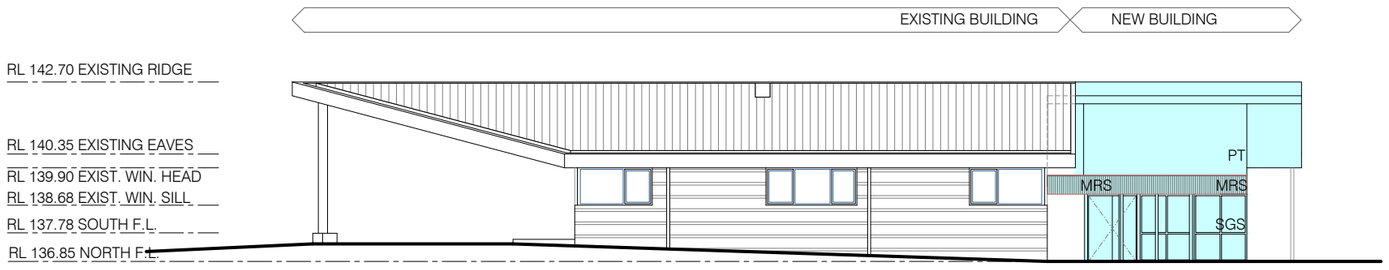
LEGEND

MRS	METAL ROOF SHEETING
SC	STEEL COLUMNS
SGS	STEEL GLAZING SYSTEM
PT	PAINTED TIMBER WALL



1 / - FUNCTION CENTRE - NORTH ELEVATION

1:200 FFBC- eln.dwg



2 / - FUNCTION CENTRE - EASTERN ELEVATION

1:200 FFBC- ele.dwg

Proposed new works shown coloured

Date	Issue	Amendment
2020-03-31	DA5	Verandah Extended
2019-11-15	DA4	Title Block
2019-08-30	DA3	DA Issue
2019-08-23	DA2	Design Report
2019-08-16	DA1	Preliminary Issue

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ABN 95 160 116 030

Nominated Architect :
Hector Abrahams
Registration No. 5245

Level 2
1 Barrack Street
SYDNEY NSW 2000

Tel : +61 2 9299 7959
Email : mailbox@haarchitects.com.au

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for : NORTHERN METROPOLITAN CEMETERIES TRUST

Dwg. Title : PROPOSED FUNCTION CENTRE NORTH ELEVATION EAST ELEVATION

Scale @ A3 : 1:200

Drawn : AB

Issue Date : March 2020

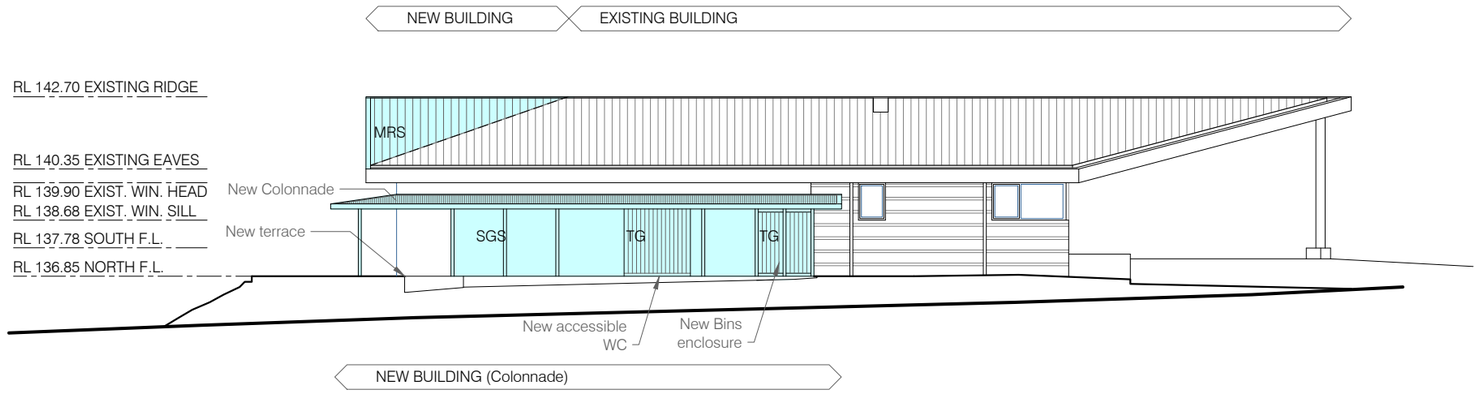
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Dwg. Name :	Dwg. No :	Stage:	Issue:
FFBC	23	DA	5

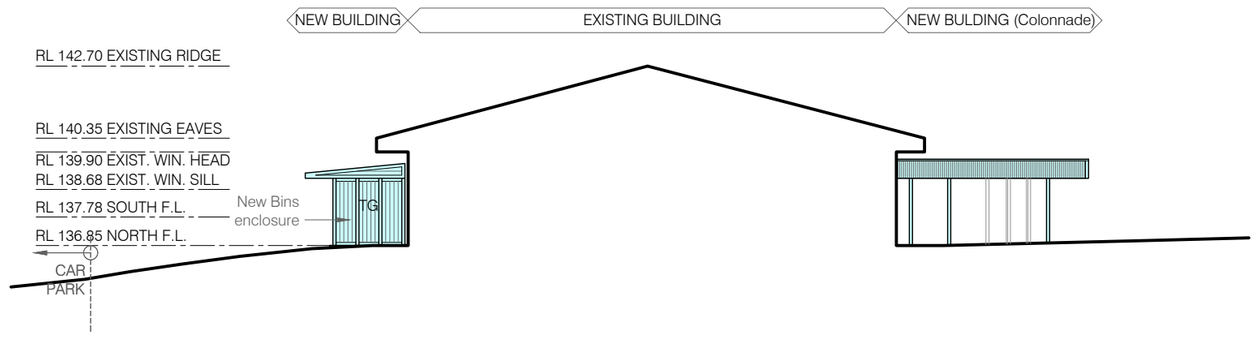
0 10 20 30 40 50 100mm

LEGEND

MRS	METAL ROOF SHEETING
SC	STEEL COLUMNS
SGS	STEEL GLAZING SYSTEM
PT	PAINTED TIMBER WALL
TG	PAINTED TONGUE AND GROOVE LINING



1 / - FUNCTION CENTRE - WEST ELEVATION
1:200 FFBC- elw.dwg



2 / - FUNCTION CENTRE - SOUTHERN ELEVATION
1:200 FFBC- els.dwg

Proposed new works shown coloured

Date	Issue	Amendment
2020-03-31	DA5	Bin Enclosure
2019-11-15	DA4	Title Block
2019-08-30	DA3	DA Issue
2019-08-23	DA2	Design Report
2019-08-16	DA1	Preliminary Issue

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ABN 95 160 116 030

Nominated Architect :
Hector Abrahams
Registration No. 5245

Level 2
1 Barrack Street
SYDNEY NSW 2000

Tel : +61 2 9299 7959
Email : mailbox@haarchitects.com.au

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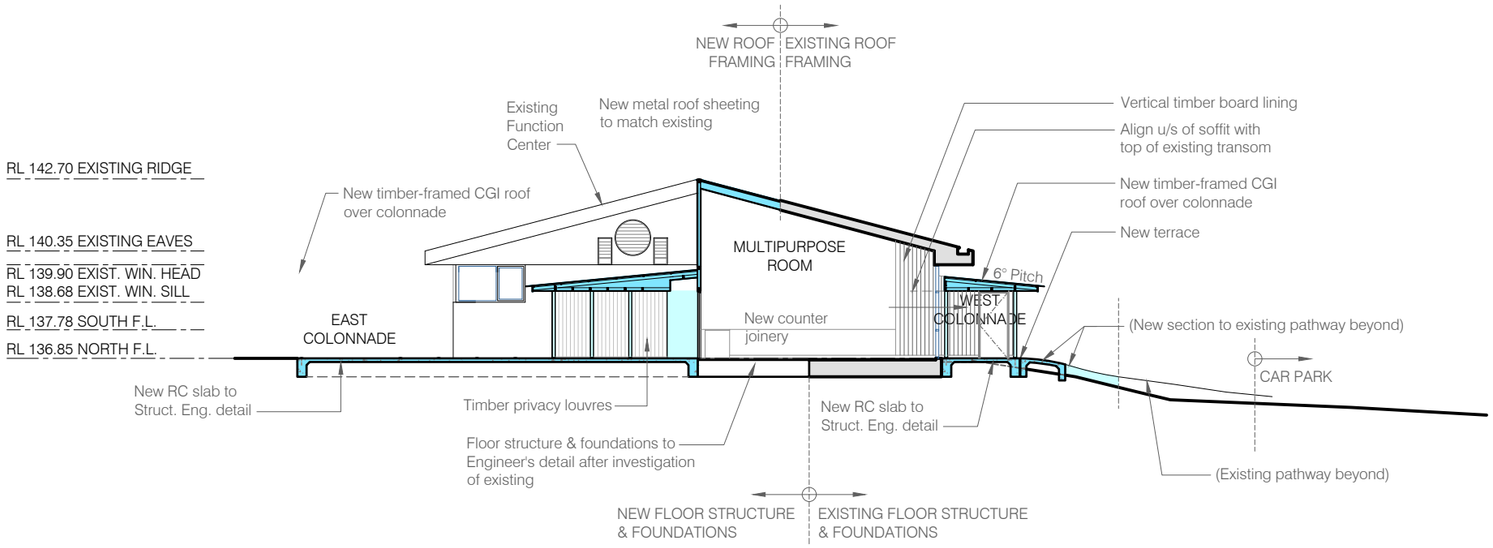
for : NORTHERN METROPOLITAN CEMETERIES TRUST

Dwg. Title : PROPOSED FUNCTION CENTRE WEST ELEVATION SOUTH ELEVATION

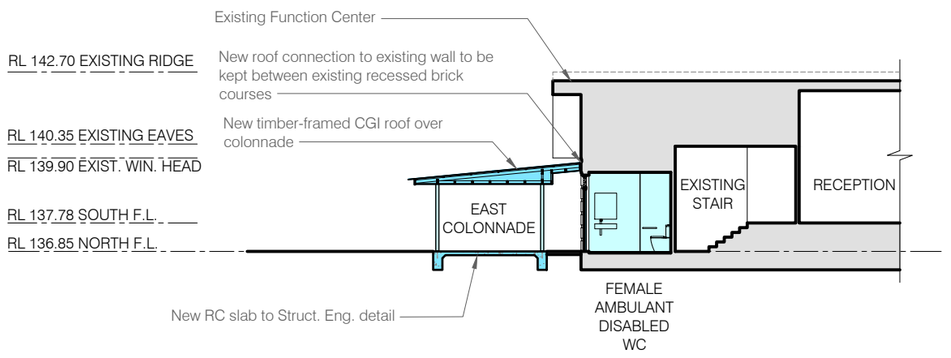
Scale @ A3 : 1:200
Drawn : AB
Issue Date : March 2020
Checked :

Dwg. Name :	Dwg. No :	Stage:	Issue:
FFBC	24	DA	5

0 10 20 30 40 50 100mm



A
-
FUNCTION CENTRE - SECTION
1:200 FFBC- sxa-Function Centre.dwg



F
-
FUNCTION CENTRE - SECTION
1:200 FFBC- sxf-Function Centre.dwg

Section shown coloured

Proposed new works shown coloured

Date	Issue	Amendment
2020-03-31	DA5	Verandah
2019-11-15	DA4	Title Block
2019-08-30	DA3	DA Issue
2019-08-23	DA2	Design Report
2019-08-16	DA1	Preliminary Issue

HECTOR ABRAHAMS ARCHITECTS

ABN 95 160 116 030

Nominated Architect :
Hector Abrahams
Registration No. 5245

Level 2
1 Barrack Street
SYDNEY NSW 2000

Tel : +61 2 9299 7959
Email : mailbox@haarchitects.com.au

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for : NORTHERN METROPOLITAN CEMETERIES TRUST

Dwg. Title : PROPOSED FUNCTION CENTRE SECTIONS A + F

Scale @ A3 : 1:200

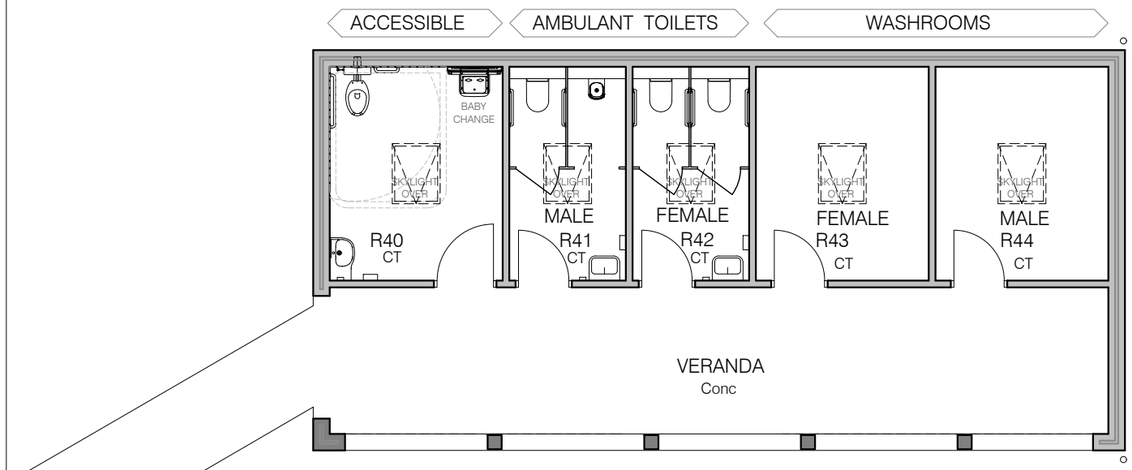
Drawn : AB

Issue Date : March 2020

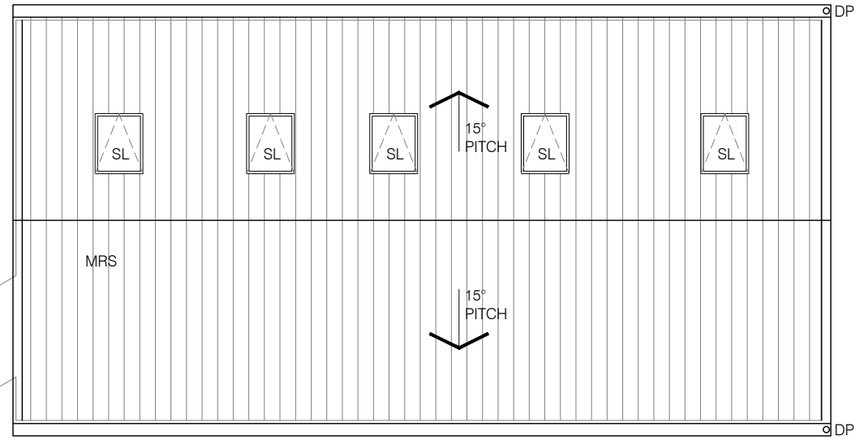
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Dwg. Name :	Dwg. No :	Stage:	Issue:
FFBC	25	DA	5

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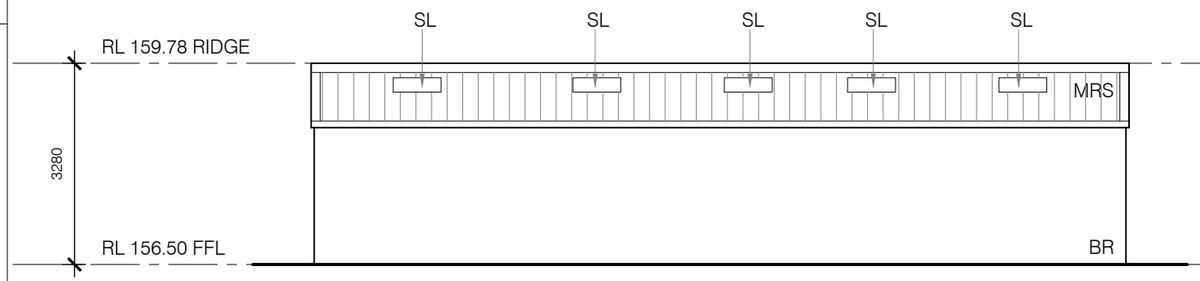
1 - TOILET BLOCK - GROUND FLOOR PLAN
1:100 FFBC- pfg-Lavatories.dwg



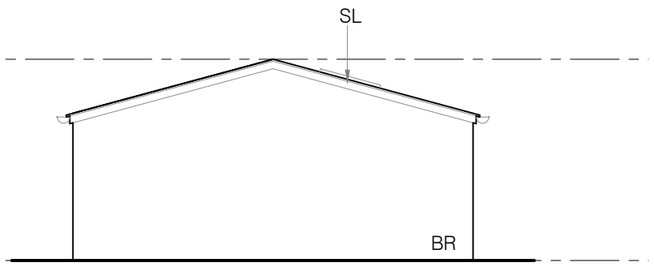
2 - TOILET BLOCK - ROOF PLAN
1:100 FFBC- pfr-Lavatories.dwg

LEGEND

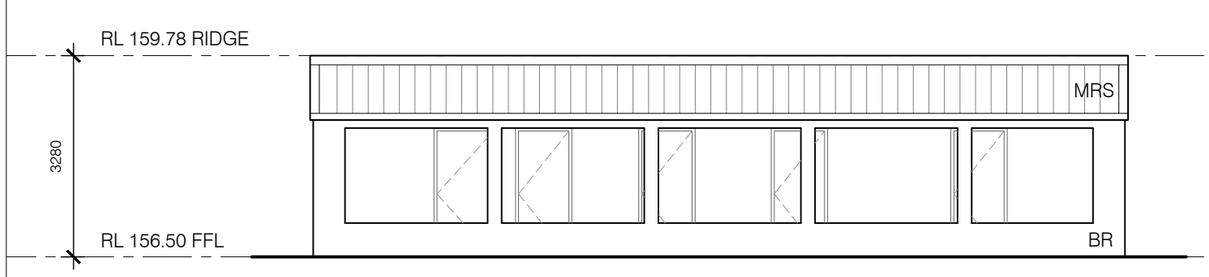
BR	BRICK
MRS	METAL ROOF SHEETING
CT	CERAMIC TILES
Conc	CONCRETE
DP	DOWNPIPE
SL	SKY LIGHTS



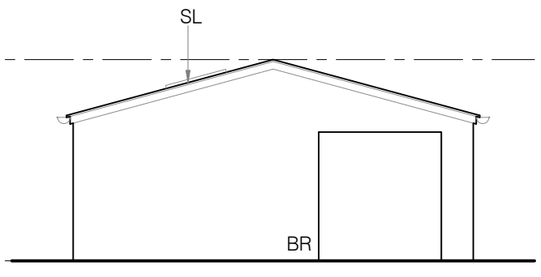
3 - TOILET BLOCK - NORTH ELEVATION
1:100 FFBC- el-Lavatories.dwg



4 - TOILET BLOCK - EAST ELEVATION
1:100 FFBC- el-Lavatories.dwg



5 - TOILET BLOCK -SOUTH ELEVATION
1:100 FFBC- el-Lavatories.dwg



6 - TOILET BLOCK - WEST ELEVATION
1:100 FFBC- el-Lavatories.dwg

Date	Issue	Amendment
2019-08-30	DA3	DA Issue
2019-08-23	DA2	Design Report
2019-08-16	DA1	Preliminary Issue

HECTOR ABRAHAMS ARCHITECTS
ABN 95 160 116 030
Nominated Architect : Hector Abrahams Registration No. 5245
Level 2
1 Barrack Street
SYDNEY NSW 2000
Tel : +61 2 9299 7959
Email : mailbox@haarchitects.com.au

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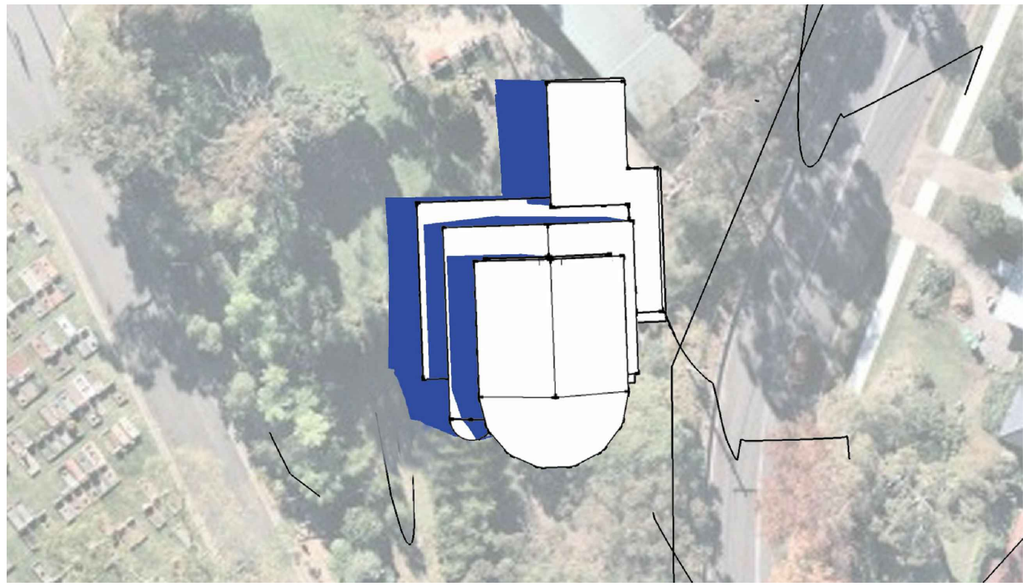
Project : FRENCHS FOREST BUSHLAND CEMETERY
for : NORTHERN METROPOLITAN CEMETERIES TRUST

Dwg. Title : TOILET BLOCK

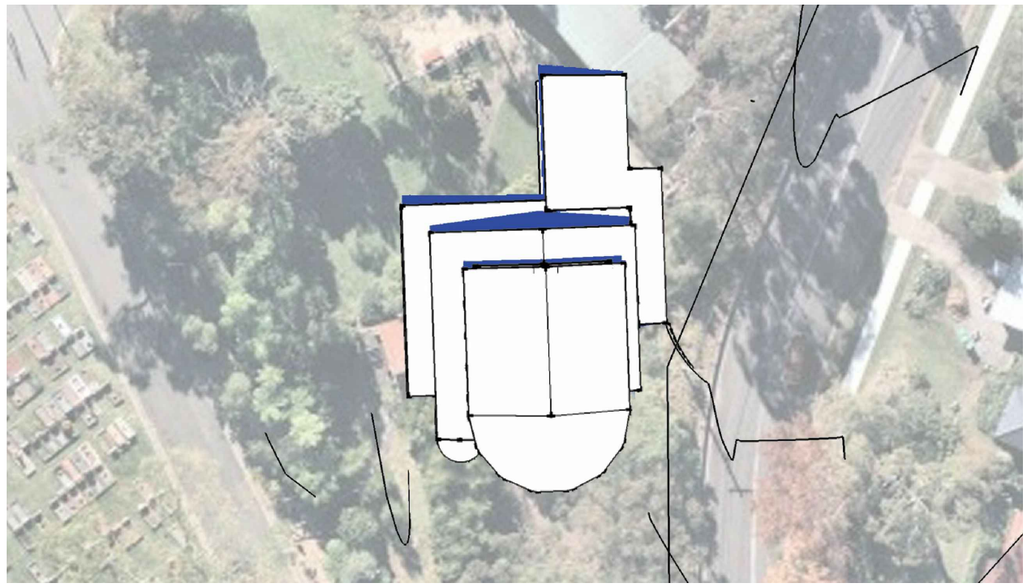
Scale @ A3 : 1:100
Drawn : AC/AB
Issue Date : March 2020
Checked :

Dwg. Name :	Dwg. No :	Stage:	Issue:
FFBC	30	DA	3

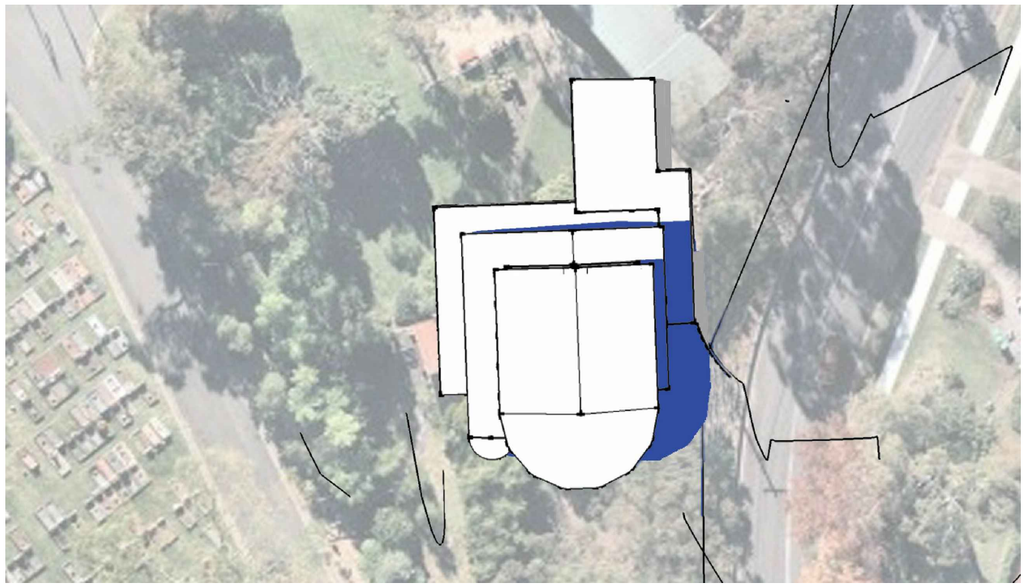
0 10 20 30 40 50 100mm



1 - SHADOW DIAGRAM - 9AM
NTS FFBC- 3D shadow.dwg



2 - SHADOW DIAGRAM - 12PM
NTS FFBC- 3D shadow.dwg



3 - SHADOW DIAGRAM - 3PM
NTS FFBC- 3D shadow.dwg

Date	Issue	Amendment
2020-03-31	DA3	Shadow Revised
2019-09-09	DA2	Colour Revised
2019-09-03	DA1	DA Issue

HECTOR ABRAHAMS ARCHITECTS

ABN 95 160 116 030

Nominated Architect :
Hector Abrahams
Registration No. 5245

Level 2
1 Barrack Street
SYDNEY NSW 2000

Tel : +61 2 9299 7959
Email : mailbox@haarchitects.com.au

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for : NORTHERN METROPOLITAN CEMETERIES TRUST

Dwg. Title : SHADOW DIAGRAMS WINTER SOLSTICE 9AM, 12PM AND 3PM

Scale @ A3 : NTS
Issue Date : March 2020
Drawn : MH/YLN
Checked :

Dwg. Name :	Dwg. No :	Stage:	Issue:
FFBC	31	DA	3

0 10 20 30 40 50 100mm



Proposed new carspaces

1 / - CAR PARK PLAN 1
Scale 1:500 FFBC-pst.dwg

Date	Issue	Amendment
2020-03-31	DA2	DA Issue
2019-09-18	DA1	DA Issue

HECTOR ABRAHAMS ARCHITECTS

ABN 95 160 116 030

Nominated Architect :
Hector Abrahams
Registration No. 5245

Level 2
1 Barrack Street
SYDNEY NSW 2000

Tel : +61 2 9299 7959
Email : mailbox@haarchitects.com.au

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Project : FRENCHS FOREST BUSHLAND CEMETERY

for : NORTHERN METROPOLITAN CEMETERIES TRUST

Dwg. Title : CAR PARK 1

Scale @ A3 : 1:500

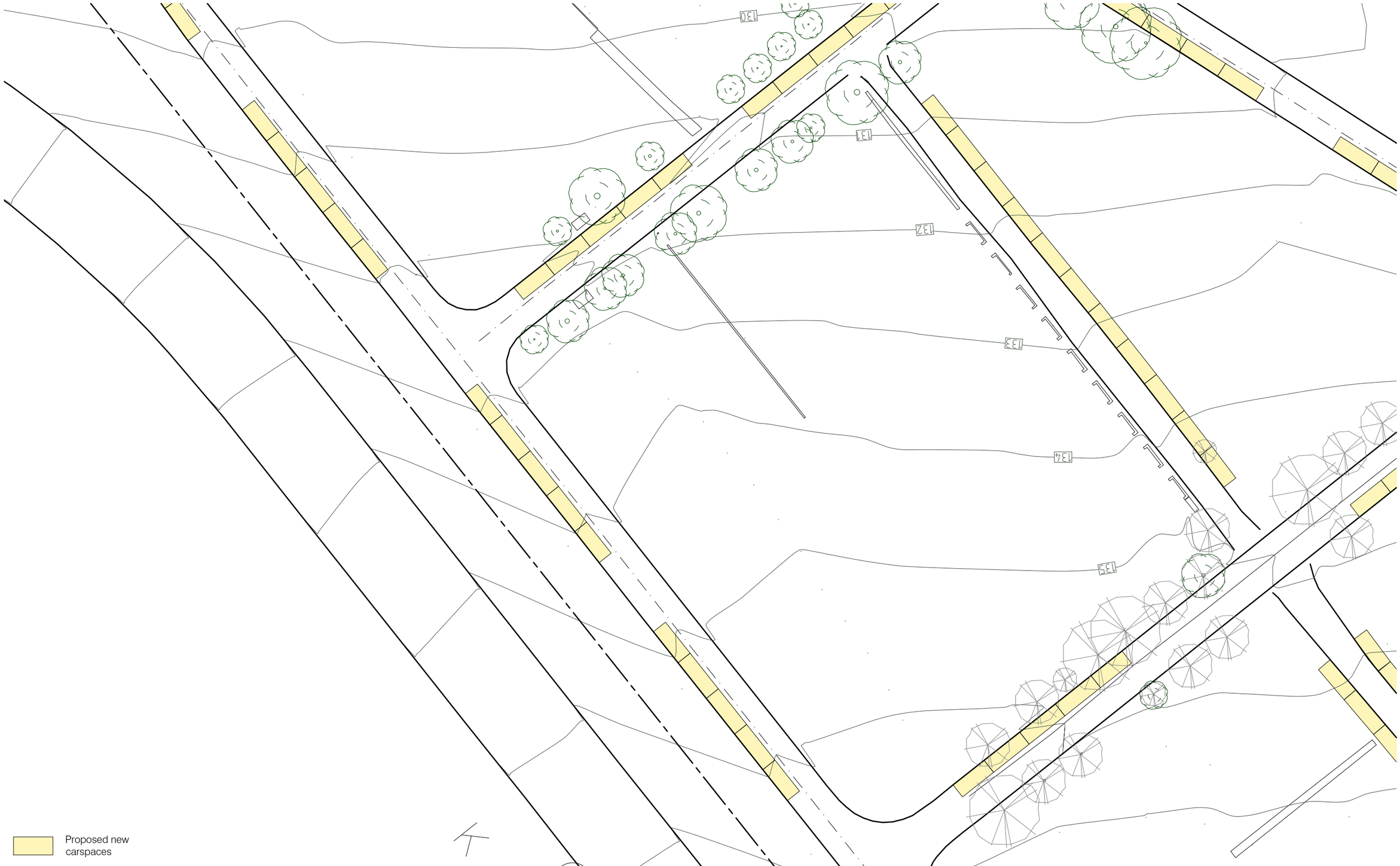
Issue Date : March 2020

Drawn : AC AB

Checked :

Dwg. Name :	Dwg. No :	Stage:	Issue:
FFBC	32	DA	2

0 10 20 30 40 50 100mm



Proposed new carspaces

1 / - CAR PARK PLAN 2
Scale 1:500 FFBC-pst.dwg

Date	Issue	Amendment
2020-03-31	DA2	DA Issue
2019-09-18	DA1	DA Issue

HECTOR ABRAHAMS ARCHITECTS

ABN 95 160 116 030

Nominated Architect :
Hector Abrahams
Registration No. 5245

Level 2
1 Barrack Street
SYDNEY NSW 2000

Tel : +61 2 9299 7959
Email : mailbox@haarchitects.com.au

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Project : FRENCHS FOREST BUSHLAND CEMETERY

for : NORTHERN METROPOLITAN CEMETERIES TRUST

Dwg. Title : CAR PARK 2

Scale @ A3 : 1:500
Issue Date : March 2020
Drawn : AC AB
Checked :

Dwg. Name :	Dwg. No :	Stage:	Issue:
FFBC	33	DA	2

0 10 20 30 40 50 100mm



1 / - CAR PARK PLAN 3

Scale 1:500 FFBC-pst.dwg

Date	Issue	Amendment
2020-03-31	DA2	DA Issue
2019-09-18	DA1	DA Issue

HECTOR ABRAHAMS ARCHITECTS

ABN 95 160 116 030

Nominated Architect : Hector Abrahams
Registration No. 5245

Level 2
1 Barrack Street
SYDNEY NSW 2000

Tel : +61 2 9299 7959
Email : mailbox@haarchitects.com.au

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Dwg. Title : CAR PARK 3

Scale @ A3 : 1:500

Drawn : AC AB

Issue Date : March 2020

Checked :

Dwg. Name :	Dwg. No :	Stage:	Issue:
FFBC	34	DA	2

0 10 20 30 40 50 100mm



1 / - CAR PARK PLAN 4
Scale 1:500 FFBC-pst.dwg

Date	Issue	Amendment
2020-03-31	DA2	DA Issue
2019-09-18	DA1	DA Issue

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ABN 95 160 116 030

Nominated Architect :
Hector Abrahams
Registration No. 5245

Level 2
1 Barrack Street
SYDNEY NSW 2000

Tel : +61 2 9299 7959
Email : mailbox@haarchitects.com.au

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Project : FRENCHS FOREST BUSHLAND CEMETERY

for : NORTHERN METROPOLITAN CEMETERIES TRUST

Dwg. Title : CAR PARK 4

Scale @ A3 : 1:500

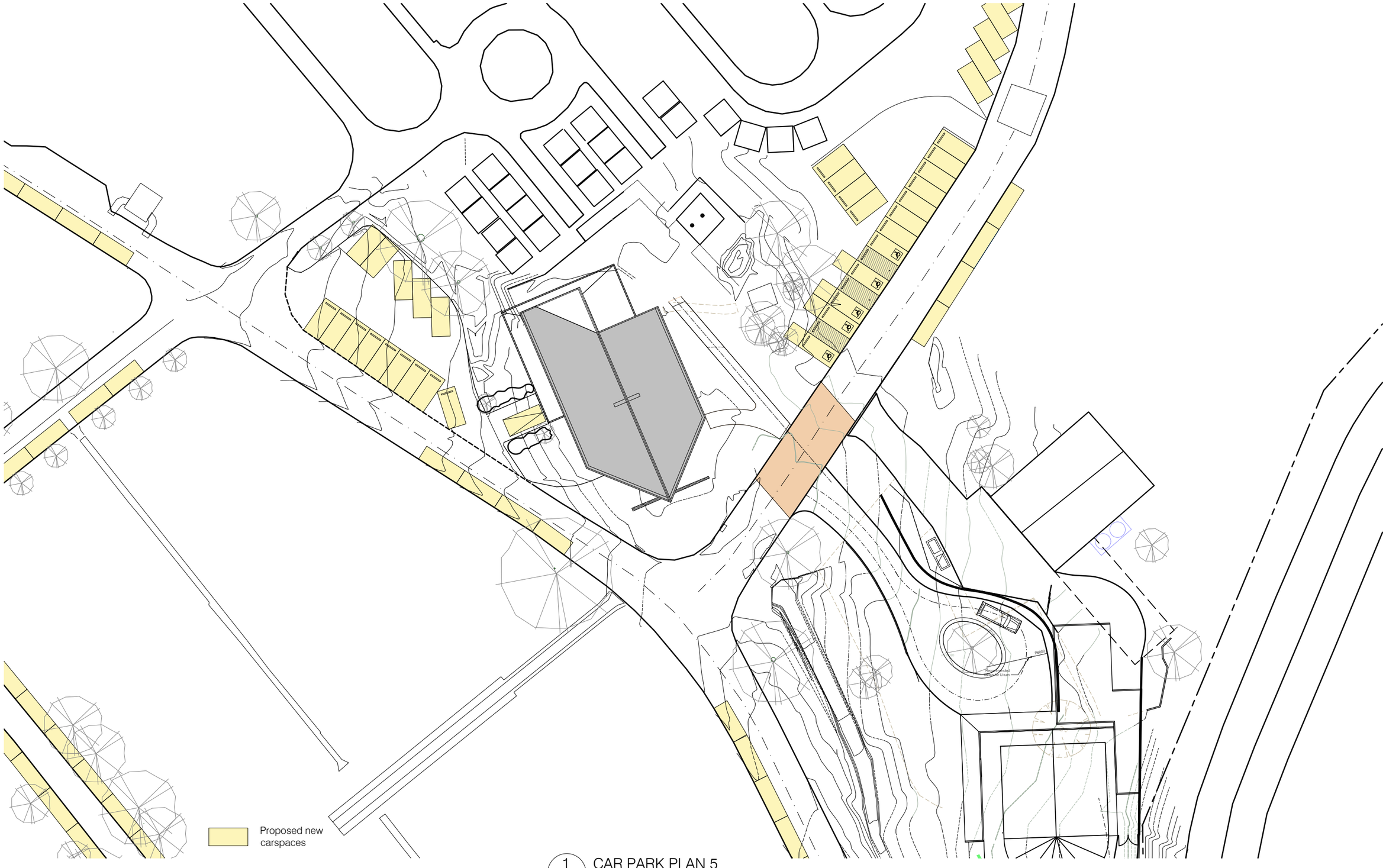
Drawn : AC AB

Issue Date : March 2020

Checked :

Dwg. Name :	Dwg. No :	Stage:	Issue:
FFBC	35	DA	2

0 10 20 30 40 50 100mm



1 / - CAR PARK PLAN 5

Scale 1:500 FFBC-pst.dwg

Date	Issue	Amendment
2020-03-31	DA2	DA Issue
2019-09-18	DA1	DA Issue

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ABN 95 160 116 030

Nominated Architect : Hector Abrahams
Registration No. 5245

Level 2
1 Barrack Street
SYDNEY NSW 2000

Tel : +61 2 9299 7959
Email : mailbox@haarchitects.com.au

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Dwg. Title : CAR PARK 5

Scale @ A3 : 1:500

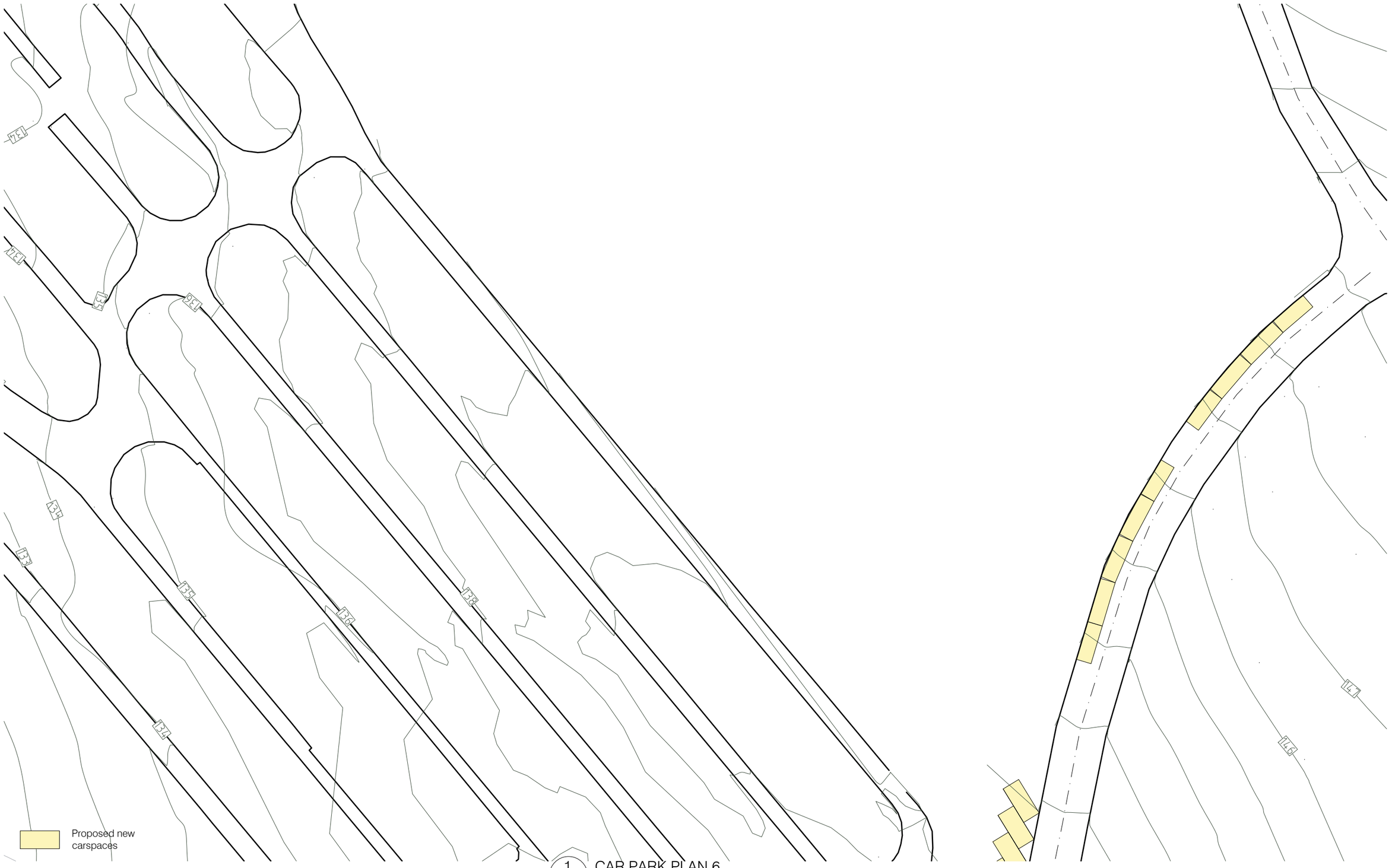
Issue Date : March 2020

Drawn : AC AB

Checked :

Dwg. Name :	Dwg. No :	Stage:	Issue:
FFBC	36	DA	2

0 10 20 30 40 50 100mm



1 CAR PARK PLAN 6
- Scale 1:500 FFBC-pst.dwg

Date	Issue	Amendment
2020-03-31	DA2	DA Issue
2019-09-18	DA1	DA Issue

HECTOR ABRAHAMS ARCHITECTS

ABN 95 160 116 030

Nominated Architect :
Hector Abrahams
Registration No. 5245

Level 2
1 Barrack Street
SYDNEY NSW 2000

Tel : +61 2 9299 7959
Email : mailbox@haarchitects.com.au

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Project : FRENCHS FOREST BUSHLAND CEMETERY

for : NORTHERN METROPOLITAN CEMETERIES TRUST

Dwg. Title : CAR PARK 6

Scale @ A3 : 1:500

Drawn : AC AB

Checked :

Issue Date : March 2020

Dwg. Name :	Dwg. No :	Stage:	Issue:
FFBC	37	DA	2

0 10 20 30 40 50 100mm



Proposed new carspaces

1 / - CAR PARK PLAN 7
Scale 1:500 FFBC-pst.dwg

Date	Issue	Amendment
2020-03-31	DA2	DA Issue
2019-09-18	DA1	DA Issue

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ABN 95 160 116 030

Nominated Architect :
Hector Abrahams
Registration No. 5245

Level 2
1 Barrack Street
SYDNEY NSW 2000

Tel : +61 2 9299 7959
Email : mailbox@haarchitects.com.au

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Project : FRENCHS FOREST BUSHLAND CEMETERY

for : NORTHERN METROPOLITAN CEMETERIES TRUST

Dwg. Title : CAR PARK 7

Scale @ A3 : 1:500

Drawn : AC AB

Issue Date : March 2020

Checked :

Dwg. Name :	Dwg. No :	Stage:	Issue:
FFBC	38	DA	2

0 10 20 30 40 50 100mm

PROPOSED ACCESS ROAD DEVELOPMENT
FRENCHS FOREST BUSHLAND CEMETERY
1 HAKEA AVENUE, FRENCHS FOREST 2085



LOCATION PLAN-COURTESY OF SPATIAL INFORMATION EXCHANGE
N.T.S.

SCHEDULE OF DRAWINGS

001	LOCATION PLAN AND DRAWING SCHEDULE
100	CONCEPT EROSION AND SEDIMENT CONTROL PLAN
101	CONCEPT EROSION AND SEDIMENT CONTROL DETAILS
110	CONCEPT CATCHMENT PLAN
200	CONCEPT STORMWATER MANAGEMENT PLAN
201	CONCEPT SITEWORK PLAN
202	ROAD CROSS SECTIONS PLAN
300	TYPICAL DETAILS AND SECTIONS SHEET

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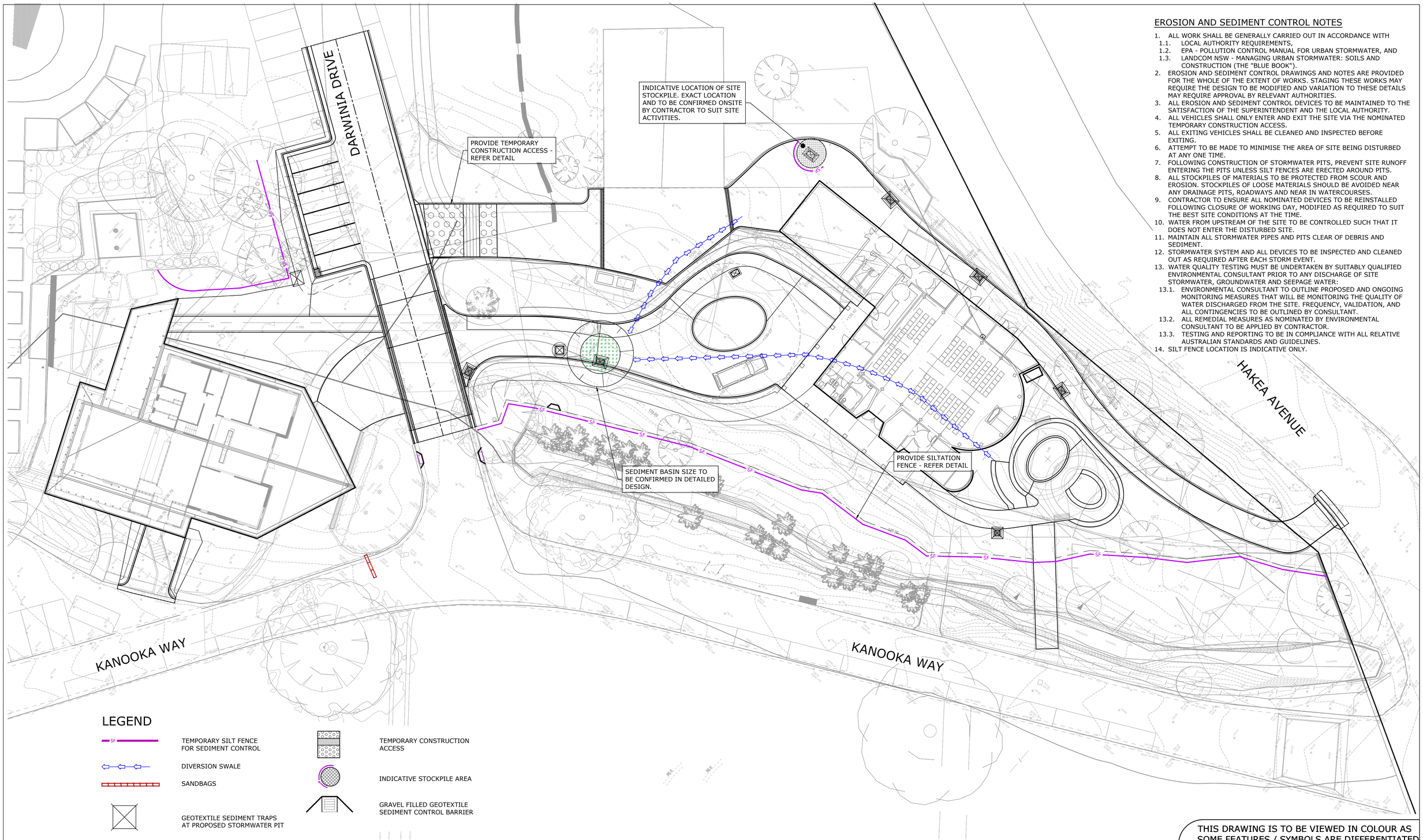
REV	AMENDMENT / REASON FOR ISSUE	DATE	DES.	DWN.	DWGCHK	VERIFIED	APPROVED
B	DA ISSUE	30.03.20	KL	IR			KL
A	PRELIMINARY ISSUE	10.09.19	CV	IR			CV

LOCATION PLAN & DRAWING SCHEDULE

SHEET SIZE	SCALE:	FILENAME:	JOB NUMBER	SHEET NUMBER	REVISION
A1	N.T.S.	20190763_001 INDEX.DWG	20190763	001	B

100mm ON ORIGINAL DRAWING - DO NOT SCALE DRAWING

V:\2019\20190763 FRENCHES FOREST BUSHLAND CEMETERY - TAYLOR LAUDER BERSTEN\3_DEVELOPMENT\1 ACAD\01 DWG\20190763_001 INDEX.DWG [INDEX] March 26, 2020 16:14PM



EROSION AND SEDIMENT CONTROL NOTES

1. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH
   - 1.1. LOCAL AUTHORITY REQUIREMENTS,
   - 1.2. EPA - POLLUTION CONTROL MANUAL FOR URBAN STORMWATER, AND
   - 1.3. LANDCOM NSW - MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION (THE "BLUE BOOK").
2. EROSION AND SEDIMENT CONTROL DRAWINGS AND NOTES ARE PROVIDED FOR THE WHOLE OF THE EXTENT OF WORKS. STAGING THESE WORKS MAY REQUIRE THE DESIGN TO BE MODIFIED AND VARIATION TO THESE DETAILS MAY REQUIRE APPROVAL BY RELEVANT AUTHORITIES.
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4. ALL VEHICLES SHALL ONLY ENTER AND EXIT THE SITE VIA THE NOMINATED TEMPORARY CONSTRUCTION ACCESS.
5. ALL EXITING VEHICLES SHALL BE CLEANED AND INSPECTED BEFORE EXITING.
6. ATTEMPT TO BE MADE TO MINIMISE THE AREA OF SITE BEING DISTURBED AT ANY ONE TIME.
7. FOLLOWING CONSTRUCTION OF STORMWATER PITS, PREVENT SITE RUNOFF ENTERING THE PITS UNLESS SILT FENCES ARE ERECTED AROUND PITS.
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    - 13.2. ALL REMEDIAL MEASURES AS NOMINATED BY ENVIRONMENTAL CONSULTANT TO BE APPLIED BY CONTRACTOR.
    - 13.3. TESTING AND REPORTING TO BE IN COMPLIANCE WITH ALL RELATIVE AUSTRALIAN STANDARDS AND GUIDELINES.
14. SILT FENCE LOCATION IS INDICATIVE ONLY.

LEGEND

- SF — TEMPORARY SILT FENCE FOR SEDIMENT CONTROL
- DIVERSION SWALE
- SANDBAGS
- GEOTEXTILE SEDIMENT TRAPS AT PROPOSED STORMWATER PIT
- TEMPORARY CONSTRUCTION ACCESS
- INDICATIVE STOCKPILE AREA
- GRAVEL FILLED GEOTEXTILE SEDIMENT CONTROL BARRIER

THIS DRAWING IS TO BE VIEWED IN COLOUR AS SOME FEATURES / SYMBOLS ARE DIFFERENTIATED BY COLOUR. DRAWING NOT TO BE RELIED ON IF PRINTED IN GREYSCALE.

0 2 4 8 12
1:200 (A1); 1:400 (A3)

100mm ON ORIGINAL DRAWING - DO NOT SCALE DRAWING

SHEET SIZE A1

REV	AMENDMENT / REASON FOR ISSUE	DATE	DES.	DWN.
B	DA ISSUE	30.03.20	KL	IR
A	PRELIMINARY ISSUE	10.09.19	CV	IR

COORDS: ALL LEVELS TO A.H.D.
DATUM: MGA94 ZONE 56
SCALE: 1:200
SURVEYED:TSS
SURVEY DATE:19.10.2018
APPROVED / PROJECT LEADER
C.VELESKI

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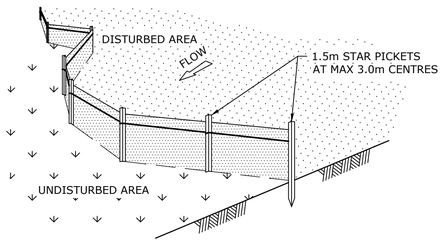
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NORTHERN METROPOLITAN CEMETERIES TRUST

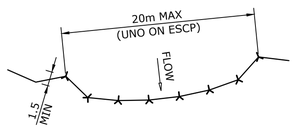
PROPOSED ACCESS ROAD DEVELOPEMENT BUSHLAND CEMETERY, 1 HAKEA AVENUE EROSION AND SEDIMENT CONTROL PLAN

FILENAME:	PROJECT NUMBER	DRAWING NUMBER	REVISION
20190763_100 EROSION & SEDIMENT.DWG	20190763	100	B

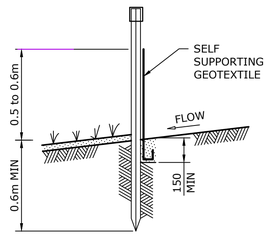
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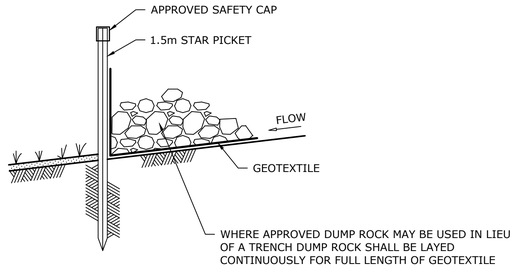
DETAIL - 1



DETAIL - 2



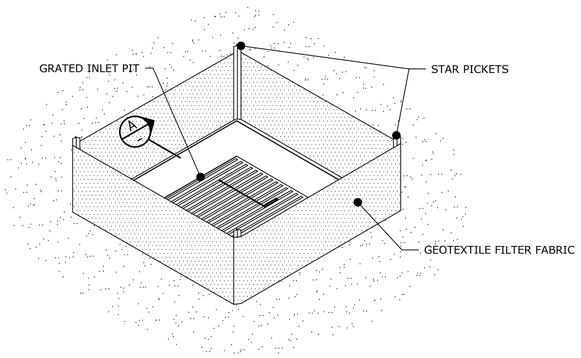
STANDARD FENCE INSTALLATION & ANCHOR DETAIL



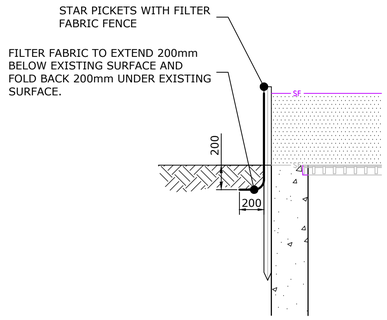
ALTERNATIVE FENCE INSTALLATION AND ANCHOR DETAIL

EROSION AND SEDIMENT CONTROL NOTES

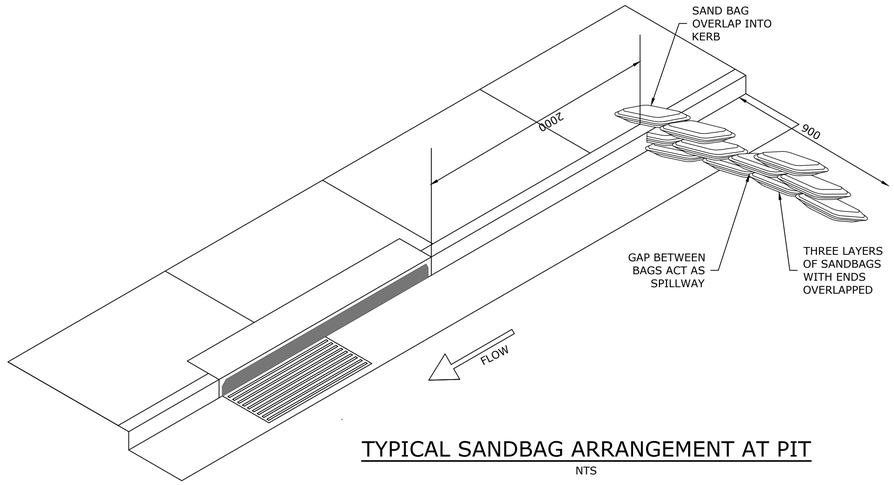
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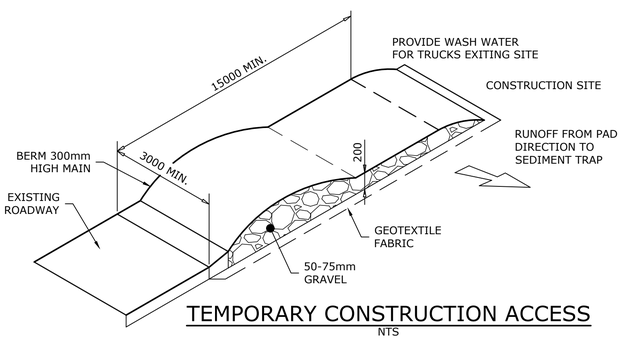
GEOTEXTILE INLET FILTER SEDIMENT TRAP
NTS



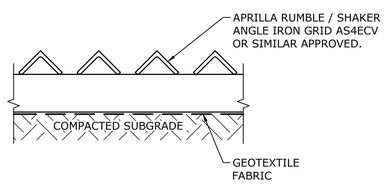
SECTION A
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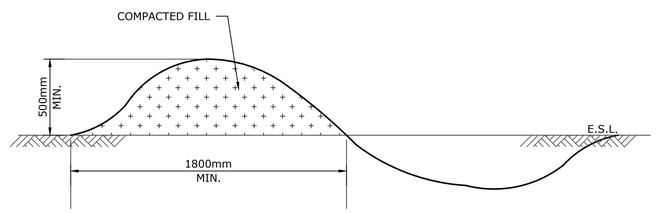
TYPICAL SANDBAG ARRANGEMENT AT PIT
NTS



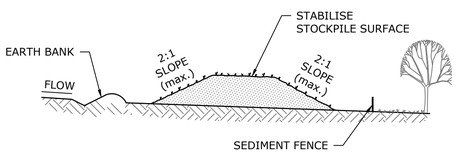
TEMPORARY CONSTRUCTION ACCESS
NTS



VEHICLE SHAKER GRID
NTS



DIVERSION SWALE



STOCKPILE

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SHEET SIZE A1

100mm ON ORIGINAL DRAWING - DO NOT SCALE DRAWING

REV	AMENDMENT / REASON FOR ISSUE	DATE	DES.	DWN.
B	DA ISSUE	30.03.20	KL	IR
A	PRELIMINARY ISSUE	10.09.19	CV	IR

COORDS: ALL LEVELS TO A.H.D.
DATUM: MGA94 ZONE 56
SCALE: AS SHOWN
SURVEYED:TSS
SURVEY DATE:19.10.2018
APPROVED / PROJECT LEADER
C.VELESKI

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NORTHERN METROPOLITAN CEMETERIES TRUST

PROPOSED ACCESS ROAD DEVELOPEMENT
BUSHLAND CEMETERY, 1 HAKEA AVENUE
EROSION AND SEDIMENT CONTROL DETAILS

FILENAME: 20190763_100 EROSION & SEDIMENT.DWG
PROJECT NUMBER 20190763
DRAWING NUMBER 101
REVISION B

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V:\2019\20190763 FRENCHES FOREST BUSHLAND CEMETERY - TAYLOR LAUDER BERSTEN\3_DEVELOPMENT\1 ACAD\01 DWG\20190763_100 EROSION & SEDIMENT.DWG -SED DET- (27-03-20 2:56:23PM)



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0 2 4 8 12
1:200 (A1); 1:400 (A3)

100mm ON ORIGINAL DRAWING - DO NOT SCALE DRAWING

SHEET SIZE
A1

REV	AMENDMENT / REASON FOR ISSUE	DATE	DES.	DWN.
B	DA ISSUE	30.03.20	KL	IR
A	PRELIMINARY ISSUE	10.09.19	CV	IR

COORDS: ALL LEVELS TO A.H.D.
DATUM: MGA94 ZONE 56

SCALE: 1:200

SURVEYED:TSS
SURVEY DATE:19.10.2018

APPROVED / PROJECT LEADER
C.VELESKI

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NORTHERN METROPOLITAN CEMETERIES TRUST

PROPOSED ACCESS ROAD DEVELOPEMENT BUSHLAND CEMETERY, 1 HAKEA AVENUE CATCHMENT PLAN

FILENAME: 20190763_110 CATCHMENT.DWG

PROJECT NUMBER	DRAWING NUMBER	REVISION
20190763	110	B

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LEGEND

- SITE BOUNDARY
- PROPOSED STORMWATER PIPE
- NEW STORMWATER PIT
- PIT A/1 — PIT LINE AND PIT NUMBER
- OVERLAND FLOW DIRECTION

DARWINIA DRIVE

PIT B/1.
EXISTING STORMWATER PIT.
NEW Ø225 TO NEATLY
CONNECT TO EXISTING PIT.

PIT B/2. SURFACE
INLET PIT.
600x900 CLASS 'C'
GRATE AND FRAME.

PROVIDE HEEL SAFE GRATE
TO ACT AS GUTTER BRIDGE
TO ALLOW STORMWATER
FLOWS TO FLOW ON

PIT A/2. JUNCTION PIT
600x900 CLASS 'C'
COVER AND FRAME.

200mm WIDE GRATED
DRAIN.

PIT A/1. JUNCTION PIT
600x900 CLASS 'C'
COVER AND FRAME.

PIT C/2. SURFACE INLET PIT
WITH OCEANGURD FILTER.
600x900 CLASS 'C' GRATE
AND FRAME.

PIT A/3. SURFACE
INLET PIT WITH
OCEANGURD FILTER.
600x900 CLASS 'C'
GRATE AND FRAME.

PIT A/4. SURFACE INLET PIT
WITH OCEANGURD FILTER.
600x900 CLASS 'C' GRATE
AND FRAME.

PROPOSED 5kL
RAINWATER TANK
FOR IRRIGATION.

PIT A/5. SURFACE INLET PIT
WITH OCEANGURD FILTER.
600x900 CLASS 'C' GRATE
AND FRAME.

PROPOSED
CHAPEL
FFL. 139.40

PIT C/3. 6 CARTRIDGE
STORMFILTER

NEW HEADWALL C/4 WITH
SCOUR PROTECTION.
DISCHARGE TO CREEK TO BE
CONFIRMED WITH
ECOLOGIST.

PIT C/6. SURFACE INLET
PIT WITH OCEANGURD
FILTER.
600x900 CLASS 'C'
GRATE AND FRAME.

PIT C/1. SURFACE INLET PIT WITH
OCEANGURD FILTER TO COLLECT
SURFACE FLOW IN ASHES GARDEN AREA.
600X600 CLASS 'C' GRATE AND FRAME.

Ø225

HAKEA AVENUE

KANOOKA WAY

KANOOKA WAY

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0 2 4 8 12
1:200 (A1); 1:400 (A3)

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SHEET SIZE
A1

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C	DA ISSUE	30.03.20	KL	IR
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DATUM: MGA94 ZONE 56

SCALE: 1:200

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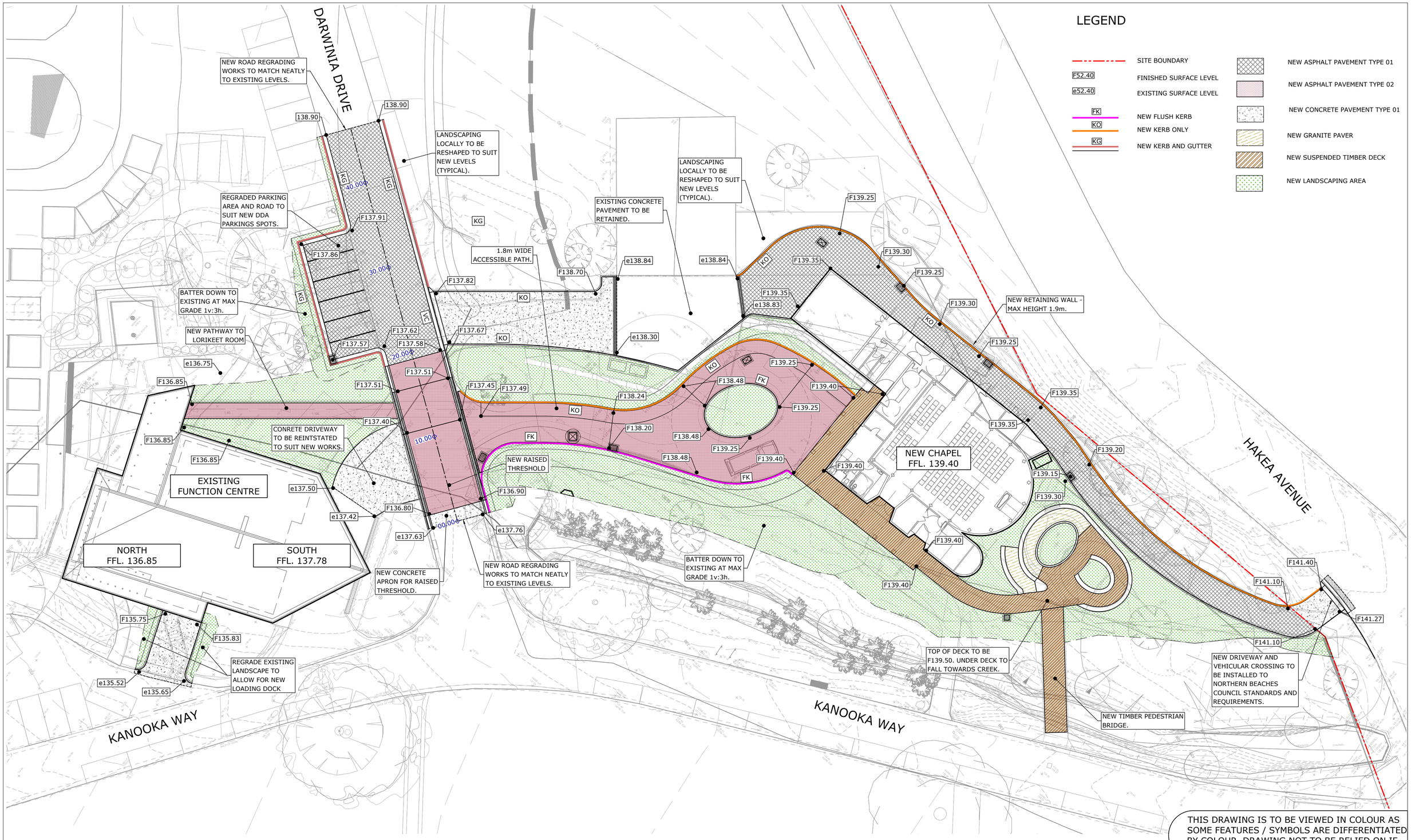
NORTHERN METROPOLITAN CEMETERIES TRUST

PROPOSED ACCESS ROAD DEVELOPEMENT BUSHLAND CEMETERY, 1 HAKEA AVENUE STORMWATER MANAGEMENT PLAN

FILENAME: 20190763_200 STORMWATER.DWG
PROJECT NUMBER: 20190763
DRAWING NUMBER: 200
REVISION: C

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V:\2019\20190763 FRENCHES FOREST BUSHLAND CEMETERY - TAYLOR LAUDER BERSTEN\3_DEVELOPMENT\1 ACAD\01 DWG\20190763_200 STORMWATER.DWG -SWM- (27-03-20 2:57:28PM)



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0 2 4 8 12
1:200 (A1); 1:400 (A3)

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SHEET SIZE
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C	DA ISSUE	30.03.20	KL	IR
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COORDS: ALL LEVELS TO A.H.D.
DATUM: MGA94 ZONE 56
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NORTHERN METROPOLITAN CEMETERIES TRUST

PROPOSED ACCESS ROAD DEVELOPEMENT BUSHLAND CEMETERY, 1 HAKEA AVENUE SITEWORKS PLAN

FILENAME: 20190763_201 SITEWORKS PLAN.DWG

PROJECT NUMBER	DRAWING NUMBER	REVISION
20190763	201	C

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V:\2019\20190763 FRENCHES FOREST BUSHLAND CEMETERY - TAYLOR LAUDER BERSTEN\3_DEVELOPMENT\1 ACAD\01 DWG\20190763_201 SITEWORKS PLAN.DWG -PVT- (27-03-20 2:57:53PM)

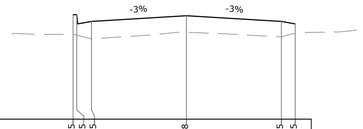


R.L.137.000

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DESIGN OFFSET	-10.065	-9.565	-9.415	-9.165	-8.965														0.000				

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DESIGN OFFSET	3.100	3.550	3.700																				

CH. 30.000

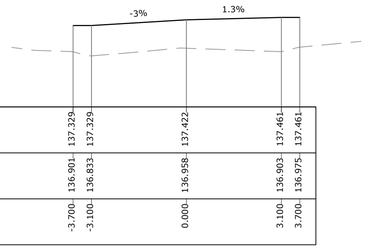


R.L.136.000

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DESIGN OFFSET	3.100	3.550																					

CH. 20.000

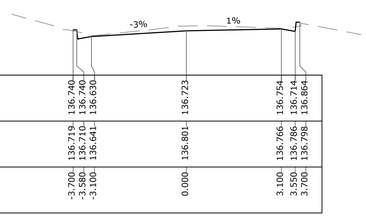


R.L.136.000

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DESIGN SURFACE	137.461	137.461																					
EXISTING SURFACE	136.903	136.975																					
DESIGN OFFSET	3.100	3.700																					

CH. 10.000

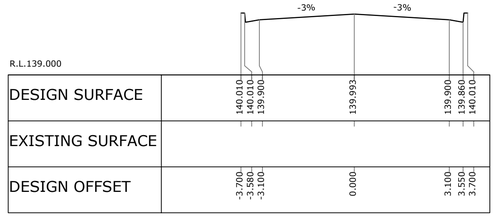


R.L.136.000

DESIGN SURFACE	136.740	136.740	136.630																136.723				
EXISTING SURFACE	136.719	136.710	136.641																136.801				
DESIGN OFFSET	-3.700	-3.580	-3.100																0.000				

DESIGN SURFACE	136.754	136.714	136.864																				
EXISTING SURFACE	136.766	136.786	136.798																				
DESIGN OFFSET	3.100	3.550	3.700																				

CH. 0.000



R.L.139.000

DESIGN SURFACE	140.010	140.010	139.900																139.993				
EXISTING SURFACE																							
DESIGN OFFSET	-3.700	-3.580	-3.100																0.000				

DESIGN SURFACE	139.900	139.860	140.010																				
EXISTING SURFACE																							
DESIGN OFFSET	3.100	3.550	3.700																				

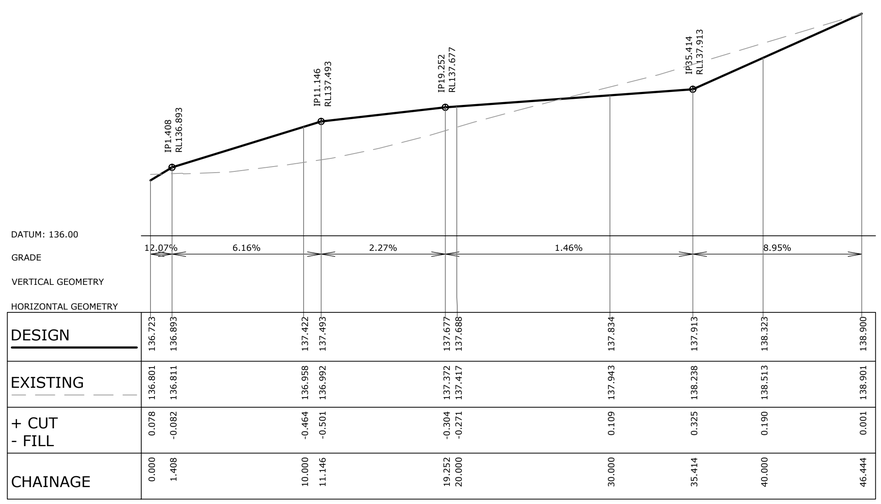
CH. 46.444

R.L.137.000

DESIGN SURFACE	138.340	138.340	138.230																138.323				
EXISTING SURFACE																							
DESIGN OFFSET	-3.700	-3.580	-3.100																0.000				

DESIGN SURFACE	138.230	138.190	138.340																				
EXISTING SURFACE																							
DESIGN OFFSET	3.100	3.550	3.700																				

CH. 40.000



DESIGN	136.723	136.893																	137.422	137.493			
EXISTING	136.801	136.811																	136.958	136.992			
+ CUT - FILL	0.078	-0.082																	-0.464	-0.501			
CHAINAGE	0.000	1.408																	10.000	11.146			

DESIGN	137.677	137.688																	137.834				
EXISTING	137.372	137.417																	137.943				
+ CUT - FILL	-0.304	-0.271																	0.109				
CHAINAGE	19.252	20.000																	30.000				

DESIGN	137.913																						
EXISTING	138.238																						
+ CUT - FILL	0.325																						
CHAINAGE	35.414																						

DESIGN	138.323																						
EXISTING	138.513																						
+ CUT - FILL	0.190																						
CHAINAGE	40.000																						

DESIGN	138.900																						
EXISTING	138.901																						
+ CUT - FILL	0.001																						
CHAINAGE	46.444																						

CROSS SECTIONS PROFILE - DARWINIA DRIVE

HORIZONTAL SCALE 1 : 100

VERTICAL SCALE 1 : 50

LONGITUDINAL SECTIONS PROFILE - DARWINIA DRIVE

HORIZONTAL SCALE 1 : 200

VERTICAL SCALE 1 : 40

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REV	AMENDMENT / REASON FOR ISSUE	DATE	DES.	DWN.
C	DA ISSUE	30.03.20	KL	IR
B	REVISED PRELIMINARY ISSUE	11.11.19	CV	CV
A	PRELIMINARY ISSUE	10.09.19	CV	IR

COORDS: ALL LEVELS TO A.H.D.
DATUM: MGA94 ZONE 56
SCALE: 1:100 HORIZ. 1:50 VERT.
SURVEYED:TSS SURVEY DATE:19.10.2018
APPROVED / PROJECT LEADER
C.CELESKI

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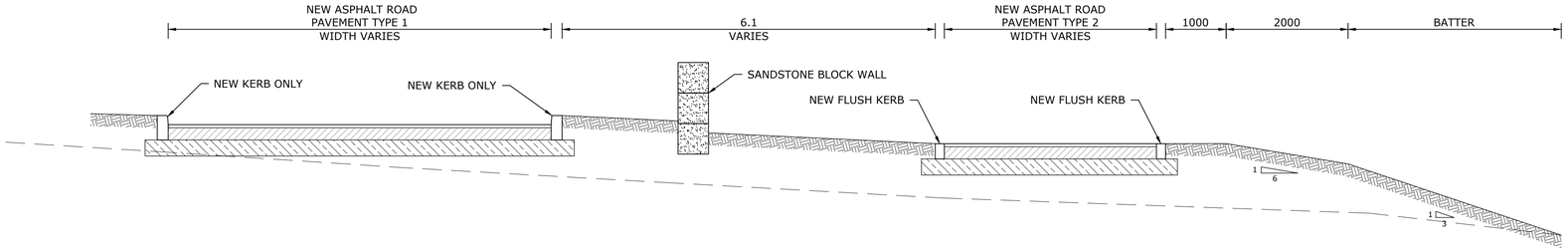
PROPOSED ACCESS ROAD DEVELOPEMENT
BUSHLAND CEMETERY, 1 HAKEA AVENUE
CROSS & LONGITUDINAL SECTIONS-DARWINIA DRIVE

FILENAME: 20190763_202 ROAD CROSS SECTIONS.DWG

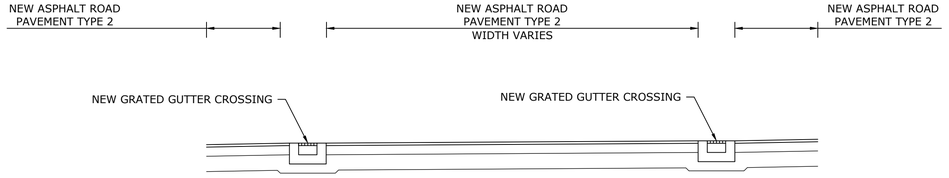
PROJECT NUMBER	DRAWING NUMBER	REVISION
20190763	202	C

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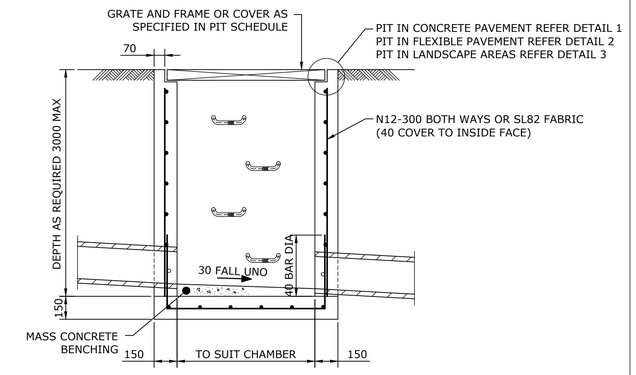
V:\2019\20190763 FRENCHES FOREST BUSHLAND CEMETERY - TAYLOR LAUDER BERSTEN\3_DEVELOPMENT\1 ACAD\01 DWG\20190763_202 ROAD CROSS SECTIONS.DWG -CROSS SECTIONS- (27-03-20 2:58:07PM)



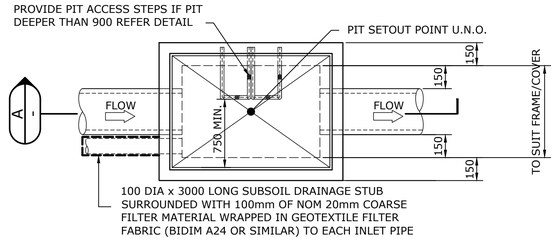
TYPICAL SECTION
SCALE 1:50



TYPICAL SECTION
SCALE 1:50

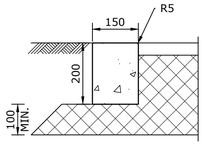


NOTE:IF REINFORCING FABRIC IS TO BE USED
REFER TO WALL AND CORNER DETAILS

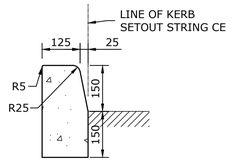


PLAN
SCALE 1:20

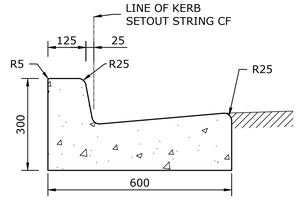
DETAIL JUNCTION/GRATED INLET PIT



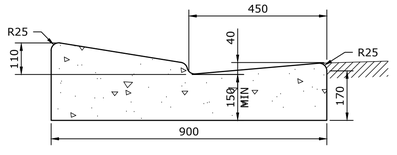
FLUSH KERB (FK)
SCALE 1 : 10



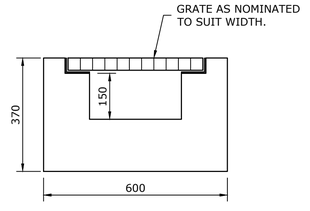
150 KERB ONLY (KO)
SCALE 1 : 10



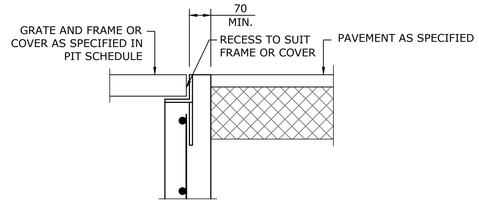
150 KERB AND GUTTER (K&G)
SCALE 1 : 10



LAYBACK VEHICULAR CROSSING
SCALE 1 : 10



GRATED GUTTER CROSSING
SCALE 1 : 10



DETAIL 2
SCALE 1: 10

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SHEET SIZE
A1

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REV	AMENDMENT / REASON FOR ISSUE	DATE	DES.	DWN.
B	DA ISSUE	30.03.20	KL	IR
A	PRELIMINARY ISSUE	10.09.19	CV	IR

COORDS:
DATUM:
SCALE: AS SHOWN
SURVEYED:
SURVEY DATE:
APPROVED / PROJECT LEADER
C.VELESKI

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PROPOSED ACCESS ROAD DEVELOPEMENT
BUSHLAND CEMETERY, 1 HAKEA AVENUE
TYPICAL DETAILS AND SECTIONS SHEET

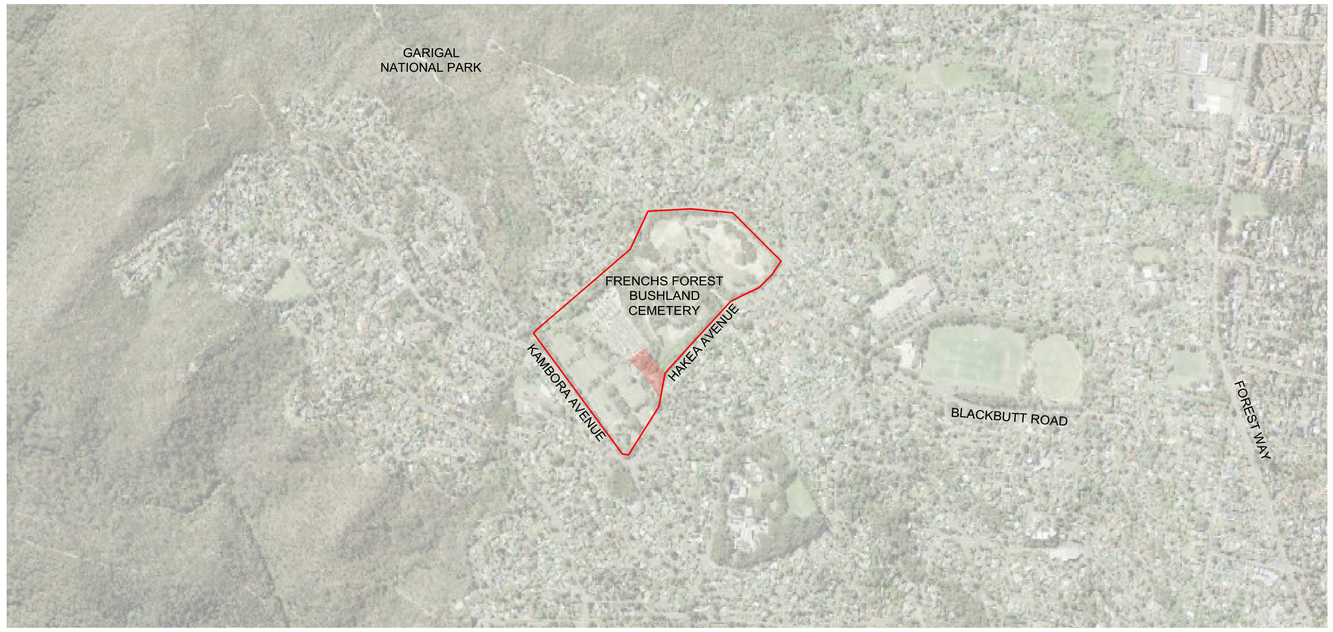
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PROJECT NUMBER: 20190763
DRAWING NUMBER: 300
REVISION: B

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V:\2019\20190763 FRENCHES FOREST BUSHLAND CEMETERY - TAYLOR LAUDER BERSTEN\3_DEVELOPMENT\1 ACAD\01 DWG\20190763_300 TYPICAL DETAIL.DWG -DETAILS1- (27-03-20 2:58:19PM)

FRENCHS FOREST BUSHLAND CEMETERY

LANDSCAPE DEVELOPMENT APPLICATION



DRAWING INDEX

LANDSCAPE DRAWINGS

L - 00	COVER SHEET
L - 01	SITE PLAN
L - 02	MATERIALS AND FINISHES
L - 03	PLANTING SCHEDULE
L - 04	PLANTING PALETTE
L - 11	FINISHES PLANS - 01
L - 12	FINISHES PLANS - 02
L - 13	FINISHES PLANS - 03
L - 14	FINISHES PLANS - 04
L - 21	PLANTING PLANS - 01
L - 22	PLANTING PLANS - 02
L - 23	PLANTING PLANS - 03
L - 24	PLANTING PLANS - 04
L - 31	LANDSCAPE SECTIONS - 01
L - 32	LANDSCAPE SECTIONS - 02
L - 41	LANDSCAPE DETAILS - 01
L - 42	LANDSCAPE DETAILS - 02
L - 51	LANDSCAPE SPECIFICATION - 01
L - 52	LANDSCAPE SPECIFICATION - 02
L - 53	LANDSCAPE SPECIFICATION - 03

A3 ORIGINAL

ISSUE	DATE	ISSUE / AMENDMENT DESCRIPTION
G	02-04-2020	ISSUED FOR DA
F	19-11-2019	ISSUED FOR DA
E	30-08-2019	ISSUED FOR DA
D	24-06-2019	PRELIMINARY
C	27-05-2019	PRELIMINARY

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spackman mossop michaels

PTY LTD ABN 65 065 578 985
P.O. Box 880
Darlinghurst NSW 1300

T: 02 9361 4549
F: 02 9361 4569
info@sm2group.com.au

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PROJECT

FRENCHS FOREST BUSHLAND CEMETERY

TITLE

COVER SHEET

DRAWING No.

L 00

SCALE

NORTH

REV NO.

G



ISSUE	DATE	ISSUE / AMENDMENT DESCRIPTION
G	02-04-2020	ISSUED FOR DA
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PROJECT

FRENCHS FOREST BUSHLAND CEMETERY

TITLE

SITE PLAN

DRAWING No.

L 01

SCALE

1:500

NORTH

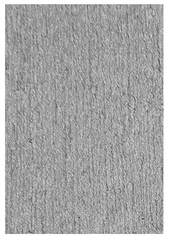
REV NO.

G

MATERIALS

ROAD

ROAD PAVEMENT TYPE 1 - R1
INSITU CONCRETE



TYPE: Insity Concrete with broom finish
LOCATION: Road to service sheds
COLOUR: Natural grey concrete
FINISH: Broom

PAVEMENT TYPE 1 - R2
PERMEABLE PAVEMENT



LOCATION: Accessible parking bays
PRODUCT: Ecotrihex
FINISH: Standard
COLOUR: Charcoal
Size: Suitable for vehicles

ROAD PAVEMENT TYPE 3 - R3
ASPHALT



LOCATION: Service Road

PAVEMENT TYPE 1 - P1
INSITU CONCRETE

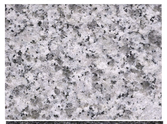


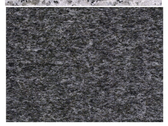
LOCATION: West and east of multipurpose room
PRODUCT: Insitu Concrete
FINISH: Light Washed exposed aggrigate finish
COLOUR: Natural Grey Concrete
AGGREGATE: River Pebble
COMPLIANCE: P5 slip rating to S4586

PLINTHS

OPTIONS

GRANITE





LOCATION: Ashes garden
PRODUCT: Granite (polished)
COLOUR: Dark Grey / Mid Gray in colour

PLAQUES

OPTIONS

BASALT



LOCATION: Ashes Garden
PRODUCT: Basalt (polished)
COLOUR: Basalt (black)

BRONZE



LOCATION: Ashes Garden

BLOCK WALL (BW)

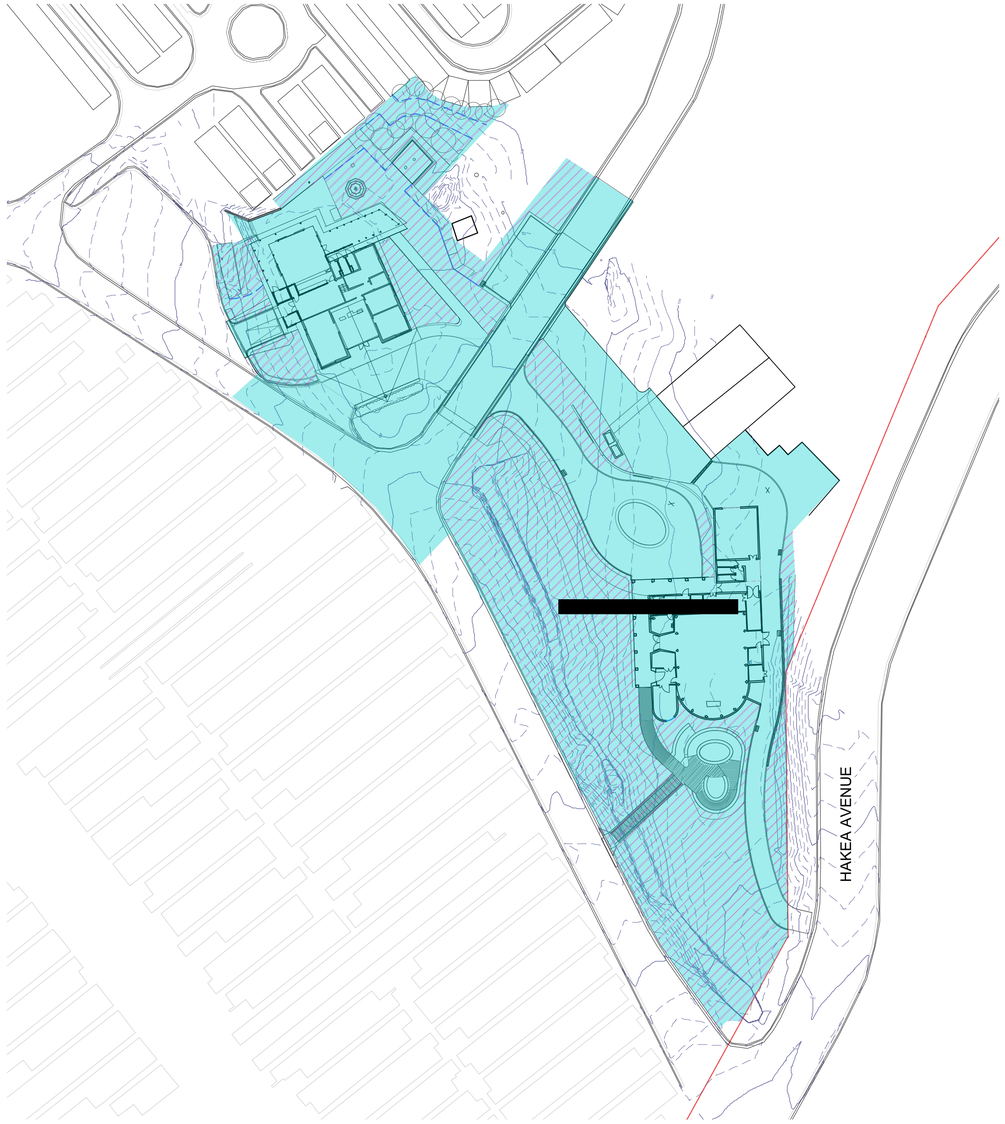
Concrete blockwork rendered with acrylic through-colour white

LOCATION: West of Chapel
COLOUR: White

RETAINING WALLS (RW)

MASONRY faced (reinforced concrete blockwork wall)

LOCATION: East of Chapel
PRODUCT: Masonry to match chapel
COLOUR: To match Chapel
SIZE: To match Chapel



ASHES GARDEN







WATER FEATURE



SITE AREA CALCULATIONS

Site Area = 6625m^2
Landsaped Open Space = 2887m^2

43.5% of site proposed to be Landscaped open space

ISSUE	DATE	ISSUE / AMENDMENT DESCRIPTION
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T: 02 9361 4549
F: 02 9361 4569
info@sm2group.com.au
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FRENCHS FOREST BUSHLAND CEMETERY

TITLE
MATERIALS AND FINISHES

DRAWING No.
L 02

SCALE

NORTH

REV NO.
G

TREES							
	BOTANICAL NAME	COMMON NAME	MATURE HEIGHT	MATURE SPREAD	CONTAINER SIZE	SPACING	QTY
TREES							
Ang cos	*Angophota costata*	Smooth Barked Apple	15m	15m	45L	10000	5
Ban ser	*Banksia serrata*	Old Man Banksia	10m	5m	200mm	4000	3
Cal cap	*Calodendrum capense*	Cape chestnut	10m	6-8m	200L	10000	1
Cor mac	*Corymbia maculata*	Spotted Gum	20m	10m	45L	10000	1
Ela ret	*Elaeocarpus reticulatus*	Blueberry Ash	6-9m	4m	100L	4000	7
Euc hae	*Eucalyptus haemastoma*	Scribbly Gum	30m	18m	100L	10000	2
Euc sco	*Eucalyptus scoparia*	Wallangarra White Gum	8 - 12m	5 - 10m	45L	10000	1

SHRUBS							
ID	BOTANICAL NAME	COMMON NAME	MATURE HEIGHT	MATURE SPREAD	CONTAINER SIZE	SPACING	QTY
SHRUBS							
Acm 'AM'	*Acmena smithii 'Allyn Magic'*	Compact Lilly Pilly	0.5 - 1m	0.75 - 1m	200mm	500	70
Acm smi	*Acmena smithii minor*	Lilly Pilly	3 -4m (maintained at 3m)	2.0 - 4m	45L (min. 2m height + 600mm wide) Established hedge	1000	1
Alp cae	*Alpina caerulea 'Atherton'*	Native Ginger	2m	1.5m	200mm	1000	20
Ban eri	*Banksia ericifolia sub. ericifolia*	Heath-leaved Banksia	1.5 - 3.5m	2m	200mm	750	73
Ban mar	*Banksia marginata*	Silver marginata	5m	3m	200mm	750	4
Ban ser	*Banksia serrata*	Old Man Banksia	10m	5m	200mm	4000	2
Ble nud	*Blechnum nudum*	Fishbone Fern	0.8m	0.8m	200mm	600	11
Call spp	*Callistemon spp*	Bottlebrush	(maintained to match existing)	1m	300mm	1000	2
Crin ped	*Crinum pedunculatum*	Swamp Lily	1.2m	0.6-1m	200mm	500	22
Ela eum	*Elaeocarpus eumundii*	Quandong	6-10m	3-4m	100L	4000	7
Ela ret	*Elaeocarpus reticulatus*	Blueberry Ash	6-9m	4m	100L	4000	5
Gre lan	*Grevillea lanigera 'Mt Tamboritha'*	Grevillea 'Mt Tamboritha'	0.3 - 0.5m	0.6 - 1.5m	150mm	500	6
Gre PC	*Grevillea 'Peaches and Cream'*	Grevillea	2m (maintained at 2m)	1.5 - 2m	300mm	1000	11
Gre Ro	*Grevillea rosmarinifolia 'Scarlet Sprite'*	Grevillea 'Scarlet Sprite'	0.8 - 1m	0.8 - 1m	200mm	600	17
Hym 'GN'	*Hymenosporum flavum 'Gold Nuggets'*	Compact Native frangipanni	0.75m	0.75m	200mm	500	12
Lam for	*Lambertia formosa*	Honey Flower	2m	1.5m	200mm	750	6
Lep tri	*Leptospermum trinervium*	Paperbark Tea-tree	4m	3m	200mm	2000	18
Mel thy	*Melaleuca thymifolia*	Thyme honey-myrtle	1.2m	1.2m	200mm	500	166
Mol cap	*Molineria capitulata*	Palm Grass	1m	1m	150mm	500	18
Per pin	*Persoonia pinifolia*	Pine-leaved Geebung	2.5m	1 - 4m	200mm	1000	29
Pim 'BP'	*Pimelea ferruginea 'Bonne Petite'*	Bonne Petite Rice Flower	1 - 1.2m	0.7m	150mm	500	113
Pim 'WJ'	*Pimelea 'White Jewel'*	White Jewel Rice Flower	0.3 - 0.4m	0.5 - 0.8m	150mm	500	125
Ple arg	*Plectranthus argentatus*	Sliver Plactranthus	1.2m	1.2m	200mm	700	6
Syz 'Cas'	*Syzygium luehmannii 'Cascade'*	Weeping Lilly Pilly	3 - 10m (maintained at 2m)	2 - 4m	300mm	700	21
Syz 'Cas'-45L	*Syzygium luehmannii 'Cascade'*	Weeping Lilly Pilly	3 - 10m (maintained at 2.5m)	2.0 - 4m	45L (min. 2m height + 600mm wide) Established hedge	1000	20
Wat flo	*Waterhousea floribunda '*	Weeping lilly pilly	6-12m	6m	100L	500	2
Wes 'AB'	*Westringia fruticosa 'Aussie Box'*	Westringia Aussie Box	0.3m	0.3 - 0.45m	200mm	500	100
Westringia 'LH'	*Westringia fruticosa 'WES04' Low Horizon*	Low Horizon	0.3m	0.7m	150mm	500	42
Xan med	*Xanthorrhoea media*	Grass Tree	1.5m	0.8m	200mm	500	15
						0	0

GROUNDCOVERS AND GRASSES							
	BOTANICAL NAME	COMMON NAME	MATURE HEIGHT	MATURE SPREAD	CONTAINER SIZE	SPACING (MM)	QTY
GROUNDCOVERS & CLIMBERS							
Bra mul	*Brachyscome multifida*	Cut leafed daisy	0.2m	0.6m	150mm	500	60
Cis ant	*Cissus antarctica*	kangaroo vine	2.5m (climber)	1-2m	150mm	750	4
Fic pum	*Ficus pumila*	Climbing fig	02m (climber)	1-2m	150mm	750	12
Gre jun	*Grevillea juniperus 'Gold Clusters'*	Grevillea 'Gold Clusters'	0.3m	0.8 - 1m	150mm	700	35
Gre lan	*Grevillea lanigera 'Mt Tamboritha'*	Grevillea 'Mt Tamboritha'	0.3 - 0.5m	0.6 - 1.5m	150mm	500	115
Har mee	*Hardenbergia 'Meema'*	Hardenbergia 'Meema'	0.5m	2.0m	150mm	750	25
Har vio	*Hardenbergia violacea*	Native sarsparilla	2.5m (climber)	2.0m	150mm	750	11
Hib ped	*Hibbertia pedunculata*	Guinea Flower	0.2 - 0.4m	0.3 - 0.6m	150mm	500	54
Hib sca	*Hibbertia scandens*	Guinea Flower	1 - 2m	0.5 - 2m	150mm	500	6
Myo par	*Myoporum parvifolium*	Creeping Boobiala	0.2m	0.5 - 0.8m	150mm	600	177
Sta byz	*Stachys byzantina*	Lamb's Ears	0.2m	0.6m	150mm	500	8
Vio hed	*Viola hederacea*	Native violet	0.1m	0.5 - 1m	150mm	450	94
	BOTANICAL NAME	COMMON NAME	MATURE HEIGHT	MATURE SPREAD	CONTAINER SIZE	SPACING (MM)	QTY
GRASSES							
Lom GW	*Lomandra 'Great White'*	Great Whit Lomandra	0.4 - 0.5m	0.4 - 0.5m	150mm	500	106
Lom lon	*Lomandra longifolia*	Mat-Rush	1.2m	1.5m	150mm	500	60
Lom tan	*Lomandra tanika*	Tanika Lomandra	0.6m	0.6m	150mm	---	330
Poa poi	*Poa poiformis 'Kingsdale'*	Poa poiformis 'Kingsdale'	0.6m	0.6m	150mm	500	268

BOTANICAL NAME	COMMON NAME	MATURE SIZE	CONTAINER SIZE	RATE / m2	%	QTY
PLANT MIX (PM4) NATIVE GRASSES				AREA (m2)		49
NATIVE GRASSES						
Lomandra Tanika	Common Rapier-sedge	1 x 1	150mm	5	50	122
Poa poiformis 'Kingsdale'	Poa poiformis 'Kingsdale'	1 x 1	150mm	5	50	122

RIPARIAN PLANTING						
BOTANICAL NAME	COMMON NAME	MATURE SIZE	CONTAINER SIZE	RATE / m2	%	QTY
PLANT MIX (PM1) RIPARIAN (CREEKSIDE)				AREA (m2)		189
SHRUBS						
* *Bauera rubioides*	River Rose	0.5-1 x 2-3	150mm	2	15	57
NATIVE GRASSES & SEDGES						
* lepidosperma filiforme	Common Rapier-sedge	0.3-1 x 0.8	150mm	5	17	161
Baumea juncea	Bare Twig-rush	1 x 1	150mm	5	17	161
Ficinia nodosa	Knobbly Club-rush	0.5-1 x 1-2	150mm	5	17	161
Juncus usitatus	Common Rush	0.3-1 x 1	150mm	5	17	161
Lomandra filiformis	Wattle Mat-Rush	0.6 x 1	150mm	5	17	161
Lomandra longifolia	Spiny Mat-Rush	1.2 x 1.5	150mm	5	17	161
PLANT MIX (PM2) - RIPARIAN (HEATH)				AREA (m2)		1175
GROUNDCOVERS						
* *Cyathochaeta diandra*	Sheath Rush	1-1.5 x 1	150mm	4	5	235
SHRUBS						
* Baeckea brevifolia	Short Leaf Heath Myrtle	0.8 x 1	150mm	2	8	188
* Baeckea imbricata	Heath myrtle	1 x 0.6	150mm	2	8	188
* Banksia ericifolia subsp. ericifolia	Heath-leaved banksia	2- 4 x 2	150mm	1	10	118
* Boronia pinnata	Pink Boronia	0.5-1.5 x 0.8-1	150mm	2	8	188
* Kunzea capitata	Pink buttons	0.5-1 x 0.5	150mm	2	8	188
* Dampiera stricta	Blue Dampiera	0.2-0.4 x	150mm	5	8	470
* Dillwynia floribunda	Parrot Pea	1-1.5 x 1	150mm	2	9	212
* Dillwynia retorta	Heathy Parrot Pea	1-1.5 x 1	150mm	2	9	212
* Epacris microphylla	"Coral Heath "	0.6 x 0.6	150mm	2	9	212
* Epacris obtusifolia	Blunt-leaf heath	1 x 0.6	150mm	2	9	212
* *Leucopogon microphyllus*	Small-leaved White Beard	1 x 1	150mm	2	9	212
PLANT MIX (PM3) - RIPARIAN (HEATH SCREENING)				AREA (m2)		105
* Baeckea brevifolia	Short Leaf Heath Myrtle	0.8 x 1	150mm	2	6	13
* Baeckea imbricata	Heath myrtle	1 x 0.6	150mm	2	6	13
* Banksia ericifolia subsp. ericifolia	Heath-leaved banksia	2- 4 x 2	150mm	2	8	17
* Boronia pinnata	Pink Boronia	0.5-1.5 x 0.8-1	150mm	1	5	5
* Kunzea capitata	Pink buttons	0.5-1 x 0.5	150mm	2	5	10
* Dampiera stricta	Blue Dampiera	0.2-0.4 x	150mm	2	5	10
* Dillwynia floribunda	Parrot Pea	1-1.5 x 1	150mm	5	5	26
* Dillwynia retorta	Heathy Parrot Pea	1-1.5 x 1	150mm	2	5	10
* Epacris microphylla	Coral Heath "	0.6 x 0.6	150mm	2	5	10
* Epacris obtusifolia	Blunt-leaf heath	1 x 0.6	150mm	2	6	13
* *Leucopogon microphyllus*	Small-leaved White Beard	1 x 1	150mm	2	6	13
* Banksia serrata	Old Man Banksia	10 x 5	200mm	0.4	9	4
* Leptospermum squarrosum	Peach Blossom Tea tree	2 x 1.5	200mm	0.4	9	4
* Leptospermum trinervium	Paperbark Tea tree	3 x 3	200mm	0.5	10	5
* Persoonia pinifolia	Pine Leaved Geebung	2.5 x 1 - 4	200mm	0.5	10	5

TURF		
BOTANICAL NAME	COMMON NAME	QTY
TURF		216
Zoysia empire (or approved equal)	Zoysia Empire	216

PLANTING NOTES:

* Denotes species from plant communities occuring in soils derived from hawkesbury sandstone - COASTAL SANDSTONE HEATH MALLEE (S_HL08) and PCT 1824, AND SYDNEY NORTH EXPOSED SANDSTONE WOODLAND (S_DSF11) and PCT 1783.
- All Tree ferns located on site are to be retained and protected in place.
- All weed species along the creek ine and areas proposed for piparian planting and to be removed prior to planting works.
- All plants to be arranged in staggered rows.
- Plant and quantities on plans take precedence to those listed in the plant schedules.

PLANTING MIX PM1
- Plant grasses and sedges in groups (10 to 20 plants) of like species

PLANTING MIX PM2
- Plant *Banksia ericifolia subsp. ericifolia* in goups of 4 to 10 plants.
- Plant *Dampiera stricta* in goups of 10 to 15 plants.
- all other plants, plant in groups (6 to 10 plants) of like species

EXISTING TREE SCHEDULE			
CODE	BOTANICAL NAME	COMMON NAME	ACTION
High Retention Value Tree			
T204	Angophora costata	Smooth Barked Apple	RETAIN
T207	Eucalyptus pilularis	Blackbutt	RETAIN
T281	Angophora costata	Smooth Barked Apple	RETAIN
T285	Angophora costata	Smooth Barked Apple	RETAIN
Moderate Retention Value			
T196	Eucalyptus scoparia	Wallangarra white gum	RETAIN
T198	Eucalyptus globoidea	White Stringybark	RETAIN
T203	Angophora costata	Smooth Barked Apple	RETAIN
T205	Angophora costata	Smooth Barked Apple	RETAIN
T206	Syzygium paniculatum	Magenta Brush Cherry	RETAIN
T212	Eucalyptus scoparia	Wallangarra white gum	REMOVE
T213	Corymbia maculata	Spotted gum	REMOVE
T214	Eucalyptus saligna x botryoides	Hybrid Sydney Blue Gum	REMOVE
T217	Eucalyptus scoparia	Wallangarra white gum	REMOVE
T220	Eucalyptus scoparia	Wallangarra white gum	RETAIN
T221	Eucalyptus sieberi	Black Ash	RETAIN
T223	Eucalyptus scoparia	Wallangarra white gum	RETAIN
T282	Angophora costata	Smooth Barked Apple	RETAIN
T283	Eucalyptus globoidea	White stringybark	RETAIN
T353	Eucalyptus haemastoma	Scribbly gum	N/A. Not on site
T1453	Acacia elata	Cedar wattle	N/A. Not on site
T1454	Acacia elata	Cedar wattle	N/A. Not on site
T1457	Corymbia gummifera	Red bloodwood	N/A. Not on site
T1621	Eucalyptus scoparia	Wallangarra white gum	N/A. Not on site
T1636	Banksia serrata	Saw-toothed banksia	N/A. Not on site
T1640	Banksia serrata	Saw-toothed banksia	N/A. Not on site
T1646	Corymbia gummifera	Red bloodwood	N/A. Not on site
T1649	Acacia elata	Cedar wattle	N/A. Not on site
Low Retention Value			
T199	Ceratopetalum gummiferum	New South Wales Christmas bush	RETAIN
T200	Ceratopetalum gummiferum	New South Wales Christmas bush	RETAIN
T211	Eucalyptus scoparia	Wallangarra white gum	RETAIN
T215	Mangifera indica	Mango	REMOVE
T222	Eucalyptus nicholii	Narrow leaved black peppermint	RETAIN
T346	Acacia elata	Cedar wattle	N/A. Not on site
T354	Banksia serrata	Saw-toothed banksia	N/A. Not on site
T355	Melaleuca armillaris	Bracelet Honey Myrtle	N/A. Not on site
T1529	Eucalyptus sieberi	Black Ash	RETAIN
T1530	Eucalyptus globoidea	White stringybark	RETAIN
T1622	Ceratopetalum gummiferum	New South Wales Christmas bush	RETAIN
T1624	Ceratopetalum gummiferum	New South Wales Christmas bush	RETAIN
T1625	Ceratopetalum gummiferum	New South Wales Christmas bush	RETAIN
T1626	Ceratopetalum gummiferum	New South Wales Christmas bush	RETAIN
T1627	Ceratopetalum gummiferum	New South Wales Christmas bush	RETAIN
T1628	Ceratopetalum gummiferum	New South Wales Christmas bush	RETAIN
T1629	Cyathea australis	Rough tree fern	RETAIN
T1630	Ceratopetalum gummiferum	New South Wales Christmas bush	RETAIN
T1633	Leptospermum petersonii	Lemon scented tea tree	RETAIN
T1635	Ceratopetalum gummiferum	New South Wales Christmas bush	N/A. Not on site
T1637	Banksia serrata	Saw-toothed banksia	N/A. Not on site
T1638	Banksia serrata	Saw-toothed banksia	N/A. Not on site
T1641	Corymbia gummifera	Red bloodwood	N/A. Not on site
T1642	Allocasuarina littoralis	Black sheoak	N/A. Not on site
T1643	Eucalyptus sp.	Eucalypt	N/A. Not on site
T1644	Allocasuarina littoralis	Black sheoak	N/A. Not on site
T1647	Banksia serrata	Saw-toothed banksia	N/A. Not on site
T1648	Pittosporum undulatum	Sweet pittosporum	N/A. Not on site
T1650	Kunzea ambigua	White kunzea	N/A. Not on site
T1651	Kunzea ambigua	White kunzea	N/A. Not on site
T1652	Kunzea ambigua	White kunzea	N/A. Not on site
T1653	Allocasuarina littoralis	Black sheoak	N/A. Not on site
T1654	Pittosporum undulatum	Sweet pittosporum	N/A. Not on site
T1655	Pittosporum undulatum	Sweet pittosporum	N/A. Not on site
T1656	Corymbia gummifera	Red bloodwood	N/A. Not on site
Catergory U - Refer arborsts report			
T202	Angophora costata	Smooth Barked Apple	RETAIN
T208	Eucalyptus pilularis	Blackbutt	REMOVE
T209	Callistemon salignus	Willow bottlebrush	REMOVE
T210	Eucalyptus scoparia	Wallangarra white gum	REMOVE
T216	Eucalyptus scoparia	Wallangarra white gum	REMOVE
T284	Corymbia gummifera	Red bloodwood	REMOVE
T1453	Corymbia gummifera	Red bloodwood	N/A. Not on site
T1623	Melia azedarach	White cedar	REMOVE
T1631	Melia azedarach	White cedar	REMOVE
T1632	Morus nigra	Black mulberry	REMOVE
T1634	Leptospermum petersonii	Lemon scented tea tree	REMOVE
T1639	Banksia ericifolia	Heath-leaved Banksia	N/A. Not on site
T1645	Eucalyptus sp.	Eucalypt	N/A. Not on site

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PTY LTD ABN 65 065 578 985
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T: 02 9361 4549
F: 02 9361 4569
info@sm2group.com.au
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SCALE

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G

SHADE


* Lomandra longifolia - Mat Rush


Dianella caerulea - Blue Flax Lily


Viola hederacea - Native violet


Hymenosporum flavum 'Gold Nugget' - Native Frangipani


Helmholtzia glaberrima - Stream lily


Alpinia caerulea 'Atherton' - Native ginger

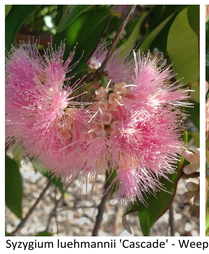

Molinera capitulata - Palm Grass

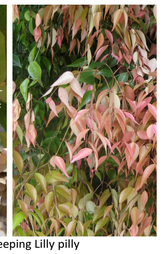

Plectranthus argentatus - silver spurflower

ORNAMENTAL NATIVE PLANTING


* Lambertia formosa - Honey flower, Mountain devil


*Leptospermum trinervium - Paperbark Tea-tree


Syzygium luehmannii 'Cascade' - Weeping Lilly pilly




Pimelea ferruginea 'Bonne Petite' - Rice Flower


Syzygium australe 'Tiny Trev' – Lilly Pilly


Lomandra Tanika - Tanika




Poa labillardieri 'ESKDALE' - Eskdale


Melaleuca thymifolia - Thyme honey-myrtle


Pimelea 'White Jewel' - Rice Flower


Scaevola humilis 'PFS100' Purple Fusion™ - Purple Fusion


Hibbertia pedunculata - Guinea Flower

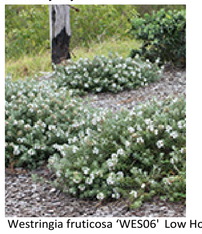

Grevillea lanigera 'Mt Tamboritha' - Mt Tamboritha


Grevillea juniperus 'gold clusters' - Grevillea 'gold clusters''




Themeda australis mingo - Kangaroo grass




Westringia fruticosa 'WES06' Low Horizon™ - Low Horizon

RIPARIAN - PLANT MIX A - HEATH


* Baeckea brevifolia - Short Leaf Heath Myrtle


* Baeckea imbricata - Heath Myrtle


* Borronia pinnata - Pink Boronia




* Kunzea capitata - Pink buttons


Banksia ericifolia subsp. ericifolia Heath-leaved banksia


* Dillwynia retorta - Heathy Parrot Pea


* Dillwynia floribunda - Parrot Pea


* Epacris microphylla - Coral Heath


* Leucopogon microphyllus - Hairy Beard-Heath

RIPARIAN - PLANT MIX B - CREEKSIDE


Cyathea cooperi - Lacy Tree Fern

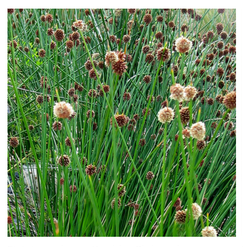

Elaeocarpus reticulatus - Blueberry ash




Lomandra longifolia - Mat Rush


Bauera rubioides - River Rose




Ficinia nodosa - Knobby Club rush


Juncus usitatus - Common Rush


Lomandra filiformis - Wattle Mat-Rush

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PTY LTD ABN 65 065 578 985
P.O. Box 880
Darlinghurst NSW 1300

T: 02 9361 4549
F: 02 9361 4569
info@sm2group.com.au

www.spackmanmossopmichaels.com
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PROJECT

FRENCHS FOREST BUSHLAND CEMETERY

TITLE

PLANTING PALETTE AND SCHEDULE

DRAWING No.

L 03

SCALE

NORTH

REV NO.

G



LEGEND

- EXISTING TREE RETAINED AND PROTECTED
- TPZ = TREE PROTECTION ZONE; SRZ = STRUCTURAL ROOT ZONE; REFER TO ARBORIST REPORT
- EXISTING TREE FERN RETAINED AND PROTECTED
- EXISTING TREE REMOVED
- PROPOSED TREE
- R1 — ROAD FINISH TYPE 1 - BROOM FINISH CONCRETE. REFER ENGINEERS DRAWINGS
- R2 — ROAD FINISH TYPE 2 - PERMEABLE PAVEMENT (ECOTRIHEX)
- R3 — ROAD FINISH TYPE 3 - ASHPALT REFER ENGINEERS DRAWINGS
- R4 — ROAD FINISH TYPE 4 - CONCRETE WITH APPLIED FINISH (TO MATCH EXISTING)
- P1 — PAVEMENT FINISH TYPE 1 - INSITU CONCRETE LIGHT EXPOSED AGGREGATE. REFER ENGINEERS DRAWINGS
- TU — TURF
- RI — RIPARIAN PLANTING
- HE — HEDGE / SCREENING
- EHE — EXISTING HEDGE RETAINED
- MP — MASS PLANTING BEDS. REFER PLANTING PLAN.
- MPi — IRRIGATED MASS PLANTING BEDS. REFER PLANTING PLAN.
- TD — TIMBER DECK TO ARCHITECTS SPECIFICATION
- GE1 — 500MM WIDE FLUSH GRANITE EDGE
- TE1 — TIMBER EDGE TO MATCH EXISTING (EE) TREATED PINE
- EE — EXISTING TIMBER EDGE TO RETAIN
- TE2 — TIMBER EDGE TYPE 2. REFER DETAILS.
- FK — CONCRETE FLUSH KERB. REFER ENGINEERS DRAWINGS.
- KO — CONCRETE KERB ONLY . REFER ENGINEERS DRAWINGS.
- KG — CONCRETE KERB AND GUTTER. REFER ENGINEERS DRAWINGS.
- SE — STEEL EDGE TYPE 1.
- CT — STAINLESS STEEL CABLE TRELLIS
- BA1 — 1.2m HIGH BALUSTRADE REFER DETAILS.
- BW — BLOCKWORK WALL - (White acrilyc render finish) (VARIES 1.8 TO 2.35m HIGH). REFER ENGINEERS DRAWINGS.
- WATER FEATURE
- GRANITE PLINTH WITH PLAQUES
- 137.0 — EXISTING CONTOURS
- 86.0 — PROPOSED CONTOURS
- +138.0 — EXISTING LEVELS
- +138.5 — PROPOSED LEVELS REFER ENGINEERS DRAWINGS.
- EXISTING SURFACE PIT LID/GRATE RETAINED AND PROTECTED
- ERW — EXISTING BRICK WALL TO BE RETAINED
- EXISTING PAVEMENT REMOVED
- PROPOSED BENCH SEAT
- EXTENT OF RIPARIAN ZONE
- CADASTRAL BOUNDARY

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FNISHES PLAN 01

DRAWING No.

L 11

SCALE

1:100

NORTH

REV NO.

G

SHEET L-11

SHEET L-13

MAINTENANCE SHED

EXISTING CONCRETE PAVEMENT RETAINED AND PROTECTED

EXISTING CREEK

Existing rock and plaque retained and protected

Tie into existing levels

HEADWALL Ø 1.5m IL 134.86m

RIPARIAN ZONE EXTENT

T196 T198 T199 T200 T216 T217 T1621 T1623 T207 T208 T215

LEGEND

- EXISTING TREE RETAINED AND PROTECTED
- TPZ = TREE PROTECTION ZONE; SRZ = STRUCTURAL ROOT ZONE; REFER TO ARBORIST REPORT
- EXISTING TREE FERN RETAINED AND PROTECTED
- EXISTING TREE REMOVED
- PROPOSED TREE

R1	ROAD FINISH TYPE 1 - BROOM FINISH CONCRETE. REFER ENGINEERS DRAWINGS
R2	ROAD FINISH TYPE 2 - PERMEABLE PAVEMENT (ECOTRIHEX)
R3	ROAD FINISH TYPE 3 - ASHPALT REFER ENGINEERS DRAWINGS
R4	ROAD FINISH TYPE 4 - CONCRETE WITH APPLIED FINISH (TO MATCH EXISTING)
P1	PAVEMENT FINISH TYPE 1 - INSITU CONCRETE LIGHT EXPOSED AGGREGATE. REFER ENGINEERS DRAWINGS
TU	TURF
RI	RIPARIAN PLANTING
HE	HEDGE / SCREENING
EHE	EXISTING HEDGE RETAINED
MP	MASS PLANTING BEDS. REFER PLANTING PLAN.
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	GRANITE PLINTH WITH PLAQUES
137.0	EXISTING CONTOURS
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+138.5	PROPOSED LEVELS REFER ENGINEERS DRAWINGS.
	EXISTING SURFACE PIT LID/GRATE RETAINED AND PROTECTED
ERW	EXISTING BRICK WALL TO BE RETAINED
	EXISTING PAVEMENT REMOVED
	PROPOSED BENCH SEAT
	EXTENT OF RIPARIAN ZONE
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TITLE
FNISHES PLAN 02

DRAWING No.
L 12

SCALE
1:100

NORTH

REV NO.
G

SHEET L-12

SHEET L-14

CHAPEL

ASHES GARDEN TBC

AVENUE

HAKEA

EXISTING CREEK

RIPARIAN BUFFER ZONE LINE

Demolish and remove existing bridge. Install new kerb and gutter.

Existing ornamental tree and plaque retained and protected

T200 T1622 T1624 T1625 T1626 T1627 T1628 T1629 T209 T206 T207 T208 T210 T211 T212 T213 T214

TOW +140.10 TOW +141.10 TOW +140.90 TOW +139.00

LEGEND

- EXISTING TREE RETAINED AND PROTECTED
- TPZ = TREE PROTECTION ZONE; SRZ = STRUCTURAL ROOT ZONE; REFER TO ARBORIST REPORT
- EXISTING TREE FERN RETAINED AND PROTECTED
- EXISTING TREE REMOVED
- PROPOSED TREE

R1	ROAD FINISH TYPE 1 - BROOM FINISH CONCRETE. REFER ENGINEERS DRAWINGS
R2	ROAD FINISH TYPE 2 - PERMEABLE PAVEMENT (ECOTRIHEX)
R3	ROAD FINISH TYPE 3 - ASHPALT REFER ENGINEERS DRAWINGS
R4	ROAD FINISH TYPE 4 - CONCRETE WITH APPLIED FINISH (TO MATCH EXISTING)
P1	PAVEMENT FINISH TYPE 1 - INSITU CONCRETE LIGHT EXPOSED AGGREGATE. REFER ENGINEERS DRAWINGS
TU	TURF
RI	RIPARIAN PLANTING
HE	HEDGE / SCREENING
EHE	EXISTING HEDGE RETAINED
MP	MASS PLANTING BEDS. REFER PLANTING PLAN.
MPi	IRRIGATED MASS PLANTING BEDS. REFER PLANTING PLAN.
TD	TIMBER DECK TO ARCHITECTS SPECIFICATION
GE1	500MM WIDE FLUSH GRANITE EDGE
TE1	TIMBER EDGE TO MATCH EXISTING (EE) TREATED PINE
EE	EXISTING TIMBER EDGE TO RETAIN
TE2	TIMBER EDGE TYPE 2. REFER DETAILS.
FK	CONCRETE FLUSH KERB. REFER ENGINEERS DRAWINGS.
KO	CONCRETE KERB ONLY . REFER ENGINEERS DRAWINGS.
KG	CONCRETE KERB AND GUTTER. REFER ENGINEERS DRAWINGS.
SE	STEEL EDGE TYPE 1.
CT	STAINLESS STEEL CABLE TRELLIS
BA1	1.2m HIGH BALUSTRADE REFER DETAILS.
BW	BLOCKWORK WALL - (White acrilyc render finish) (VARIES 1.8 TO 2.35m HIGH). REFER ENGINEERS DRAWINGS.
	WATER FEATURE
	GRANITE PLINTH WITH PLAQUES
137.0	EXISTING CONTOURS
86.0	PROPOSED CONTOURS
+138.0	EXISTING LEVELS
+138.5	PROPOSED LEVELS REFER ENGINEERS DRAWINGS.
	EXISTING SURFACE PIT LID/GRATE RETAINED AND PROTECTED
ERW	EXISTING BRICK WALL TO BE RETAINED
	EXISTING PAVEMENT REMOVED
	PROPOSED BENCH SEAT
	EXTENT OF RIPARIAN ZONE
	CADASTRAL BOUNDARY

ISSUE	DATE	ISSUE / AMENDMENT DESCRIPTION
G	02-04-2020	ISSUED FOR DA
F	19-11-2019	ISSUED FOR DA
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D	24-06-2019	PRELIMINARY
C	27-05-2019	PRELIMINARY

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PREPARED BY
spackman mossop michaels
PTY LTD ABN 65 065 578 985
P.O. Box 880
Darlinghurst NSW 1300
T: 02 9361 4549
F: 02 9361 4569
info@sm2group.com.au
www.spackmanmossopmichaels.com
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PROJECT
FRENCHS FOREST BUSHLAND CEMETERY

TITLE
FNISHES PLAN 03

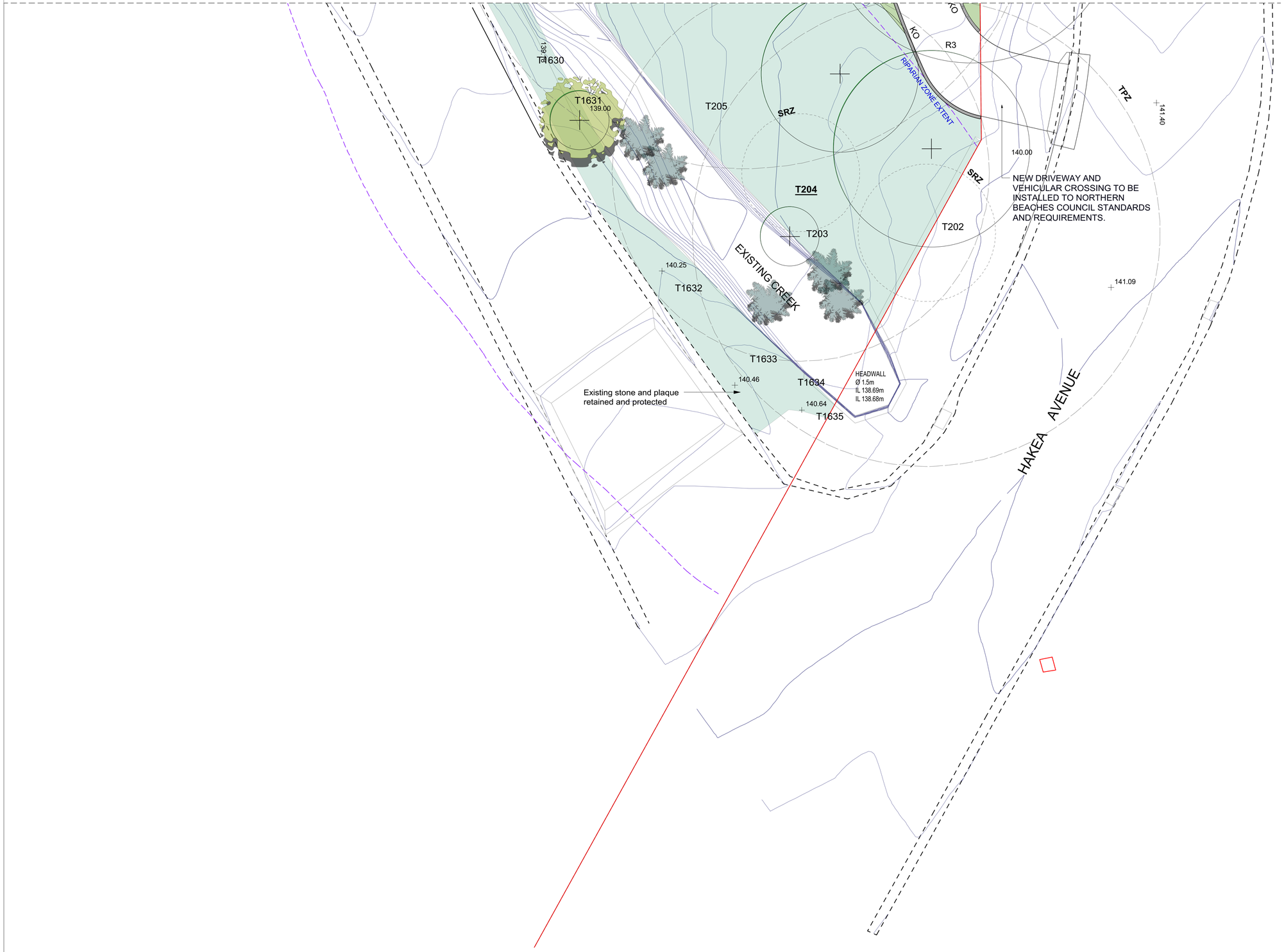
DRAWING No.
L 13

SCALE
1:100

NORTH

REV NO.
G

SHEET L-13



LEGEND

- T207 — EXISTING TREE RETAINED AND PROTECTED
- TPZ / SRZ — TPZ = TREE PROTECTION ZONE; SRZ = STRUCTURAL ROOT ZONE; REFER TO ARBORIST REPORT
- EXISTING TREE FERN RETAINED AND PROTECTED
- T208 — EXISTING TREE REMOVED
- PROPOSED TREE
- R1 — ROAD FINISH TYPE 1 - BROOM FINISH CONCRETE. REFER ENGINEERS DRAWINGS
- R2 — ROAD FINISH TYPE 2 - PERMEABLE PAVEMENT (ECOTRIHEX)
- R3 — ROAD FINISH TYPE 3 - ASHPALT; REFER ENGINEERS DRAWINGS
- R4 — ROAD FINISH TYPE 4 - CONCRETE WITH APPLIED FINISH (TO MATCH EXISTING)
- P1 — PAVEMENT FINISH TYPE 1 - INSITU CONCRETE LIGHT EXPOSED AGGREGATE. REFER ENGINEERS DRAWINGS
- TU — TURF
- RI — RIPARIAN PLANTING
- HE — HEDGE / SCREENING
- EHE — EXISTING HEDGE RETAINED
- MP — MASS PLANTING BEDS. REFER PLANTING PLAN.
- MPi — IRRIGATED MASS PLANTING BEDS. REFER PLANTING PLAN.
- TD — TIMBER DECK TO ARCHITECTS SPECIFICATION
- GE1 — 500MM WIDE FLUSH GRANITE EDGE
- TE1 — TIMBER EDGE TO MATCH EXISTING (EE) TREATED PINE
- EE — EXISTING TIMBER EDGE TO RETAIN
- TE2 — TIMBER EDGE TYPE 2. REFER DETAILS.
- FK — CONCRETE FLUSH KERB. REFER ENGINEERS DRAWINGS.
- KO — CONCRETE KERB ONLY . REFER ENGINEERS DRAWINGS.
- KG — CONCRETE KERB AND GUTTER. REFER ENGINEERS DRAWINGS.
- SE — STEEL EDGE TYPE 1.
- CT — STAINLESS STEEL CABLE TRELLIS
- BA1 — 1.2m HIGH BALUSTRADE REFER DETAILS.
- BW — BLOCKWORK WALL - (White acrilyc render finish) (VARIES 1.8 TO 2.35m HIGH). REFER ENGINEERS DRAWINGS.
- WATER FEATURE
- GRANITE PLINTH WITH PLAQUES
- 137.0 — EXISTING CONTOURS
- 86.0 — PROPOSED CONTOURS
- +138.0 — EXISTING LEVELS
- +138.5 — PROPOSED LEVELS REFER ENGINEERS DRAWINGS.
- EXISTING SURFACE PIT LID/GRATE RETAINED AND PROTECTED
- ERW — EXISTING BRICK WALL TO BE RETAINED
- EXISTING PAVEMENT REMOVED
- PROPOSED BENCH SEAT
- EXTENT OF RIPARIAN ZONE
- CADASTRAL BOUNDARY

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TITLE

FNISHES PLAN 04

DRAWING No.

L 14

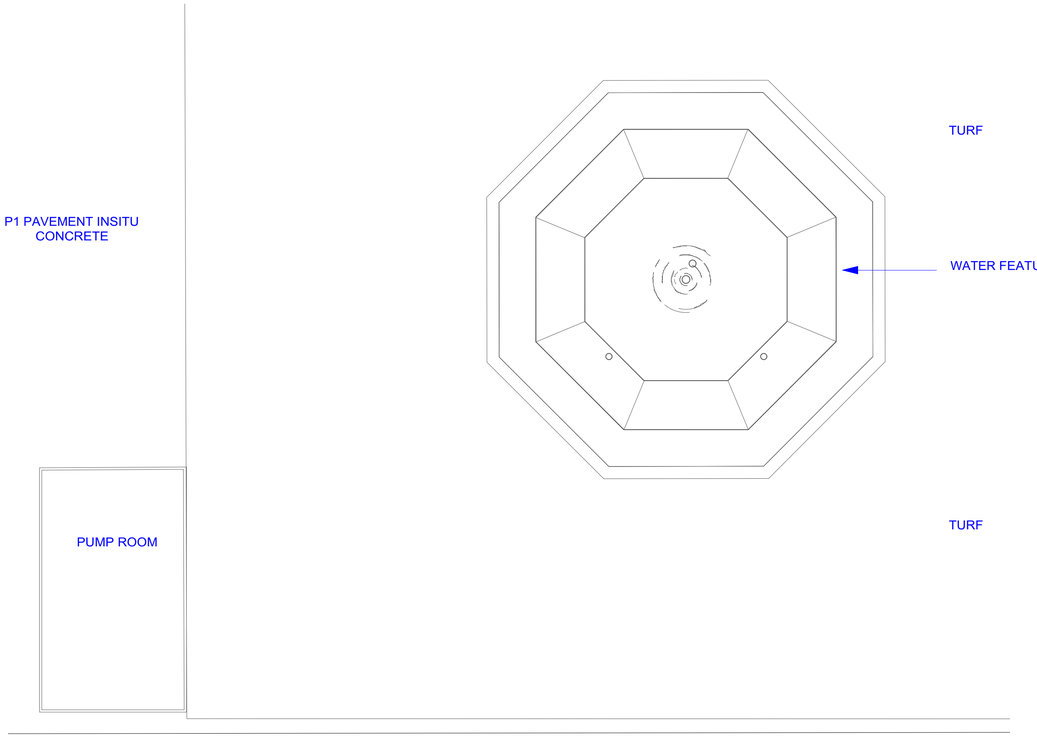
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1:100

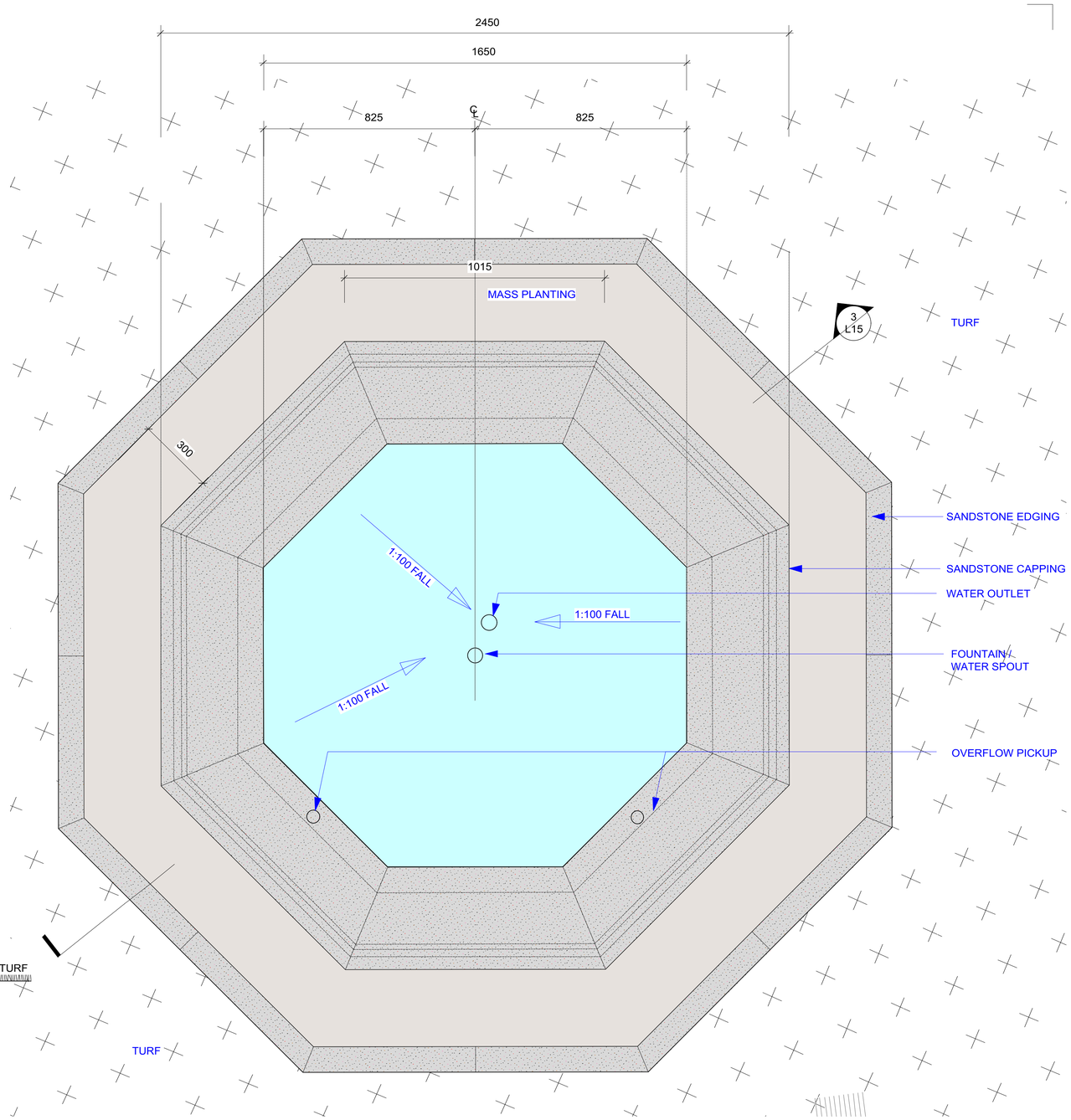
NORTH

REV NO.

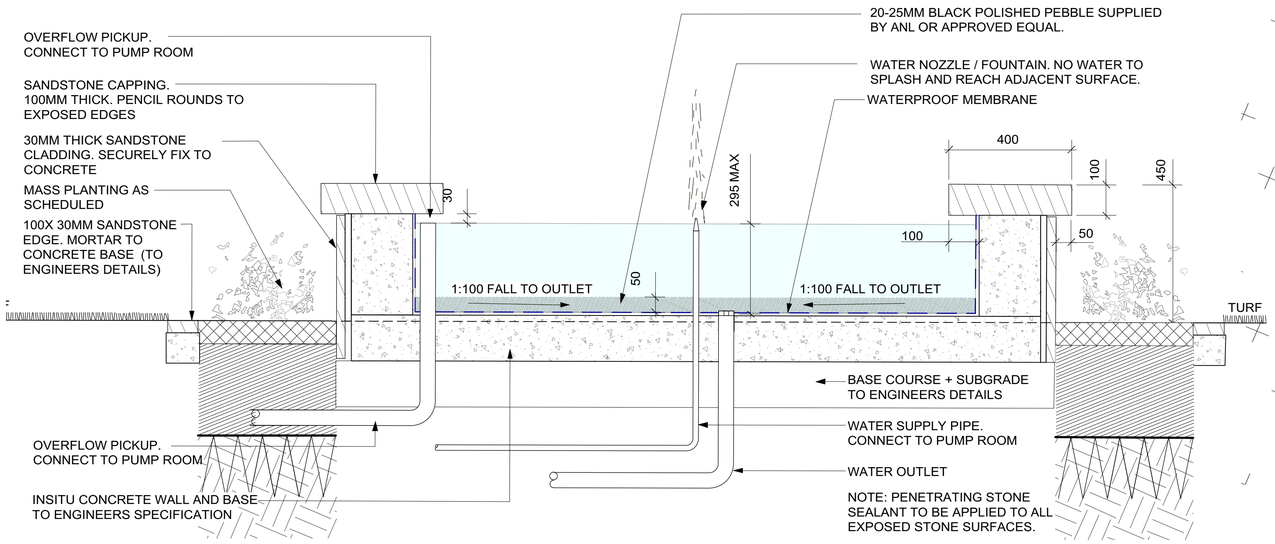
G



1 WATER FEATURE GENERAL ARRANGEMENT PLAN
1:25



2 WATER FEATURE DETAIL PLAN
1:10



NOTE: PENETRATING STONE SEALANT TO BE APPLIED TO ALL EXPOSED STONE SURFACES.

NOTE:
CONTRACTOR TO SIZE, SOURCE AND INSTALL APPROPRIATE BALANCE TANK, AUTOMATIC FLOAT VALVE AND ALL ASSOCIATED SERVICES TO ACHIEVE REQUIRED FLOW RATES AND CONSISTENT WATER LEVEL.
SHOP DRAWINGS: PROVIDE SHOP DRAWINGS FOR APPROVAL . REFER TO HYDRAULIC ENGINEERS DRAWINGS.

3 WATER FEATURE SECTION 1
1:10

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TITLE

FNISHES PLAN 04

DRAWING No. L 15

SCALE 1:20

NORTH

REV NO. G

1-Angophota costata
2-Lep tri
1-Ban ser
2-Ela eum
55-Lomandra tanika
5-Ela ret
40-Lom lon
5-Ela eum
EXISTING TURF RETAINED
7-Syz 'Cas'-45L
1-Acm smi
32-Lom tan
2-Bra mul
2-Sta byz
Tf-193 sq m
3-Bra mul
2-Wat flo
1-Angophota costata
1-Ban ser
T281
8-Syz 'Cas'-45L
Existing garden bed. Plants including hedging and trees to be retained and protected
Existing cockatoo sculpture retained and protected
2-Sta byz
17-Lom tan
2-Bra mul
2-Sta byz
2-Sta byz
3-Bra mul
T220
7-Lom tan
8-Vio hed
17-Lom tan
3-Mel thy
11-Gre PC
3-Har mee
17-Gre Ro
6-Bra mul
5-Mel thy
5-Poa poi
7-Gre lan
Tf-6 sq m
Tf-8 sq m
Existing entry sign retained and protected
Existing hedge retained and protected
1-Call spp
Species to match existing hedge.
Tf-10 sq m
1-Call spp
Species to match existing hedge.
Existing turf retained
Existing hedge retained and protected
13-Vio hed
5-Ble nud
9-Acm 'AM'
10-Lom tan
5-Ban eri
13-Gre lan
11-Mel thy
8-Lom GW
9-Pim 'WJ'
10-Gre lan
15-Wes 'AB'
11-Poa poi
2-Hib ped
7-Lom GW
5-Gre jun
10-Acm 'AM'
10-Lom tan
8-Pim 'BP'
12-Poa poi
8-Ban eri
6-Mel thy
24-Myo par
9-Pim 'WJ'
18-Wes 'AB'
3-Hib ped
3-Xan med
8-Pim 'BP'
3-Ban eri
5-Per pin
1-Ang cos
4-Mel thy
20-Poa poi
2-Lep tri
13-Gre lan
T284
6-Mel thy
15-Lom tan
20-Poa poi
3-Ban eri
8-Pim 'BP'
27-Myo par
3-Xan med
15-Lom tan
12-Lom tan
8-Hib ped
T1530
T285
T1529
9-Hib ped
T282
15-Poa poi
12-Lom tan
T283
13-Gre lan
5-Syz 'Cas'-45L
7-Gre jun
42-Westringia 'LH'
67-Mel thy
40-Pim 'BP'
14-Gre jun
1-Ang cos
11-Pim 'W.I'
T207
T208
TPZ
SRZ
KB/LIP
KB/TOP
KB BACK
KB LIP
BACK OF KERB
LIP OF KERB
DRAIN
SHEET L-12

LEGEND

- EXISTING TREE RETAINED
- TPZ = TREE PROTECTION ZONE
  SRZ = STRUCTURAL ROOT ZONE
  REFER TO ARBORIST REPORT
- EXISTING TREE FERN RETAINED
- EXISTING TREE REMOVED
- PROPOSED TREE
- PROPOSED TREE FERN
- TURF
- PROPOSED PLANTING (SHRUBS / HEDGE AND GROUND COVERS)
  REFER TO SCHEDULE
- PM1 — PLANTING MIX PM1 (RIPARIAN - CREEKSIDE).
  REFER PLANT SCHEDULE
- PM2 — PLANTING MIX PM2 (RIPARIAN - HEATH)
  REFER PLANT SCHEDULE
- PM3 — PLANTING MIX PM3 (RIPARIAN - HEATH SCREENING)
  REFER PLANT SCHEDULE
- EH — EXISTING HEDGE RETAINED

NOTE:
- REFER TO ARBORIST REPORT FOR ALL EXSTING TREES. REFER TO DRAWING L - 03 FOR EXISTING TREE SCHEDULE.
- REFER TO DRAWING L - 03 FOR PLANTING SCHEDULE

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FRENCHS FOREST BUSHLAND CEMETERY

TITLE
PLANTING PLAN 01

DRAWING No.
L 21

SCALE
1:100

NORTH

REV NO.
G

SHEET L-11

MAINTENANCE SHED

SHEET L-13

T196 T1623 T198 T216 T1621 T199 T200 T217 T215 T207 T208

KB LIP KB BACK BACK OF KERB LIP OF KERB

HEAD/WALL Ø 1.5m IL 134.98m

PARIAN ZONE EXTENT

42-Westringia 'LH'
67-Mel thy
40-Pim 'BP'
14-Gre jun
1-Ang cos
11-Pim 'WJ'
4-Per pin
13-Gre lan
18-Lom GW
3-Per pin
14-Lom tan
3-Syz 'Cas'
2-Fic pum
13-Lom GW
3-Har vio
2-Cis ant
42-Vio hed
11-Poa poi
5-Ban eri
8-Pim 'BP'
2-Fic pum
7-Wes 'AB'
7-Poa poi
8-Acm 'AM'
4-Alp cae
9-Lom tan
3-Fic pum
2-Cis ant
2-Har vio
7-Lom tan
8-Pim 'WJ'
10-Poa poi
3-Wes 'AB'
5-Bra mul
8-Mol cap
5-Bra mul
1-Euc hae
13-Poa poi
3-Mel thy
5-Bra mul
3-Har mee
6-Lom GW
9-Poa poi
10-Wes 'AB'
14-Gre lan
8-Pim 'WJ'
6-Lom GW
9-Poa poi
15-Mel thy
17-Pim 'WJ'
13-Lom GW
5-Bra mul
2-Xan med
3-Hib ped
13-Mel thy
14-Pim 'WJ'
7-Lom tan
21-Lom GW
19-Gre lan
9-Gre jun
11-Poa poi
28-Myo par
2-Xan med
3-Xan med
12-Pim 'WJ'
3-Pim 'BP'
15-Poa poi
15-Wes 'AB'
13-Hib ped
PM1-72 sq m
16-Bau rub
40-Bau jun
40-Jun usi
40-Lom fil
43-Lom lon
40-Fic nod
40-Car app
40-Mic sti
32-Opl aem
1-Ela ret
24-Myo par
Existing rock and plaque retained and protected
PM1-117 sq m
26-Bau rub
64-Fic nod
64-Jun usi
64-Lom fil
70-Lom lon
64-Bau jun
64-Car app
64-Mic sti
51-Opl aem
4-Pim 'BP'
4-Ban eri
5-Syz 'Cas'
14-Poa poi
5-Fic pum
7-Lom tan
21-Lom tan
8-Syz 'Cas'
13-Vio hed
2-Har mee
6-Mol cap
6-Gre lan
6-Alp cae
6-Lom tan
6-Acm 'AM'
5-Syz 'Cas'
7-Vio hed
6-Lom GW
4-Acm 'AM'
4-Mol cap
8-Lom GW
2-Xan med
12-Myo par
3-Har mee
3-Mel thy
6-Acm 'AM'
5-Bra mul
7-Poa poi
3-Hib ped
1-Cal cap
8-Poa poi
3-Per pin
4-Lom lon
3-Lam for
2-Hib sca
4-Poa poi
2-Har vio
4-Ban eri
4-Lom lon
2-Hib sca
4-Poa poi
2-Har vio

LEGEND

- EXISTING TREE RETAINED
- TPZ = TREE PROTECTION ZONE
  SRZ = STRUCTURAL ROOT ZONE
  REFER TO ARBORIST REPORT
- EXISTING TREE FERN RETAINED
- EXISTING TREE REMOVED
- PROPOSED TREE
- PROPOSED TREE FERN
- TURF
- PROPOSED PLANTING (SHRUBS / HEDGE AND GROUND COVERS) REFER TO SCHEDULE
- PM1 — PLANTING MIX PM1 (RIPARIAN - CREEKSIDE). REFER PLANT SCHEDULE
- PM2 — PLANTING MIX PM2 (RIPARIAN - HEATH) REFER PLANT SCHEDULE
- PM3 — PLANTING MIX PM3 (RIPARIAN - HEATH SCREENING) REFER PLANT SCHEDULE
- EH — EXISTING HEDGE RETAINED

NOTE:
- REFER TO ARBORIST REPORT FOR ALL EXSTING TREES. REFER TO DRAWING L - 03 FOR EXISTING TREE SCHEDULE.
- REFER TO DRAWING L - 03 FOR PLANTING SCHEDULE

Westringia fruticosa 'WES04' Grey Box™ - Grey Box

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TITLE
PLANTING PLAN 02

DRAWING No.
L 22

SCALE
1:100

NORTH

REV NO.
G

SHEET L-22

T200

Existing signs retained and protected

PM2-1175 sq m
188-Bae bre
188-Bae imb
118-Ban eri
188-Bor pin
188-Kun cap
470-Dam str
212-Dil flo
212-Dil ret
212-Epa mic
212-Epa obt
212-Leu mic
294-Cyo dia

T1622
T1624
T1625
T1626
T1627
T1628
T1629

1-Ela ret

9-Myo par

Demolish and remove existing bridge. Install new kerb and gutter.

18-Myo par

Existing ornamental tree and plaque retained and protected

1-Ela ret

7-Lom tan
15-Wes 'AB'
21-Pim 'BP'
6-Ban eri
1-Ela ret
13-Mel thy
13-Pim 'WJ'
8-Ban eri
13-Pim 'BP'
15-Lom tan
12-Hym 'GN'
11-Acm 'AM'
10-Crin ped
2-Ble nud
4-Alp cae
4-Har mee
6-Ple arg
8-Myo par
13-Mel thy
5-Hib ped
11-Pim 'WJ'
10-Lom tan
11-Vio hed
13-Pim 'WJ'
5-Bra mul
4-Har mee
9-Bra mul
4-Mel thy
13-Gre lan
2-Hib sca
2-Har vio

RIPARIAN BUFFER ZONE LINE

ASHES GARDEN TBC

TPZ

T209

2-Hib sca
2-Har vio
1-Ela ret
2-Har vio
2-Hib sca

T206

139.34

3-Har mee
2-Har vio
2-Hib sca
3-Har mee
17-Wes 'AB'

SRZ

T208

T207

SHEET L-24

4-Poa poi
4-Per pin
2-Har vio
1-Ban ser
4-Lom lon
3-Lam for
1-Ban mar
3-Lep tri
2-Hib sca
4-Lom tan
2-Har vio
4-Ban eri
4-Lom lon
2-Hib sca
3-Lom tan
6-Alp cae
7-Lom tan
12-Crin ped
14-Myo par
4-Ble nud
4-Poa poi
4-Lom lon
3-Ban eri
4-Lom tan
T214
4-Poa poi
16-Acm 'AM'
9-Lom tan
T213
4-Hib ped
5-Lep tri
3-Ban eri
2-Ban mar
8-Lom tan
3-Ban eri
T212
4-Hib ped
1-Ban ser
23-Poa poi
1-Cor mac
3-Ban eri
4-Lom tan
T211
3-Lep tri
13-Poa poi
11-Ban eri
1-Ban ser
3-Lep tri
10-Per pin
1-Euc sco
19-Poa poi
T210
1-Ban mar

TPZ
SRZ

PM4-49 sq m
122-Lom tan
122-Poa poi

LEGEND

- EXISTING TREE RETAINED
- TPZ = TREE PROTECTION ZONE
  SRZ = STRUCTURAL ROOT ZONE
  REFER TO ARBORIST REPORT
- EXISTING TREE FERN RETAINED
- EXISTING TREE REMOVED
- PROPOSED TREE
- PROPOSED TREE FERN
- TURF
- PROPOSED PLANTING (SHRUBS / HEDGE AND GROUND COVERS)
  REFER TO SCHEDULE
- PM1 — PLANTING MIX PM1 (RIPARIAN - CREEKSIDE).
  REFER PLANT SCHEDULE
- PM2 — PLANTING MIX PM2 (RIPARIAN - HEATH)
  REFER PLANT SCHEDULE
- PM3 — PLANTING MIX PM3 (RIPARIAN - HEATH SCREENING)
  REFER PLANT SCHEDULE
- EH — EXISTING HEDGE RETAINED

NOTE:
- REFER TO ARBORIST REPORT FOR ALL EXSTING TREES. REFER TO DRAWING L - 03 FOR EXISTING TREE SCHEDULE.
- REFER TO DRAWING L - 03 FOR PLANTING SCHEDULE

Westringia fruticosa 'WES04' Grey Box™
- Grey Box

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TITLE
PLANTING PLAN 03

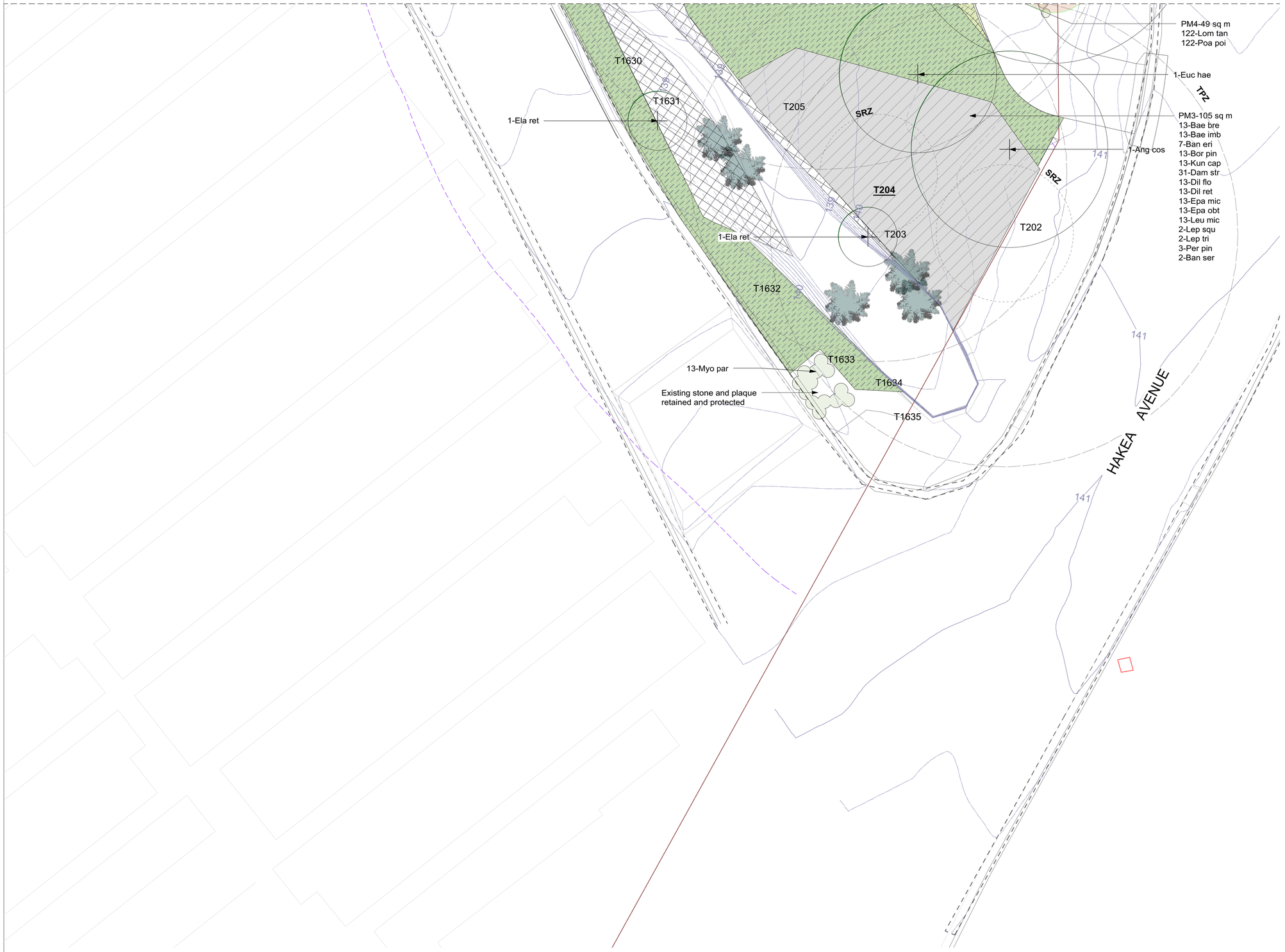
DRAWING No.
L 23

SCALE
1:100

NORTH

REV NO.
G

SHEET L-23



LEGEND

- EXISTING TREE RETAINED
- TPZ = TREE PROTECTION ZONE
  SRZ = STRUCTURAL ROOT ZONE
  REFER TO ARBORIST REPORT
- EXISTING TREE FERN RETAINED
- EXISTING TREE REMOVED
- PROPOSED TREE
- PROPOSED TREE FERN
- TURF
- PROPOSED PLANTING (SHRUBS / HEDGE AND GROUND COVERS)
  REFER TO SCHEDULE
- PM1 — PLANTING MIX PM1 (RIPARIAN - CREEKSIDE).
  REFER PLANT SCHEDULE
- PM2 — PLANTING MIX PM2 (RIPARIAN - HEATH)
  REFER PLANT SCHEDULE
- PM3 — PLANTING MIX PM3 (RIPARIAN - HEATH SCREENING)
  REFER PLANT SCHEDULE
- EH — EXISTING HEDGE RETAINED

NOTE:
- REFER TO ARBORIST REPORT FOR ALL EXSTING TREES. REFER TO DRAWING L - 03 FOR EXISTING TREE SCHEDULE.
- REFER TO DRAWING L - 03 FOR PLANTING SCHEDULE

Westringia fruticosa 'WES04' Grey Box™
- Grey Box

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C	27-05-2019	PRELIMINARY

A3 ORIGINAL

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PREPARED BY

spackman mossop michaels

PTY LTD ABN 65 065 578 985
P.O. Box 880
Darlinghurst NSW 1300

T: 02 9361 4549
F: 02 9361 4569
info@sm2group.com.au

www.spackmanmossopmichaels.com
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NORTHERN METROPOLITAN CEMETERIES TRUST

PROJECT

FRENCHS FOREST BUSHLAND CEMETERY

TITLE

PLANTING PLAN 04

DRAWING No.

L 24

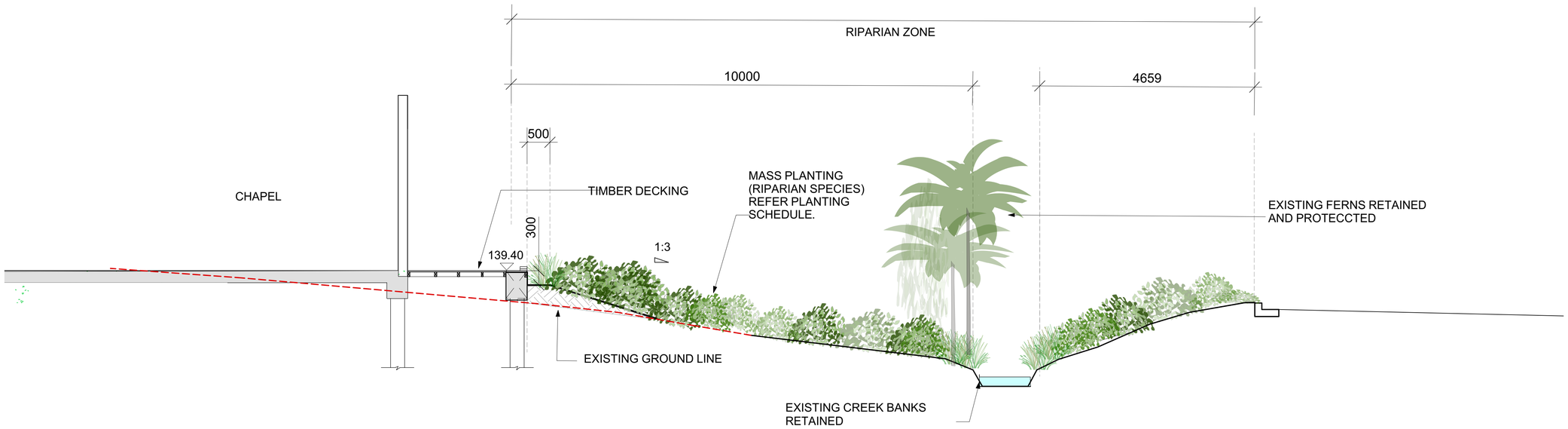
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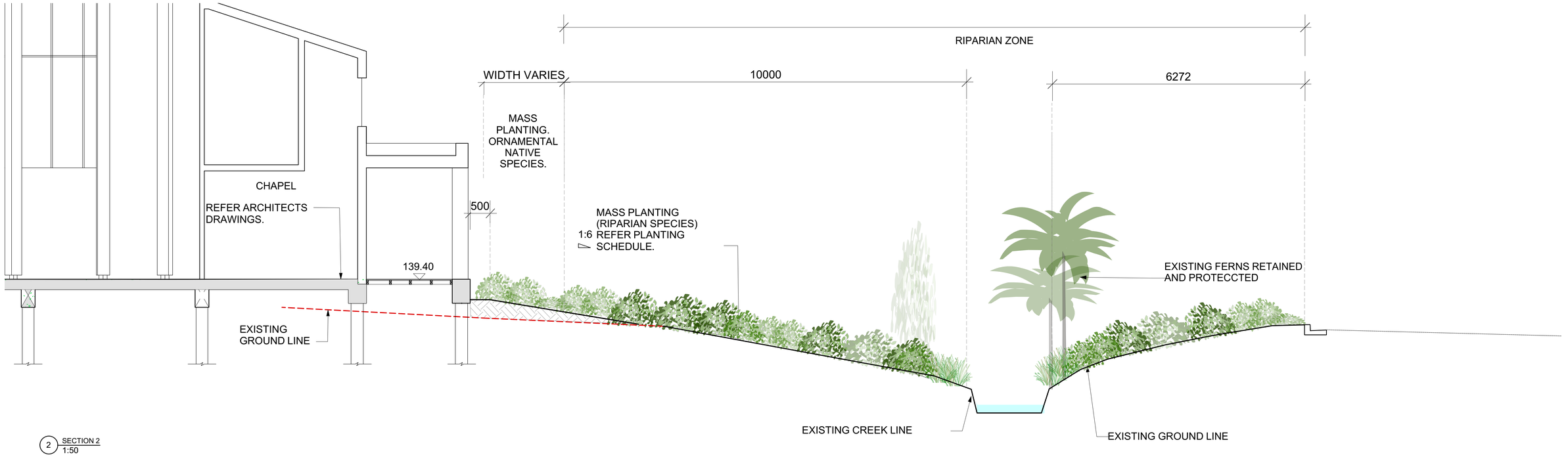
NORTH

REV NO.

G



1 SECTION 1
1:50



2 SECTION 2
1:50

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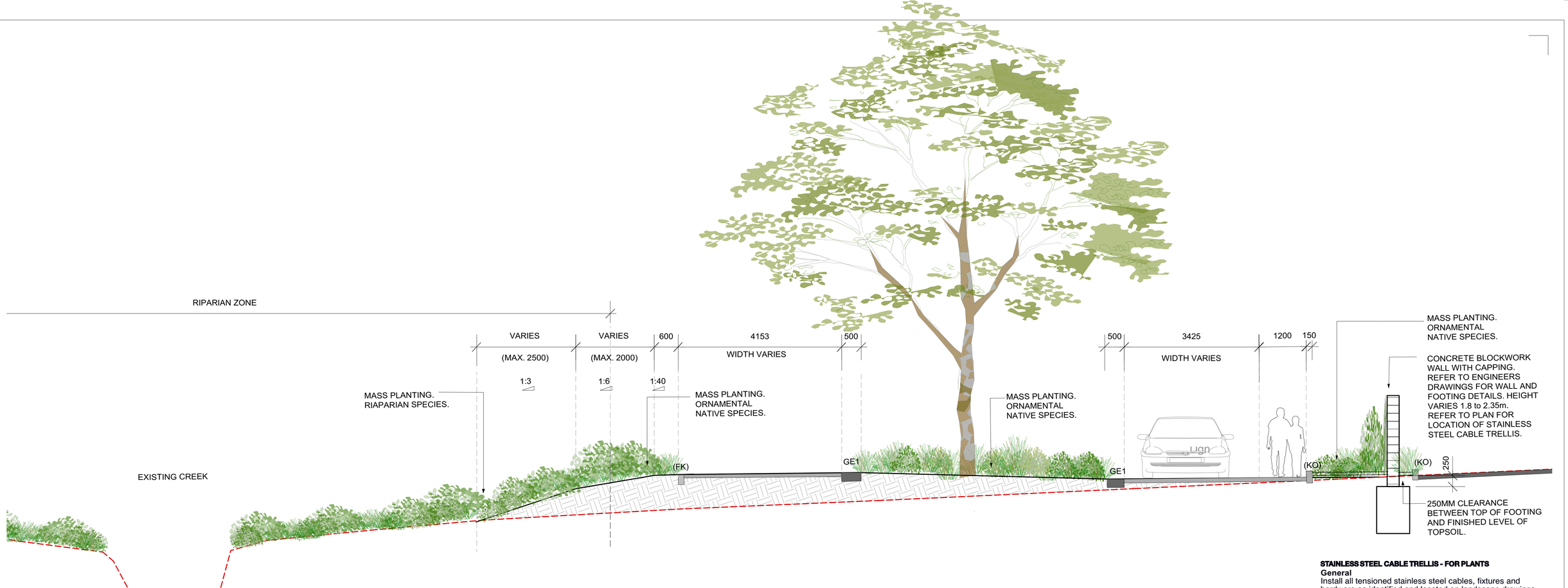
TITLE
LANDSCAPE SECTIONS 01

DRAWING No.
L 31

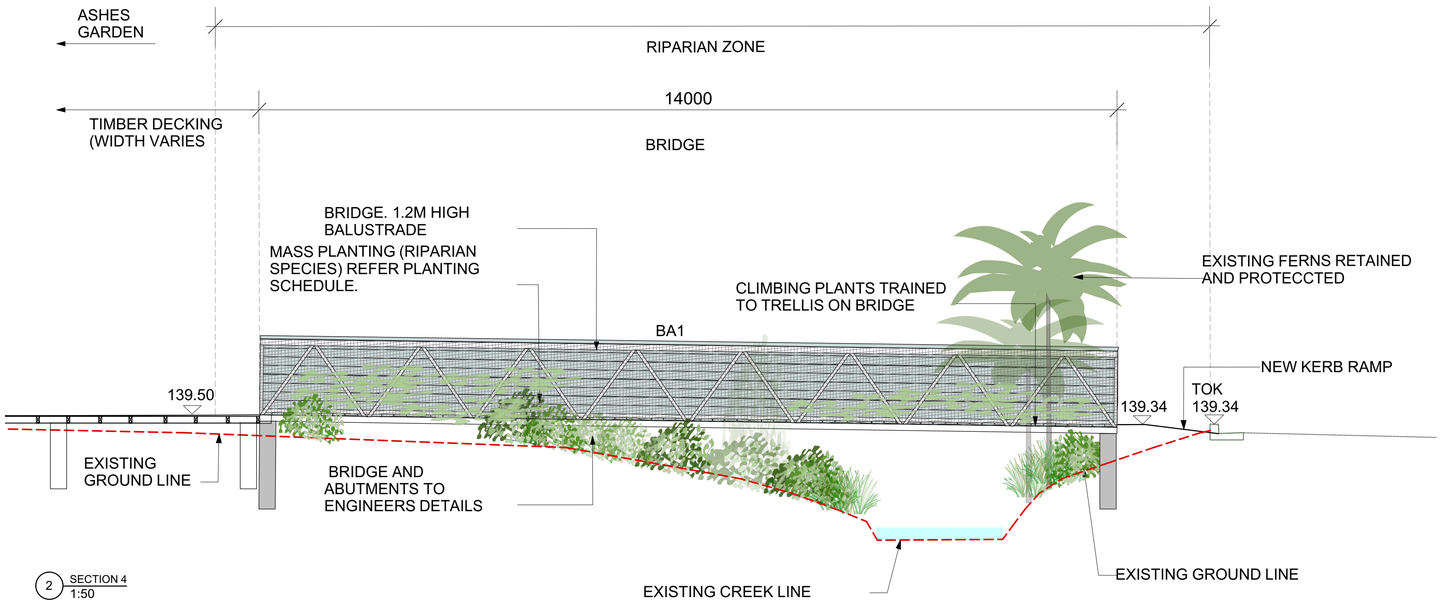
SCALE
1:50

NORTH

REV NO.
G



1 SECTION 3
1:50



2 SECTION 4
1:50

STAINLESS STEEL CABLE TRELLIS - FOR PLANTS
General
Install all tensioned stainless steel cables, fixtures and hardware as identified and located on landscape drawings.
Product: I - SYS by Ronstan or approved equal.
Installation: Fix to wall to Manufacturers recommendation.
Location: Blockwork wall. as shown on drawings. Install between 200mm to 1600mm abover finished ground line. Train climbing plants to trellis.
Finish: Stainless Steel

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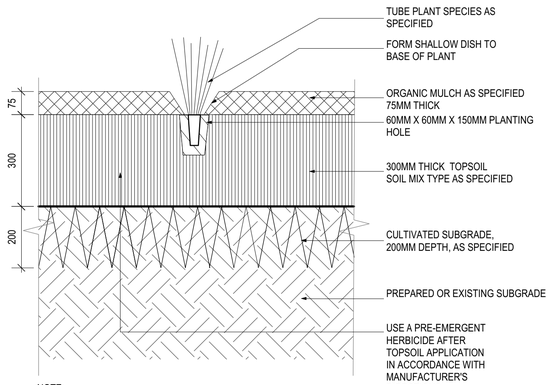
TITLE
LANDSCAPE SECTIONS 02

DRAWING No.
L 32

SCALE
1:50

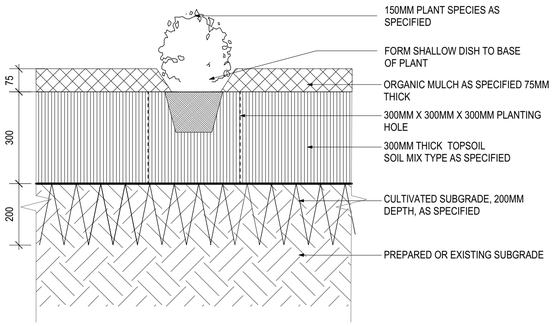
NORTH

REV NO.
G

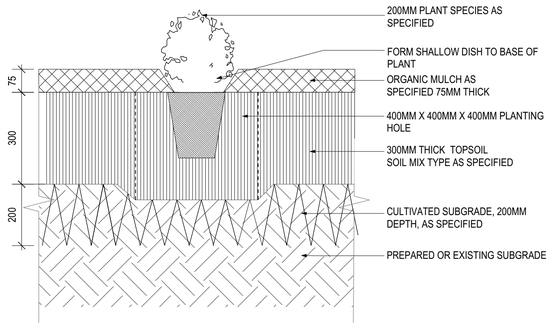


NOTE:
1. REFER LANDSCAPE PLANS FOR PLANTING AREAS.
2. PLANT SPACING AND POT SIZES OUTLINED IN SCHEDULES. REFER L-001

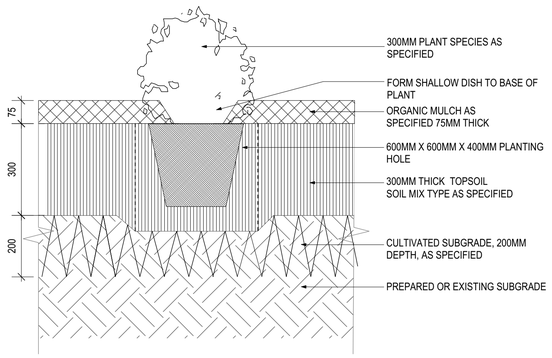
1 MASS PLANTING (1:3 AND FLATTER)
Scale 1:10



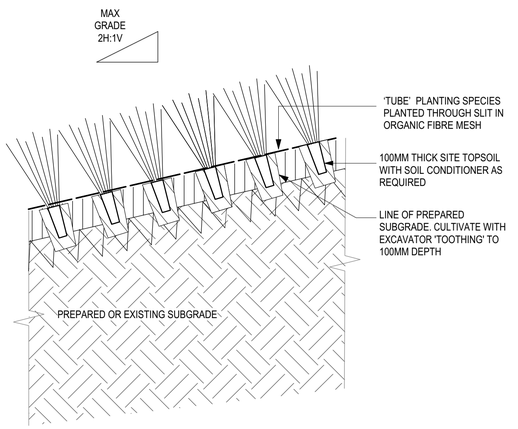
NOTE:
1. REFER LANDSCAPE PLANS FOR PLANTING AREAS.
2. PLANT SPACING AND POT SIZES OUTLINED IN SCHEDULES. REFER L-001



NOTE:
1. REFER LANDSCAPE PLANS FOR PLANTING AREAS.
2. PLANT SPACING AND POT SIZES OUTLINED IN SCHEDULES.
3. REFER SPECIFICATION FOR STAKING REQUIREMENTS. REFER L-52

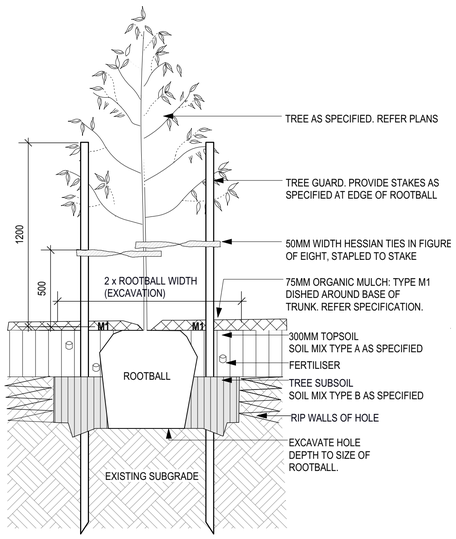


NOTE:
1. REFER LANDSCAPE PLANS FOR PLANTING AREAS.
2. PLANT SPACING AND POT SIZES OUTLINED IN SCHEDULES.
3. REFER SPECIFICATION FOR STAKING REQUIREMENTS. REFER L-52

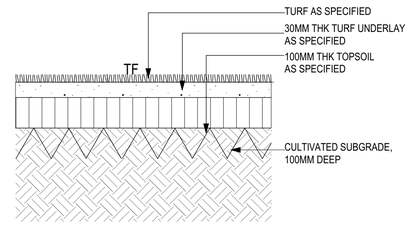


Note:
1. Refer landscape plans for planting areas.
2. Plant spacing and pot sizes outlined in schedules. Refer L-001
3. Organic fibre mesh to be Soil Saver Jute Mesh or approved equal. install to manufactuers recommendation.

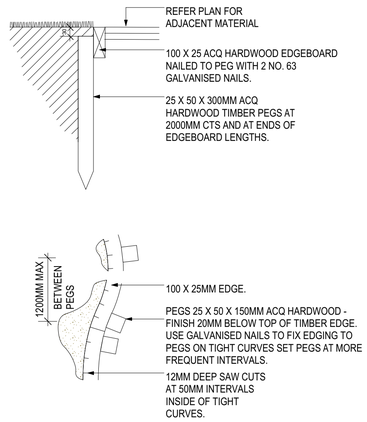
2 RIPARINA PLANING (PM2) ON EMBANKMENT (1:3 TO 1:2 EMBANKMENT)
Scale 1:10



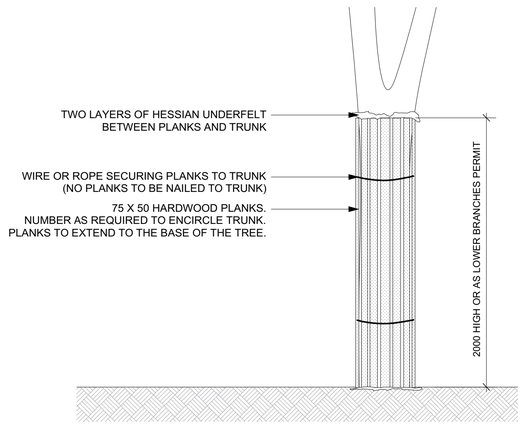
3 45L / 100L / 200L PLANTING IN MASS PLANTING BED
Scale 1:20



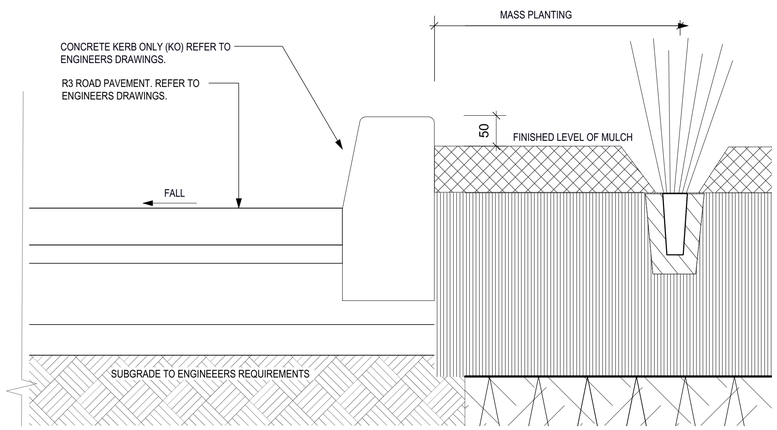
4 TURF
Scale 1:10



5 TIMBER EDGE TYPE 2 (E2)
Scale 1:10



6 Tree Protection
Scale 1:10



7 Concrete kerb only (KO)
Scale 1:10

TO ENGINEER DETAIL

8 STEEL EDGE TYPE 1 (SE) GALVANISED
Scale 1:10

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F: 02 9361 4569
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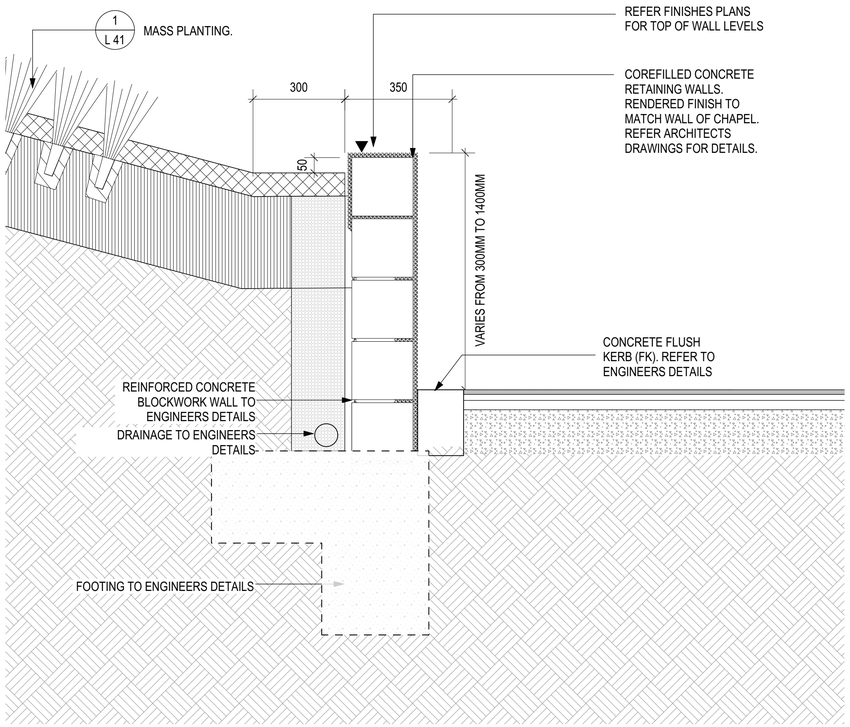
TITLE
LANDSCAPE DETAILS - 01

DRAWING No.
L 41

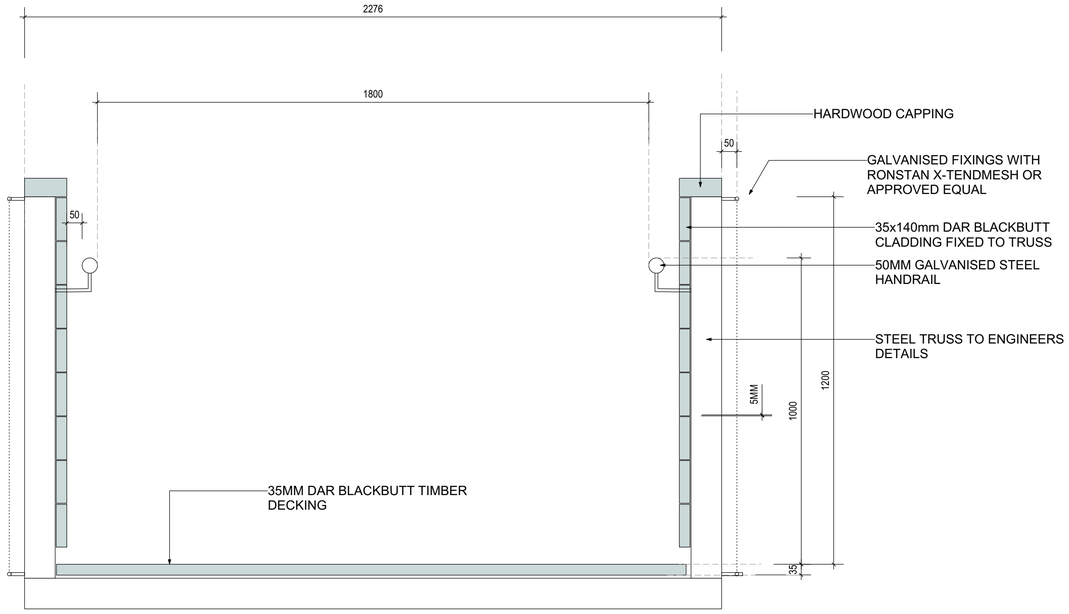
SCALE
VARIES

NORTH

REV NO.
G

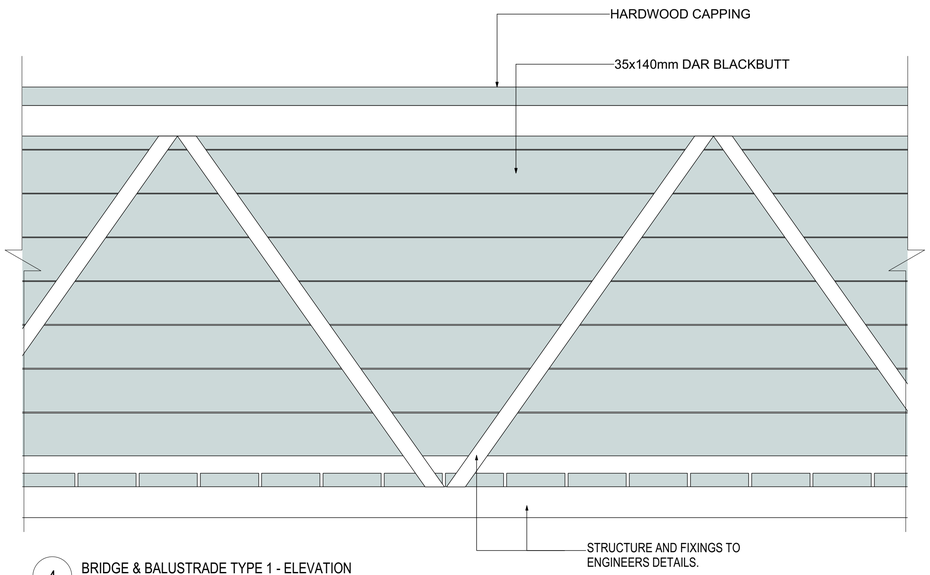


1 RETAINING WALL TYPE 1-TYPICAL SECTION
Scale 1:10



NOTE: ALL STRUCTURAL
ELEMENTS AND FIXINGS TO
ENGINEERS DETAILS.

3 BRIDGE & BALUSTRADE TYPE 1 - SECTION
Scale 1:10



4 BRIDGE & BALUSTRADE TYPE 1 - ELEVATION
Scale 1:10

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TITLE
LANDSCAPE DETAILS - 02

DRAWING No.
L 42

SCALE
VARIES

NORTH

REV NO.
G

0250 LANDSCAPE – GARDENING

1 GENERAL

1.1 RESPONSIBILITIES

General

Requirement: Provide landscaped gardening, as documented.
Plants: Provide plants that have been grown to a standard that allows them to establish rapidly and grow to maturity.
Maintenance: Encourage and maintain healthy growth for the duration of the contract.
Program: Provide a suitable irrigation, pruning, fertiliser and monitoring program for all plant materials held by the supplier. Take any other precautions required to safeguard the health and well-being of all plant materials before and including their delivery to site.

1.2 CROSS REFERENCES

General

Requirement: Conform to the following:
- *0254 Irrigation*
- *0256b Landscape – establishment*

1.3 INTERPRETATION

Definitions

General: For the purposes of this worksection the following definitions apply:
- Imported topsoil: Similar to naturally occurring local topsoil, suitable for the establishment and ongoing viability of the selected vegetation, free of weed propagules and of contaminants, and classified by texture to AS 4419 Appendix 1, as follows:
  - Fine: Clay loam, fine sandy loam, sandy clay loam, silty loam, loam.
  - Medium: Sandy loam, fine sandy loam.
  - Coarse: Sand, loamy sand.
- Site topsoil: Soil excavated from the site which contains organic matter, supports plant life, conforms generally to the fine-to-medium texture classification to AS 4419 (loam, silt, clay loam) and is free from:
  - Stones more than 25 mm diameter.
  - Clay lumps more than 75 mm diameter.
  - Weeds and tree roots.
  - Sticks and rubbish.
  - Material toxic to plants.

1.4 SUBMISSIONS

Certification

Species: Submit evidence of conformance to EXECUTION, **COMPLETION**, **Product Certification**.
Execution details
Program: Submit a work program in the form of a bar chart, for the landscape works.
Planting machine: If a planting machine is to be used as an alternative to hand planting, submit proposal.
Spraying: Submit proposal.
Plants – open rooted stock: If open rooted stock is to be used, submit proposal.
Material site storage: Submit proposal.
Maintenance manuals
General: Submit recommendations for maintenance of plants.

Materials
Supplier's data: Submit supplier's data including the following:
- Material source of supply.

Compost: Submit a certificate of proof of compost pH value.
Samples
General: Submit representative samples of each material, packed to prevent contamination and labelled to indicate source and content.
Bulk materials: Submit a 5 kg sample of each type specified. Submit bulk material samples, with required test results, at least 5 working days before bulk deliveries.

1.5 INSPECTION

Notice

Inspection: Give notice so that inspection may be made of the following:
- Setting out completed.
- Tree materials ordered and available for inspection at source of supply
- Plant material ordered and available for inspection at source of supply
- Plant material delivered to site
- Subgrades cultivated or prepared for placing topsoil.
- Irrigation system installed prior to topsoil spreading.
- Topsoil spread before planting.
- Grassing bed prepared before turfing.
- Grassing or turfing completed.
- Plant holes excavated and prepared for planting.
- Plant material set out before planting.
- Planting, staking and tying completed.
- Completion of planting establishment work.

2 PRODUCTS

2.1 TOPSOIL

Standard

Site and imported topsoil: To AS 4419.
Potting mixes: To AS 3743.
Composts, soil conditioners and mulches: To AS 4454.
Source
General: If the topsoil type cannot be provided from material recovered from site, provide imported topsoil.
Site topsoil
General: Provide site topsoil, as documented in **4.2 TOPSOIL**.
Soil blend: If required, stripped topsoil with ameliorants.
Imported topsoil
General: Provide imported topsoil as documented in **4.2 TOPSOIL**.
Topsoil particle size table (% passing by mass)

Sieve aperture (mm)	Soil textures		
	Fine	Medium	Coarse
2.36	100	100	100
1.18	90 – 100	90 – 100	90 – 100
0.60	75 – 100	75 – 100	70 – 90
0.30	57 – 90	55 – 85	30 – 46
0.15	45 – 70	38 – 55	10 – 22
0.075	35 – 55	25 – 35	5 – 10
0.002		2 – 15	2 – 8

Topsoil nutrient level table

Nutrient	Unit	Sufficiency range
Nitrate-N (NO_3)	mg/kg	> 25
Phosphate-P (PO_4) – P tolerant	mg/kg	43 - 63
Phosphate-P (PO_4) – P sensitive	mg/kg	< 28
Phosphate-P (PO_4) – P very sensitive	mg/kg	< 6
Potassium (K)	mg/kg	178 - 388
Sulphate-S (SO_4)	mg/kg	39 - 68
Calcium (Ca)	mg/kg	1200 - 2400
Magnesium (Mg)	mg/kg	134 - 289
Iron (Fe)	mg/kg	279 - 552
Manganese (Mn)	mg/kg	18 - 44
Zinc (Zn)	mg/kg	2.6 - 5.1
Copper (Cu)	mg/kg	4.5 - 6.3
Boron (B)	mg/kg	1.4 - 2.7
Method References		
pH in H_2O (1:5), pH in $CaCl_2$ (1:5) and Electrical Conductivity (EC) by Rayment & Higginson (1992) method 4A2, 4B2, 3A1		
Soluble Nitrate-N by APHA 4500		
Soluble Chloride by Rayment & Higginson (1992) modified method 5A2		
Extractable P by Mehlich 3 – ICP		
Exchangeable cations – Ca, Mg, K, Na by Mehlich 3 – ICP		
Extractable S by Mehlich 3 – ICP		
Extractable trace elements (Fe, Mn, Zn, Cu, B) by Mehlich 3 - ICP		

2.2 FERTILISER

General

Delivery: Provide proprietary fertilisers, delivered to the site in sealed bags marked to show manufacturer or vendor, weight, fertiliser type, N:P:K ratio, recommended uses and application rates to **Fertiliser schedule**.

2.3 MULCH

Requirement: Provide mulch which is free of deleterious and extraneous matter such as soil, weeds and sticks. Do not include fine mulch.
Standard:
- Particle size, physical and chemical contaminants: To AS 4454 Table 3.1(A).
- pH, electrical conductivity, ammonium, chlorine and other nutrients: To AS 3743 Table 2.1 for regular mix.

Organic mulches: Free of stones.
Mulch material: Brush chippings and leaf litter recovered from site clearing, if available; otherwise, pine bark.
Organic mulch types
Brush chippings and leaf litter: Vegetative material processed through a chipper to pieces not larger than 75 x 50 x 15 mm as follows:
- Material permitted: Leaf matter and tree loppings from *Eucalyptus, Tristania and Pinus species.*
- Material not permitted: Leaf matter and tree loppings from privet, camphor laurel, coral tree, poplar, willow, and noxious weeds.
- Pine bark: From mature trees, graded in size from 50 x 50 x 25 mm to 25 x 15 x 15 mm, free from wood slivers.

2.4 PLANTS - GENERAL

Supply

Supply trees with the following properties:
- Free from injury.
- Self-supporting.
- With calliper at any given point on the stem greater than the calliper at any higher point on the stem.
- Health: Foliage size, texture and colour at time of delivery consistent with that of healthy specimens for the nominated species.
- Vigour: Extension growth consistent with that exhibited in vigorous specimens of the species nominated.
- Damage: Free from damage and from restricted habit due to growth in nursery rows.
- Stress: Free from stress resulting from inadequate watering, excessive shade or excessive sunlight experienced at any time during their development.
- Site environment: Grown and hardened off to suit anticipated site conditions at the time of delivery.
- Root development: Grown in their final containers for the following periods:
  - Plants < 25 L size: More than 6 weeks.
  - Plants > 25 L size: More than 12 weeks.
- Pests and disease: Free from attack by pests or disease.
- Native species with a history of attack by native pests: Restrict plant supply to those with evidence of previous attack to less than 15% of the foliage and ensure absence of actively feeding insects.
- Follow the guidance given in NATSPEC Guide: *Specifying Trees – a guide to assessment of tree quality* (Clark R. 2003).

Labelling
General: Clearly label individual plants and batches.
Label type: To withstand transit without erasure or misplacement.
Label frequency: 1 per each batch of 50 plants or part thereof
Root system
Requirement: Supply plant material with a root system that is:
- Well proportioned in relation to the size of the plant material.
- Conducive to successful transplantation.
- Free of any indication of having been restricted or damaged.

Root inspection: If inspection is by the removal of soil test, such as investigative inspection, sample as follows:
- For > 100 samples: Inspect 1%.
- For < 100 samples: Inspect 1 sample.

Sample plants: Replace plants used in investigative inspection.
Defective samples: Reject the entire line represented by the defective sample
Rejection: Do not provide root bound stock.

2.5 TURF

Supply
Description: Cultivated turf of even thickness, free from weeds and other foreign matter.
Supplier: A specialist grower of cultivated turf.
Species: Refer plans. Ensure minimum depth of sod is 50 mm.
Top dressing
General: When the turf is established mow, remove cuttings and lightly top dress to a depth of 10 mm.
Rub the dressing well into the joints and correct any unevenness in the turf surface.

3 EXECUTION

3.1 PREPARATION

Existing grass removal
Herbicide: Spray existing grass with a non-residual glyphosate herbicide in any registered formulae, at the recommended maximum rate.
Manual removal: A minimum 2 weeks after application of herbicide remove existing grass layer.
Weed eradication
Herbicide: Herbicides must be currently registered for the treatment of weeds by the Australian Pesticides and Veterinary Medicines Authority (APVMA). Eradicate weeds using environmentally acceptable methods, such as a non-residual glyphosate herbicide in any of its registered formulae, at the recommended maximum rate. Repeat after two weeks. Ensure no spraying near water catchment area that may cause environmental concerns or permit any of the herbicide to enter the water. Spraying must not be undertaken on windy days or if rain is likely to follow within 12 hours.
Spraying must be undertaken in a manner and at times to ensure no harm to adjoining residents and users in surrounding areas and open spaces. Prior to spraying operations, provide a detailed proposal for spraying operations including work method, timing and measures to park users and the general public from potential adverse effects of spraying.
Provide temporary warning signs to alert users. Areas sprayed with herbicide must remain undisturbed for a minimum period of two weeks or such longer period as is recommended by the herbicide manufacturer.
Removal: Regularly remove, by hand, rubbish and weed growth throughout grassed, planted and mulched areas. Remove weed growth from an area 750 mm diameter around the base of the trees in grassed areas. Continue eradication throughout the course of the works and during the planting establishment period.
Weed eradication schedule

Weed type	Eradication method or treatment	
	Acceptable	Unacceptable
All	By hand or chemical	Sprays containing DICAMBA

Vegetative spoil
Disposal: Remove vegetative spoil from site. Do not burn.

3.2 SUBSOIL

Ripping
General: Do not rip.
Planting beds
Excavated: Excavate to bring the subsoil to at least 300 mm below finished design levels. Shape the subsoil to fall to subsoil drains where required. Break up the subsoil to a further depth of 100 mm.

Unexcavated: Remove weeds, roots, builder's rubbish and other debris. Bring the planting bed to 75 mm below finished design levels.
Cultivation
Minimum depth: 100 mm.
Cultivation depths (mm):
- Turf areas: Refer to Landscape Drawings
- Mass planted areas: Refer to Landscape Drawings

Services and roots: Do not disturb services or tree roots. If required cultivate these areas by hand. Refer Arborists report for tree protection and all works associated with existing trees..
Cultivation: Mix in materials required to be incorporated into the subsoil. Cultivate manually within 300 mm of paths or structures. Remove stones exceeding 25 mm, clods of earth exceeding 50 mm, and weeds, rubbish or other deleterious material brought to the surface during cultivation. Trim the surface to design levels after cultivation. **Refer Subsoil preparation schedule**
Additives
General: Apply additives after ripping or cultivation and incorporate into the upper 100 mm layer of the subsoil. Test the subsoil by chemical and physical analysis to determine appropriate remedial methods.

3.3 TOPSOIL

Placing topsoil
General: Spread the topsoil on the prepared subsoil and grade evenly, making the necessary allowances to permit the following:
- Required finished levels and contours may be achieved after light compaction.
- Grassed areas may be finished flush with adjacent hard surfaces such as kerbs, paths and mowing strips.

Spreading: On steep batters, if using a chain drag, make sure there is no danger of batter disturbance.
Finishing: Feather edges into adjoining undisturbed ground.
Consolidation
General: Compact lightly and uniformly in 150 mm layers. Avoid differential subsidence and excess compaction and produce a finished topsoil surface which has the following characteristics:
- Finished to design levels.
- Smooth and free from stones or lumps of soil.
- Graded to drain freely, without pending, to catchment points.
- Graded evenly into adjoining ground surfaces.
- Ready for planting.

Topsoil depths
- Refer to Landscape Drawings

Surplus topsoil
General: Dispose of surplus topsoil off site legally.

3.4 TURFING

Supply
Elapsed time: Deliver the turf within 24 hours of cutting, and lay within 36 hours of cutting. Prevent turf from drying out between cutting and laying. If not laid within 36 hours of cutting, roll turf out on a flat surface with the grass up, and water as required to maintain a good condition.

Application
Method: Lay the turf as follows:
- Stretcher bond pattern with the joints staggered and close butted.
- Parallel with the long sides of level areas, and with contours on slopes.
- Finish flush, after tamping, with adjacent finished surfaces of ground, paving edging, or grass seeded areas.

Strip turf: Close butt the end joints and space the strips 300 mm apart. Lay top dressing between the turf strips. Finish with an even surface.
Tamping: Lightly tamp to an even surface immediately after laying. Do not use a roller.
Stabilising on steep slopes: Peg the turf to prevent downslope movement. Remove the pegs when the turf is established.
Watering
General: Water immediately after laying until the topsoil is moistened to its full depth. Maintain moisture to this depth.
Establishment
Refer specification section 2.3 Turf in *Landscape - Establishment*

3.5 PLANTING

Individual plantings in grassed areas
Method: Unless shown otherwise on the drawings, excavate a hole twice the diameter of the root ball and at least 100 mm deeper than the root ball. Break up the base of the hole to a further depth of 100 mm, and loosen compacted sides of the hole to prevent confinement of root growth.
Locations
General: If it appears necessary to vary plant locations and spacings to avoid service lines, or to cover the area uniformly, or for other reasons, give notice.
Planting conditions
Weather: Do not plant in unsuitable weather conditions such as extreme heat, cold, wind or rain. In other than sandy soils, suspend excavation when the soil is wet, or during frost periods.
Watering
Timing: Thoroughly water the plants before planting, immediately after planting, and as required to maintain growth rates free of stress.
Placing
Method: Remove the plant from the container with minimum disturbance to the root ball. Root prune to ensure all circling roots have been either severed or aligned radially into the surrounding soil. Make sure that the root ball is moist, place it in its final position, in the centre of the hole and plumb, and with the top soil level of the plant, level with the finished surface of the surrounding soil. Compact lightly so as to minimise subsidence without compacting the backfill. Avoid mixing mulch with topsoil.
Fertilising
Pellets: In planting beds and individual plantings, place fertiliser pellets around the plants at the time of planting.
Application rate (kg/ha): As per **fertiliser schedule** or manufacturer's recommendations.
Backfilling
General: Backfill with topsoil mixture. Lightly tamp and water to eliminate air pockets. Make sure that topsoil is not placed over the top of the root ball, so the plant stem remains the same height above ground as it was in the container.

Watering basins for plants in grass
Method: Except in irrigated grassed areas and normally moist areas, construct a watering basin around the base of each individual plant, consisting of a raised ring of soil capable of holding at least 10 L.

3.6 MULCHING

Placing mulch
General: Place mulch to the required depth, clear of plant stems, and rake to an even surface flush with the surrounding finished levels. Spread and roll mulch so that after settling, or after rolling, it is smooth and evenly graded between design surface levels sloped towards the base of plant stems in plantation beds.
In mass planted areas: Place after the preparation of the planting bed but before planting and other work.
Individual plants planted in grass: Place after the preparation of the planting bed, planting and other work.
Extent: Entire mass planted beds as shown on the drawings. To surrounds of plants in turfed areas, provide mulch to 1500 mm diameter, unless shown otherwise on the drawings.
Depths: Refer to Landscape drawings

3.7 SPRAYING

Notice
General: Immediately give notice of evidence of insect attack or disease amongst plant material.
Prior to spraying, provide a detailed proposal for spraying operations including work method, timing and measures to protect the general public from potential adverse effects of spraying.
Spraying operations must not be carried out without the prior written approval from the Authorised Person.
Provide temporary warning signs to alert users.
Spraying
Product: Where required and approved in writing by the authorised person, spray with insecticide, fungicide or both.

3.8 STAKES AND TIES

Stakes
Material: Hardwood, straight, free from knots or twists, pointed at one end.
Installation: Drive stakes into the ground at least one third of their length, avoiding damage to the root system.
Stake sizes:
- For plants ≥ 2.5 m high: Three 50 x 50 x 2400 mm stakes per plant.
- For plants 1 to 2.5 m high: Two 50 x 50 x 1800 mm stakes per plant.
- For plants < 1 m high: One 38 x 38 x 1200 mm stake per plant.

Ties
General: Provide ties fixed securely to the stakes, one tie at half the height of the main stem, others as necessary to stabilise the plant. Attach ties loosely so as not to restrict plant growth.
Tie types:
- For all plants: 50 mm hessian webbing stapled to the stake

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G	02-04-2020	ISSUED FOR DA
F	19-11-2019	ISSUED FOR DA
E	30-08-2019	ISSUED FOR DA
D	24-06-2019	PRELIMINARY
C	27-05-2019	PRELIMINARY

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PREPARED BY
spackman mossop michaels
PTY LTD ABN 65 065 578 985
P.O. Box 880
Darlinghurst NSW 1300
T: 02 9361 4549
F: 02 9361 4569
info@sm2group.com.au
www.spackmanmossopmichaels.com
LANDSCAPE ARCHITECTS

CLIENT
NORTHERN METROPOLITAN CEMETERIES TRUST

PROJECT
FRENCHS FOREST BUSHLAND CEMETERY

TITLE
LANDSCAPE SPECIFICATION - 01

DRAWING No.
L 51

SCALE
N/A

NORTH

REV NO.
G

3.9 COMPLETION

Product certification
Certification: Submit the supplier's written statement certifying that plants are true to the required species and type and free from diseases, pests, weeds
Maintenance manual
General: Submit recommendations for maintenance of plants.
Irrigation
Requirement: On completion of the irrigation system, carry out the following:
- Flush system thoroughly, check heads, sprays and drippers and clean if blocked.
- Clean strainers.
- Adjust for even distribution with no dry areas.

Cleaning
Stakes and ties: Remove those no longer required at the end of the planting establishment period.
Temporary fences: Remove temporary protective fences at the end of the planting establishment period.
Warranties
Parties: Supplier(s) to the principal.
Form: All the plants supplied under these works are true-to-species and type, and free of disease, fungal infection and/or any other impediment to their future growth and that they have been fully acclimatised for the conditions of the site.
Submission of warranty: At the time of each delivery.

4 SELECTIONS

4.1 SUBSOIL

Subsoil preparation schedule

Location	Cultivated method
Mass planted beds	Rotary hoe (outside of tree protection zone) Manually within tree protection zones
Turf	Rotary hoe (outside of tree protection zone) Manually within tree protection zones.

4.2 TOPSOIL

Topsoil Mix Type A –Planting Topsoil

Generally the mix must meet all the requirements of AS 4419 – Landscape Soils for Soil Blends. In the event of a discrepancy, the specifications provided below must take precedence. It is recommended to test for other nutrients and trace elements and the opinion of a qualified soil agronomist sought as to suitability of the levels.
Topsoil MixType A must be an organically enriched well drained sandy loam topsoil mix designed to provide aeration and nutritional as well as water holding benefits for tree root zones. To obtain the chemical properties a soluble fertilizer is usually needed. The recommended product is given but others may be acceptable.
Location:
- top 300mm of mass planted beds and tree pits – refer drawings.

Components by Volume

Medium grade clean sand	70-80%
Sandy loam soil	10-20%
Composted organic matter conforming with AS 4454	SC 10 %

Alternatively a sandy loam to which 25% composted garden waste is applied could achieve the same particle size properties as a sand/soil mix.
Performance Specification

Property	Units	Requirement
Particle Size Range		
>2 mm	% w/w	<5
1-2 mm	% w/w	<10
0.5-1.0 mm	% w/w	20-40
0.25-0.5 mm	% w/w	25-40
0.1-0.25 mm	% w/w	20-20
<0.1 mm	% w/w	<20
Organic Matter Content (AS 4419)	%w/w	8-15
Permeability fully compacted	mm/hour	50-100
Wettability (AS 4419)	mm/hour	>5
Chemical Properties		
pH 1:5	pH units	5.5 to 6.8
EC 1:5	dS/m	<0.5
Exchangeable Ca/Mg ratio	w/w	3 – 9
Available P	mg/kg 2	0-50
Ammonium N	mg/kg	< 50
Nitrate N	mg/kg	20-50

Note: tests denoted as AS 4419 refer to the methodology used in AS 4419 – Landscape Soils.
Suggested Fertilisers (to be verified by analysis)

Magrilime (or 50/50 lime dolomite mixture)	0.5-1 kg/m3
Compound NPK general purpose fertiliser	1-2 kg/ m3
Slow release general purpose 9-12 month controlled Release fertiliser	3-5 kg/m3.

Topsoil Type U - Turf Underlay
Imported topsoil classed as Quarried Virgin Excavated Natural Material (VENM). Clay/silt content as determined by AS1141.12 (Wash Grading) is to be between 5-10% by weight.
The material is to be compliant by providing a recent test result in accordance with the above requirements for approval prior to delivery.

Topdressing
Imported coarse soil to AS 4419, suitable for application to grass areas. turfed areas

Topsoil Mix Type B –Tree Pit Backfill
General: The mix must meet all the requirements of AS 4419 – Landscape Soils for Soil. In the event of a discrepancy, the specifications provided below must take precedence. It is recommended to test for other nutrients and trace elements and the opinion of a qualified soil agronomist sought as to suitability of the levels.
Topsoil Mix Type B is designed to provide maximum drainage rate and compaction resistance. Water and nutrient holding capacity is enhanced by the addition of some soil but the matrix is very sandy. A very small amount of particulate organic matter (e.g. pine bark) is acceptable to provide better water holding without impeding drainage. If the sand contains some fine material lesser amounts of soil than those suggested may be required. A small amount of fertiliser is added to promote rapid initial root growth.
Location: Installed at any depth below 300mm to backfill around new rootballs – refer drawings.
Components by Volume

Medium grade clean sand	70-80%
Sandy loam soil	10-20%
Composted organic matter conforming with AS 4454	SC 10 %

Performance Specification

Property	Units	Requirement
Particle Size Range		
>2 mm	% w/w	<5
1-2 mm	% w/w	<10
0.5-1.0 mm	% w/w	20-40
0.25-0.5 mm	% w/w	30-50
0.1-0.25 mm	% w/w	20-30
<0.1 mm	% w/w	<15
Organic Matter Content (AS 4419)	%w/w	2-5
Permeability fully compacted	mm/hour	200-400
Wettability (AS 4419)	mm/hour	>5
Chemical Properties		
pH 1:5	pH units	5.5 to 6.8
EC 1:5	dS/m	<0.5
Exchangeable Ca/Mg ratio	w/w	3 – 9
Available P (Bray)	mg/kg	20-50
Ammonium N	mg/kg	< 50
Nitrate N	mg/kg	20-50

Note: tests denoted as AS 4419 refer to the methodology used in AS 4419 – Landscape Soils.
Suggested Fertilisers (to be verified by analysis)

Magrilime (or 50/50 lime dolomite mixture)	200-500g/tonne (or m3)
Compound NPK turf fertiliser	0.5-1.0 kg/ m3

4.3 FERTILISER

Fertiliser schedule

Location	N:P:K ration	Proprietary item	Application rate
Turfing	10:4:6	'Lesco Ronstar Plus Pre-Emergent Herbicide & Starter Fertiliser' or equal	3.15 kg per 100 sqm in the growing season when turf is actively growing.
Garden beds	17:1.6:8.7	'Osmocote Plus Native Gardens' or equal	Prior to laying mulch, apply 5 to 8 kg per 100m2 or 50 to 80g per m2 in the 1st, 26th & 52nd week of the maintenance period.
Native trees	20:4:8	'Langleys Tree Tablets for Australian Natives' 20 gm tablets or equal	3 tablets per tree at installation.
Non-native trees	18:2.1:2.9	Osmocote slow release 9 – 12 months or equal	50g/sqm

4.4 TURFING

Turfing schedule

Property	Turf
Species or variety	Zoysia Empire or to principals specification
Minimum thickness	Standard
Turf roll size (mm)	400mm wide

4.5 MULCHING

Mulching schedule

Mulch key	Location	Mulch type	Depth (mm)	Stabilisation method
MU	Mass Planting Beds - refer drawings	Organic Mulch "Forest Blend" Supplier: Australian Native Landscapes	75mm	N/A

0254 IRRIGATION

1 GENERAL

1.1 RESPONSIBILITIES

General
This specification is to be read as a Performance Specification.
Requirement: Provide automatically controlled, fixed irrigation systems.
Supply materials and design and install an effective permanent sub-surface drip irrigation system to the garden beds and swales to be irrigated as identified on the plans, including but not limited to:
- Fittings, including timers, shut off sensors, backflow preventers, drip emitters, low voltage solenoids, isolation valves, valve boxes and 240V controllers, and other fittings as required to meet performance criteria and to suit existing irrigation infrastructure.
- Installation of new a water supply and/ or connection to existing system if available.
- Pipe-work and irrigation cables.
- Installation of conduits under pavements etc as necessary to provide irrigation pipe to isolated garden beds and lawn areas. This work is to be coordinated with the Landscape Contractor during construction of landscape and building works.
- Contractor to allow for coordination with Northern Metropolitan Cemeteries Trust staff in the design and selection of the irrigation system and to obtain approval of all components.

Extent
Provide irrigation to new planting areas where indicated on drawings. Refer plans.
Water source: Council water supply.
Performance
Requirements:
- Achieve fit-for-purppose flow rates over the irrigated area.
- Meet statutory requirements for backflow prevention.f

The irrigation system needs to be capable of providing sufficient water to the garden beds as outlined in the scope and landscape drawings.
Related work
Co-ordinate and co-operate with the all other trades.
Contractor's Qualifications:
Minimum five years experience in similar work. Submit evidence of completed similar work with contact names and telephone numbers. Design Qualifications: System to be designed by suitably qualified Hydraulic Engineer or Irrigation Expert.

1.2 CROSS REFERENCES

General
Requirement: Conform to the following:
- *0250 Landscape* – gardening
- *0256b Landscape establishment*

1.3 STANDARDS

Water supply
General: To AS/NZS 3500.1.
Comply with applicable portions of the following Australian Standards:
AS 1432-1990 Copper tubes for plumbing, gas fitting & drainage application

AS 1477 Un-plasticised PVC (UPVC), HDPE pipes and fittings for pressure applications. Parts 1, 2 4 and 6
AS 2032-1977 Code of practice for installation of UPVC pipe systems.
AS/NZS 3500.1.2:1998 National plumbing and drainage – Water supply.

1.4 INTERPRETATION

Abbreviations
General: For the purposes of this worksection the following abbreviations apply:
- LDPE: Low-density polyethylene.

Definitions
General: For the purposes of this worksection the following definitions apply:
- Backflow prevention device: A device, required by law, on an irrigation system that prevents water from re-entering the potable water lines once it flows into the irrigation pipes.
- Emitter: A device used to control the rate at which water is applied to a specific area.

1.5 SUBMISSIONS

Submit the following for approval prior to manufacture and installation of the system:
(a) Design drawings. Provide design drawings showing the areas to be irrigated, the proposed irrigation system layout and hardware, service connections and locations of major components and plant.
(b) Shop Drawing. Provide a shop drawing showing precise layout of every component of the system and the location of including the following:
  - Drip-line runs including proposed installation depths.
  - Locations of control cables.
  - Micro-irrigation stake layout.
  - Irrigation controller cabinets.

(c) Submit samples of controllers for approval of the Principal's Representative before ordering material.
(d) As-built drawings. Drawings are to clearly show pipe sizes, valve types and locations, fittings and control cable routes. Clearly and accurately notate dimensions of pipes, and concisely represent any changes to the original plan that occurred during the installation.
(e) Provide manuals on all equipment supplied. The information must include make, model numbers, specification, operating and safety instructions and service requirements of all equipment, as well as the commissioning date, operational settings and warranty expiry dates on the equipment.

Tests
Site tests: Submit results performed by a recognised irrigation professional, as follows:
- Distribution uniformity (DU) – Subsurface drip: 85%

1.6 INSPECTION

Witness points
- Garden beds ready for installation
- Pegging and setting out before installation is started in any given area.
- Concealed or underground services ready for backfilling.
- Pipework laid in trenches before backfilling.
- Commissioning

1.7 WARRANTY AND MAINTENANCE

Maintain the system against faulty workmanship and materials during the establishment period.
Replace any faulty component and restore to full operation at no cost to the Proprietor.
Manufacturers' warranties to be provided to the contract administrator.

1.8 DESIGN

Contractor is to provide shop drawings design for new components and work with Council staff to modify existing where required.

2 PRODUCTS

2.1 AUTOMATIC CONTROL VALVES

General
Type: 24 V solenoid actuated hydraulic valves with flow control and a maximum operating pressure rating of at least 1 MPa.
Construction: Stainless steel bonnet holding down bolts and internal metal parts of stainless steel, able to be serviced without removal from the line.
Isolating valve: Provide a gate valve of the same size immediately upstream of each automatic control valve.
Housing: House both valves in the same valve box.

2.2 SUBSURFACE DRIP IRRIGATION SYSTEMS

Tubing
Collector and distributor mains: 19mm or 25mm LDPE.Contractor to determine pipe diameter based on the irrigated area requirements and in consultation with Council.
Dripline: LDPE pipe.
Components
System requirements:
- Reduce pressure zone (RPZ) backflow prevention device.
- Electric or manual valve.
- Filter: 120 mesh screen or disc.
- Auto pressure regulator: 150 to 200 kPa.
- Air vacuum breaker.
- Automatic line flushing valve.

Fittings
Type: Barbed fittings rated for the pressure class of the pipe, fastened with ratchet type clamps.
Root-intrusion prevention
Requirement: To prevent root intrusion, provide one of the following:
- Herbicide impregnated emitters or filters.
- Root-intrusion chemical injection system.

Valve boxes
Requirement: Provide valve boxes for system components.

2.3 VALVE BOXES

General
Construction: UV-resistant high impact plastic with high impact snap lock plastic cover.
Location: Support on bricks at each side. Install with top, as follows:
- At finished ground level.
- The valve shall be installed centrally within the valve box and shall be left fully exposed, clear of any soil or debris.

3 EXECUTION

3.1 SUBSURFACE DRIP IRRIGATION SYSTEMS

General
Piping: Install at least 150 mm below ground.
Automatic line flushing valve:
- Location: At the furthest point from the valve on the collector main.
- Discharge point: Locate in same plane as the pipe leading to it, so water can easily be flushed out.
- Gravel bed: Install a 0.3 m^3 minimum volume gravel bed in valve box. Maintain 50 mm clearance between gravel bed and the lowest discharge point of the valve.

Filter: Install in horizontal plane (or to prevent material entering mainline on cleaning) with 100 mm clearance from soil level.
Valve boxes: Provide 100 mm minimum clearance from filters and 50 mm min clearance from valves.

3.2 COMMISSIONING

The contractor is responsible for the testing and satisfactory performance of the complete irrigation system.
Static Tests
Prior to commissioning ensure valve stations close satisfactorily.
Pipe-work and fittings to be tested to the satisfaction of the Principal's Representative to ensure there are no water leaks in the system.
Commissioning Procedure
Give 48 hours notice to the Principal's Representative.
Upon completion of the static tests in the presence of the Principal's Representative, commission the system and operate it continuously for a minimum of one hour.

3.3 COMPLETION

General
Requirement: On completion of the irrigation system, carry out the following:
- Flush system thoroughly. Check heads, sprays and drippers and clean if blocked.
- Clean strainers.
- Adjust for even distribution with no dry areas.

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PREPARED BY
spackman mossop michaels
PTY LTD ABN 65 065 578 985
P.O. Box 880
Darlinghurst NSW 1300
T: 02 9361 4549
F: 02 9361 4569
info@sm2group.com.au
www.spackmanmossopmichaels.com
LANDSCAPE ARCHITECTS

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PROJECT
FRENCHS FOREST BUSHLAND CEMETERY

TITLE
LANDSCAPE SPECIFICATION - 02

DRAWING No.
L 52

SCALE
N/A

NORTH

REV NO.
G

0256B LANDSCAPE – ESTABLISHMENT

1 GENERAL

1.1 RESPONSIBILITIES

General

Requirement: Maintain the contract area during the plant establishment period, and during the period from completing the installation and the date of practical completion.

Program

Plant establishment period: 6 months following practical completion.

1.2 CROSS REFERENCES

General

Requirement: Conform to the following:

- *0250 Landscape* – gardening.
- *0254 Irrigation.*

1.3 INTERPRETATION

Definitions

General: For the purpose of this worksection the following definitions apply:

- Plant establishment period: The period between the date of practical completion and the end of the defects liability period.

Program

- Plant establishment period: 12 months following practical completion.

1.4 SUBMISSIONS

Execution details

Notice: Provide two days notice of the following operations:

- Application of herbicide. Consult with local authorities and the Council to determine if longer notice periods are required, as well as any public notification requirements.
- Application of fertiliser.
- Watering.
- Each site maintenance visit.

Log book

Records: Log the following on a weekly basis:

- Description, time and method of application of toxic material.
- Maintenance work details.
- Inclement weather to verify inability to carry out work within the specified time frame.

Availability: Upon request.

Replacement plants

Species: Provide written certification that all plant material is true to the required species and type.

1.5 INSPECTION

Notice

Inspection: Give notice so that inspection of the contract area may be made at the following:

- Date of practical completion.

2 EXECUTION

2.1 GENERAL

Reporting

Monthly report: Submit regular reports by the last Friday of each month:

- Of the general status of works.
- The maintenance activities carried out during that period.
- Include soil test results as required for the fertilising programs.
- Plant replacement requirements.

Incident reports: Report immediately verbally and confirm in writing any disturbance or incidence affecting or likely to affect the day to day scheduling of works.

Disruption of works by others

Other contractors: Make arrangements to work around the disturbance.

2.2 PLANTING WORKS

Planting

Planting: Ensure the general appearance and presentation of the landscape and the quality of plant material at date of practical completion is maintained for the full planting establishment period.
Existing plant material: Maintain existing planting and grass within the landscape contract area as specified for the corresponding classifications of new grassland or planting.
Replacements: Replace failed, dead and/or damaged plants at maximum 3 week intervals as necessary throughout the full plant establishment period.

Fertilising

Soil tests: Take samples from both planting beds and lawn areas and conduct tests.
Fertilising: Base the fertilisation program on the soil testing results. Cultivate fertiliser into the soil min 100 mm deep.
Season: Fertilise shrubs and trees in September and March according to their seasonal growth requirement.

Insect and disease control

Responsibility for insect and disease control: The contractor
Period for treatment: Until the problem has been eliminated.
Chemical spray: Apply outside of normal working hours. Determine additional requirements with the Council to ensure health and safety of park users during and immediately after spraying operations. Adhere to the requirements in *0250 Landscape Gardening* **EXECUTION, PREPARATION Weed eradication**

Stakes and ties

Generally: If plants are unable to be self-supported or if stakes are damaged, stake or restake the plants as per *0250 Landscape Gardening* **EXECUTION, STAKES AND TIES.**
Removal: If plants are robust with well developed systems and are strong enough to no longer require support, remove stakes and ties.

2.3 TURF

General

Maintain turfed areas until there is a dense continuous sward of healthy grass over the whole turfed area, evenly green and of a consistent height.
Failed turf: Lift failed turf and replace with new turf to the same species.
Levels: If levels have deviated from the design levels after placing and watering, lift turf and regrade topsoil to achieve design levels.

Mowing and trimming

Litter: Remove litter and fallen branches before mowing.
Frequency: Consistent with the growth habit of the grass variety and to maintain a healthy sward at 25 mm to 40 mm thickness at all times. Do not remove more than one third of the grass height at any one time. Carry out the last mowing not more than 7 days before the end of the planting establishment period. Remove grass clippings from the site after each mowing.
Raking: Once every month before mowing, during the mowing season, with a flexible rake. On alternate mowings, adopt a north-south and east-west pattern.
Edges: At the same time as mowing, trim lawn edges to plant beds, pathways, base of trees and other obstacles. Ensure trees and shrubs are not damaged.
Clippings distribution: Removal from site

Topdressing

Topdressing material for established lawns: Weed free imported sandy topsoil to a depth of 5 mm. Rub the dressing into the joints and correct any unevenness in the turf surface.
Program: The spring following installation.
Topdressing material for remediation of depressions or irregularities: Apply coarse or medium soil to AS 4419 suitable for application to turf or grass seeded areas.

Fertilising

Fertilising: Apply lawn fertiliser at the completion of the first and last mowings of the plant establishment period, and at other times as required to maintain healthy grass cover, or as indicated by the soil tests.

2.4 GARDEN BEDS

Weeding

Weeds: Unwanted plants and grasses considered invasive to the locality.
Program:

- Lawns and turfed areas: Quarterly, and as determined by the relationship of the general lawn condition and weed growth.
- Trees and shrubs: As required for planted, paved and mulched areas to be weed free when observed at bi-weekly intervals.

Method: Clear and keep clear vigorous ground covers 200 mm from the base of any shrub or tree:

- Small areas: By hand.
- Large areas: Proprietary herbicides using a hand-held wick attachment

Herbicide application: Avoid windy days or if rain is likely to follow within 12 hours.
Apply:

- To the manufacturer's instructions and Safety Data Sheets.
- When the weather is humid with moderate temperatures and maximum sunlight.
- Consistent with local Council requirements.
- When the ground has recommended soil moisture.

Rubbish removal

Rubbish: Remove all loose rubbish such as bottles, papers, and cigarette butts from the site. Execute this work regularly so that all areas are free from rubbish when observed at bi-weekly intervals.
Leaf litter: Remove from all path and lawn areas.Leaf litter distribution: spread evenly over the planted and mulched areas

Mulched surfaces

Inspection: Bi-weekly to determine mulch requirements.
Depth: Maintain a minimum depth of:

- 75 mm for organic mulch.

Remulching: Maintain the original ground levels around the base of plants.

2.5 WATERING

Establishment

Extent: All non-irrigated plantings, lawn areas and tree plantings.
Water quality:

- pH between 5.5 and 7.5.
- Total soluble salts less than 1000 mg/litre.
- No substances that would be toxic to plant growth.

Watering program: Minimum three complete waterings, soaking to a depth of 150 mm at fortnightly intervals for the first 6 weeks of plant establishment irrespective of natural rainfall. Confirm soaked depth and record in the log book.
Water restrictions: Coordinate the water supply and confirm the watering regime against state and territory government legislation and restrictions at the time.

Irrigation

Hand watering: Manually water all plantings under the viaduct until proposed irrigation system is fully operational, soaking to a depth of 150 mm for lawn and 300 mm for mass planted garden beds. Avoid frequent dampening of the surface. Allow the surface of the soil to partially dry out between waterings.
Irrigation system program: To suit the following:

- The precipitation requirements of the individual zones/stations with regard to types of plants.
- The infiltration rate of the soil/medium and associated physical factors seasons, evaporation, exposure, topography, slope steepness, local authority restrictions.
- An allowance for adjustment or shut down during and after periods prolonged heavy rains.

Equipment maintenance:

- Check all components for proper operation.
- Repair or replace damaged components with equivalent parts.
- Flush any dirt or foreign matter from the system and clear all blockages.

Operation: Ensure by adjustment or replacement of components, that the overall operation of the system is efficient and operational for the entire planting establishment period.

Hand watering

General: Manually water all lawn and planting areas, soaking to a depth of 150 mm for lawn and 300 mm for planting. Avoid frequent dampening of the surface. Allow the surface of the soil to partially dry out between waterings.

2.6 PAVING AND STRUCTURES

Paving

Weed and grass control: Steaming or manual removal.

Furniture, signage and barriers

Maintenance guidelines:

- Furniture and pots: Keep in a good condition and move as required to carry out maintenance works.

Directional and building signs: Keep in a good condition and maintain visibility.
Boundary and car park barriers: Keep in a good condition as originally specified.

Drains

General: Inspect and clean all drainage structures and pit covers and ensure that they are in proper working order.
Frequency: As required, so that all overflow drains are cleared when observed at fortnightly intervals.

2.7 COMPLIANCE

Criteria

Generally: Plant establishment shall be deemed complete, subject to the following:

- Repairs to planting media completed.
- Ground surfaces are covered with the specified treatment to the specified depths.
- Pests, disease, or nutrient deficiencies or toxicities are not evident.
- Organic and rock mulched surfaces have been maintained in a weed free and tidy condition and to the specified depth.
- Vegetation is established and well formed.
- Vegetation cover to cell, seeded and/or hydromulched areas.
- Plants have healthy root systems that have penetrated into the surrounding, undisturbed ground and not able to be lifted out of its planting hole.
- Vegetation is not restricting essential sight lines and signage.
- Only frangible species are growing within road side clear zones.
- Specified vegetation setbacks from services and road furniture are evident.
- All hard landscape works have been installed and are operating as specified.
- Collection and removal of litter.
- All areas are weed free.
- Removal of mulch from drainage and access areas.
- All non-conformance reports and defects notifications have been closed out.

Plant establishment compliance table

Plant material	Acceptable failure per area	Acceptable concentration of failure
Tube stock	< 10%	< 15% in any given location
140 mm	< 5%	< 15% in any given location
300 mm or larger	< Nil%	Nil %
Turf	< 5%	Nil %

ISSUE	DATE	ISSUE / AMENDMENT DESCRIPTION
G	02-04-2020	ISSUED FOR DA
F	19-11-2019	ISSUED FOR DA
E	30-08-2019	ISSUED FOR DA
D	24-06-2019	PRELIMINARY
C	27-05-2019	PRELIMINARY

A1 ORIGINAL

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PREPARED BY
spackman mossop michaels
PTY LTD ABN 65 065 578 985
P.O. Box 880
Darlinghurst NSW 1300
T: 02 9361 4549
F: 02 9361 4569
info@sm2group.com.au
www.spackmanmossopmichaels.com
LANDSCAPE ARCHITECTS

CLIENT
NORTHERN METROPOLITAN CEMETERIES TRUST

PROJECT
FRENCHS FOREST BUSHLAND CEMETERY

TITLE
LANDSCAPE SPECIFICATION - 03

DRAWING No.
L 53

SCALE
N/A

NORTH

REV NO.
G