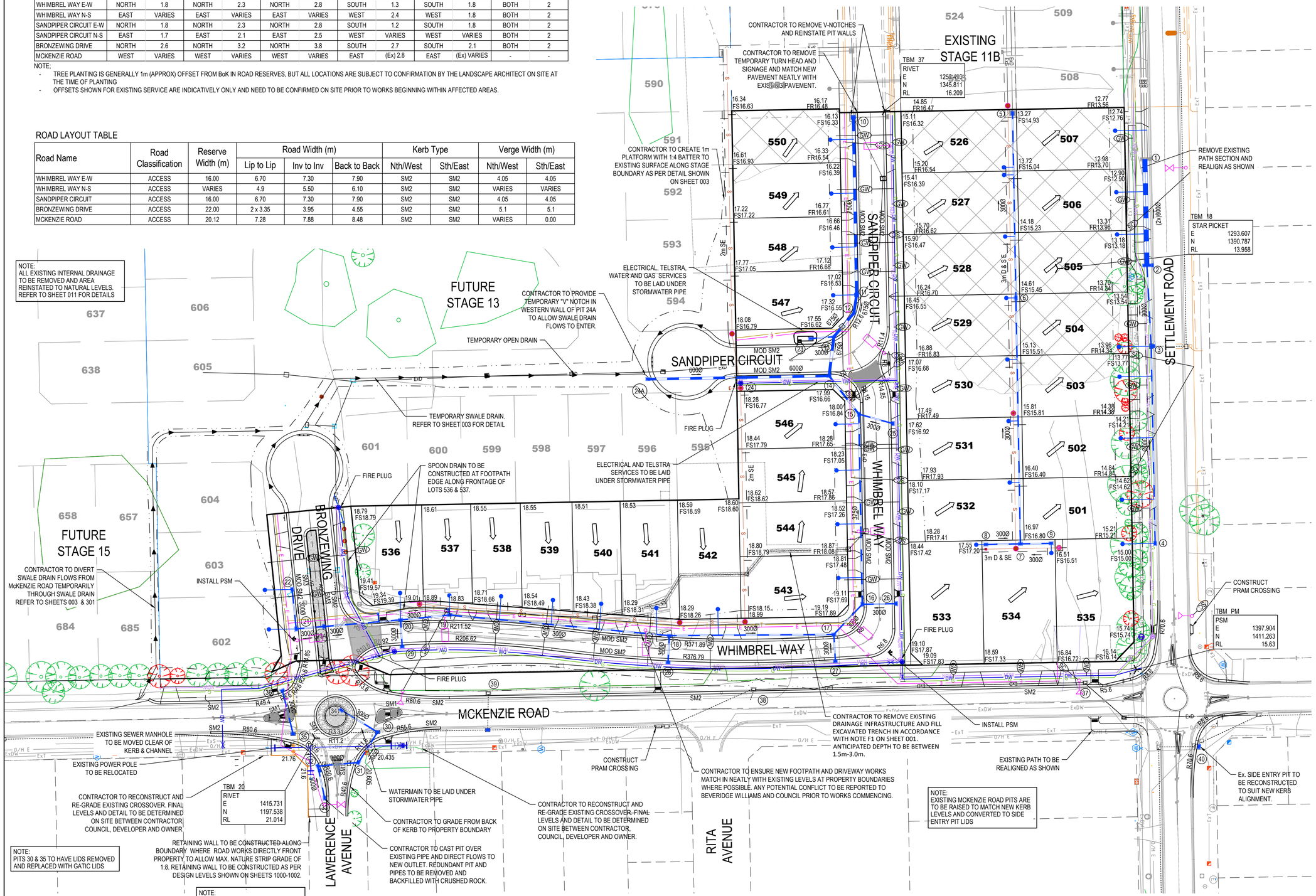
SERVICES OFFSET TABLE

ROAD NAME	GAS		WATER		RECYCLED WATER		ELECTRICITY		TELECOMMUNICATION		TREES	
	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)	SIDE	OFFSET (m)
WHIMBREL WAY E-W	NORTH	1.8	NORTH	2.3	NORTH	2.8	SOUTH	1.3	SOUTH	1.8	BOTH	2
WHIMBREL WAY N-S	EAST	VARIES	EAST	VARIES	EAST	VARIES	WEST	2.4	WEST	1.8	BOTH	2
SANDPIPER CIRCUIT E-W	NORTH	1.8	NORTH	2.3	NORTH	2.8	SOUTH	1.2	SOUTH	1.8	BOTH	2
SANDPIPER CIRCUIT N-S	EAST	1.7	EAST	2.1	EAST	2.5	WEST	VARIES	WEST	VARIES	BOTH	2
BRONZEWING DRIVE	NORTH	2.6	NORTH	3.2	NORTH	3.8	SOUTH	2.7	SOUTH	2.1	BOTH	2
MCKENZIE ROAD	WEST	VARIES	WEST	VARIES	WEST	VARIES	EAST	(Ex) 2.8	EAST	(Ex) VARIES	-	-

NOTE:
- TREE PLANTING IS GENERALLY 1m (APPROX) OFFSET FROM BoK IN ROAD RESERVES, BUT ALL LOCATIONS ARE SUBJECT TO CONFIRMATION BY THE LANDSCAPE ARCHITECT ON SITE AT THE TIME OF PLANTING
- OFFSETS SHOWN FOR EXISTING SERVICE ARE INDICATIVELY ONLY AND NEED TO BE CONFIRMED ON SITE PRIOR TO WORKS BEGINNING WITHIN AFFECTED AREAS.

ROAD LAYOUT TABLE

Road Name	Road Classification	Reserve Width (m)	Road Width (m)			Kerb Type		Verge Width (m)	
			Lip to Lip	Inv to Inv	Back to Back	Nth/West	Sth/East	Nth/West	Sth/East
WHIMBREL WAY E-W	ACCESS	16.00	6.70	7.30	7.90	SM2	SM2	4.05	4.05
WHIMBREL WAY N-S	ACCESS	VARIES	4.9	5.50	6.10	SM2	SM2	VARIES	VARIES
SANDPIPER CIRCUIT	ACCESS	16.00	6.70	7.30	7.90	SM2	SM2	4.05	4.05
BRONZEWING DRIVE	ACCESS	22.00	2 x 3.35	3.95	4.55	SM2	SM2	5.1	5.1
MCKENZIE ROAD	ACCESS	20.12	7.28	7.88	8.48	SM2	SM2	VARIES	0.00



NOTE:
ALL EXISTING INTERNAL DRAINAGE TO BE REMOVED AND AREA REINSTATED TO NATURAL LEVELS. REFER TO SHEET 011 FOR DETAILS

NOTE:
PITS 30 & 35 TO HAVE LIDS REMOVED AND REPLACED WITH GATIC LIDS

NOTE:
EXISTING PAVEMENT AT MCKENZIE ROAD ROUNDABOUT TO BE REMOVED AND REUSED AS ROAD SUB BASE WERE APPROPRIATE

NOTE:
EXISTING MCKENZIE ROAD PITS ARE TO BE RAISED TO MATCH NEW KERB LEVELS AND CONVERTED TO SIDE ENTRY PIT LIDS

LEGEND - LAYOUT PLAN
- STORMWATER DRAIN, PIT & PROPERTY INLET
- MELBOURNE WATER DRAIN & PIT
- SWALE DRAIN
- SEWER & MAINTENANCE STRUCTURES
- HOUSE DRAIN
- SERVICE CONDUITS
- TACTILE PAVERS (INDICATIVE ONLY)
- ELECTRICITY (UNDERGROUND)
- ELECTRICITY (OVERHEAD)
- OPTIC FIBRE
- TELECOMMUNICATIONS
- GAS
- WATER
- RECYCLED WATER
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING OPTIC FIBRE
- EXISTING TELECOMMUNICATIONS
- EXISTING WATER
- EXISTING RECYCLED WATER
- EXISTING STORMWATER DRAIN
- EXISTING SEWER
- EXISTING HOUSE DRAIN
- EXISTING SWALE DRAIN
- 141.34 EXISTING SURFACE LEVEL
- FS140.35 FINISHED BUILDING LINE LEVEL
- FR157.40 FINISHED RIDGE LINE LEVEL
- TW159.30 TOP OF RETAINING WALL
- BW159.30 BOTTOM OF RETAINING WALL
- RIDGE LINE
- RETAINING WALL
- ZERO LOT LINES
- PAVEMENT TREATMENT
- STRUCTURAL FILL > 200mm DEEP
- BACKFILLED SERVICE TRENCH
- DIRECTION OF FALL
- OVERLAND FLOW
- ALLOTMENT TO BE GRADED EVENLY IN DIRECTION OF FALL TO LEVELS INDICATED
- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
- LIMIT OF WORKS
- EXISTING TREE TO BE REMOVED
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- PROPOSED DRIVEWAY
- VEGETATION TO BE REMOVED
- VEGETATION TO BE RETAINED
- STREET LIGHTS

NOTE:
DRIVEWAYS TO BE CONSTRUCTED FOR LOTS 501-507, 529-530, 533-541, 543, 546-548 AND FUTURE LOT 602. DRIVEWAYS FOR LOTS NOT LISTED ARE TO BE COMPLETED AT TIME OF OCCUPANCY IN ACCORDANCE WITH TITLE RESTRICTIONS. FINAL LOCATION FOR CROSSOVERS TO LOTS 501-507 TO BE DETERMINED ON-SITE AT TIME OF CONSTRUCTION TO MINIMIZE AMOUNT OF VEGETATION TO BE REMOVED.

NOTE:
SETTLEMENT ROAD AND McKENZIE ROAD ELECTRICAL CONDUITS ARE TO BE BORED UNDER EXISTING PAVEMENT.

NOTE:
ALL EXISTING VEGETATION MUST BE MAINTAINED WHERE POSSIBLE UNLESS SPECIFIED OTHERWISE IN THE CONSTRUCTION MANAGEMENT PLAN

NOTE:
AREAS OF FILLING WORKS WITHIN LOTS ARE TO BE SURVEYED ONCE COMPLETED AND FINISHED LEVELS TO BE SHOWN ON AS CONSTRUCTED PLANS

NOTE:
UNLESS SHOWN OTHERWISE ALL AREAS SHOWN ON THE DRAWINGS TO BE CUT OR FILLED ARE TO BE STRIPPED OF TOPSOIL TO A DEPTH OF 75mm. UPON COMPLETION OF THE BULK EARTHWORKS, THE TOPSOIL IS TO BE SPREAD TO A DEPTH OF 75mm OVER THE AREA & GRADED TO FINISHED LEVELS SHOWN ON THE DRAWINGS WITH A MINIMUM SLOPE OF 1 IN 200. ALL FILLING IS TO BE COMPACTED IN 150mm EQUAL LAYERS TO 95% OF AS1289.5.1.1 (STANDARD COMPACTION) & TEST RESULTS FORWARDED TO COUNCIL. REFER TO CUT AND FILL DETAIL ON SHEET 012 FOR AREAS OF FILL WORKS.

WARNING
BEWARE OF UNDERGROUND SERVICES
The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works
DIAL 1100 BEFORE YOU DIG
www.1100.com.au

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B	ISSUED FOR CONSTRUCTION	28.06.17	JC	MC
A	ISSUED FOR CONSTRUCTION	23.05.17	JC	MC
P3	AMENDED ISSUE	10.05.17	JC	MC
P2	AMENDED ISSUE	29.03.17	JC	MC
P1	ISSUED FOR APPROVAL	14.12.16	JC	MJC
D	ISSUED FOR CONSTRUCTION	29.05.18	JC	MC
C	ISSUED FOR CONSTRUCTION	27.02.18	JC	MC

0 5 10 20 30 40 50

Designed M. COYNE
Date 12.12.2016
Drawn J.CLOTTU
Approved M.COYNE
Date 12.12.2016
PS Number 12A PS716652N 12B PS808677J

Beveridge Williams
development & environment consultants
134 Graham St
Wonthaggi VIC 3996
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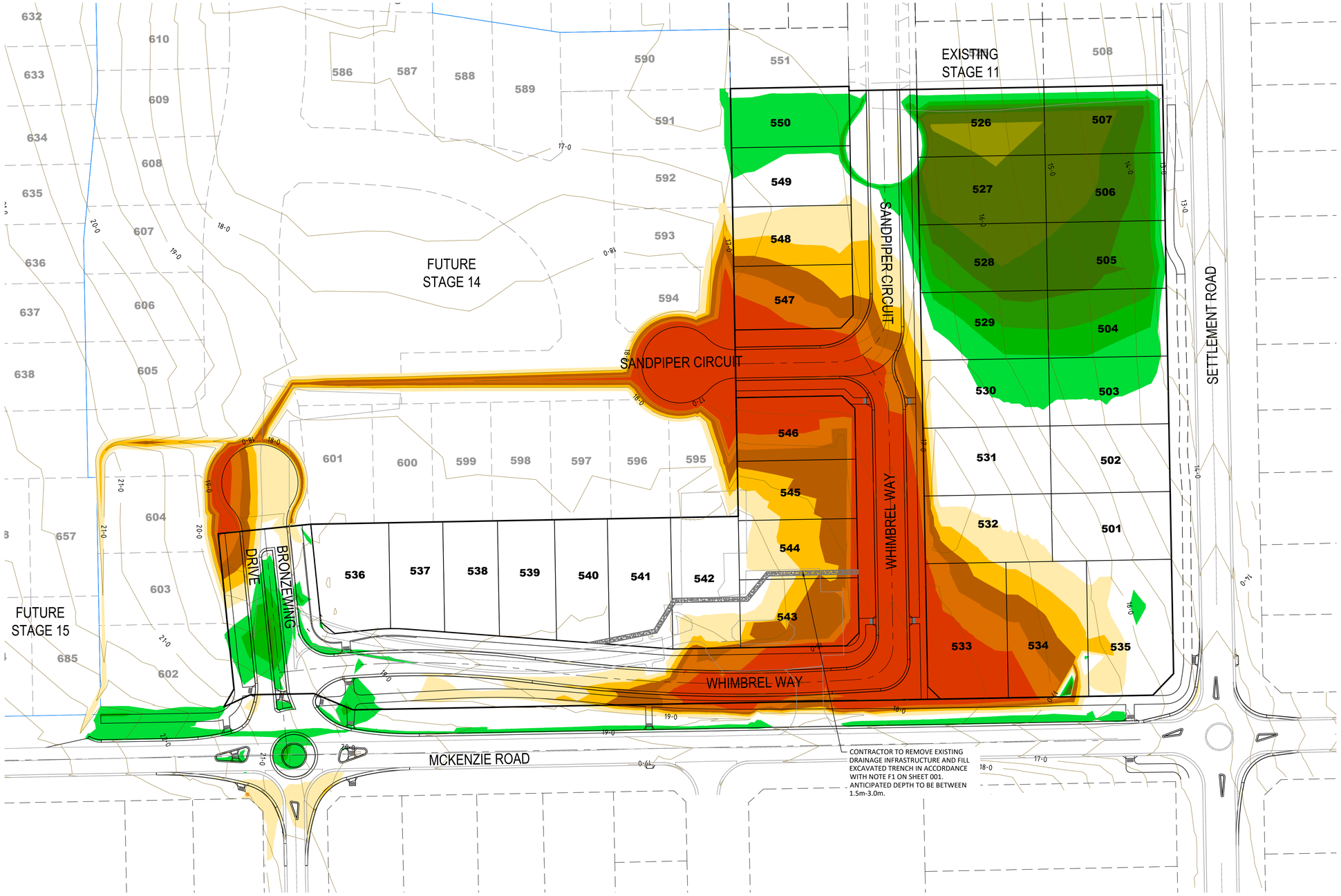
Project Details: SEAGROVE ESTATE STAGE 12
SOUTHERN SUSTAINABLE DEVELOPMENTS
BASS COAST SHIRE COUNCIL

Drawing Title: LAYOUT PLAN

Sheet 5 of 41
Scale 1:500 @ A1

Project Ref	Stage No	Drawing No	Rev
2703	12	010	D

K:\zMelbourne Files\M4015 - Seagrove Estate\Engineering\12-Stage\Drawings\M4015-12-010-LAY.dwg



EARTHWORKS LEGEND	
	GREATER THAN 1.5m CUT
	1.5-1.0m CUT
	1.0-0.8m CUT
	0.8-0.6m CUT
	0.6-0.4m CUT
	0.4-0.15m CUT
	0.15-0.4m FILL
	0.4-0.6m FILL
	0.6-0.8m FILL
	0.8-1.0m FILL
	1.0-1.5m FILL
	GREATER THAN 1.5m FILL

GENERAL NOTES:

- EARTHWORKS DEPTHS ARE PRELIMINARY ONLY, AND HAVE BEEN PROVIDED TO GIVE A BASIS OF COMPARISON BETWEEN SURFACES;

- EARTHWORKS DEPTHS WERE CALCULATED ON A SOLID MEASURE OF THE DEPTH BETWEEN THE ORIGINAL SITE AND DESIGN SURFACES. NO CONSIDERATION WAS MADE FOR PAVEMENT DEPTH, BOXING AND/OR EARTHWORKS ALREADY CARRIED OUT AS PART OF DEVELOPMENT WORKS WITHIN PRIOR STAGES

- CUT AND FILL LEVELS LESS THAN 150mm DEPTH ARE NOT SHOWN;

WARNING

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No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works

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D	ISSUED FOR CONSTRUCTION	29.05.18	JC	MC
C	ISSUED FOR CONSTRUCTION	27.02.18	JC	MC

0 5 10 20 30 40 50

Designed M. COYNE
Date 12.12.2016
Drawn J.CLOTTU
Approved M.COYNE
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PS Number 12A PS716652N 12B PS808677J

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www.beveridgewilliams.com.au

Project Details: SEAGROVE ESTATE STAGE 12
SOUTHERN SUSTAINABLE DEVELOPMENTS
BASS COAST SHIRE COUNCIL

Drawing Title: CUT AND FILL PLAN

Sheet 7 of 41

Scale 1:500 @ A1

Project Ref	Stage No	Drawing No	Rev
2703	12	012	D

K:\zMelbourne Files\M4015 - Seagrove Estate\Engineering\12-Stage\Drawings\M4015-12-012-CNF.dwg

Dandenong South
ACN 143 009 330
25 Metcalf Street
DANDENONG SOUTH, VIC 3175

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Report No: HDR:W17DS00964
Issue No: 2
This report replaces all previous issues of report no 'HDR:W17DS00964'.

HILF Density Ratio Report

Client: South Gippsland Quarries
Address: RMB 7105
NERRENA VIC 3953
Project: Seagrove Estate Stage 12
Project No.: 1003646
Order No.: **CG Request No.:** 832
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.
12712

Approved Signatory: J. Lamont
(Melbourne Lab Supervisor)
Date of Issue: 12/09/2018

THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details

Location: Stage 12
Client Request ID:
Specification Requirements: Minimum Hilf Density Ratio of 95% Standard Compaction +- 2% of OMC
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source: In-Situ
Material: Clay

Sample ID	S17DS-03496	S17DS-03497	S17DS-03498	S17DS-03499	S17DS-03500
Field Sample ID	1	2	3	4	5
Date Tested	23/06/2017	23/06/2017	23/06/2017	23/06/2017	23/06/2017
Time Tested	11:30	11:40	11:50	12:00	12:10
Location	Lot 529	Lot 528	Lot 504	Lot 503	Lot 505
	- 300	- 300	- 300	- 300	- 300
	E345440	E358422	E345440	E345452	E245431
	N5742037	N5742042	N5742053	N5742058	N5742047
Depth of Test (mm)	275	275	275	275	275
Field Moisture Content (%)	0.0	0.0	0.0	0.0	0.0
Field Wet Density (t/m³)	2.21	2.10	2.08	2.17	2.13
Peak Converted Wet Density (t/m³)	2.08	2.01	1.99	2.21	2.07
Compactive Effort	Standard	Standard	Standard	Standard	Standard
Moisture Variation (%)	0.0	1.5 dry	3.0 wet	0.5 wet	0.0
Hilf Density Ratio (%)	**106.0**	**105.0**	**104.5**	**98.0**	**102.5**

Comments

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Report No: HDR:W18DS02740
Issue No: 1

HILF Density Ratio Report

Client: South Gippsland Quarries
Address: RMB 7105
NERRENA VIC 3953
Project: SGQ - Seagrove Estate Stage 12
Project No.: 1008367
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Approved Signatory: M. Longfield (Senior Technician)
12712 Date of Issue: 27/09/2018

THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details

Location: Cowes
Client Request ID:
Specification Requirements:
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source:
Material:

Sample ID		S18DS-10538	S18DS-10539	S18DS-10540	S18DS-10541	S18DS-10542	S18DS-10543
Field Sample ID		1	2	3	4	5	6
Date Tested		12/09/2018	12/09/2018	12/09/2018	12/09/2018	12/09/2018	12/09/2018
Lot:		507	506	505	504	529	528
E:		345383	345404	345418	355433	345436	345421
N:		5742066	5742066	5742062	5742065	5742042	5742041
Layer:		FSL	FSL	FSL	FSL	FSL	FSL
Soil Description		Clay	Clay	Clay	Clay	Clay	Clay
Depth of Test (mm)		275	275	275	275	275	275
Field Wet Density (t/m³)		2.05	2.00	2.02	2.02	2.20	2.23
Peak Converted Wet Density (t/m³)		1.85	1.99	2.00	1.93	2.01	1.98
Compactive Effort		Standard	Standard	Standard	Standard	Standard	Standard
Moisture Variation (%)		0.5 wet	0.5 wet	0.5 wet	1.0 dry	2.5 dry	1.0 dry
Hilf Density Ratio (%)	≥95	**111.0**	**100.5**	**101.0**	**105.0**	**109.5**	**112.0**

Comments

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Dandenong South
ACN 143 009 330
25 Metcalf Street
DANDENONG SOUTH, VIC 3175

Ph: + 61 3 8796 7900
Fax: +61 3 9706 9431

Report No: HDR:W18DS02740
Issue No: 1

HILF Density Ratio Report

Client: South Gippsland Quarries
Address: RMB 7105
NERRENA VIC 3953
Project: SGQ - Seagrove Estate Stage 12
Project No.: 1008367
Order No.: **CG Request No.:**
TRN: **Lot No.:**

Accredited for compliance with ISO/IEC 17025 – Testing

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Approved Signatory: M. Longfield (Senior Technician)
12712 Date of Issue: 27/09/2018

THIS DOCUMENT SHALL NOT BE REPRODUCED EXCEPT IN FULL

Sample Details

Location: Cowes
Client Request ID:
Specification Requirements:
Field Test procedures: AS 1289.5.8.1
Laboratory Test procedures: AS 1289.5.7.1
Sampling Method: AS1289.1.2.1 Clause 6.4 (b)
Source:
Material:

Sample ID		S18DS-10544	S18DS-10545				
Field Sample ID		7	8				
Date Tested		12/09/2018	12/09/2018				
Lot:		527	526				
E:		345409	345384				
N:		5742038	5742040				
Layer:		FSL	FSL				
Soil Description		Clay	Clay				
Depth of Test (mm)		275	275				
Field Wet Density (t/m³)		2.09	2.09				
Peak Converted Wet Density (t/m³)		2.05	2.07				
Compactive Effort		Standard	Standard				
Moisture Variation (%)		1.0 wet	4.0 dry				
Hilf Density Ratio (%)	≥95	**102.0**	**100.5**				

Comments

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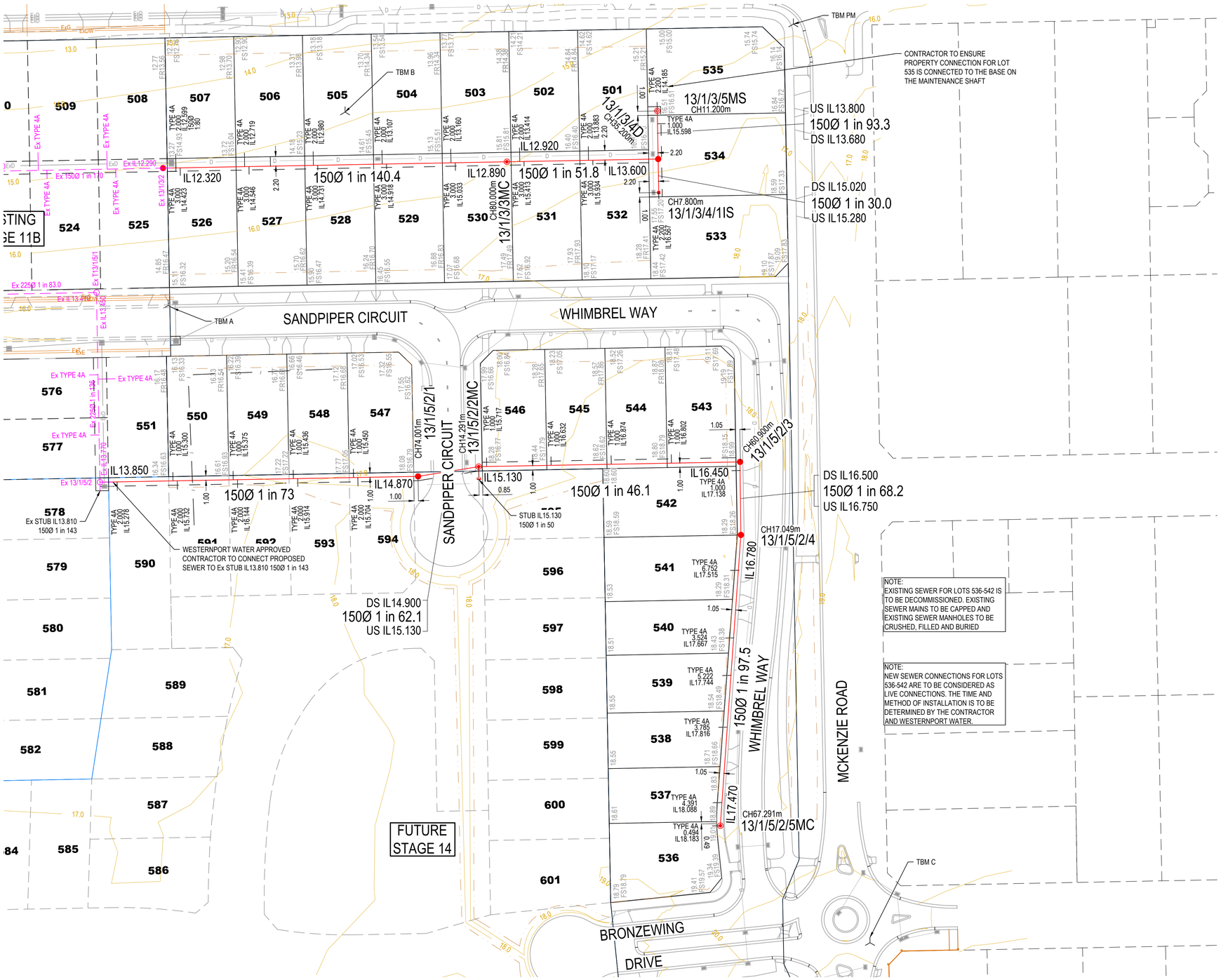

DETAIL PLAN

0 10 20 40

Scale 1:1000 @ A3
Scale 1:500 @ A1

ABBREVIATIONS LEGEND

FS =	Finished Surface Level
IL =	Invert Level
TW =	Top of Retaining Wall
EP =	End of Pipe
TP =	Tangent Point
BT =	Boundary Trap Lot
TY =	Property Connection Type
TY-S =	Maintenance Structure Shaft Property Connection
TY-B =	Maintenance Structure Base Property Connection

(Levels with no Prefix are Existing Surface Levels)

COLOUR LEGEND

BLACK	SEWERAGE (NEW) INCLUDING NOTES
BLACK	PROPERTY CONNECTION TEXT
MAGENTA 210	EXISTING SEWERAGE
ORANGE 32	RETAINING WALLS
BLACK 0.13	STAGE LOT, ROAD BOUNDARIES, LOT No, ROAD NAMES, EASEMENTS.
BLACK 0.35	PROPERTY CONNECTION PIPES
GREY 252	EXISTING LOT & ROAD BOUNDARIES
GREY 252	KERBS, FOOTPATHS, DRIVEWAYS, BOUNDARIES LEVELS AND BATTERS.
GREY 252	DRAINAGE
COLOUR 42	CONTOURS (1.0m INTERVAL)

SYMBOLS LEGEND

- MAINTENANCE HOLE (MH)
- MAINTENANCE CHAMBER (MC)
- MAINTENANCE SHAFT (MS)
- INSPECTION SHAFT (IS)
- WATER SEAL
- PIPE STUB
- RETAINING WALL
- ROCK RETAINING WALL
- WATER MAINS
- GAS MAINS
- ELECTRICAL CABLES
- COMMS CABLES
- DRAINAGE

TBM SCHEDULE

TBM	EASTING	NORTHING	LEVEL	TYPE
A	1252.493	1345.811	16.209	RIVET
B	1293.607	1390.787	13.958	STAR PICKET
C	1415.731	1197.538	21.014	RIVET
PM	1397.904	1411.263	15.630	PSM

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WARNING

BEWARE OF UNDERGROUND SERVICES
THE LOCATION OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

REV	DESCRIPTION	DATE	APPROVED
A	ISSUED FOR CONSTRUCTION	05.05.17	MC
P3	AMENDED ISSUE	05.05.17	MC
P2	AMENDED ISSUE	31.03.17	MC
P1	ORIGINAL ISSUE	19.01.17	MJC

DESIGNED	M.COYNE DATE: 24.11.16	PROJECT NUMBER	4015-12
DRAWN	J.CLOTTU DATE: 24.11.16	MELWAY REFERENCE	734 B3
CHECKED	A.MANNING DATE: 24.11.16	AUTHORISED	M.COYNE DATE: 24.11.16

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BEVERIDGE WILLIAMS REFERENCE: M4015

WESTERNPORT WATER

WESTERNPORT WATER
BASS COAST SHIRE COUNCIL
SEAGROVE ESTATE STAGE 12
4015-12-S
DETAIL PLAN

SCALE: 1:500 @ A1
SHEET 2 OF 4
DRAWING No.: 4015-12-S 2
REV A

ISSUED FOR CONSTRUCTION

SETTLEMENT ROAD

15° BENDS

HYDRANTS

150 x 150 TEE

45° BEND

25° BEND

WESTERNPORT WATER OR AN APPROVED CONTRACTION SHALL SHUT DOWN Ex150Ø WATER MAIN & MAKE CONNECTION TO EXISTING WATER MAIN. 5 CLEAR WORKING DAYS NOTICE PORIOR TO COMMENCEMENT OF WORKS. REFER TO CLAUSE 4.7 OF WSA 03-2002

WESTERNPORT WATER OR AN APPROVED CONTRACTION SHALL SHUT DOWN Ex150Ø WATER MAIN & MAKE CONNECTION TO EXISTING WATER MAIN. 5 CLEAR WORKING DAYS NOTICE PORIOR TO COMMENCEMENT OF WORKS. REFER TO CLAUSE 4.7 OF WSA 03-2002

DW-DN150-PVC(M)-145.86 ExDW
NDW-DN150-PVC(M)-138.49m

DW-DN150-PVC(M)-62.45m
NDW-DN150-PVC(M)-69.50m

DW-DN150-PVC(M)-146.61m
NDW-DN150-PVC(M)-146.00m

EXISTING STAGE 11B

150 x 150 TEES

90° BENDS

SANDPIPER CIRCUIT

DW AND NDW SERVICES TO BE LAID UNDER STORMWATER PIPE

WHIMBREL WAY

DW-DN150-PVC(M)-41.70m
NDW-DN150-PVC(M)-41.20m

SANDPIPER CIRCUIT

RITA AVENUE

DW R378.99
NDW R378.39

DW-DN150-PVC(M)-132.36m
NDW-DN150-PVC(M)-132.10m

MCKENZIE ROAD

DW R204.42
NDW R205.02

DW-DN100-PVC(M)-35.29m

REFER TO SHEET 3 FOR WATERMAIN REPLACEMENT DETAIL

FUTURE STAGE 14

DW-DN150-PVC(M)-40.72m
NDW-DN150-PVC(M)-40.19m

22.5° BENDS

11.25° BENDS

BRONZEWING DRIVE

LAWRENCE AVENUE

DW-DN100-PVC(M)-7.11m

DW-DN150-PVC(M)-61.78m
NDW-DN150-PVC(M)-61.92m

150 x 150 TEE WITH SOUTHERN END CAPPED

Ex 100mm AC MAIN

WATERMAIN TO BE LAID UNDER STORMWATER PIPE

FOR CONTINUATION REFER TO INSET

FOR CONTINUATION SEE CENTRAL PLAN SOUTHERN BORDER

150 x 150 TEES

11.25° BENDS

150 x 150 TEE WITH SOUTHERN END CAPPED

CONTRACTOR TO PROVIDE END CAP AT TERMINATION OF RECYCLED WATER

DW-DN150-PVC(M)-56.59m
NDW-DN150-PVC(M)-56.93m

Ex 100mm AC MAIN

WATERMAIN TO BE LAID UNDER STORMWATER PIPE

100 x 150 TEE

N

LEGEND

- VALVE
- WATER AUTHORITY HYDRANT. BELOW GROUND.
- COUNCIL HYDRANT. BELOW GROUND.
- REMOVE FITTING
- TAPER
- SWAB DIRECTION
- SWAB INSERTION POINT
- SWAB REMOVAL POINT
- CHLORINATION
- ELECTROLYSIS
- NON RETURN VALVE
- ENDCAP
- FERRULE (MALE OUTLET THREAD)
- FL DUCKFOOT BEND WITH HYDRANT
- SOC WASHOUT BEND WITH HYDRANT

0 5 10 20 30 40 50

REV	DESCRIPTION	DATE	APPROVED
I	AMENDED ISSUE	13.06.18	MC
H	AMENDED ISSUE	6.06.18	MC
G	AMENDED ISSUE	6.06.18	MC
F	AMENDED ISSUE	30.05.18	MC

DESIGNED:	MJC	DATE: 20.01.17
DRAWN:	JC	DATE: 20.01.17
CHECKED:	MJC	DATE: 20.01.17
APPROVED:	MJC	DATE: 20.01.17
BW REF:	4015-12	
SEW OFFER FILE No:	4015-12	

WESTERNPORT WATER

BASS COAST

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WESTERNPORT WATER

SEAGROVE ESTATE STAGE 12

WATER RETICULATION EXTENSION No. 4015-12-W

DETAIL PLAN

SCALE 1:500 @ A1

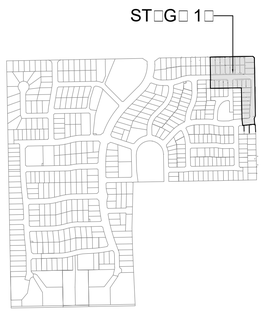
4015-12-W

Sheet 02 of 03

ISSUED

VERSION I

KEY PLAN



PLANT SCHEDULE

CODE	BOTANICAL NAME	COMMON NAME	HEIGHT X WIDTH	POT SIZE	QTY
Street Trees					
A.f.	*Agonis flexuosa*	*Willow Mrytle*	*7-9x4-5m*	*400mm*	*6*
A.m.	*Acacia melanoxylon*	*Blackwood*	*12-16x5-7m*	*45L*	*10*
B.m.	*Banksia marginata*	*Sliver Banksia*	*2x2m*	*400mm*	*21*
E.l.	*Eucalyptus leucoxylon 'Eukie Dwarf'*	*Dwarf Yellow Gum*	*9-10x7-9m*	*400mm*	*12*

LEGEND

- ST□G□ BO□ND□RY
- □XISTING TR□□ TO B□ R□T□IN□D □ND PROT□CT□D
- PROPOS□D TR□□S □ND SHR□BS
- □XISTING TR□□ TO B□ R□MOV□D
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- RAINGARDEN PLANTING IN 'TARRAWINGEE PEBBLES' GRAVEL MULCH (Ephemeral zone) Refer Detail D, L05
- S□□D□D GR□SS Refer Detail □□L0□
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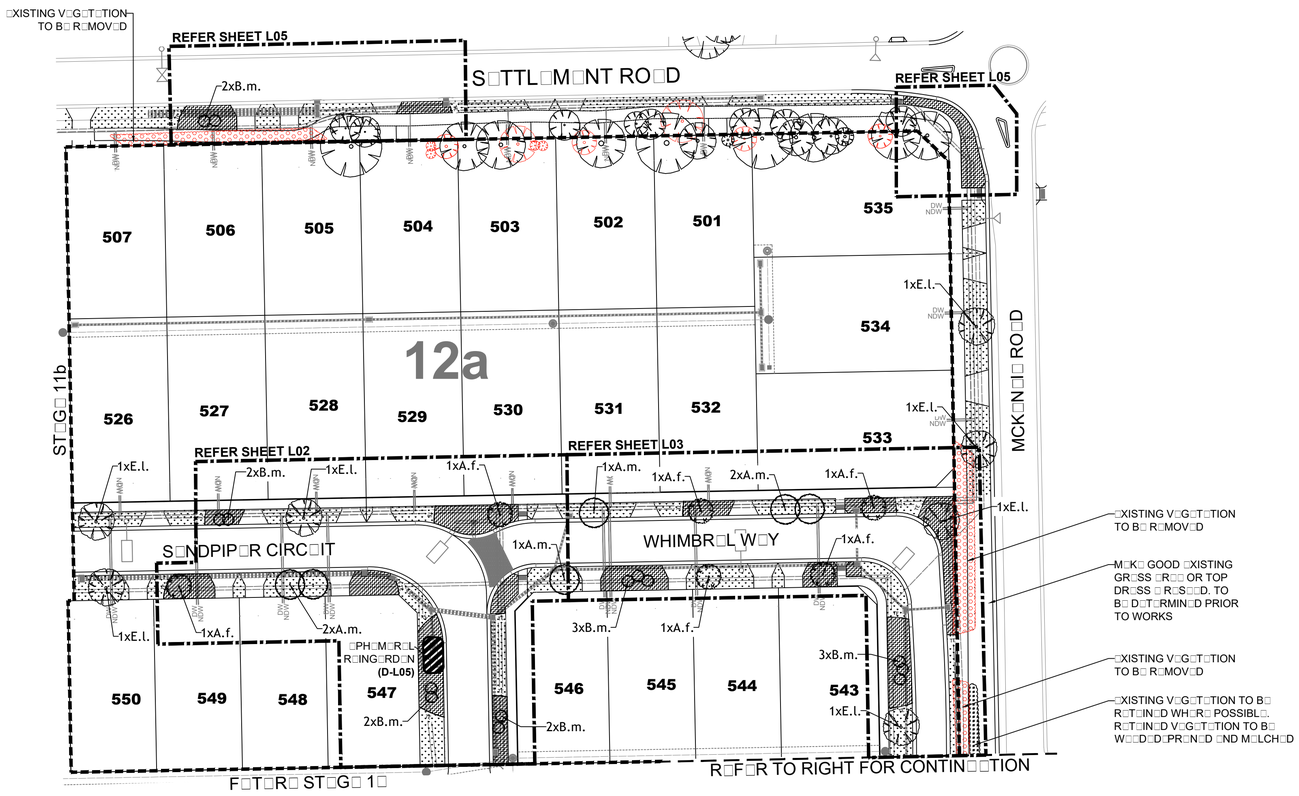
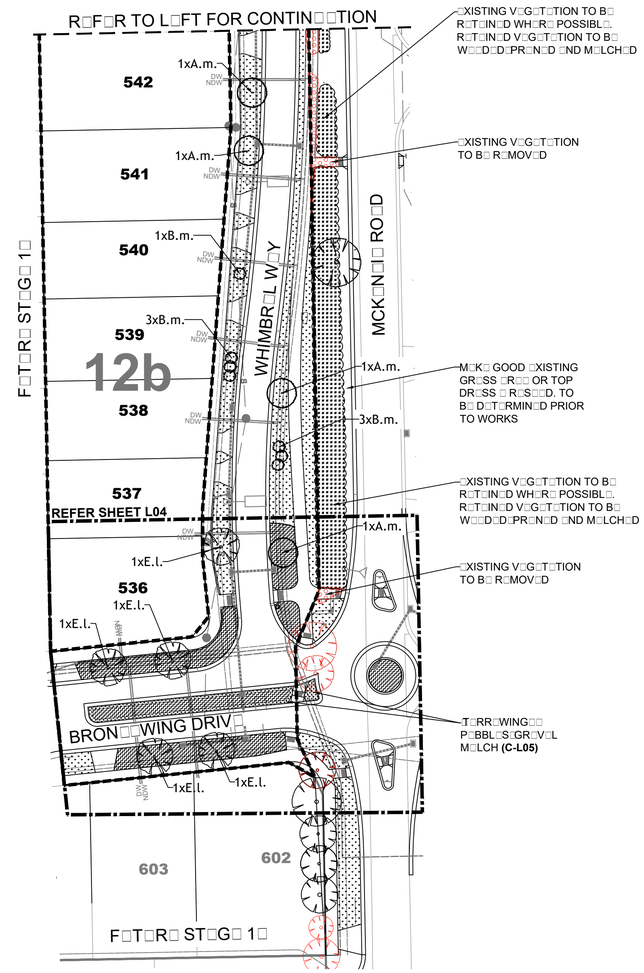
- G□S
- W□T□R
- □L□CTRICITY
- DR□IN□G□
- LIGHT POLES





ESTABLISHMENT & MAINTENANCE NOTES

1. *The site is to be cleared of all debris and builder's rubble. All weed species shall be eradicated by spot spraying with approved herbicide and hand pulling. Pre-planting weed control must be undertaken no less than six weeks prior to planting.*
2. *Approved site or imported topsoil shall be incorporated into garden beds. A 'Landscape Blend' soil mix or any weed free sandy loam/clay mix with added compost, should be added to a depth of approximately 200mm.*
3. *Plants species shall be true to type and there should be no alterations or substitution of nominated species or cultivars without the written consent of the Landscape Architect.*
4. *The Landscape Contractor must verify all plant quantities prior to ordering.*
5. *All plant stock shall be checked by the Contractor and must be healthy and disease free.*
6. *Planting must be undertaken in accordance with sound horticultural practices, with holes dug to a minimum 2.5 times the size of the root ball. Holes should be back-filled to top of root ball. Avoid excessive compaction of soil.*
7. *All plants must be thoroughly hand watered immediately after planting.*
8. *Slow release fertiliser, suitable for native species (eg. 9 month 'Osmocote') shall be applied at the time of planting in accordance with manufacturer's recommended dose rates and application methods.*
9. *Terrestrial planting areas to be mulched to a minimum depth of 80mm with a eucamulch blend - refer to details.*
10. *Raingarden areas are to be mulched with 14-20mm size 'Tarrawingee Pebbles' gravel and lightly compacted to finished surface level of surrounding elements.*
11. *Grassed areas mix as specified.*
12. *90x10mm flexible Redgum or treated Pine timber edge - refer to detail C, L05 - installed between grass & Terrestrial Planting / Raingarden.*
13. *Regular maintenance must be undertaken to remove weed species. Replace any dead or diseased plants as required. Follow up turf establishment and re-top dress and seed as required.*

GENERAL NOTES

1. *Refer to Landscape specification by Beveridge Williams.*
2. *The Landscape Contractor must refer to civil engineering drawings for set out of roads (and / or carpark areas) and all infrastructure.*
3. *This plan is intended for soft landscaping and associated landscape materials and must not be used for any other purposes.*
4. *All survey information supplied is assumed to be correct.*
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6. *The Landscape Contractor must determine the location of all underground services prior to commencing any work on site and shall be liable for any damage to services or conduits.*
7. *The Landscape Contractor must immediately report any perceived errors or omissions in the landscape drawings to the Project Manager and Client.*
8. *Where any conflict occurs between proposed tree locations and infrastructure, such as light poles or powerlines, tree(s) must be relocated or removed.*
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10. *Grassed nature strips as specified.*

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Rev	Description	Date	By	App.
B	Council comment revision	01.0□.1□	P.M.	L.S.
□	Client comment revision	0□.0□.1□	P.M.	L.M.

Rev	Description	Date	By	App.

Project Name: SEAGROVE ESTATE, COWES

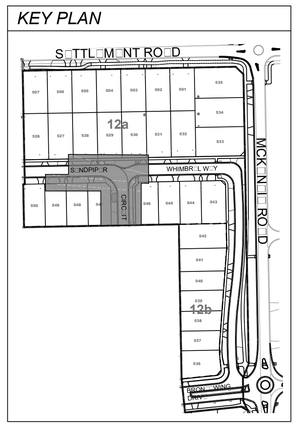
Drawing Title: STAGES 12A & 12B STREET TREE PLAN

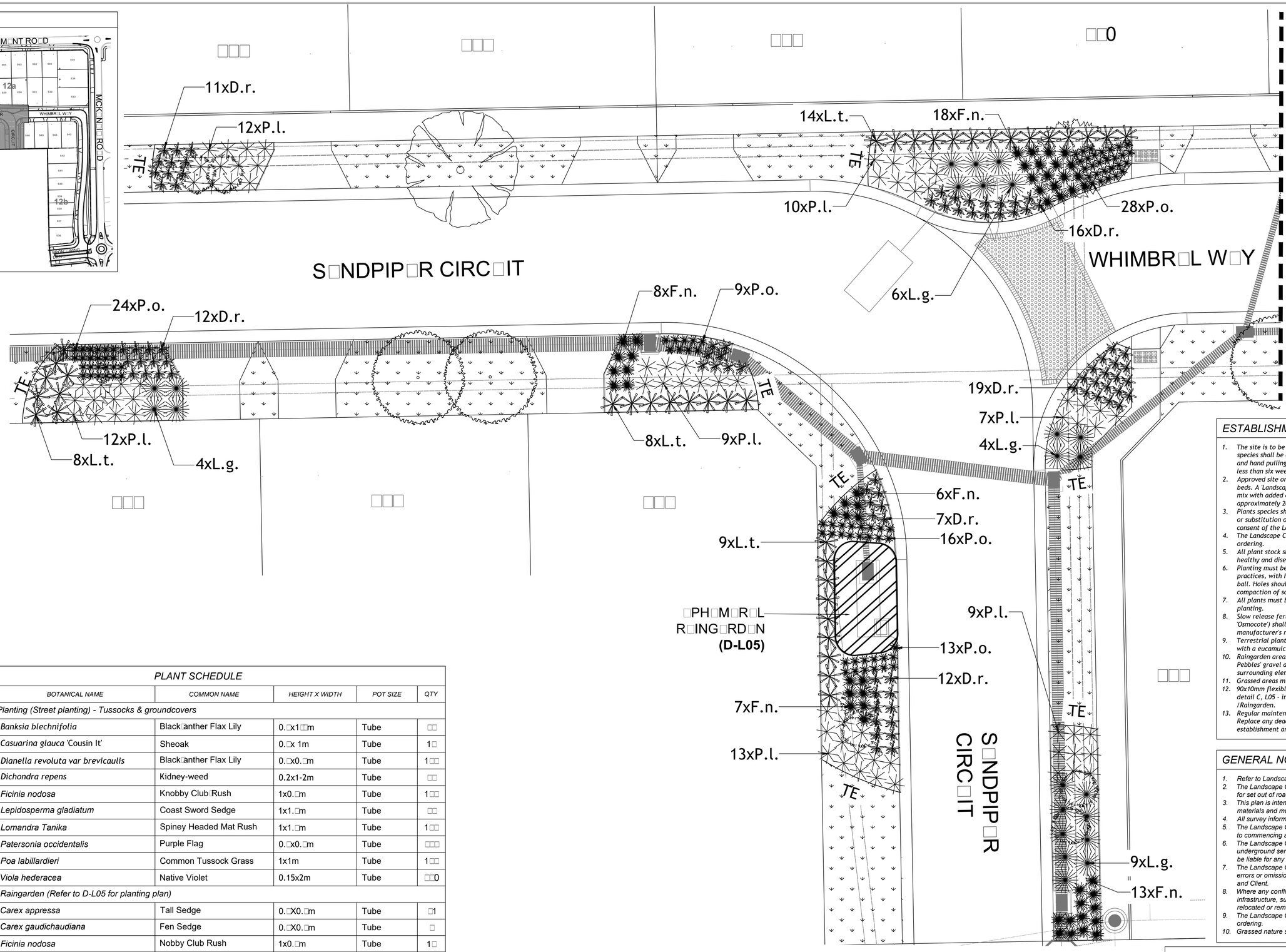
Client: SOUTHERN SUSTAINABLE DEVELOPMENTS PTY LTD

Designed: J.GREEN
Drawn: P.MUNIR
Approved: J.GREEN
Date: 29.03.17

Beveridge Williams
development & environment consultants
1 Glenferrie Road
Malvern, Victoria 3144
ph : 03 9524 8888
www.beveridgewilliams.com.au

Scale: 1:500 @ A1
Project Ref.: 4015-12
Drawing No.: L01
Rev.: B
Drawing Ref.: K:\JOBS DATA\4015 - SEAGROVE ESTATE_LAN\12AB\CAD\4015-12AB LP01 CURRENT.DWG





LEGEND

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ESTABLISHMENT & MAINTENANCE NOTES

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2. *Approved site or imported topsoil shall be incorporated into garden beds. A 'Landscape Blend' soil mix or any weed free sandy loam/clay mix with added compost, should be added to a depth of approximately 200mm.*
3. *Plants species shall be true to type and there should be no alterations or substitution of nominated species or cultivars without the written consent of the Landscape Architect.*
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7. *All plants must be thoroughly hand watered immediately after planting.*
8. *Slow release fertiliser, suitable for native species (eg. 9 month 'Osmocote') shall be applied at the time of planting in accordance with manufacturer's recommended dose rates and application methods.*
9. *Terrestrial planting areas to be mulched to a minimum depth of 80mm with a eucamulch blend - refer to details.*
10. *Raingarden areas are to be mulched with 14-20mm size 'Tarrawingee Pebbles' gravel and lightly compacted to finished surface level of surrounding elements.*
11. *Grassed areas mix as specified.*
12. *90x10mm flexible Redgum or treated Pine timber edge - refer to detail C, L05 - installed between grass & Terrestrial Planting /Raingarden.*
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PLANT SCHEDULE

CODE	BOTANICAL NAME	COMMON NAME	HEIGHT X WIDTH	POT SIZE	QTY
Terrestrial Planting (Street planting) - Tussocks & groundcovers					
B.b.	Banksia blechnifolia	Black□anther Flax Lily	0.□x1□□m	Tube	□□
C.Cl.	Casuarina glauca 'Cousin It'	Sheoak	0.□x 1m	Tube	1□
D.r.	Dianella revoluta var brevicaulis	Black□anther Flax Lily	0.□x0.□m	Tube	1□□
D.re.	Dichondra repens	Kidney-weed	0.2x1-2m	Tube	□□
F.n.	Ficinia nodosa	Knobby Club□Rush	1x0.□m	Tube	1□□
L.g.	Lepidosperma gladiatum	Coast Sword Sedge	1x1.□m	Tube	□□
L.t.	Lomandra Tanika	Spiney Headed Mat Rush	1x1.□m	Tube	1□□
P.o.	Patersonia occidentalis	Purple Flag	0.□x0.□m	Tube	□□□
P.l.	Poa labillardieri	Common Tussock Grass	1x1m	Tube	1□□
V.h.	Viola hederacea	Native Violet	0.15x2m	Tube	□□0
Ephemeral Raingarden (Refer to D-L05 for planting plan)					
C.a.	Carex appressa	Tall Sedge	0.□X0.□m	Tube	□1
C.g.	Carex gaudichaudiana	Fen Sedge	0.□X0.□m	Tube	□
F.n.	Ficinia nodosa	Nobby Club Rush	1x0.□m	Tube	1□
P.l.	Poa labillardieri	Common Tussock □Grass	0.□X0.□m	Tube	1□

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□	Client comment revision	0□.0□.1□	P.M.	L.M.

Rev	Description	Date	By	App.

Project Name: SEAGROVE ESTATE, COWES

Drawing Title: STAGES 12A & 12B LANDSCAPE PLAN - SANDPIPER CIRCUIT

Client: SOUTHERN SUSTAINABLE DEVELOPMENTS PTY LTD

Designed: J.GREEN
Drawn: P.MUNIR
Approved: J.GREEN
Date: 29.03.17

Beveridge Williams
development & environment consultants
1 Glenferrie Road
Malvern, Victoria 3144
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Scale: 1:100 @ A1

Project Ref.: 4015-12
Drawing No.: L02
Rev.: B

Drawing Ref.: K:\JOBS DATA\4015 - SEAGROVE ESTATE_LAN\12AB\CAD\4015-12AB LP01 CURRENT.DWG

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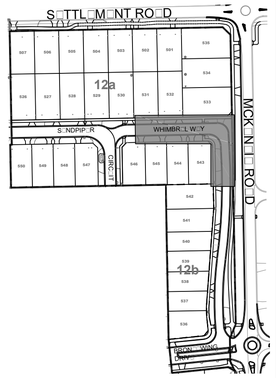
KEY PLAN



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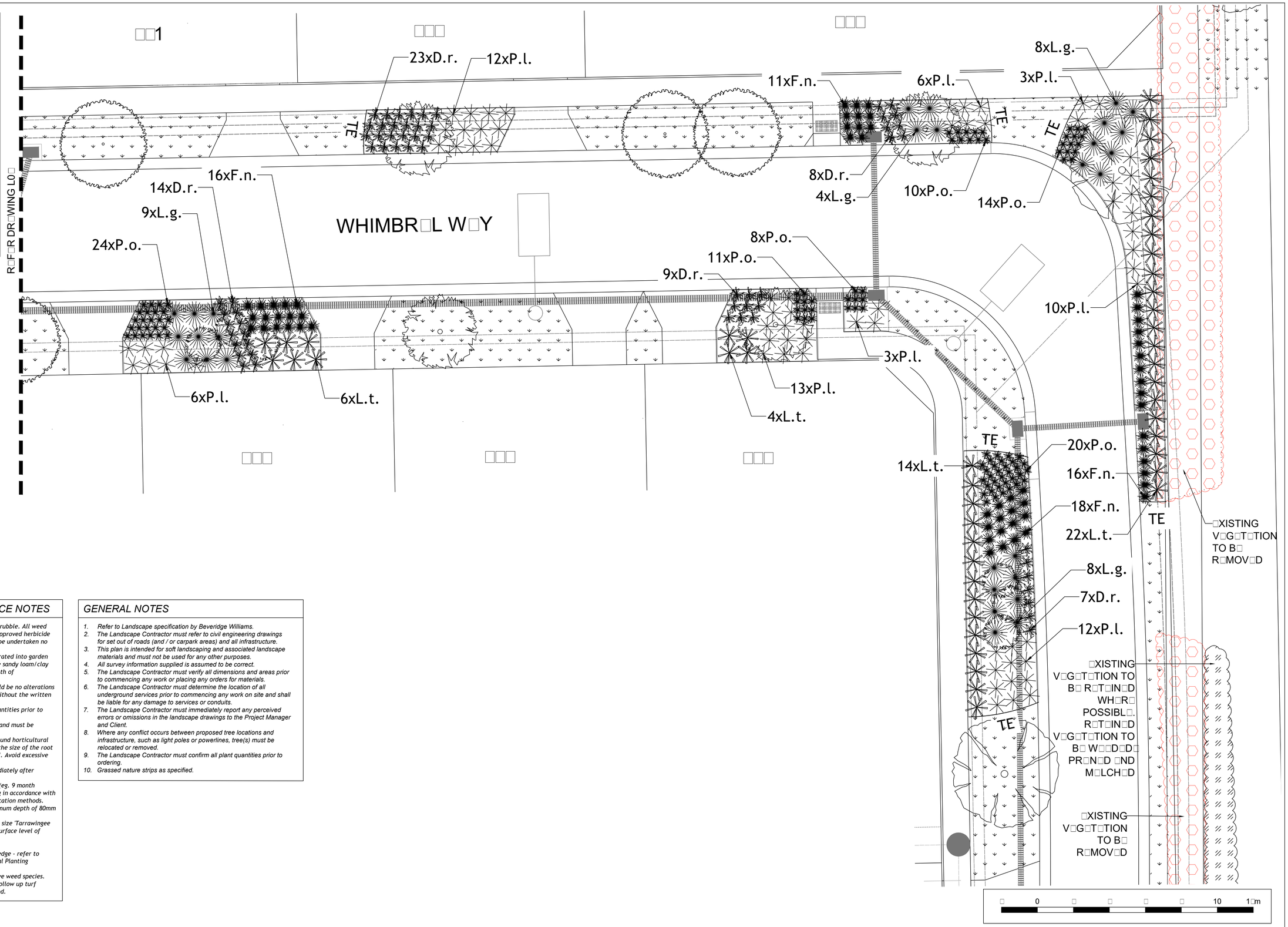

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□	Client comment revision	0□.0□.1□	P.M.	L.M.

Rev	Description	Date	By	App.

Project Name: SEAGROVE ESTATE, COWES

Drawing Title: STAGES 12A & 12B LANDSCAPE PLAN - WHIMBREL WAY

Client: SOUTHERN SUSTAINABLE DEVELOPMENTS PTY LTD

Designed: J.GREEN
Drawn: P.MUNIR
Approved: J.GREEN
Date: 29.03.17

Beveridge Williams
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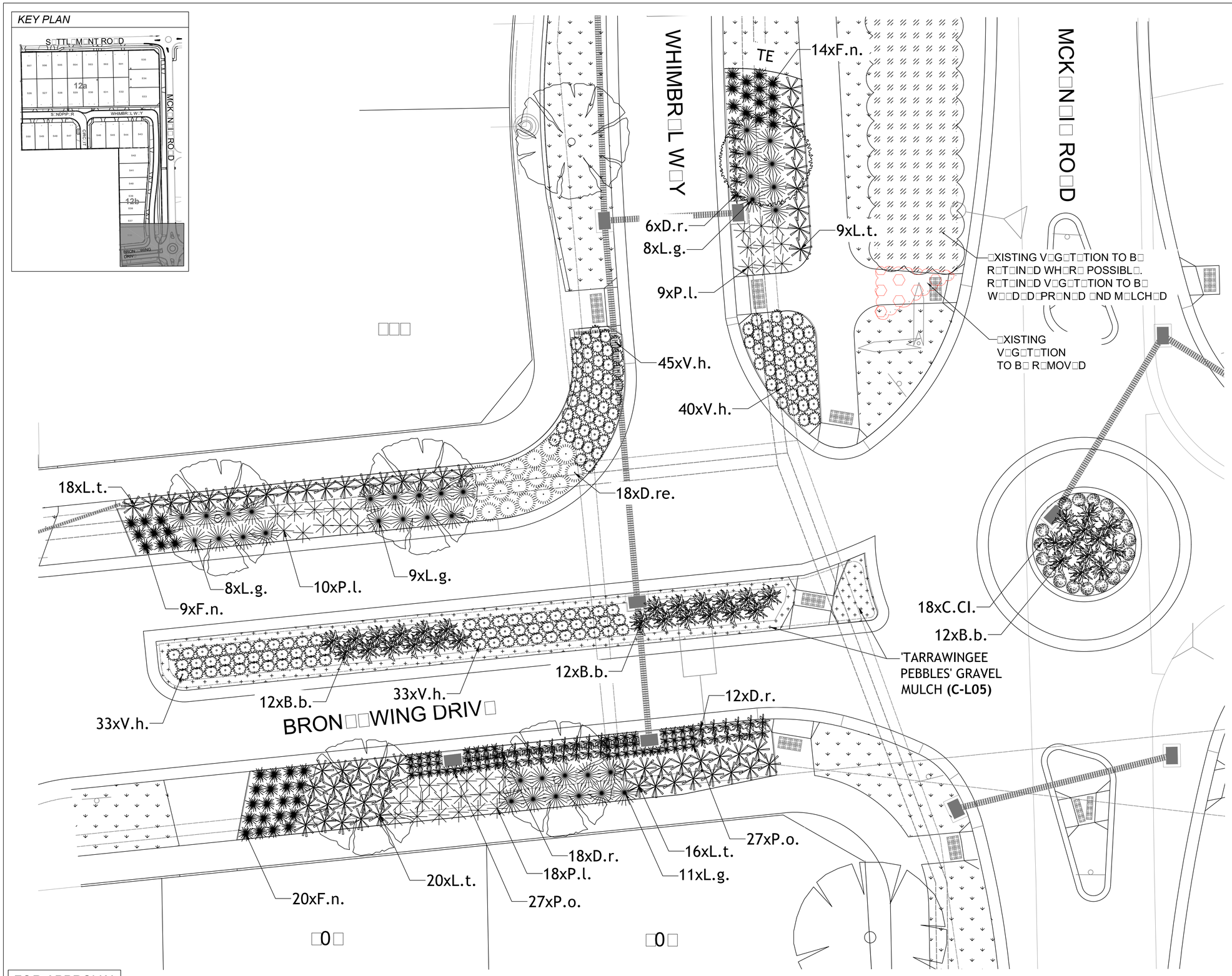
Scale: 1:100 @ A1

Project Ref.: 4015-12
Drawing No.: L03
Rev.: B

Drawing Ref.: K:\JOBS DATA\4015 - SEAGROVE ESTATE_LAN\12AB\CAD\4015-12AB LP01 CURRENT.DWG



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Rev	Description	Date	By	App.

Project Name: SEAGROVE ESTATE, COWES

Drawing Title: STAGES 12A & 12B LANDSCAPE PLAN - BRONZEWING DRIVE

Client: SOUTHERN SUSTAINABLE DEVELOPMENTS PTY LTD

Designed: J.GREEN
Drawn: P.MUNIR
Approved: J.GREEN
Date: 29.03.17

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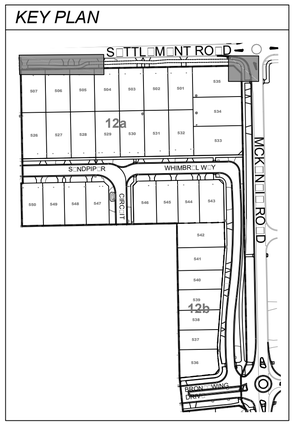

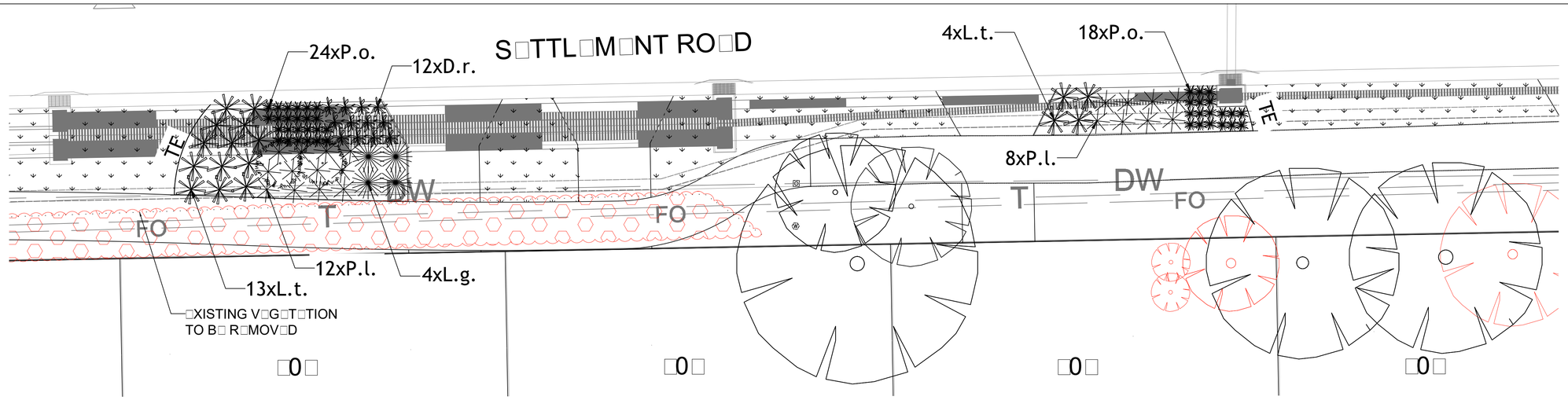

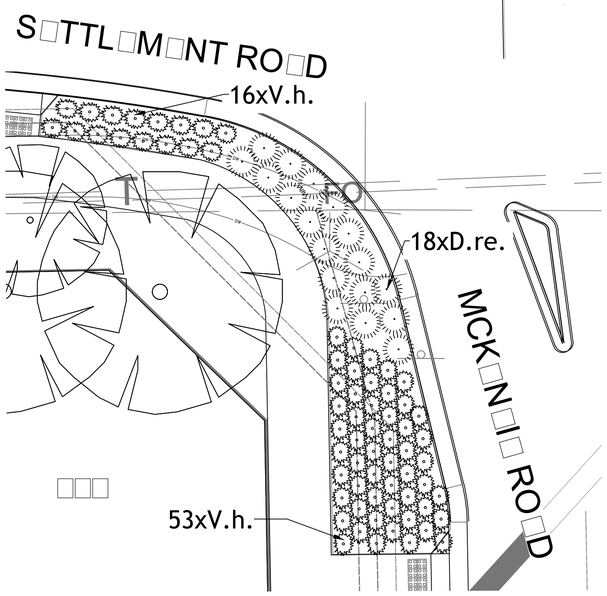

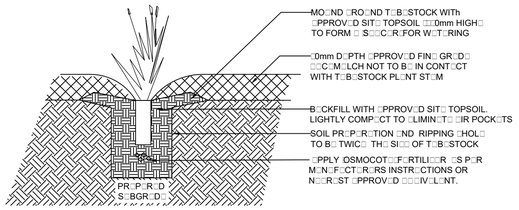

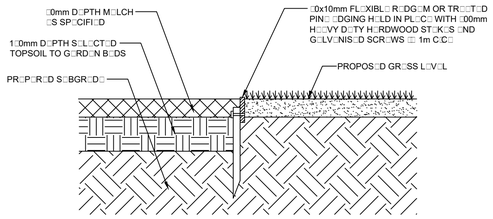

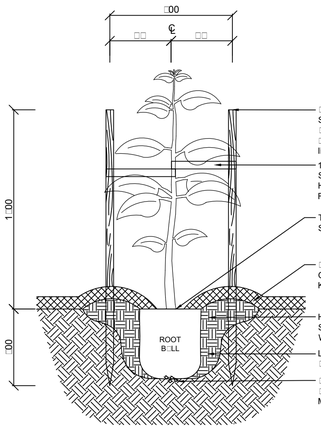

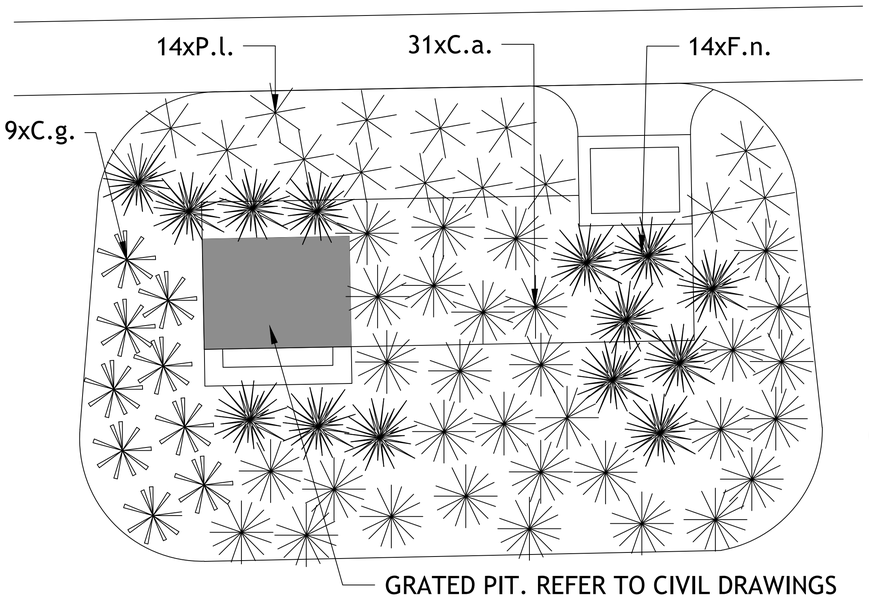

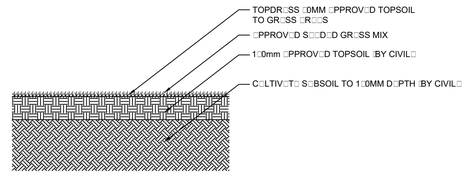

LEGEND

- □XISTING TR□□ TO B□ R□T□IN□D □ND PROT□CT□D
- PROPOS□D TR□□S □ND SHR□BS
- TERRESTRIAL PLANTING
- RAINGARDEN PLANTING IN 'TARRAWINGEE PEBBLES' GRAVEL MULCH (Ephemeral zone) Refer Detail D, L05
- □XISTING TR□□ TO B□ R□MOV□D
- S□□D□D GR□SS Refer Detail □L0□
- TIMB□R □DG□ Refer Detail C□L0□
- □XISTING V□G□T□TION □To be retained where possible□
- □XISTING V□G□T□TION □To be removed□
- T□RR□WING□□ P□BBL□S□GR□V□L M□LCH Refer Detail C□L0□
- T□LSTR□
- G□S
- W□T□R
- □L□CTRICITY
- DR□IN□G□
- LIGHT POLES

ESTABLISHMENT & MAINTENANCE NOTES

1. *The site is to be cleared of all debris and builder's rubble. All weed species shall be eradicated by spot spraying with approved herbicide and hand pulling. Pre-planting weed control must be undertaken no less than six weeks prior to planting.*
2. *Approved site or imported topsoil shall be incorporated into garden beds. A 'Landscape Blend' soil mix or any weed free sandy loam/clay mix with added compost, should be added to a depth of approximately 200mm.*
3. *Plants species shall be true to type and there should be no alterations or substitution of nominated species or cultivars without the written consent of the Landscape Architect.*
4. *The Landscape Contractor must verify all plant quantities prior to ordering.*
5. *All plant stock shall be checked by the Contractor and must be healthy and disease free.*
6. *Planting must be undertaken in accordance with sound horticultural practices, with holes dug to a minimum 2.5 times the size of the root ball. Holes should be back-filled to top of root ball. Avoid excessive compaction of soil.*
7. *All plants must be thoroughly hand watered immediately after planting.*
8. *Slow release fertiliser, suitable for native species (eg. 9 month 'Osmocote') shall be applied at the time of planting in accordance with manufacturer's recommended dose rates and application methods.*
9. *Terrestrial planting areas to be mulched to a minimum depth of 80mm with a eucamulch blend - refer to details.*
10. *Raingarden areas are to be mulched with 14-20mm size 'Tarrawingee Pebbles' gravel and lightly compacted to finished surface level of surrounding elements.*
11. *Grassed areas mix as specified.*
12. *90x10mm flexible Redgum or treated Pine timber edge - refer to detail C, L05 - installed between grass & Terrestrial Planting /Raingarden.*
13. *Regular maintenance must be undertaken to remove weed species. Replace any dead or diseased plants as required. Follow up turf establishment and re-top dress and seed as required.*

GENERAL NOTES

1. *Refer to Landscape specification by Beveridge Williams.*
2. *The Landscape Contractor must refer to civil engineering drawings for set out of roads (and / or carpark areas) and all infrastructure.*
3. *This plan is intended for soft landscaping and associated landscape materials and must not be used for any other purposes.*
4. *All survey information supplied is assumed to be correct.*
5. *The Landscape Contractor must verify all dimensions and areas prior to commencing any work or placing any orders for materials.*
6. *The Landscape Contractor must determine the location of all underground services prior to commencing any work on site and shall be liable for any damage to services or conduits.*
7. *The Landscape Contractor must immediately report any perceived errors or omissions in the landscape drawings to the Project Manager and Client.*
8. *Where any conflict occurs between proposed tree locations and infrastructure, such as light poles or powerlines, tree(s) must be relocated or removed.*
9. *The Landscape Contractor must confirm all plant quantities prior to ordering.*
10. *Grassed nature strips as specified.*

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FOR APPROVAL

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Rev	Description	Date	By	App.
B	Council comment revision	01.0□.1□	P.M.	L.S.
□	Client comment revision	0□.0□.1□	P.M.	L.M.

Rev	Description	Date	By	App.

Project Name: SEAGROVE ESTATE, COWES

Drawing Title: STAGES 12A & 12B LANDSCAPE DETAILS

Client: SOUTHERN SUSTAINABLE DEVELOPMENTS PTY LTD

Designed: J.GREEN
Drawn: P.MUNIR
Approved: J.GREEN
Date: 29.03.17

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Scale: 1:100 @ A1
Project Ref.: 4015-12
Drawing No.: L05
Rev.: B
Drawing Ref.: K:\JOBS DATA\4015 - SEAGROVE ESTATE_LAN\12AB\CAD\4015-12AB LP01 CURRENT.DWG

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