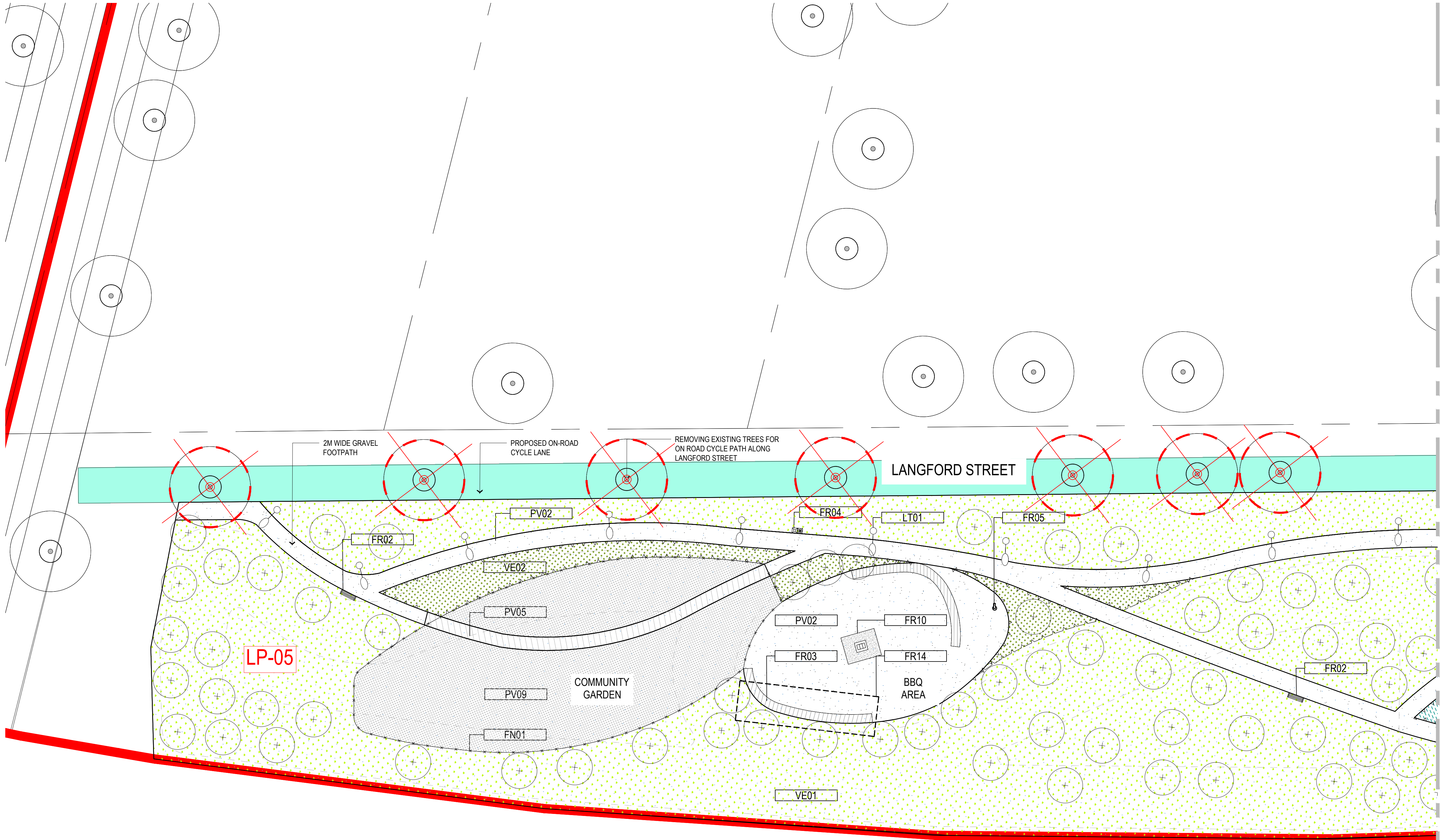


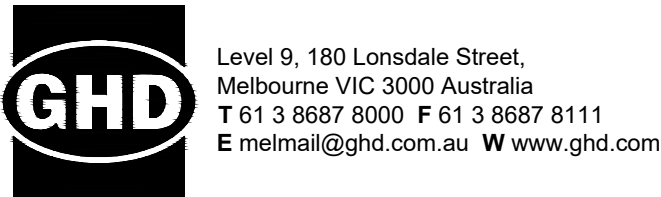
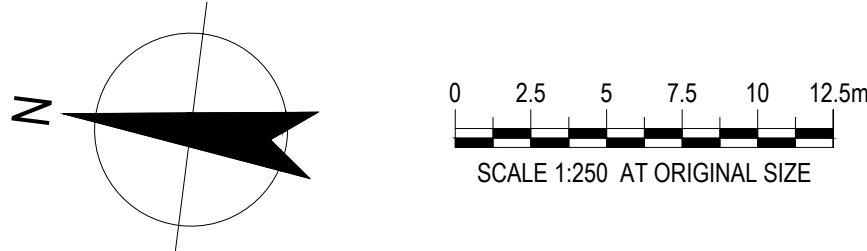
KEY PLAN

FLOOD STORAGE :
Basin - 8350m2 @ 1.2m depth
Batter - 1:6 over 7m
Flood storage = 10,080m3



CONTINUE TO DRAWING 31-12544116-L0107

Rev	Description	Checked	Approved	Date
C	REVISED NAME	COD	LM	26.04.21
B	REVISED CONCEPT	COD	LM	26.03.21
A	CONCEPT	COD	LM	01.03.21
Author	J. ANTONIO	Drafting Check		
Designer	C. DU	Design Check	C.ODOWD	



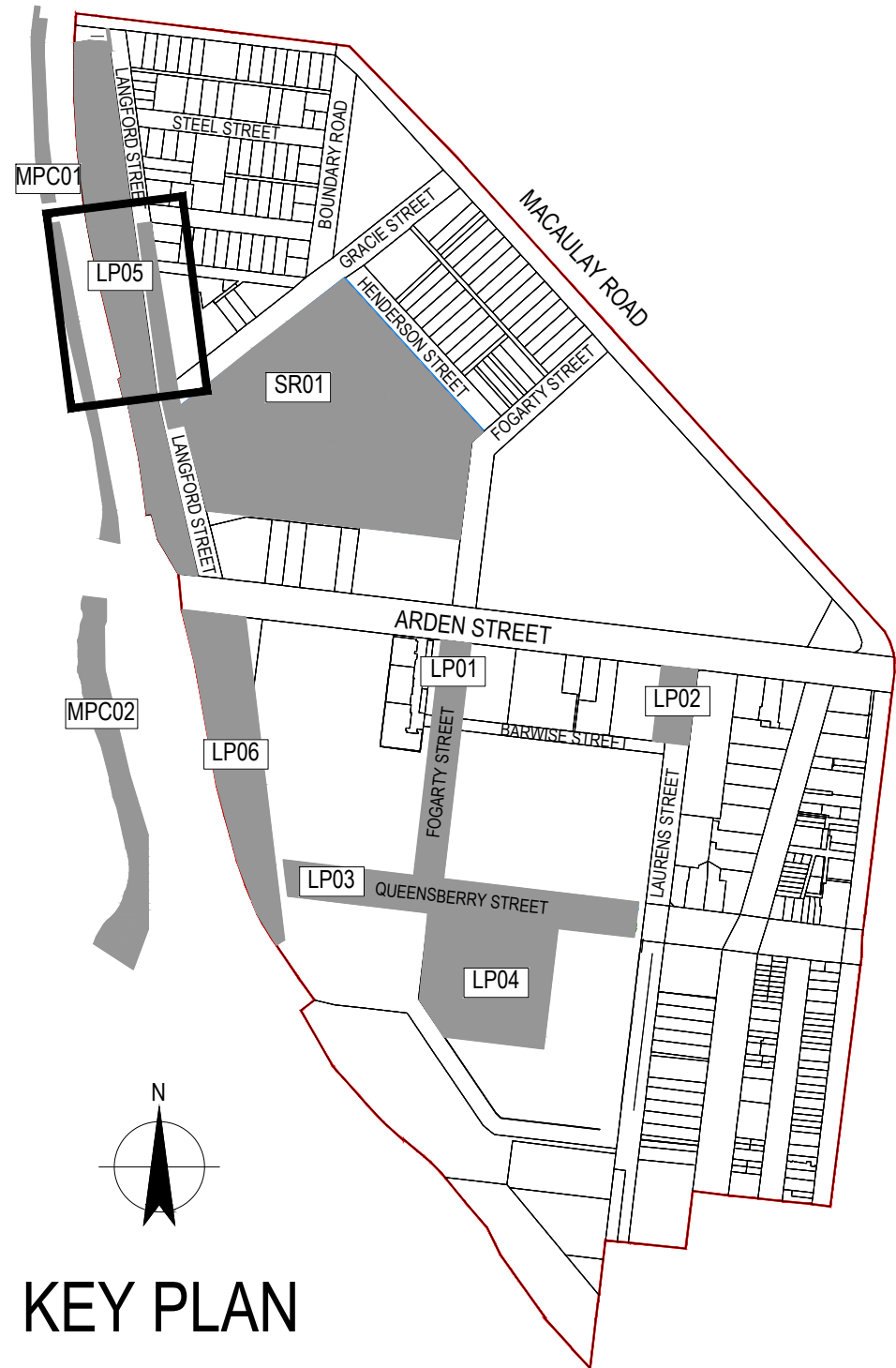
Project No.
31-12544116

Client	VICTORIA PLANNING AUTHORITY
Project	ARDEN PUBLIC SPACES
Status	CONCEPT

Drawing Title
GENERAL ARRANGEMENT PLAN
SHEET 06 of 20
LP-05 LANGFORD STREET
FLOOD STORAGE OPEN SPACE

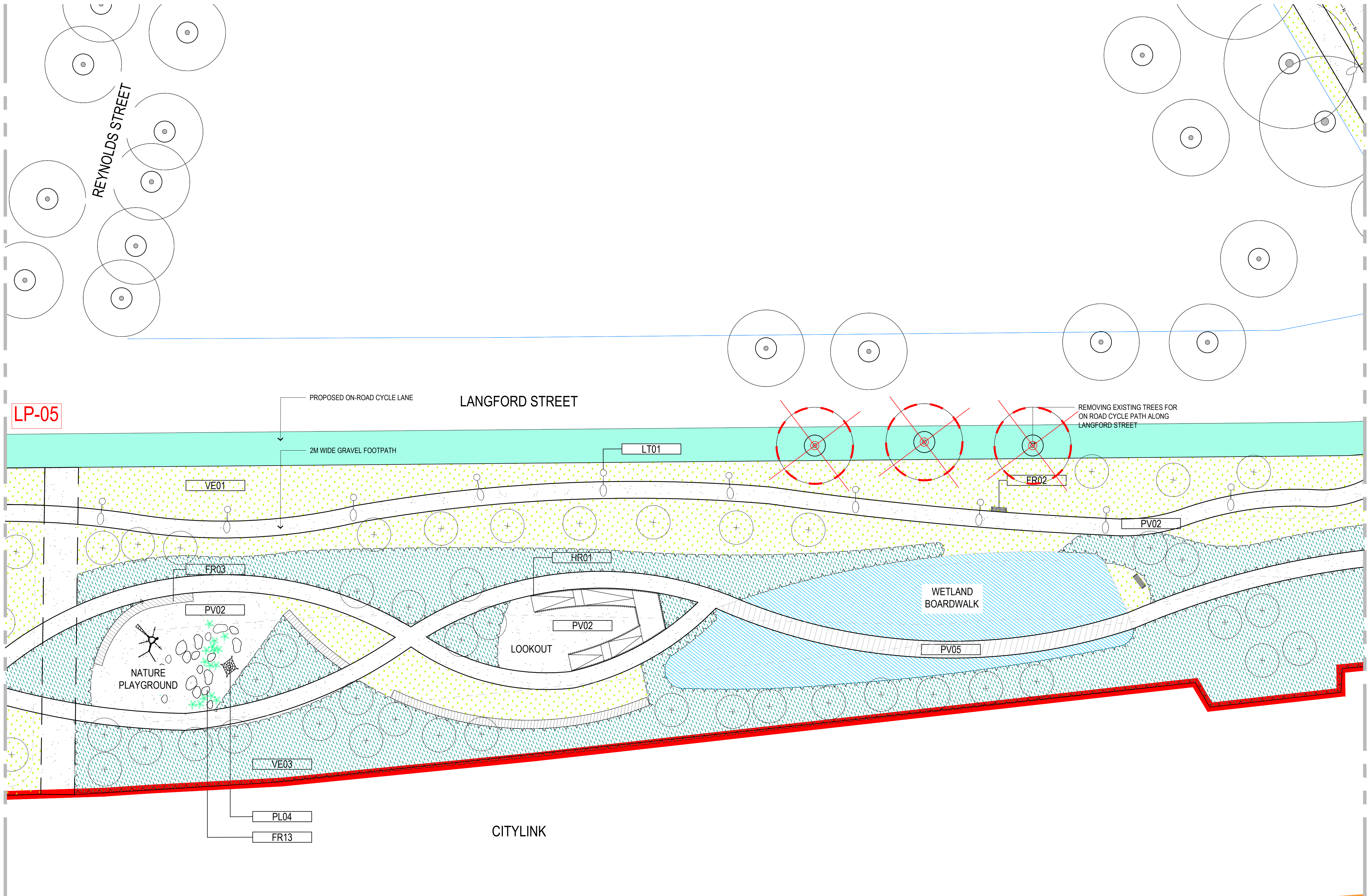
Drawing No.
31 - 12544116 - L0106

Size
A1
Rev
C



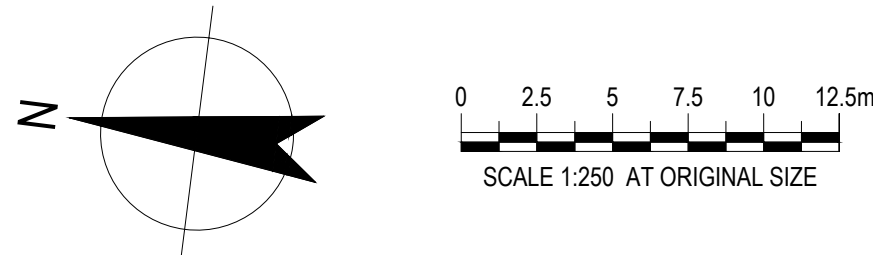
KEY PLAN

CONTINUE TO DRAWING 31-12544116-L0106



CONTINUE TO DRAWING 31-12544116-L0108

Rev	Description	Checked	Approved	Date
C	REVISED NAME	COD	LM	26.04.21
B	REVISED CONCEPT	COD	LM	26.03.21
A	CONCEPT	COD	LM	01.03.21
Author	J. ANTONIO	Drafting Check		
Designer	C.DU	Design Check	C.ODOWD	



Project No.
31-12544116

Client VICTORIA PLANNING AUTHORITY
Project ARDEN PUBLIC SPACES
Status CONCEPT

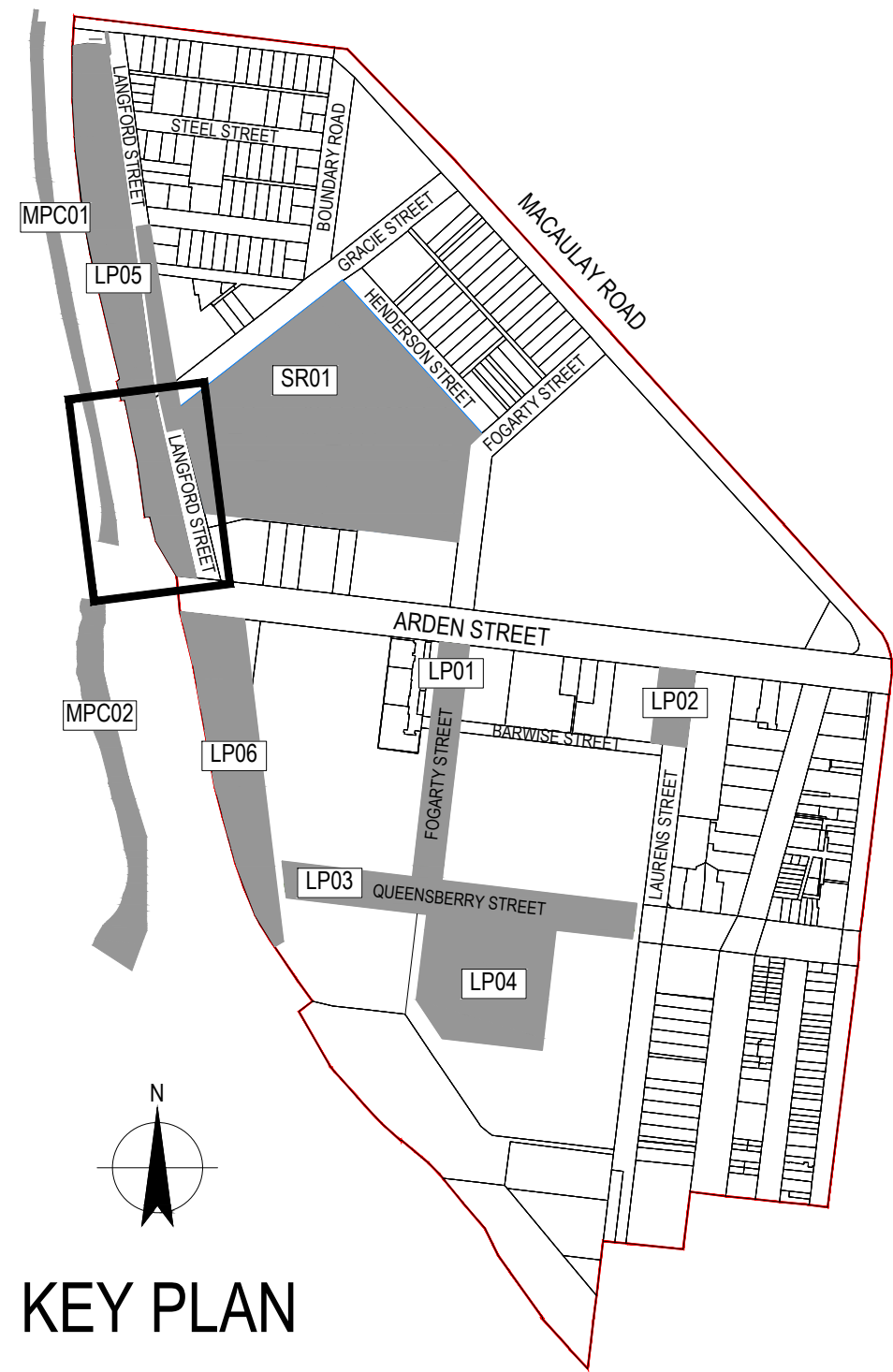
Status
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Drawing Title
GENERAL ARRANGEMENT PLAN
SHEET 07 of 20
LP-05 LANGFORD STREET
FLOOD STORAGE OPEN SPACE

Drawing No.
31 - 12544116 - L0107

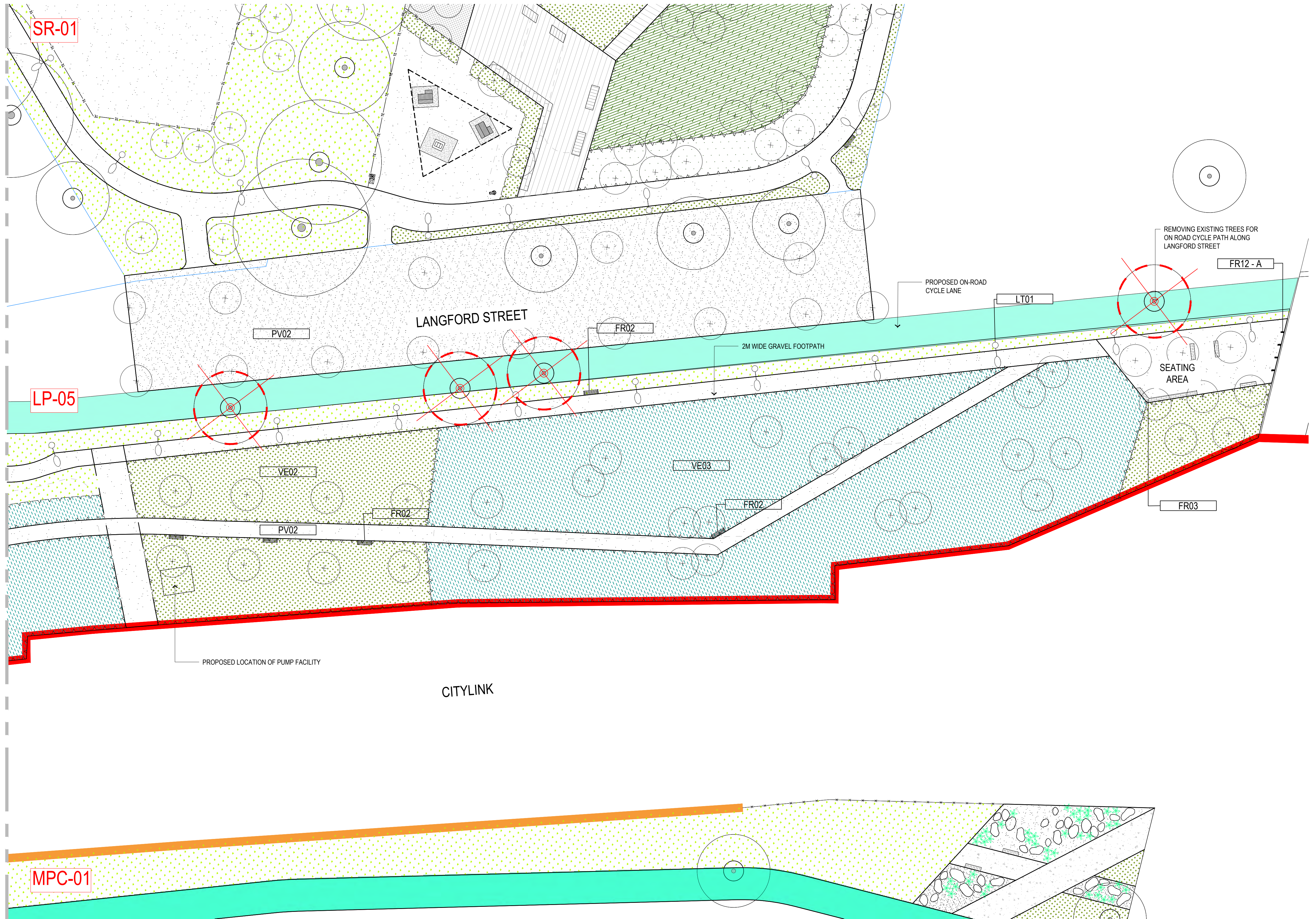
Size
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Rev
C

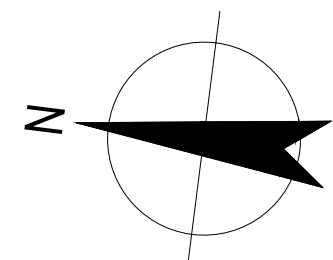


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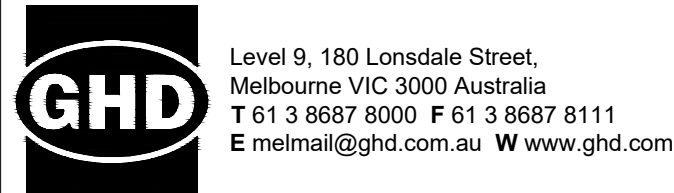
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Rev	Description	Checked	Approved	Date
C	REVISED NAME	COD	LM	26.04.21
B	REVISED CONCEPT	COD	LM	26.03.21
A	CONCEPT	COD	LM	01.03.21
Author	J. ANTONIO	Drafting Check		
Designer	C. DU	Design Check	C.ODOWD	



0 2.5 5 7.5 10 12.5m
SCALE 1:250 AT ORIGINAL SIZE



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Project No.
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Project ARDEN PUBLIC SPACES
Status CONCEPT

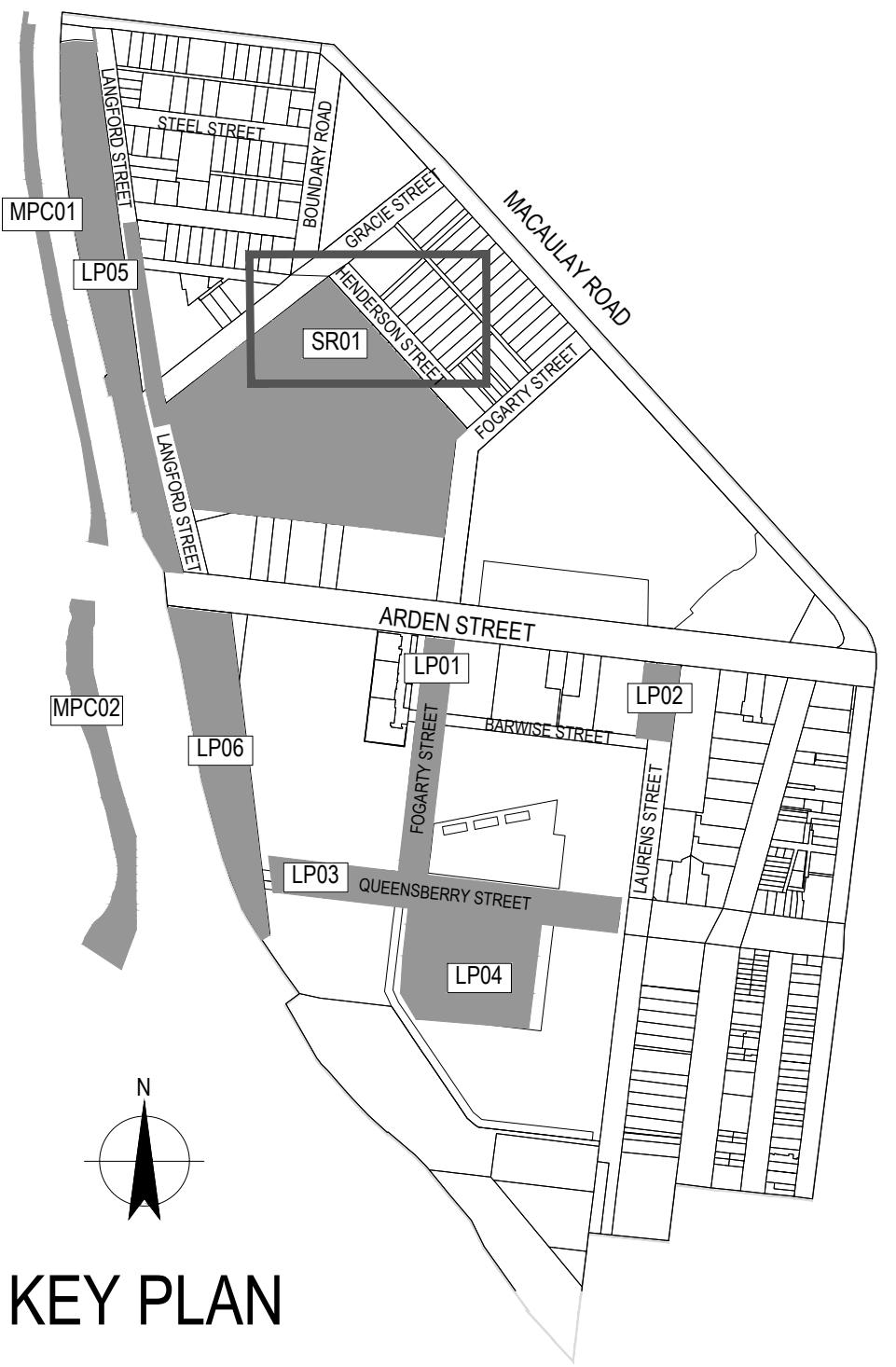
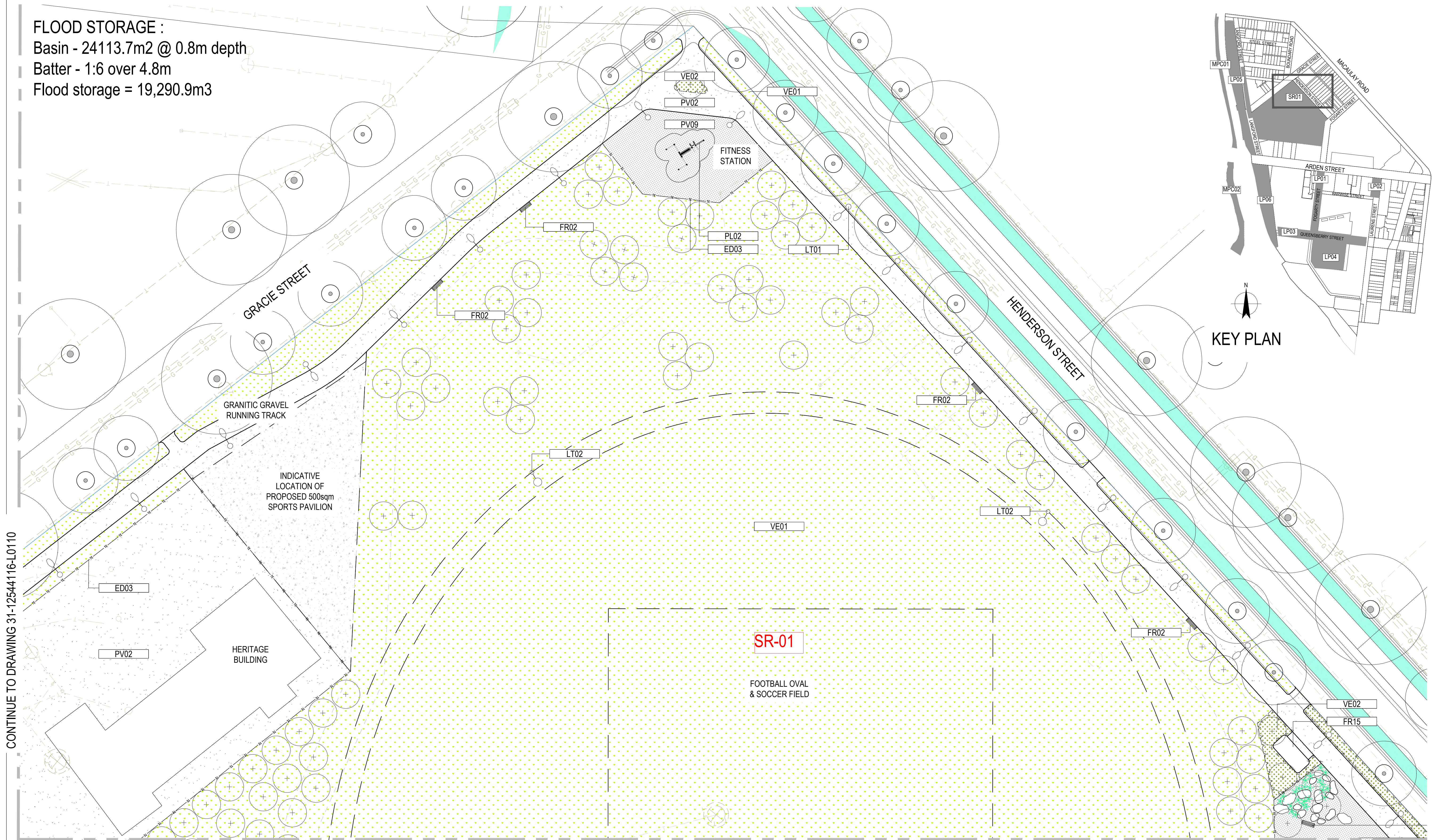
Drawing Title
GENERAL ARRANGEMENT PLAN
SHEET 08 of 20
LP-05 LANGFORD STREET
FLOOD STORAGE OPEN SPACE

Drawing No.
31 - 12544116 - L0108

Size
A1
Rev
C

FLOOD STORAGE :
Basin - 24113.7m2 @ 0.8m depth
Batter - 1:6 over 4.8m
Flood storage = 19,290.9m3

CONTINUE TO DRAWING 31-12544116-L0110

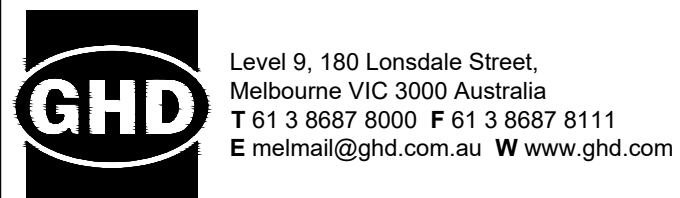


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Rev	Description	Checked	Approved	Date
D	REVISED NAME	COD	LM	26.04.21
C	UPDATED DESIGN	COD	LM	09.04.21
B	REVISED CONCEPT	COD	LM	26.03.21
A	CONCEPT	COD	LM	01.03.21
Author	J. ANTONIO	Drafting Check	Reg No.	
Designer	C.DU	Design Check	C.ODOWD	Date

Plot Date: 23 April 2021 - 3:27 PM Plotted by: Carmen Du

File Name: \\ghdnet\ghd\AU\Melbourne\Projects\31\12544116\CADD\Drawings\LANDSCAPE\31-12544116-L0109- L0112.dwg



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Project No.
31-12544116

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Project ARDEN PUBLIC SPACES
Status CONCEPT

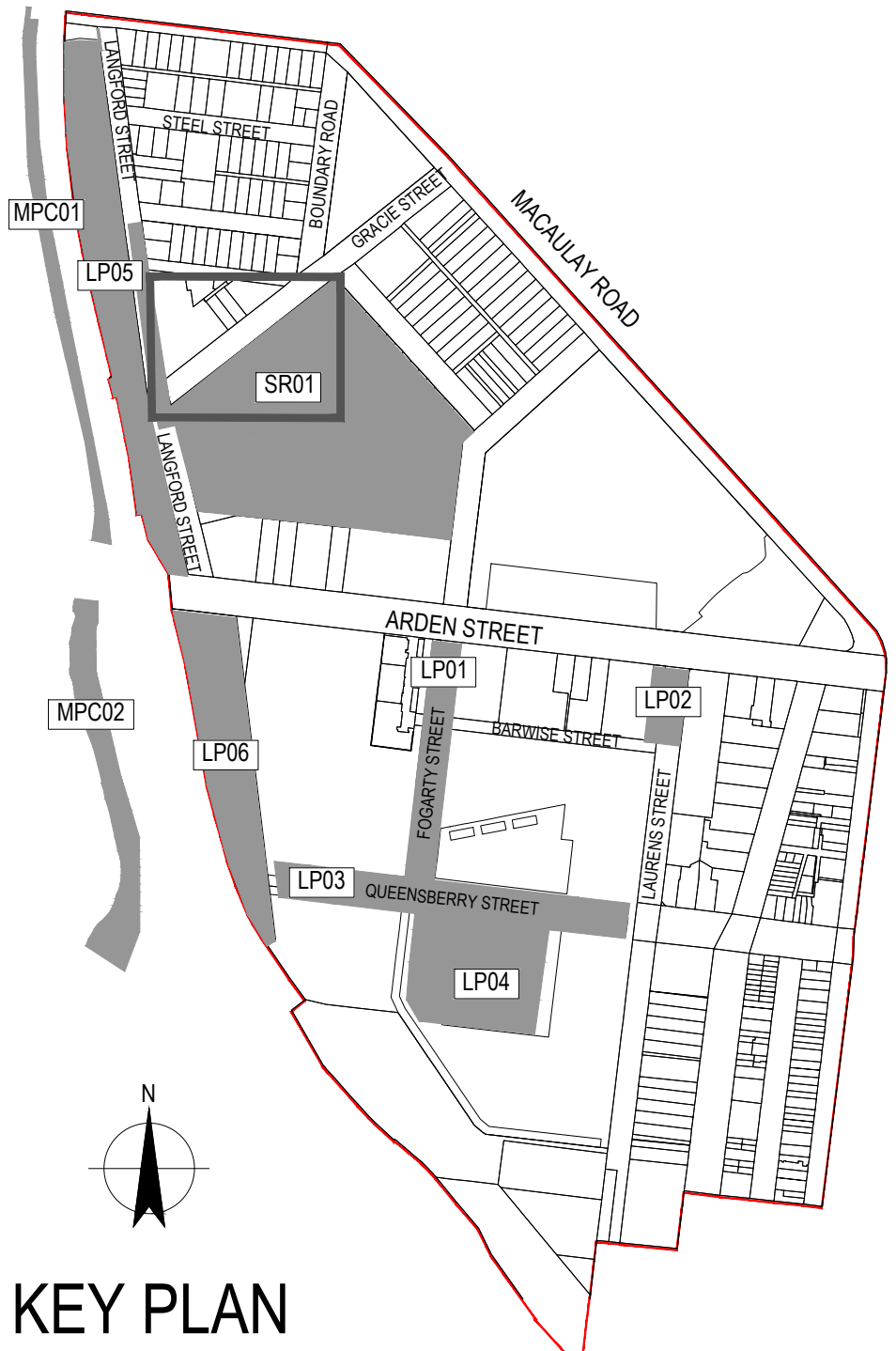
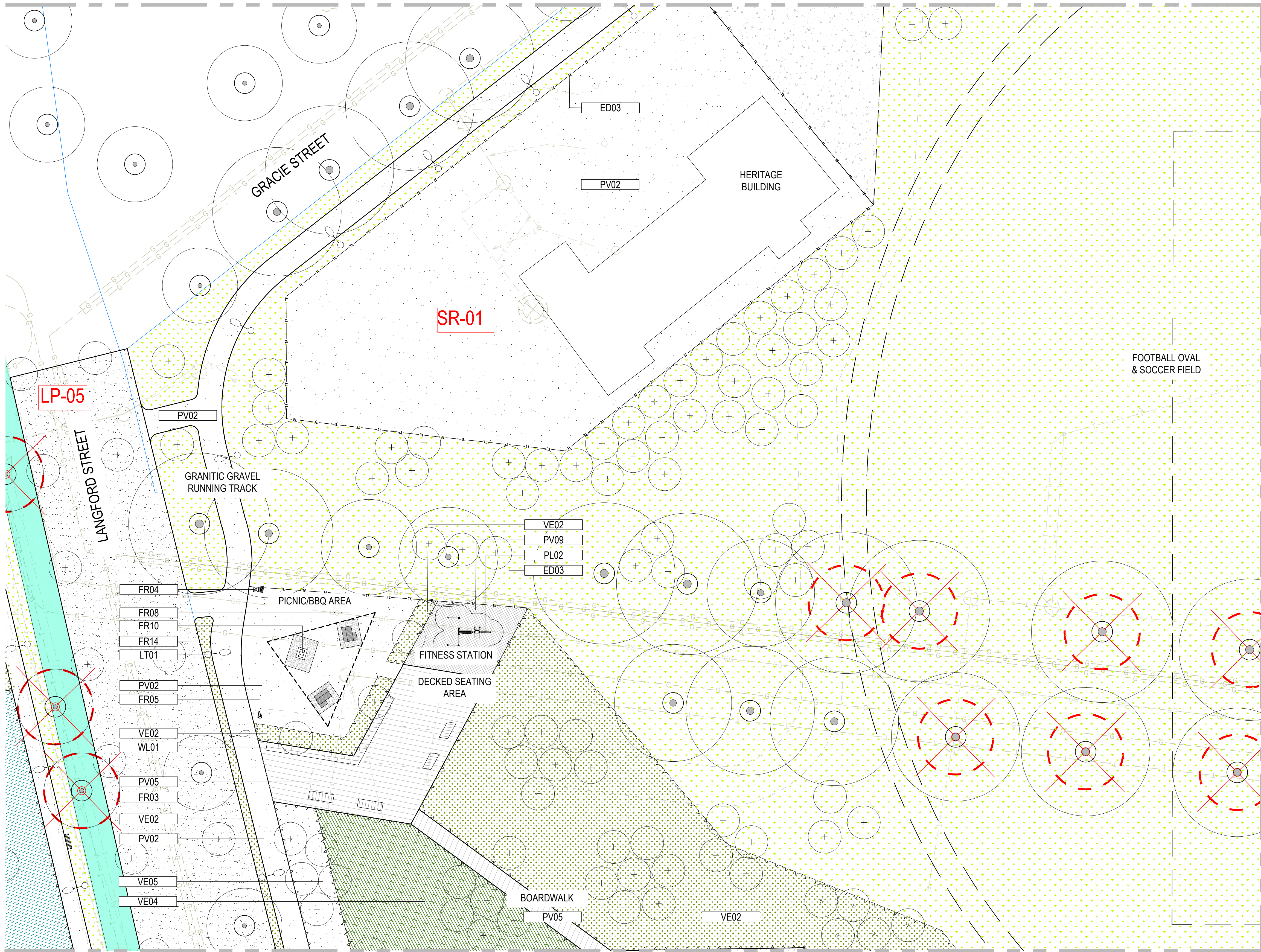
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Drawing Title
GENERAL ARRANGEMENT PLAN
SHEET 09 of 20
SR-01 ARDEN NORTH
FLOOD STORAGE OPEN SPACE

Drawing No.
31 - 12544116 - L0109

Size
A1
Rev
D

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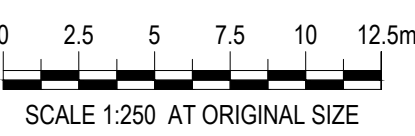
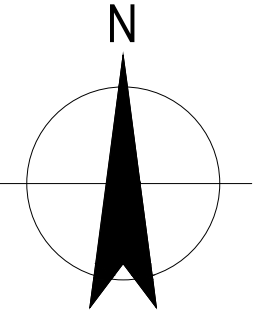


KEY PLAN

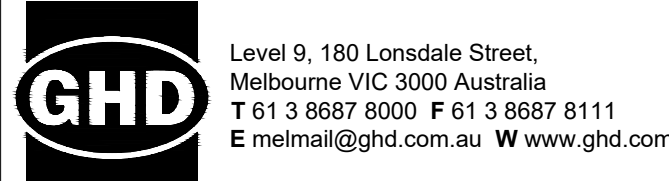
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CONTINUE TO DRAWING 31-12544116-L0111

D	REVISED NAME	COD	LM	26.04.21
C	UPDATED DESIGN	COD	LM	09.04.21
B	REVISED CONCEPT	COD	LM	26.03.21
A	CONCEPT	COD	LM	01.03.21
Rev	Description	Checked	Approved	Date
Author	J. ANTONIO	Drafting Check		Reg No.
Designer	C.DU	Design Check	C.ODOWD	Date



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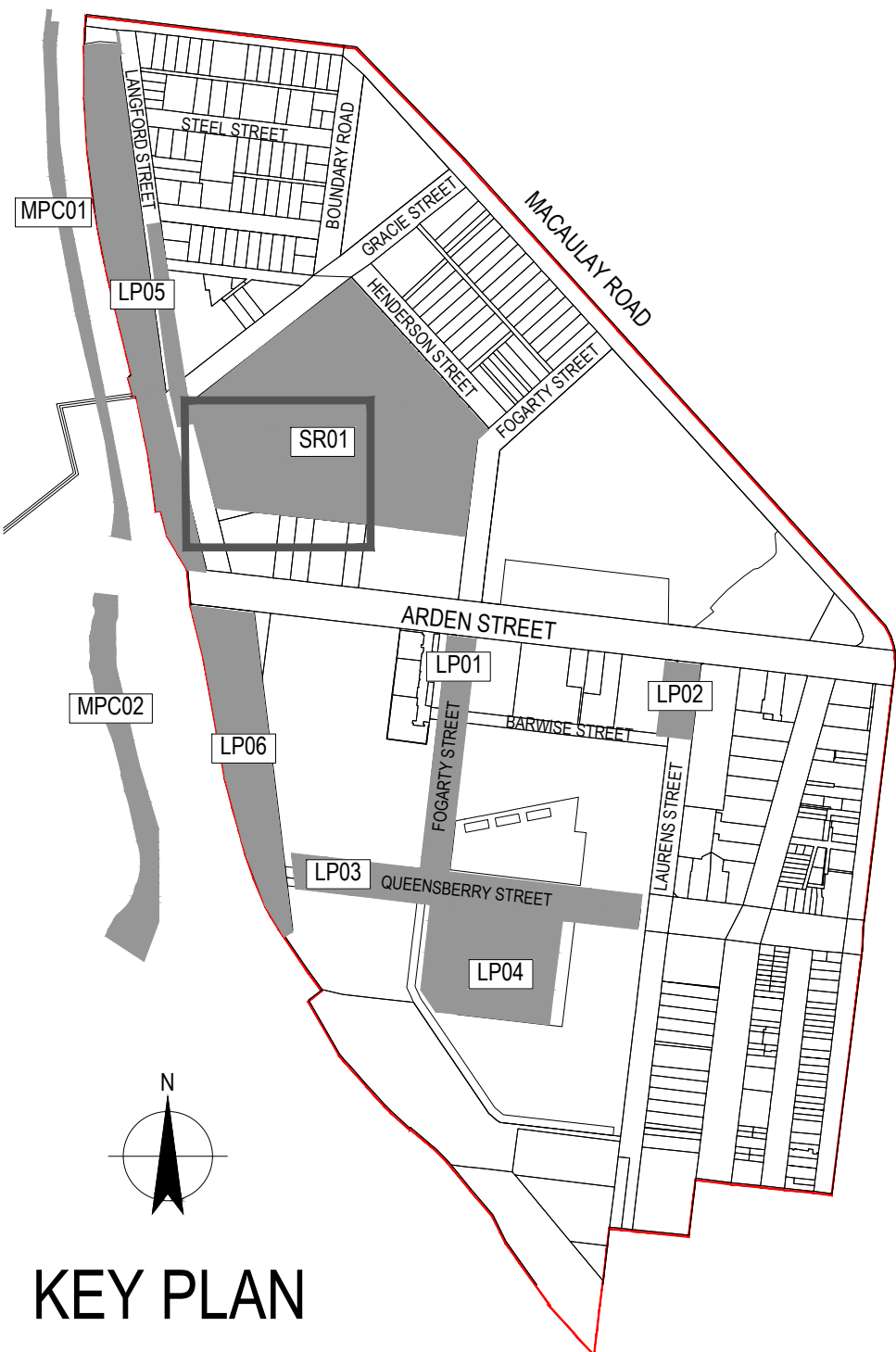
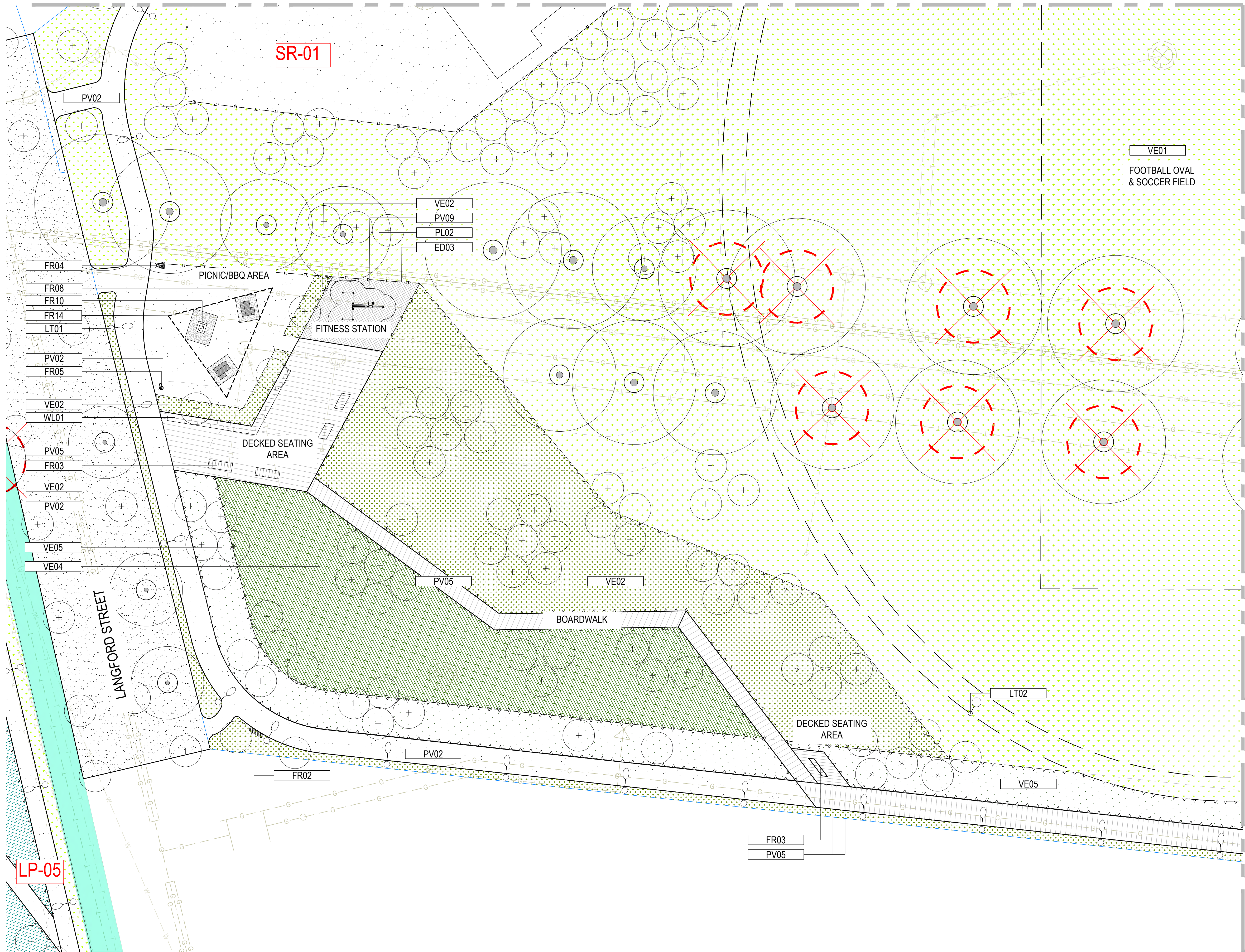
Project No. 31-12544116

Client	VICTORIA PLANNING AUTHORITY
Project	ARDEN PUBLIC SPACES
Status	CONCEPT

Drawing Title	GENERAL ARRANGEMENT PLAN SHEET 10 of 20 SR-01 ARDEN NORTH FLOOD STORAGE OPEN SPACE
Drawing No.	31 - 12544116 - L0110

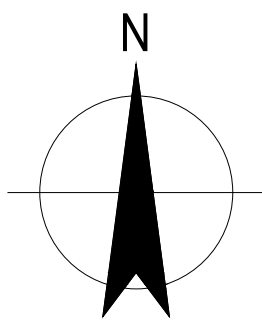
Size	A1
Rev	D

CONTINUE TO DRAWING 31-12544116-L0110



CONTINUE TO DRAWING 31-12544116-L0112

Rev	Description	Checked	Approved	Date
D	REVISED NAME	COD	LM	26.04.21
C	UPDATED DESIGN	COD	LM	09.04.21
B	REVISED CONCEPT	COD	LM	26.03.21
A	CONCEPT	COD	LM	01.03.21
Author	J. ANTONIO	Drafting Check		Reg No.
Designer	C.DU	Design Check	C.ODOWD	Date



0 2.5 5 7.5 10 12.5m
SCALE 1:250 AT ORIGINAL SIZE



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Project No.
31-12544116

Client VICTORIA PLANNING AUTHORITY
Project ARDEN PUBLIC SPACES
Status CONCEPT

Drawing Title
GENERAL ARRANGEMENT PLAN
SHEET 11 of 20
SR-01 ARDEN NORTH
FLOOD STORAGE OPEN SPACE

Drawing No.
31 - 12544116 - L0111

Size
A1

Rev
D

SR-01

VE01
FOOTBALL OVAL
& SOCCER FIELD

VE02
NATURE PLAY

VE03
PICNIC/BBQ
AREA

VE04
GRANITIC GRAVEL
RUNNING TRACK

VE05
FITNESS STATION

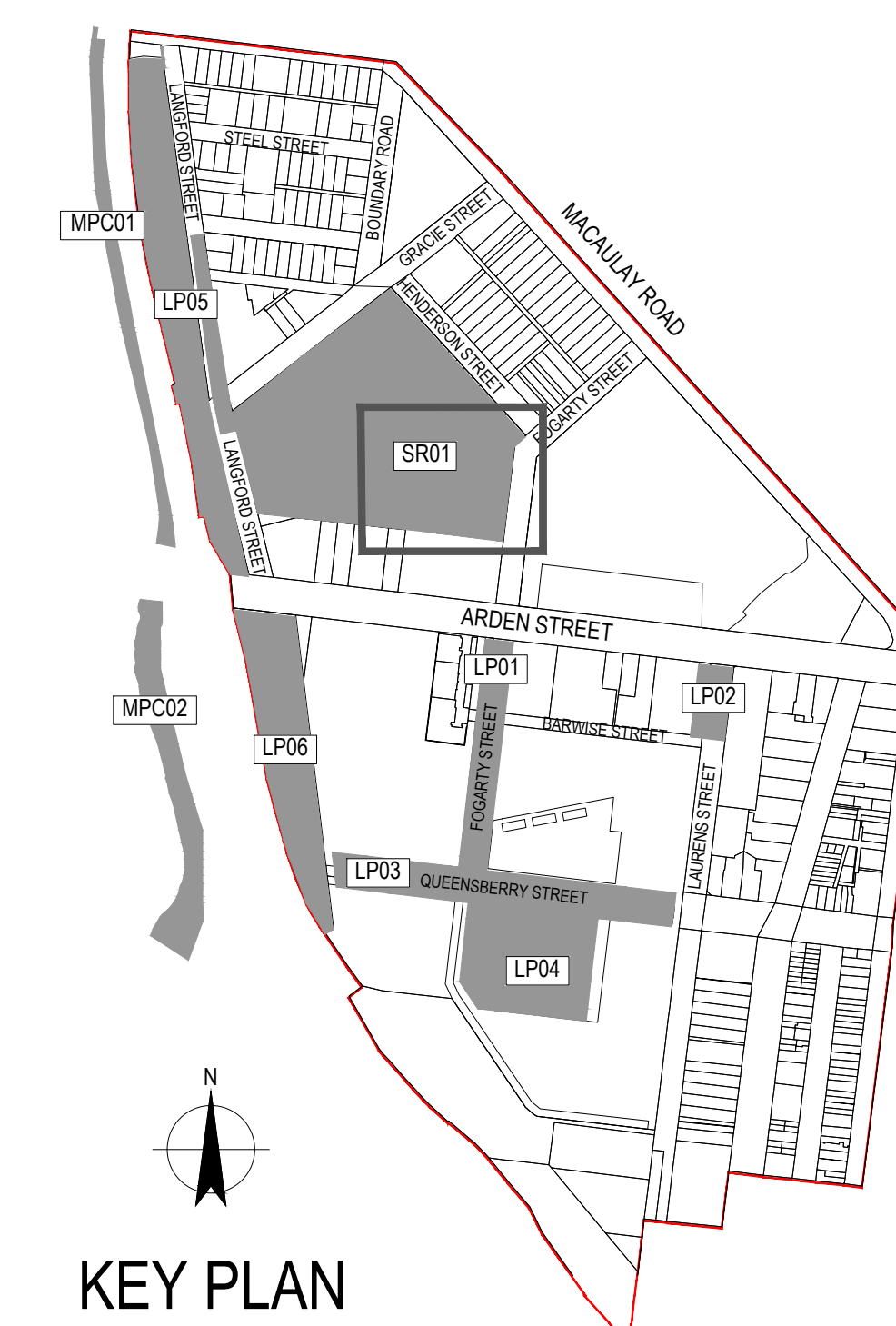
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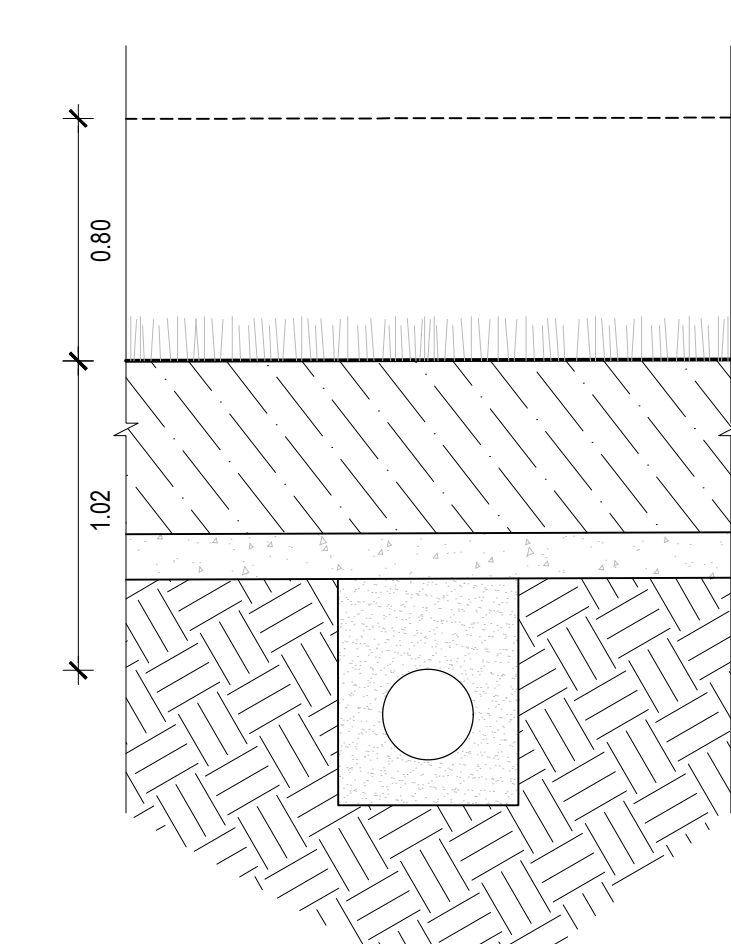
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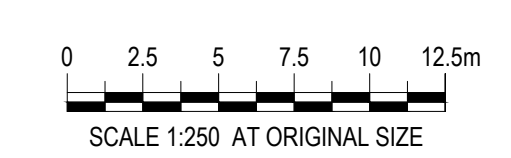
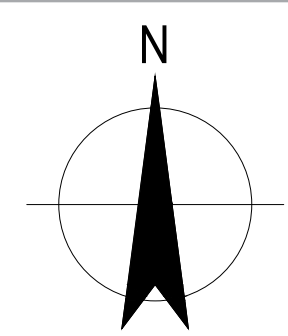


KEY PLAN



A SECTION
SCALE 1 : 25

	D	REVISED NAME	COD	LM	26.04.21
	B	UPDATED DESIGN	COD	LM	09.04.21
	C	REVISED CONCEPT	COD	LM	26.03.21
	A	CONCEPT	COD	LM	01.03.21
Rev	Description	Checked	Approved	Date	
Author	J. ANTONIO	Drafting Check		Reg No.	
Designer	C.DU	Design Check	C.ODOWD	Date	



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Project No.
31-12544116

Client	VICTORIA PLANNING AUTHORITY	
Project	ARDEN PUBLIC SPACES	
Status	CONCEPT	Status Complete

Drawing Title	GENERAL ARRANGEMENT PLAN SHEET 12 of 20 SR-01 ARDEN NORTH FLOOD STORAGE OPEN SPACE
------------------	---

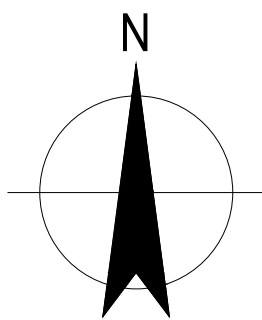
Drawing No.
31 - 12544116 - L0112

Size
A1

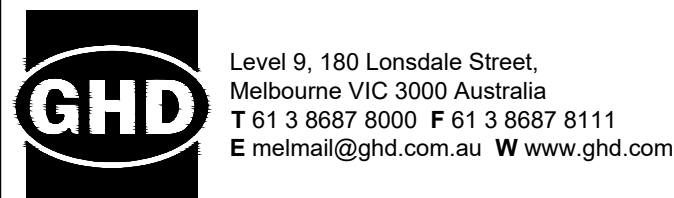
Rev
D



Rev	Description	Checked	Approved	Date
Author	J. ANTONIO	Drafting Check		Reg No.
Designer	C.DU	Design Check	C.ODOWD	Date



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SCALE 1:500 AT ORIGINAL SIZE



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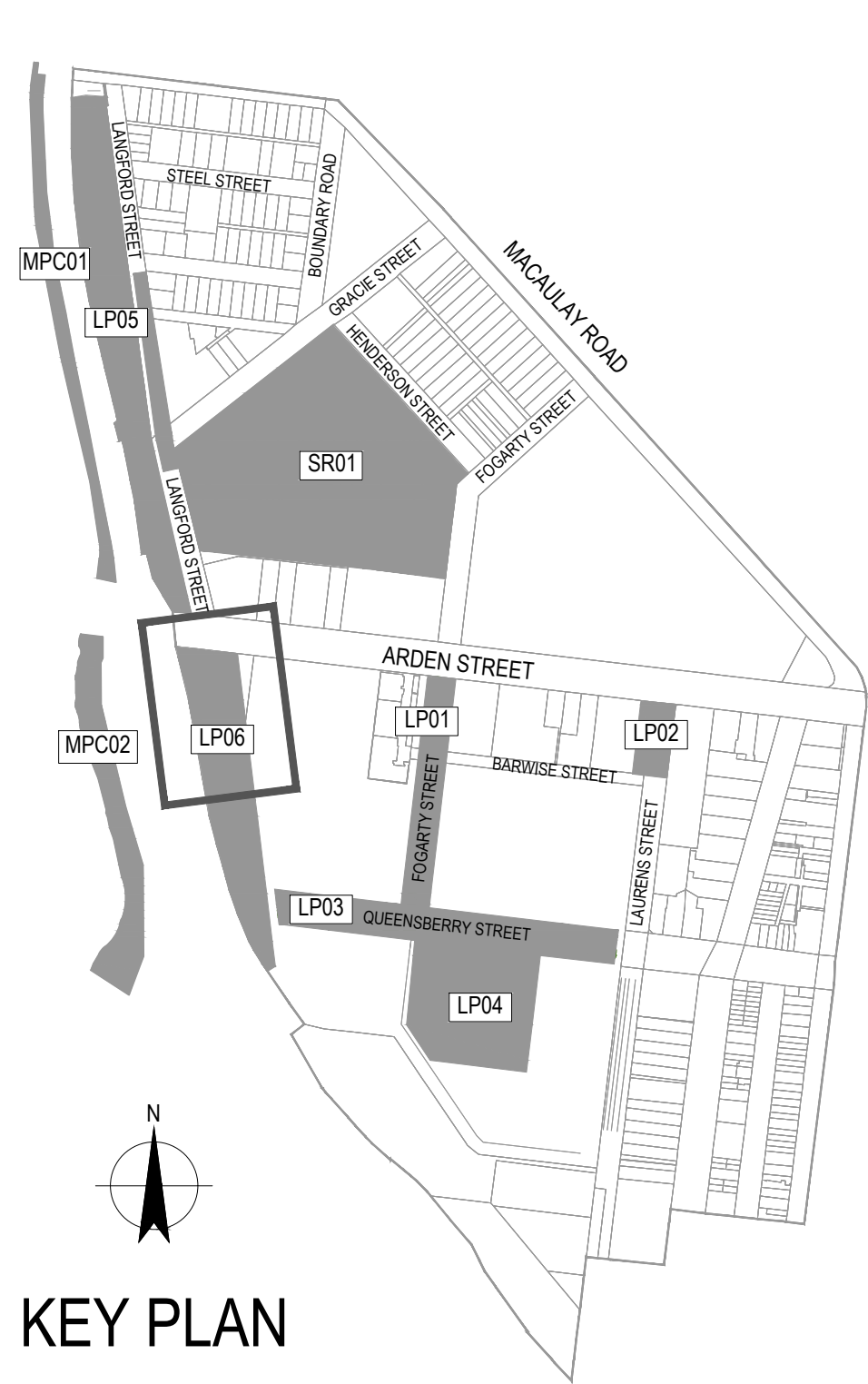
Project No.
31-12544116

Client VICTORIA PLANNING AUTHORITY
Project ARDEN PUBLIC SPACES
Status CONCEPT

Drawing Title
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SR-01 ARDEN NORTH - OPTION B
FLOOD STORAGE OPEN SPACE
Drawing No.
31 - 12544116 - SK0001B

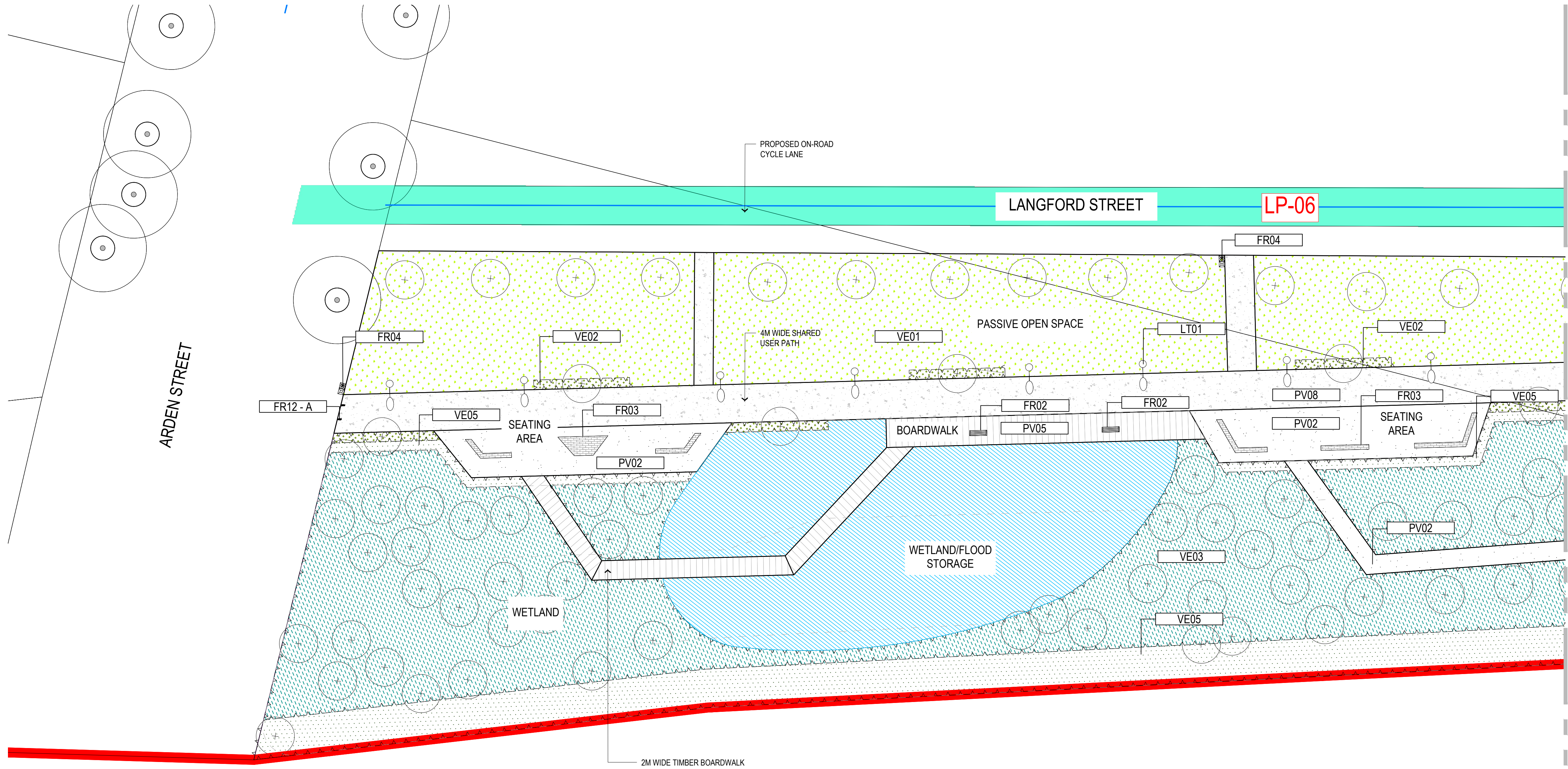
Size
A1

Rev



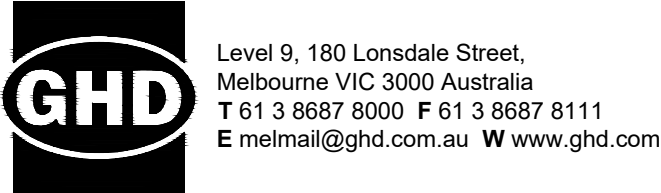
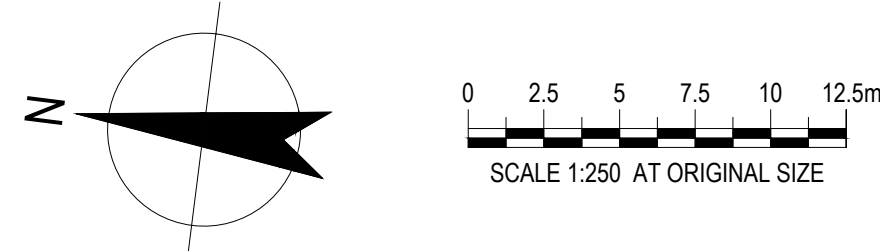
KEY PLAN

FLOOD STORAGE:
Basin - 5440m2 @ 1.2m depth
Batter - 1:6 over 7m
Flood storage = 6528m3



CONTINUE TO DRAWING 31-12544116-L0114

Rev	Description	Checked	Approved	Date
C	REVISED NAME	COD	LM	26.04.21
B	REVISED CONCEPT	COD	LM	26.03.21
A	CONCEPT	COD	LM	01.03.21
Author	J. ANTONIO	Drafting Check		
Designer	C.DU	Design Check	C.ODOWD	



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Project No.
31-12544116

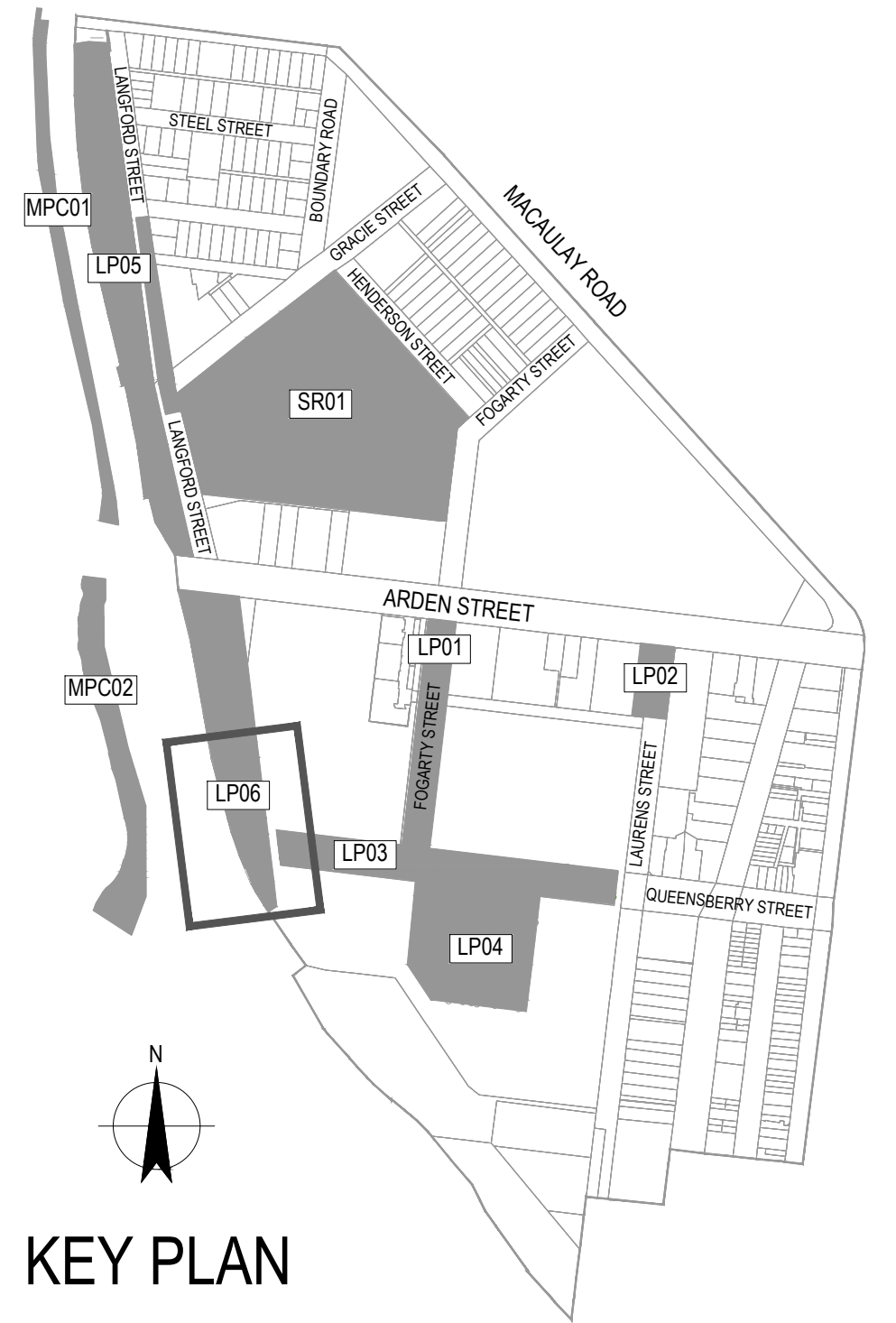
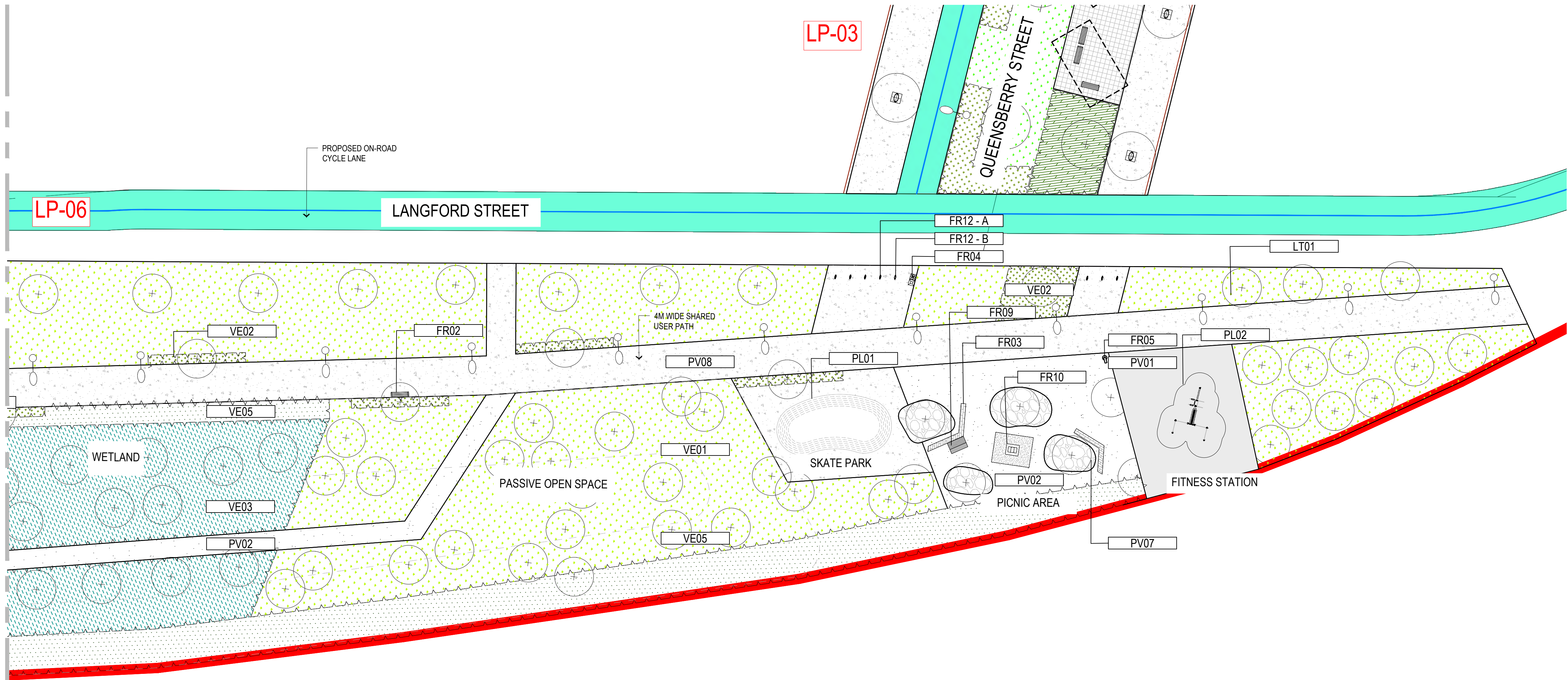
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Project	ARDEN PUBLIC SPACES
Status	CONCEPT

Drawing Title
GENERAL ARRANGEMENT PLAN
SHEET 13 of 20
LP-06 ARDEN CENTRAL
FLOOD STORAGE OPEN SPACE

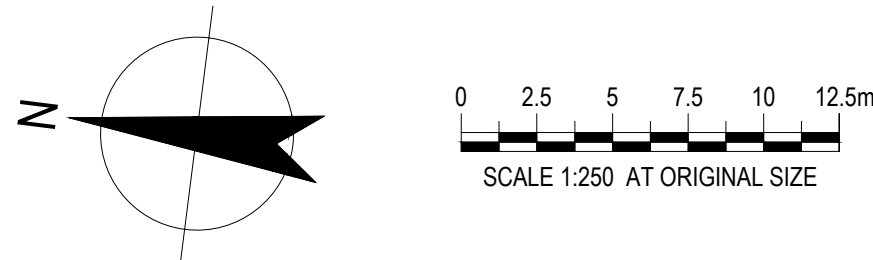
Drawing No.
31 - 12544116 - L013

Size
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Rev
C

CONTINUE TO DRAWING 31-12544116-L0113



C	REVISED NAME	COD	LM	26.04.21
B	REVISED CONCEPT	COD	LM	26.03.21
A	CONCEPT	COD	LM	01.03.21
Rev	Description	Checked	Approved	Date
Author	J. ANTONIO	Drafting Check		
Designer	C.DU	Design Check	C.ODOWD	



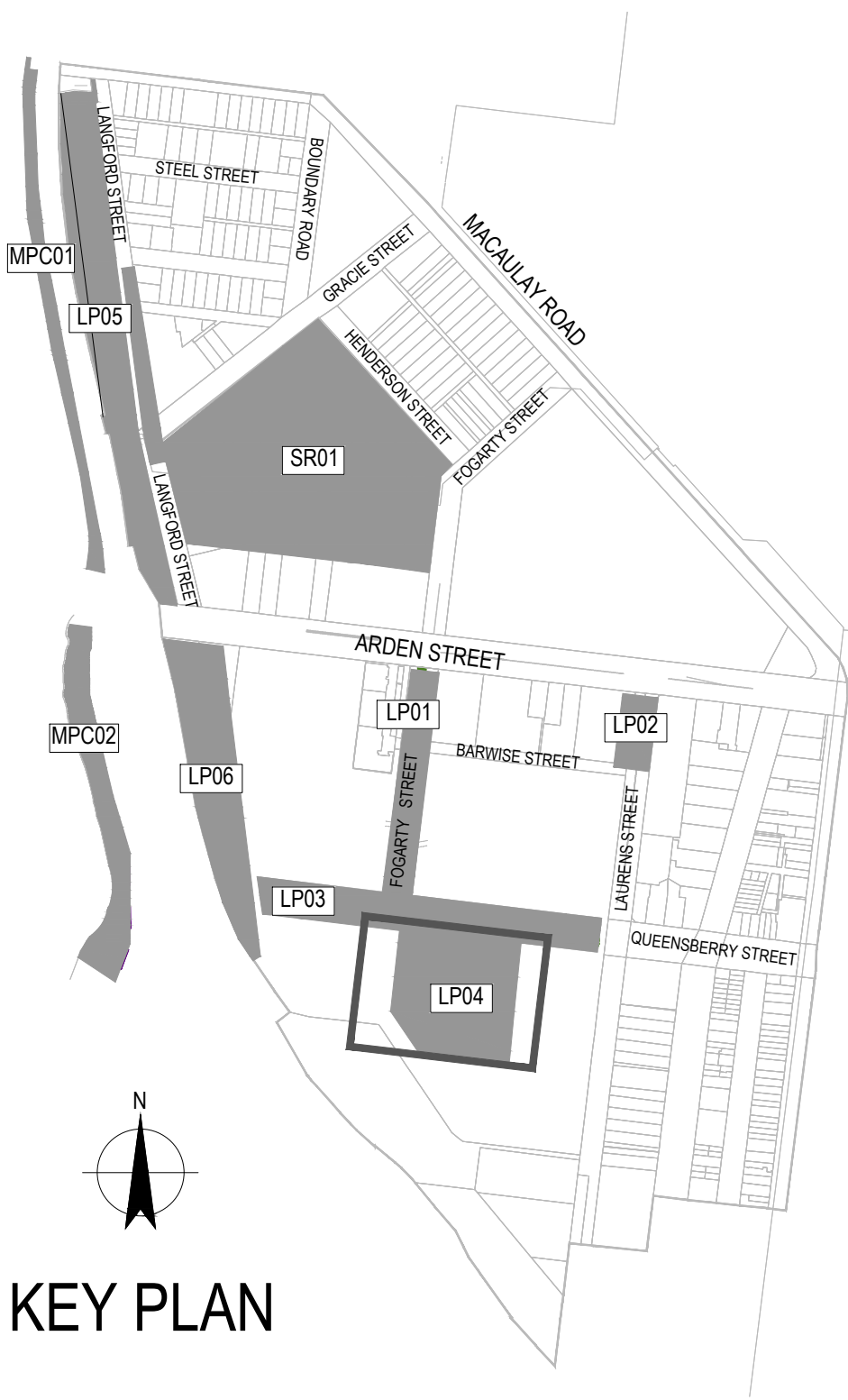
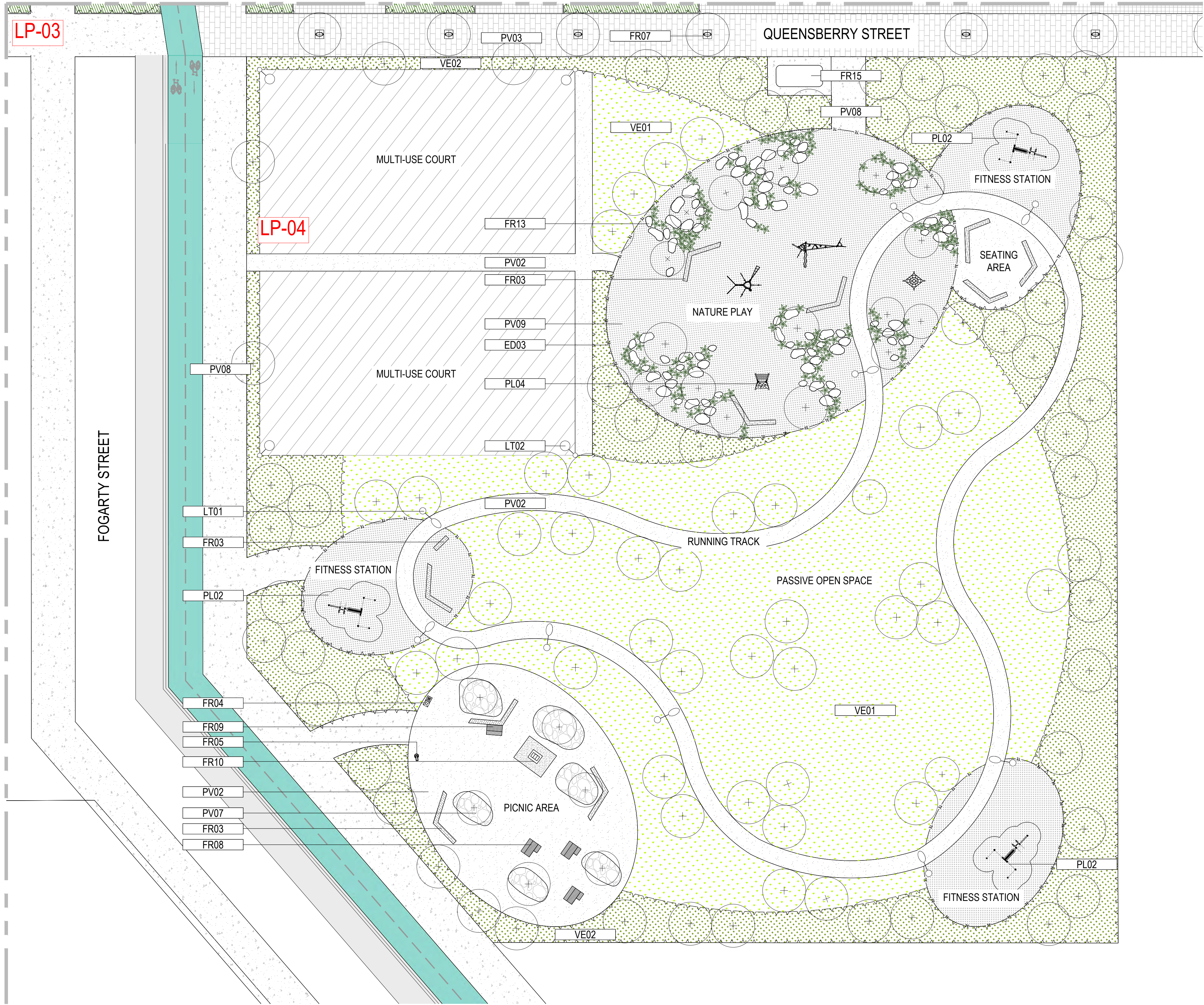
Project No.
31-12544116

Client	VICTORIA PLANNING AUTHORITY
Project	ARDEN PUBLIC SPACES
Status	CONCEPT

Drawing Title	GENERAL ARRANGEMENT PLAN SHEET 14 of 20 LP-06 ARDEN CENTRAL FLOOD STORAGE OPEN SPACE
Drawing No.	31 - 12544116 - L0114

Size
A1
Rev
C

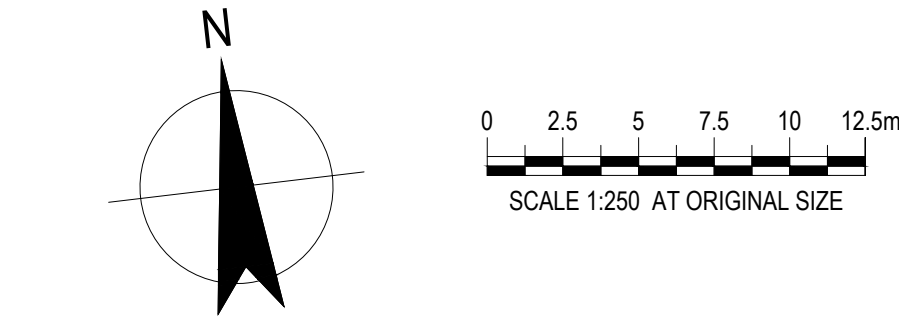
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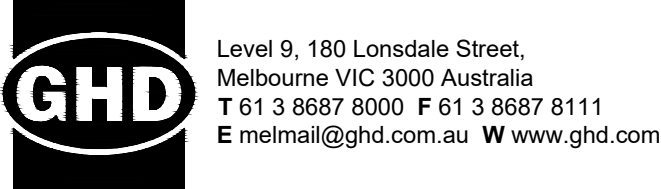
KEY PLAN

Rev	Description	Checked	Approved	Date
C	REVISED NAME	COD	LM	26.04.21
B	REVISED CONCEPT	COD	LM	26.03.21
A	CONCEPT	COD	LM	01.03.21
Author	J. ANTONIO	Drafting Check		Reg No.
Designer	C. DU	Design Check	C. O'DOWD	Date

Plot Date: 23 April 2021 - 2:33 PM Plotted by: Joe Pang



File Name: \\ghdnet\ghd\AU\Melbourne\Projects\31\12544116\CADD\Drawings\LANDSCAPE\31-12544116-L0104-L0105 & L0115.dwg



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Project No.
31-12544116

Client	VICTORIA PLANNING AUTHORITY
Project	ARDEN PUBLIC SPACES
Status	CONCEPT

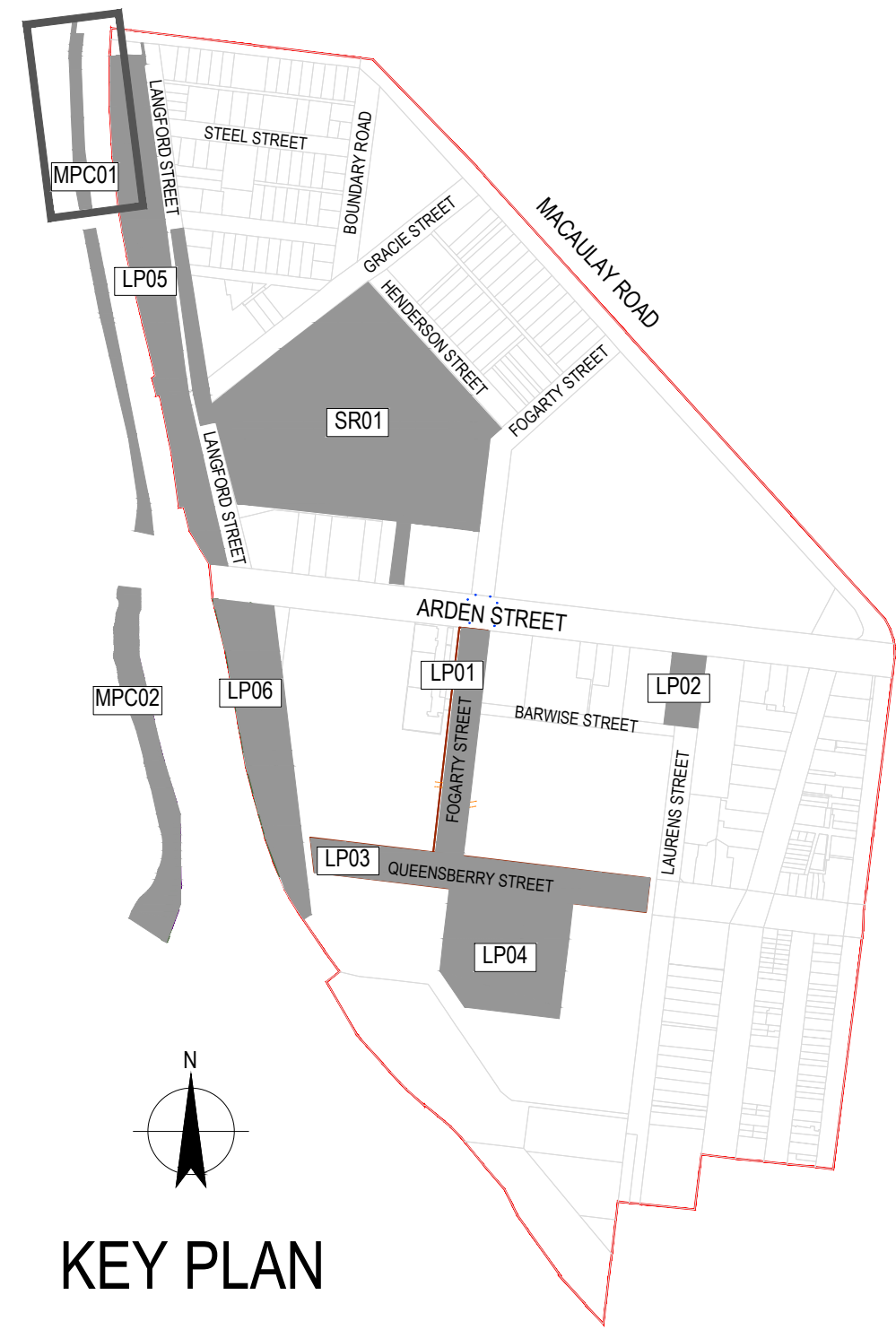
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GENERAL ARRANGEMENT PLAN
SHEET 15 of 20
LP04 - ARDEN CENTRAL
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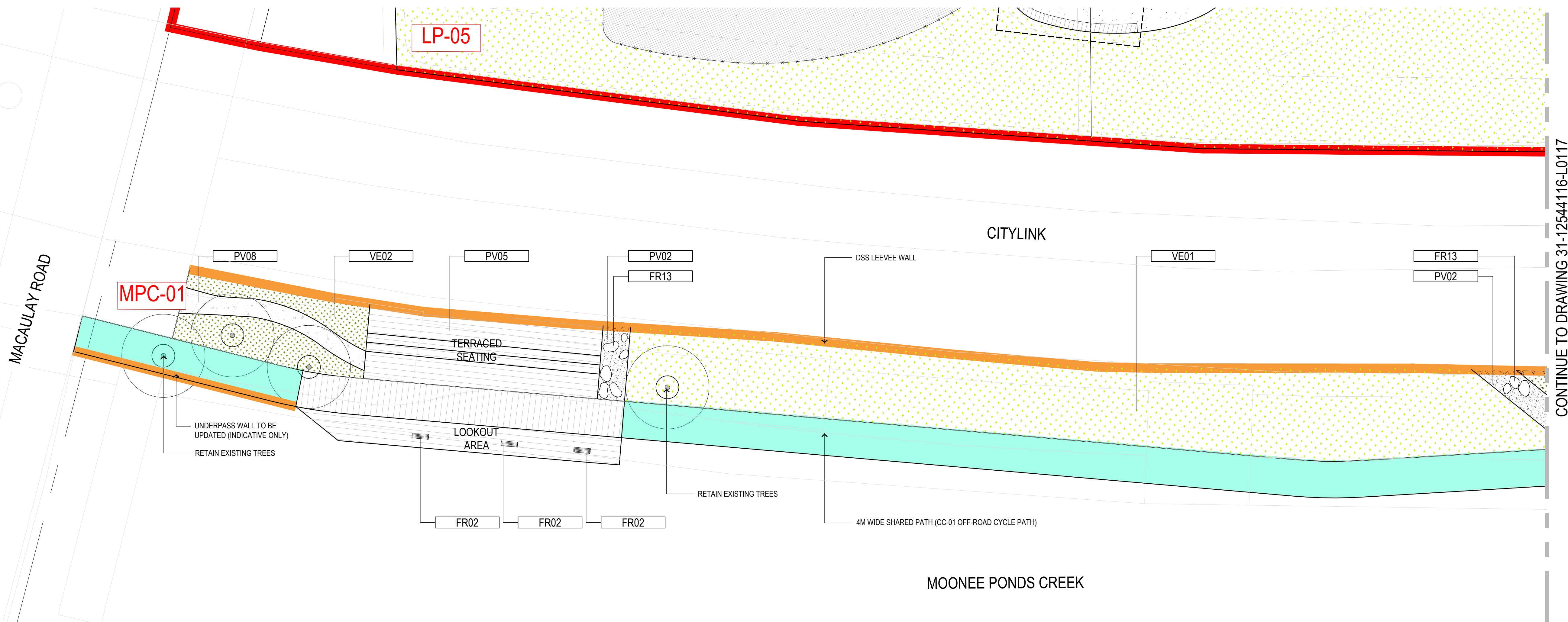
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31 - 12544116 - L0115

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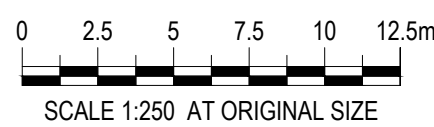
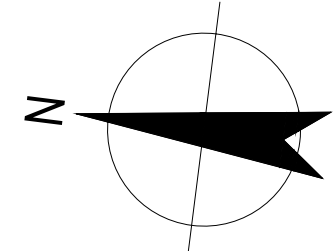


KEY PLAN



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Rev	Description	Checked	Approved	Date
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A	CONCEPT	COD	LM	01.03.21
Author	J. ANTONIO	Designing		
Designer	C.DU	Design Check	C.ODOWD	



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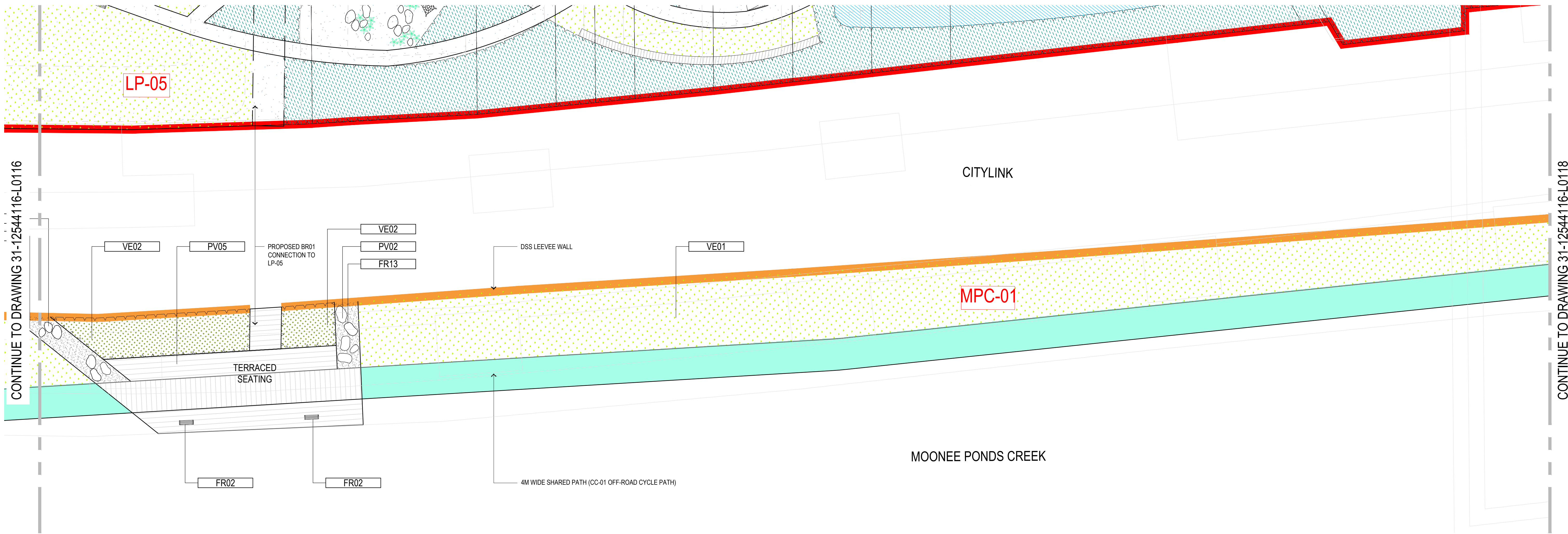
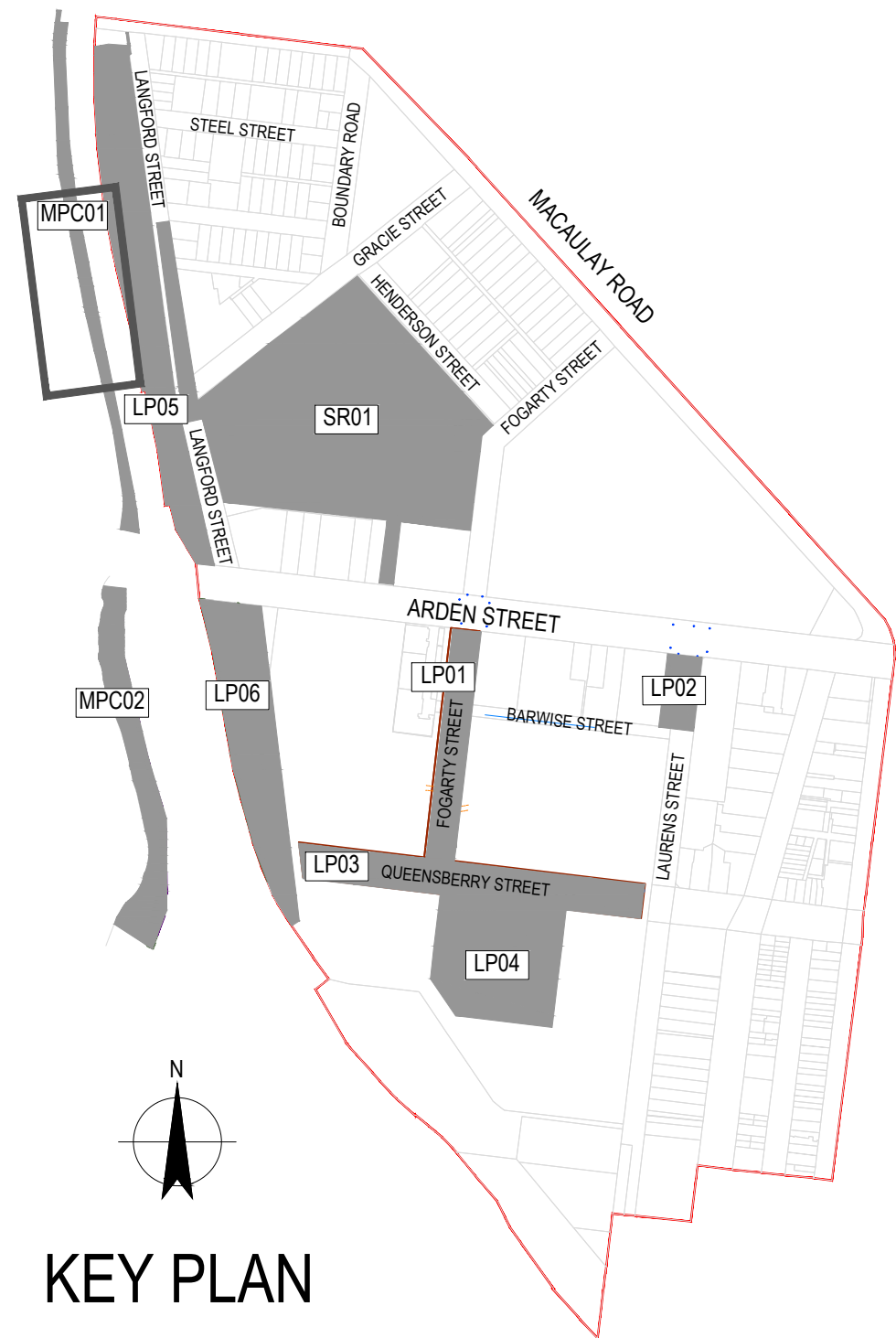
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Project	ARDEN PUBLIC SPACES
Status	CONCEPT

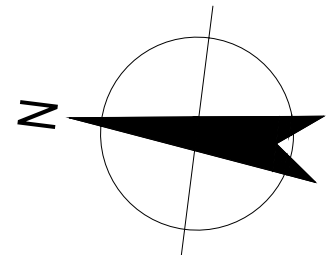
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GENERAL ARRANGEMENT PLAN
SHEET 16 of 20
MPC-01 & CC-01

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31 - 12544116 - L0116

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B REVISED NAME				COD	LM	26.04.21	
A CONCEPT				COD	LM	01.03.21	
Rev	Description			Checked	Approved	Date	
Author	J. ANTONIO			Drafting Check			
Designer	C.DU			Design Check C.ODOWD			



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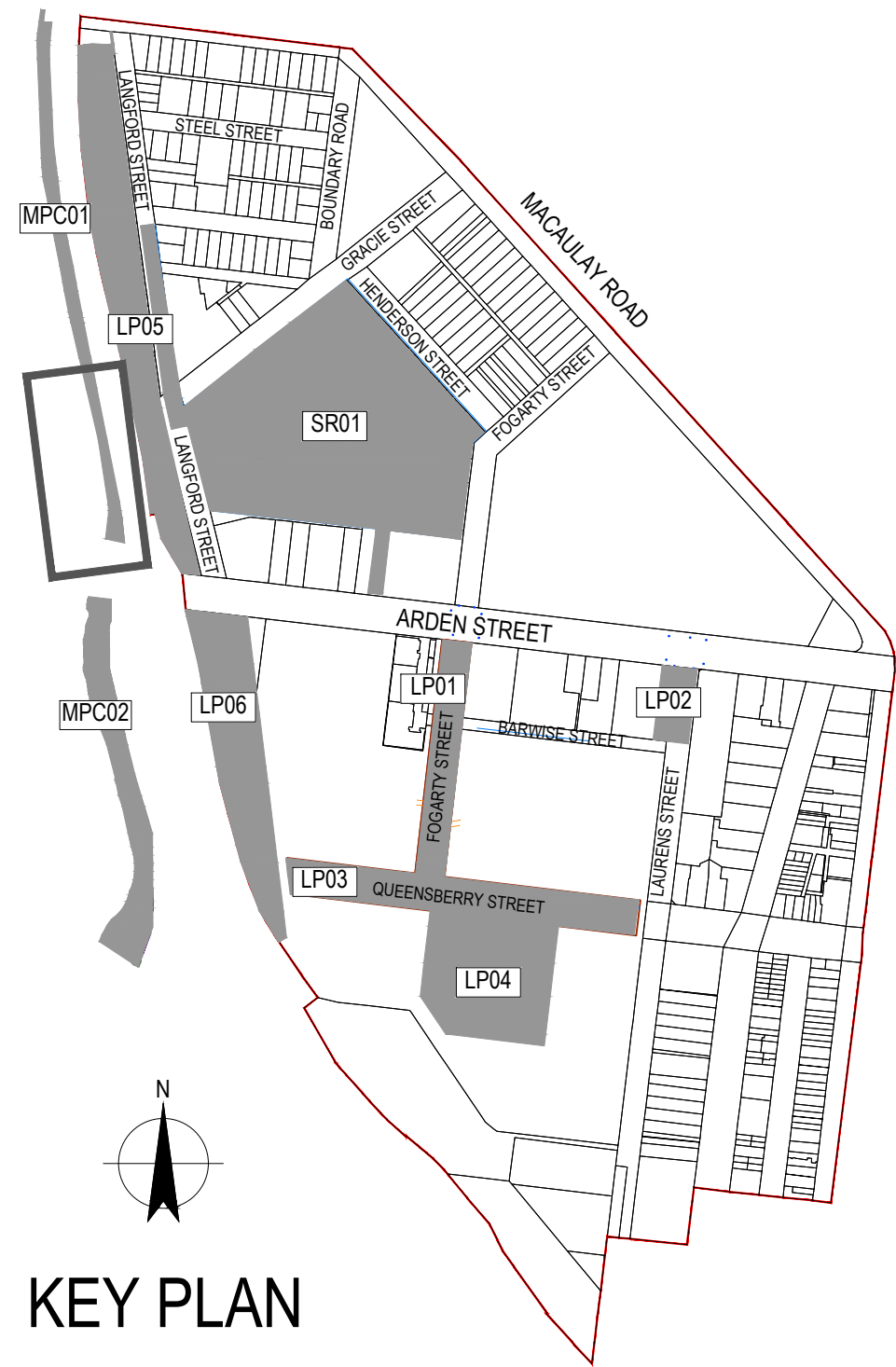
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SHEET 17 of 20
MPC-01 & CC-01

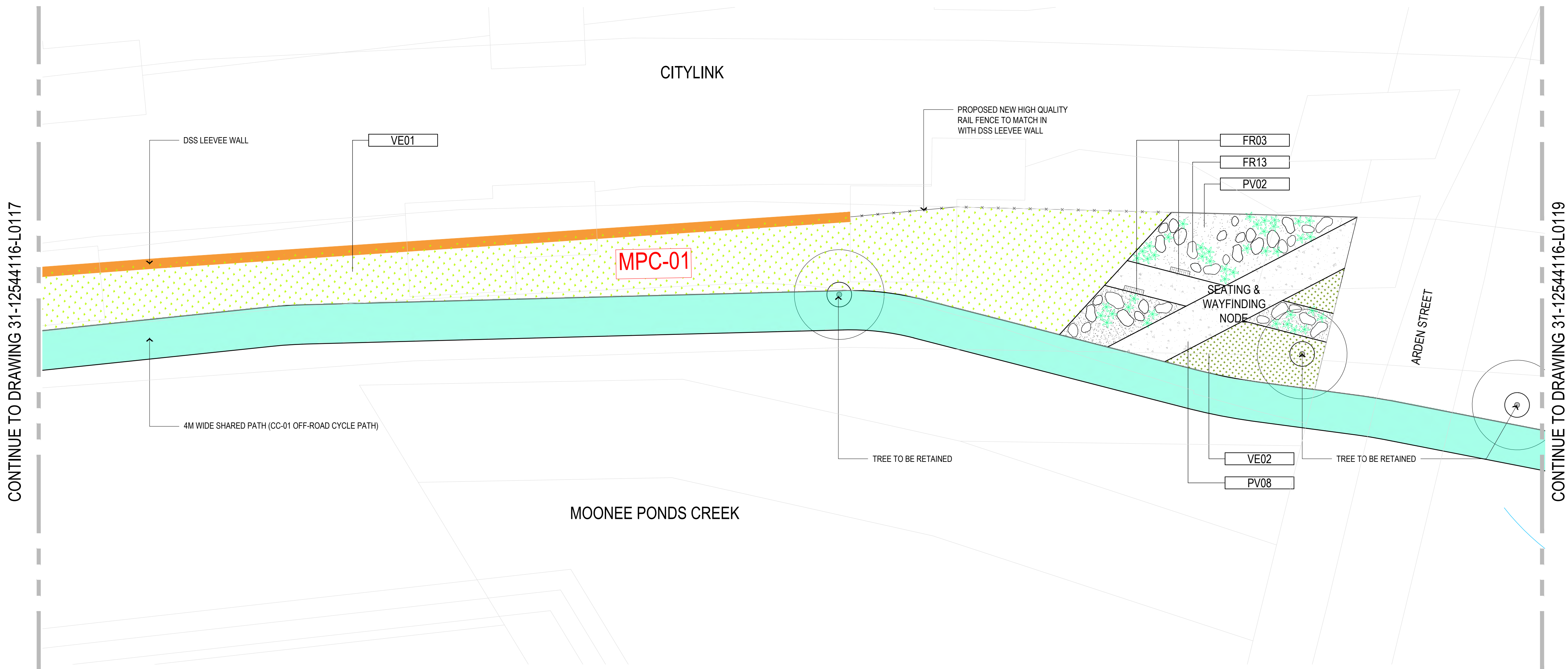
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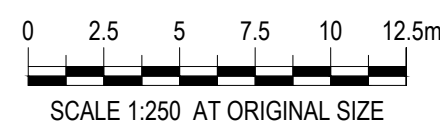
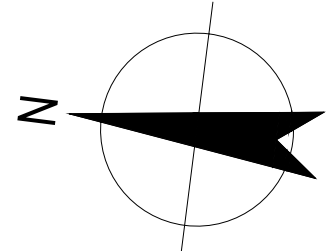
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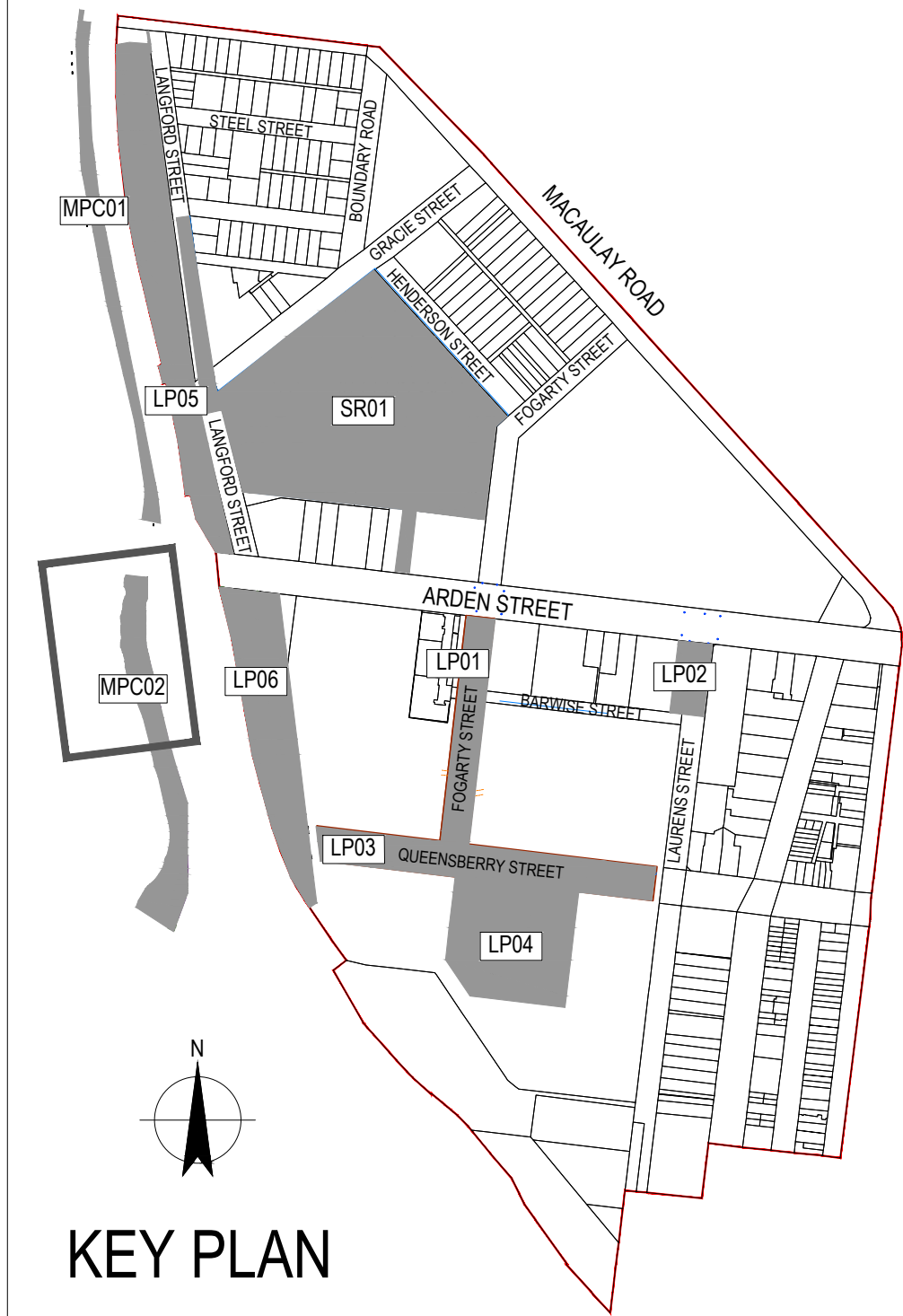
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Project ARDEN PUBLIC SPACES
Status CONCEPT

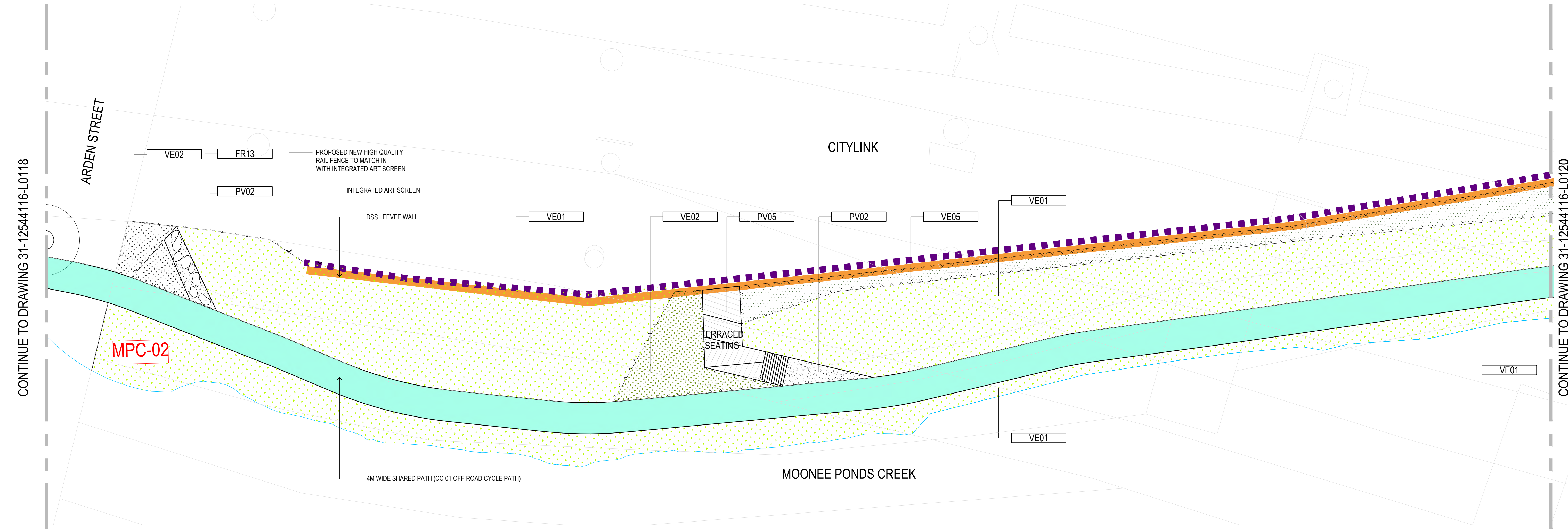
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SHEET 18 of 20
MPC-01 & CC-01

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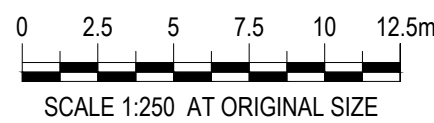
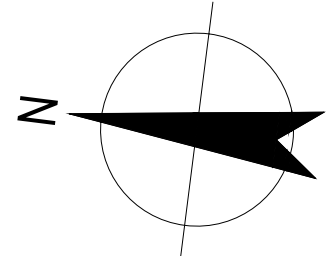
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KEY PLAN



B				
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		COD	LM	26.04.21
A				
CONCEPT				
		COD	LM	01.03.21
Rev	Description	Checked	Approved	Date
Author	J. ANTONIO	Drafting Check		
Designer	C.DU	Design Check C.ODOWD		



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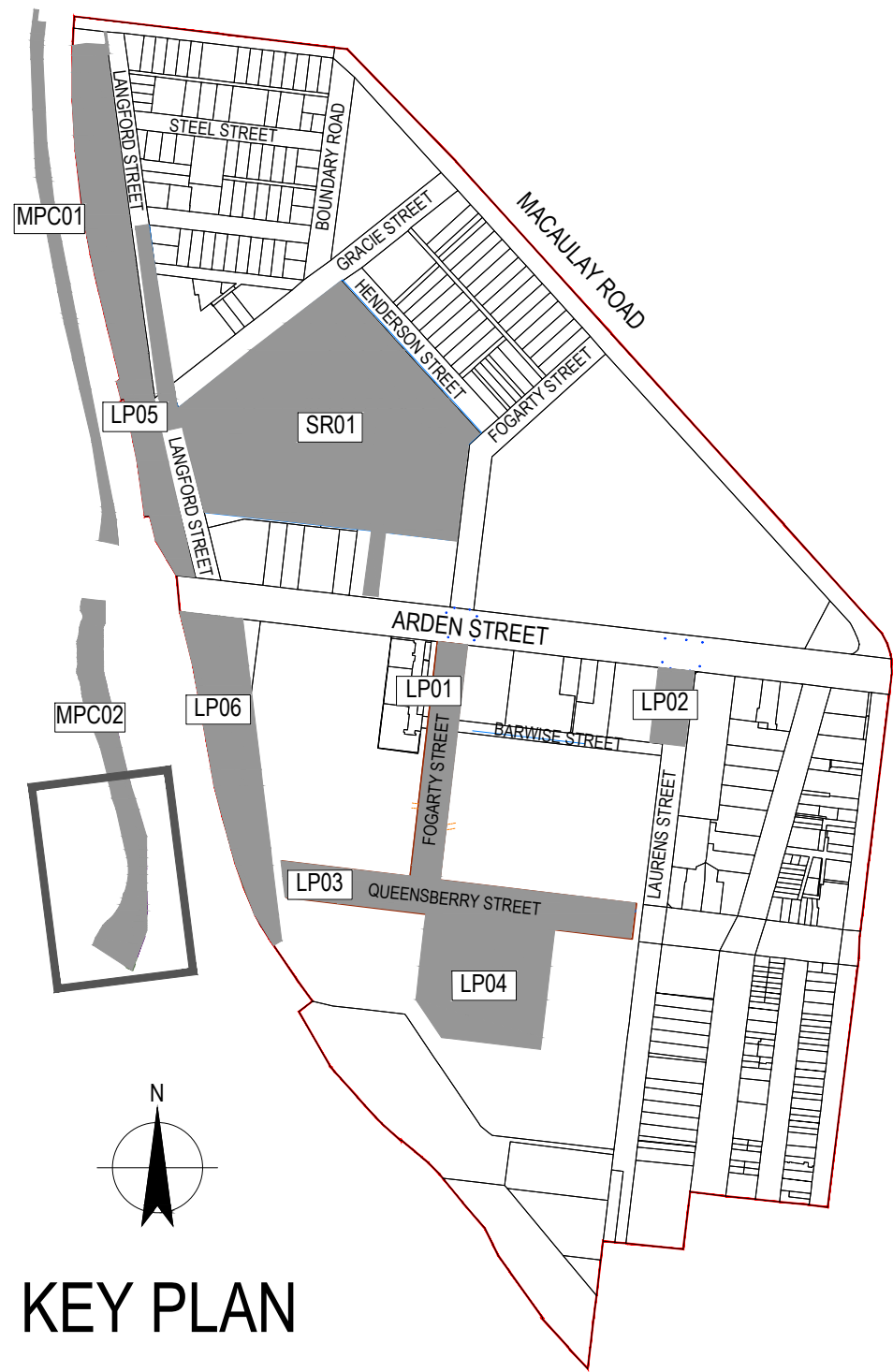
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Drawing
Title
GENERAL ARRANGEMENT PLAN
SHEET 19 of 20
MPC-02 & CC-01

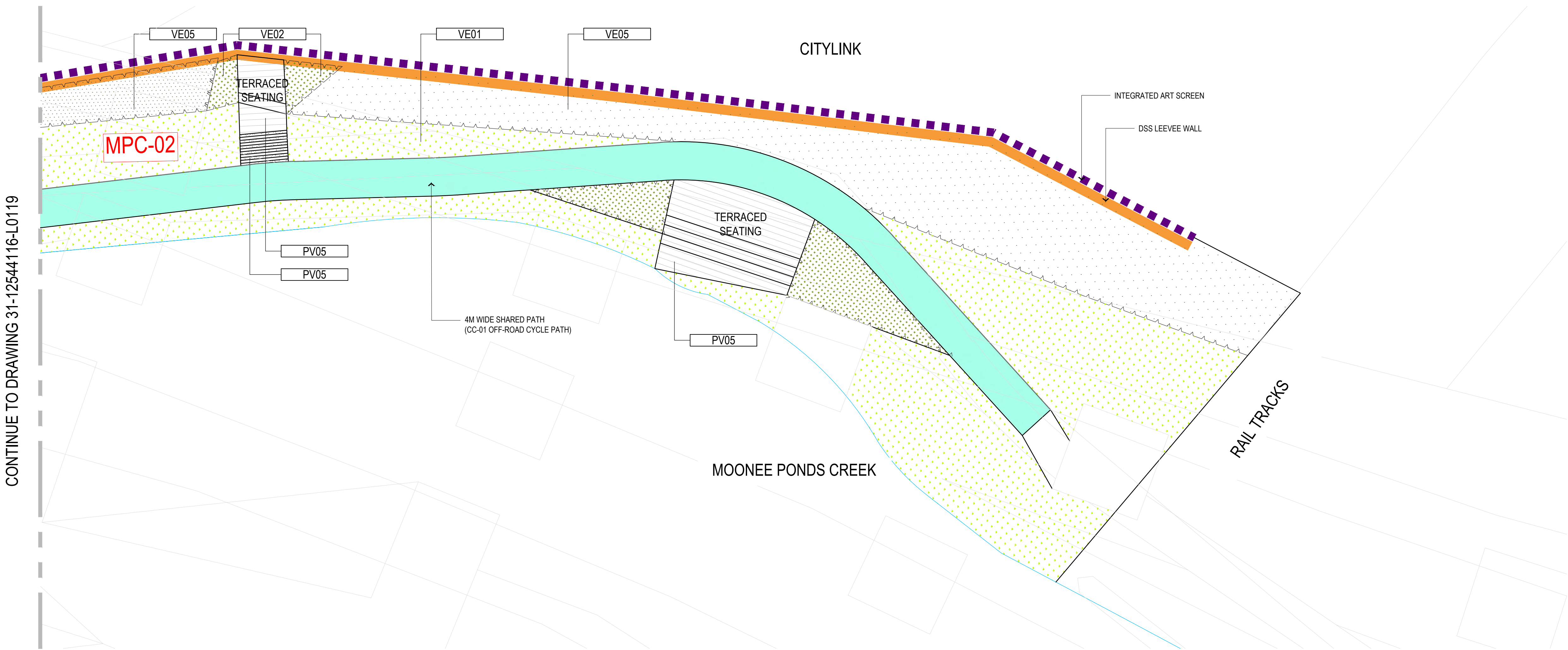
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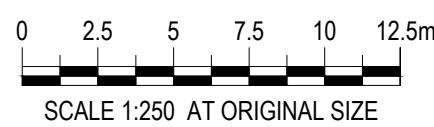
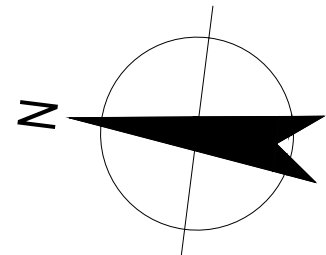
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KEY PLAN



B	REVISED NAME				COD	LM	26.04.21
A	CONCEPT				COD	LM	01.03.21
Rev	Description				Checked	Approved	Date
Author	J. ANTONIO				Drafting Check		
Designer	C. DU				Design Check C.ODOWD		



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Project	ARDEN PUBLIC SPACES
Status	CONCEPT

Drawing Title
GENERAL ARRANGEMENT PLAN
SHEET 20 of 20
MPC-02 & CC-01

Drawing No.
31 - 12544116 - L0120

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Appendix B

Cost Estimates

ARDEN PUBLIC SPACES
High Level Cost Estimates

Summary

Item	Description	Amount	m2 Rate
	ROADS	41,276,000	
	INTERSECTIONS	26,307,000	
	OPEN SPACE	62,450,000	
	OTHER	26,020,100	
	TOTAL ICP	156,053,100	
	Roads	41,276,000	
RD-01	Macaulay Road - Boundary Road (177m of Road)	3,969,000	1,121
RD-02	Boundary Road between Macaulay Road and Henderson Street (108m of Road)	2,317,000	1,073
RD-03	Henderson Street - Gracie to Fogarty (148m)	3,422,000	1,156
RD-04	Fogarty Street - Henderson to Arden (111m)	3,070,000	1,148
RD-05	Arden Street- MPC to Fogarty (94m)	2,415,000	856
RD-06	Arden Street between Fogarty Street and Laurens Street (143m of Road)	3,763,000	877
RD-07	Arden Street - Laurens to Munster (72m)	2,144,000	993
RD-08	Fogarty Street - Arden to Barwise (51m)	1,196,000	664
RD-09	Barwise Street - Fogarty to Laurens (153m)	2,845,000	1,141
RD-10	Laurens Street Barwise to Queensberry (96m)	2,187,000	990
RD-11	Laurens Street - Queensberry to Fogarty (134m)	3,008,000	976
RD-12	Laurens Street - Fogarty to Millar (78m)	2,050,000	1,143
RD-13	Munster Terrace - Arden to Queensberry (182m)	4,393,000	965
RD-14	Munster Terrace - Queensberry to Victoria (184m)	4,497,000	828
	Intersections	26,307,000	
IN-01	Macaulay Road / Boundary Road	2,526,000	966
IN-02	Boundary Road / Henderson Street / Gracie Street	1,583,000	733
IN-03	Fogarty Street / Henderson Street	2,037,000	1,859
IN-04	Fogarty Street / Arden Street	2,974,000	1,022
IN-05	Arden Street / Laurens Street	2,086,000	857
IN-06	Arden Street / Munster Terrace	1,767,000	742
IN-07	Munster Terrace / Queensberry Street	818,000	962
IN-08	Laurens Street / Queensberry Street	1,751,000	872
IN-09	Munster Terrace / Queensberry Street	2,039,000	796
IN-10	Laurens Street / Fogarty Street	1,302,000	976
IN-11	Munster Terrace / Victoria Street	1,380,000	859
IN-12	Laurens Street / Miller Street	1,226,000	918
IN-13	Arden Street / Langford Street	4,818,000	899
	Landscaping	62,450,000	
LP01	Fogarty street	2,949,000	550
LP02	Laurens Street Arden Central Plaza	1,422,000	1,809
LP03	Queensberry Street	8,882,000	999
LP04	Arden Central neighbourhood open space	4,849,000	490
LP05	West Side of Langford Street (North of Arden Street)	10,690,000	656
LP06	Arden North flood storage	7,457,000	617
MPC01&02	Moonee Ponds Creek	2,251,000	207
SR-01	Green Street Lowered with AFL Field	23,950,000	671
	Other	26,020,100	
BR-01	Pedestrian bridge between Chelmsford Street and Straker Street	3,814,500	
CC-02	Western Cycle Path from Laurens Street to Macaulay Road	532,000	
CC-03	North Melbourne Recreation Reserve	267,000	
CC-04	Queensberry Street between Abbotsford and Laurens	203,000	
CC-05	Victoria Street, between Munster and Dryburgh	110,000	
PED-01	Arden Street 100m west of Fogarty	383,000	
Gas Recoating	Recoating and potection slab across precinct	20,710,600	

Item	Description	Quantity	Unit	Rate	Comments
	WORKS				
1	DEMOLITION				
1.1	Earthworks including disposal		m3	225	Assumed 300mm under existing footpath
1.2	Allowance for demolition of existing kerbs		m	81	Includes disposal
1.3	Allowance for demolition of existing footpaths		m2	56	Includes disposal
1.4	Allowance to mill existing asphalt road		m2	13	
1.5	Allowance to decommission existing street lights		no	3,125	Includes handing over of removed posts
1.6	Allowance to remove existing street furniture etc.		item	6,250	
1.7	Allowance for demolition of existing buildings		m2	50	
2	ROAD PAVEMENT				
2.1	New pavement	-	m2	240	Assumed detail 2 of standard asphalt pavement
2.2	Pedestrian Path	-	m2	135	Allowance to trim subbase and place asphalt
2.3	Bike Path	-	m2	135	Allowance to trim subbase and place asphalt including omnigrip
3	KERB WORKS				
3.1	Kerb and Channel	-	LM	813	Bluestone
3.2	Kerb to centre median	-	LM	500	Bluestone
3.3	Tactiles		Item	2,400	Panda Granite
4	DRAINAGE				
4.1	Drainage - pipes		LM	713	450mm on both sides of road
4.2	Drainage - pits		No.	3,750	At 50m intervals
4.3	Drainage - Sub-soil drainage		Item	150	N/A
4.4	Drainage - Miscellaneous (Description)				
5	TRAFFIC				
5.1	Traffic Signals		Item	200,000	N/A
5.2	Traffic Safety		Item		
6	LANDSCAPE				
6.1	Trees -centre median		No.	250	45L tree. No tree guard assumed
6.2	Trees -pedestrian path		No.	1,875	45L tree including tree guard
6.3	Landscaping - centre median		m2	75	allow for native shrubs/ grass including garden bed
7	STREET LIGHTING				
7.1	Street Lighting - road		No.	12,500	Assumed 4 nos
7.2	Street Lighting - Bike path		No.	12,500	at 20m spacing along bike path, includes underground cabling and foundations
7.3	Conduits		m	875	
8	UTILITIES				
8.1	Allowance for non-disruptive digging		Item	18,750	Allowance for NDD 2 shifts
8.2	New water		m	355	DN280
8.3	New sewer		m	805	225dia
8.4	New telco		m	75	
8.5	New gas		PS	10,000	
8.6	Relocate Gas		m	563	
8.7	Relocate Telco		m	625	
8.8	Relocate Water		m	375	
8.9	Protect utilities (Provisional Sum)		PS	50,000	Provisional Sum
8.10	Gas Transmission		m	10,000	
9	MISCELLANEOUS				
9.1	Line marking		Item	5,000	
9.2	Regulatory Signage		no	750	no. of signs assumed
9.3	Works maintenance – up to 1 year		Item	5,000	Excluded
9.4	Landscape maintenance – 1yr/2 summers		Item	7,500	Excluded
9.5	Traffic signals 10 year Maintenance Fee		Item	80,000	
9.6	Street Furniture		LM	95	Includes bins and bike hoops
	SUB-TOTAL WORKS				
12	DELIVERY				
12.1	Council Fees		%	3%	
12.2	Other Authority Fees		%	1%	
12.3	Traffic Management		%	7%	
12.4	Environmental Management		%	0.5%	
12.5	Survey/Design		%	5%	
12.6	Supervision/Project Management		%	9%	
12.7	Site Establishment		%	2.5%	
12.8	Contingency		%	20%	
	SUB-TOTAL DELIVERY				
13	TOTAL ESTIMATED COST				

Item	Description	Quantity	Unit	Rate	Amount	Comments
	WORKS					
1	DEMOLITION					
1.1	Earthworks including disposal	966	m3	225	217,445	Allowed for excavation and disposal. Assumed 300mm under existing road and includes disposal of Cat C
1.2	Allowance for demolition of existing kerbs	354	m	81	28,674	Includes disposal
1.3	Allowance for demolition of existing footpaths	885	m2	56	49,560	Includes disposal
1.4	Allowance to mill existing asphalt road		m2	13		
1.5	Allowance to decommission existing street lights	10	no	3,125	31,250	Includes handing over the removed posts
1.6	Allowance to remove existing street furniture etc.	1	item	6,250	6,250	Includes bins, seats, drink fountains, assumed existing trees remain
1.7	Allowance for demolition of existing buildings		m2	50	-	No scope assumed
2	ROAD PAVEMENT					
2.1	New pavement - 3.1m x 2 transport lanes	1,097	m2	240	263,376	Assumed detail 2 of standard asphalt pavement
2.2	Pedestrian Path - 3.8m x 2	1,345	m2	135	181,602	Allowance to trim subbase and place 110mm of coloured asphalt
2.3	Bike Path - 2.2m x 2	779	m2	135	105,138	Allowance to trim subbase and place 110mm of coloured asphalt
3	KERB WORKS					
3.1	Kerb and Channel	354	LM	813	287,802	300x300 Bluestone with 250 gutterstone
3.2	Kerb to centre median	354	LM	500	177,000	300x300 Bluestone
3.3	Tactiles	6	item	2,400	14,400	Panda Granite
4	DRAINAGE					
4.1	Drainage - pipes	354	LM	713	252,402	450mm on both sides of road
4.2	Drainage - pits	8	No.	3,750	30,000	At 50m intervals
4.3	Drainage - Sub-soil drainage	354	LM	150	53,100	N/A
4.4	Drainage - Miscellaneous (Description)		item	-	-	N/A
5	TRAFFIC					
5.1	Traffic Signals		item	200,000	-	Excluded
5.2	Traffic Safety		item	-	-	Excluded
6	LANDSCAPE					
6.1	Trees -centre median	18	No.	250	4,425	45L tree. No tree guard assumed
6.2	Trees -pedestrian path	35	No.	1,875	66,375	45L tree including tree guard and passive irrigation WSUD elements
6.3	Landscaping - centre median	212	m2	75	15,930	allow for native shrubs/ grass including garden bed
7	STREET LIGHTING					
7.1	Street Lighting	9	No.	12,500	110,625	at 20m spacing along, includes underground cabling and foundations
7.2	Bike Path Lighting		No.	12,500		
7.3	Conduits	354	m	1,250	442,500	Including trenching
8	UTILITIES					
8.1	Allowance for non-disruptive digging	2	item	18,750	37,500	Allowance for NDD 2 shifts
8.2	New water		m	355	-	225mm dia
8.3	New sewer		m	805	-	300mm dia
8.4	New telco		m	75	-	2x100mm conduits
8.5	New gas		PS	10,000	-	
8.6	Relocate Gas	144	m	563	81,000	
8.7	Relocate Telco	147	m	625	91,875	
8.8	Relocate Water	144	m	375	54,000	
8.9	Protect utilities (Provisional Sum)	1	PS	50,000	50,000	
8.10	Gas Transmission		m	10,000	-	
9	MISCELLANEOUS					
9.1	Line marking	1	item	5,000	5,000	
9.2	Regulatory Signage	10	No.	750	7,500	no. of pole mounted signs assumed
9.3	Works maintenance - up to 1 year	1	item	5,000	5,000	
9.4	Landscape maintenance - 1yr/2 summers	1	item	7,500	7,500	
9.5	Traffic signals 10 year Maintenance Fee		item	80,000	-	Not in scope
9.6	Street Furniture	177	LM	95	16,815	Includes bins and bike hoops
	SUB-TOTAL WORKS				2,677,000	
12	DELIVERY					
12.1	Council Fees	3.25	%		87,000	
12.2	Other Authority Fees	1	%		26,800	
12.3	Traffic Management	7	%		187,400	
12.4	Environmental Management	0.5	%		13,400	
12.5	Survey/Design	5	%		133,900	
12.6	Supervision/Project Management	9	%		240,900	
12.7	Site Establishment	2.5	%		66,900	
12.8	Contingency	20	%		535,400	
	SUB-TOTAL DELIVERY				1,292,000	
13	TOTAL ESTIMATED COST				3,969,000	

Item	Description	Quantity	Unit	Rate	Amount	Comments
	WORKS					
1	DEMOLITION					
1.1	Earthworks including disposal	632	m3	225	142,155	Allowed for excavation and disposal. Assumed 300mm under existing road and includes disposal of Cat C
1.2	Allowance for demolition of existing kerbs	166	m	81	13,446	Includes disposal
1.3	Allowance for demolition of existing footpaths	415	m2	56	23,240	Includes disposal
1.4	Allowance to mill existing asphalt road		m2	13		
1.5	Allowance to decommission existing street lights	6	no	3,125	18,750	Includes handing over the removed posts
1.6	Allowance to remove existing street furniture etc.	1	Item	6,250	6,250	Includes bins, seats, drink fountains, assumed existing trees remain
1.7	Allowance for demolition of existing buildings		m2	50	-	
2	ROAD PAVEMENT					
2.1	New pavement - 3.5m x 2 transport lanes	756	m2	240	181,440	Assumed detail 2 of standard asphalt pavement
2.2	Pedestrian Path - 4.25m x 2	918	m2	135	123,930	Allowance to trim subbase and place 110mm of coloured asphalt
2.3	Bike Path - 2m x 2	432	m2	135	58,320	Allowance to trim subbase and place 110mm of coloured asphalt
3	KERB WORKS					
3.1	Kerb and Channel	216	LM	813	175,608	300x300 Bluestone with 250 gutterstone
3.2	Kerb to centre median	216	LM	500	108,000	300x300 Bluestone
3.3	Tactiles	6	Item	2,400	14,400	Panda Granite
4	DRAINAGE					
4.1	Drainage - pipes	216	LM	713	154,008	450mm on both sides of road
4.2	Drainage - pits	5	No.	3,750	18,750	At 50m intervals
4.3	Drainage - Sub-soil drainage	216	LM	150	32,400	N/A
4.4	Drainage - Miscellaneous (Description)		Item	-	-	N/A
5	TRAFFIC					
5.1	Traffic Signals		Item	200,000	-	Excluded
5.1	Traffic Safety		Item	-	-	Excluded
6	LANDSCAPE					
6.1	Trees -centre median	8	No.	250	2,000	45L tree. No tree guard assumed
6.2	Trees -pedestrian path	16	No.	1,875	30,000	45L tree including tree guard and passive irrigation WSUD elements
6.3	Landscaping - centre median		m2	75	-	
7	STREET LIGHTING					
7.1	Street Lighting	4	No.	12,500	50,000	at 40m spacing along, includes underground cabling and foundations (provisional sum)
7.2	Bike Path Lighting		No.	12,500		
7.3	Conduits	216	m	1,250	270,000	Including trenching
8	UTILITIES					
8.1	Allowance for non-disruptive digging	2	Item	18,750	37,500	Allowance for NDD 2 shifts
8.2	New water		m	355	-	225mm dia
8.3	New sewer		m	805	-	300mm dia
8.4	New telco		m	75	-	2x100mm conduits
8.5	New gas		PS	10,000	-	
8.6	Relocate Gas		m	563	-	
8.7	Relocate Telco		m	625	-	
8.8	Relocate Water	83	m	375	31,125	
8.9	Protect utilities (Provisional Sum)	1	PS	50,000	50,000	
8.10	Gas Transmission		m	10,000	-	
9	MISCELLANEOUS					
9.1	Line marking	1	Item	5,000	5,000	
9.2	Regulatory Signage	6	no	750	4,500	no. of pole mounted signs assumed
9.3	Works maintenance - up to 1 year	1	Item	5,000	5,000	
9.4	Landscape maintenance - 1yr/2 summers	1	Item	7,500	7,500	
9.5	Traffic signals 10 year Maintenance Fee		Item	80,000	-	Not in scope
9.6	Street Furniture	108	LM	95	10,260	Includes bins and bike hoops
	SUB-TOTAL WORKS				1,563,000	
12	DELIVERY					
12.1	Council Fees	3.25	%		50,800	
12.2	Other Authority Fees	1	%		15,600	
12.3	Traffic Management	7	%		109,400	
12.4	Environmental Management	0.5	%		7,800	
12.5	Survey/Design	5	%		78,200	
12.6	Supervision/Project Management	9	%		140,700	
12.7	Site Establishment	2.5	%		39,100	
12.8	Contingency	20	%		312,600	
	SUB-TOTAL DELIVERY				754,000	
11	TOTAL ESTIMATED COST				2,317,000	

Item	Description	Quantity	Unit	Rate	Amount	Comments
	WORKS					
1	DEMOLITION					
1.1	Earthworks including disposal	866	m3	225	194,805	Allowed for excavation and disposal. Assumed 300mm under existing road and includes disposal of Cat C
1.2	Allowance for demolition of existing kerbs	296	m	81	23,976	Includes disposal
1.3	Allowance for demolition of existing footpaths	740	m2	56	41,440	Includes disposal
1.4	Allowance to mill existing asphalt road		m2	13		
1.5	Allowance to decommission existing street lights	10	no	3,125	31,250	Includes handing over the removed posts
1.6	Allowance to remove existing street furniture etc.	1	item	6,250	6,250	Includes bins, seats, drink fountains, assumed existing trees remain
1.7	Allowance for demolition of existing buildings		m2	50	-	No scope assumed
2	ROAD PAVEMENT					
2.1	New pavement - 3.5m x 2 transport lanes	1,036	m2	240	248,640	Assumed detail 2 of standard asphalt pavement
2.2	Pedestrian Path - 4.25m x 2	1,258	m2	135	169,830	Allowance to trim subbase and place 110mm of coloured asphalt
2.3	Bike Path - 2m x 2	592	m2	135	79,920	Allowance to trim subbase and place 110mm of coloured asphalt
3	KERB WORKS					
3.1	Kerb and Channel	296	LM	813	240,648	300x300 Bluestone with 250 gutterstone
3.2	Kerb to centre median	296	LM	500	148,000	300x300 Bluestone
3.3	Tactiles	6	item	2,400	14,400	Panda Granite
4	DRAINAGE					
4.1	Drainage - pipes	296	LM	713	211,048	450mm on both sides of road
4.2	Drainage - pits	6	No.	3,750	22,500	At 50m intervals
4.3	Drainage - Sub-soil drainage	296	LM	150	44,400	N/A
4.4	Drainage - Miscellaneous (Description)		item	-	-	N/A
5	TRAFFIC					
5.1	Traffic Signals		item	200,000	-	Excluded
5.2	Traffic Safety		item	-	-	Excluded
6	LANDSCAPE					
6.1	Trees -centre median	15	No.	250	3,700	45L tree. No tree guard assumed
6.2	Trees -pedestrian path	30	No.	1,875	55,500	45L tree including tree guard and passive irrigation WSUD elements
6.3	Landscaping - centre median	178	m2	75	13,320	allow for native shrubs/ grass including garden bed
7	STREET LIGHTING					
7.1	Street Lighting	8	No.	12,500	100,000	at 40m spacing along, includes underground cabling and foundations (provisional sum)
7.2	Bike Path Lighting		No.	12,500		
7.3	Conduits	296	m	1,250	370,000	Including trenching
8	UTILITIES					
8.1	Allowance for non-disruptive digging	2	item	18,750	37,500	Allowance for NDD 2 shifts
8.2	New water		m	355	-	225mm dia
8.3	New sewer		m	805	-	300mm dia
8.4	New telco		m	75	-	2x100mm conduits
8.5	New gas		PS	10,000	-	
8.6	Relocate Gas	148	m	563	83,250	
8.7	Relocate Telco	148	m	625	92,500	
8.8	Relocate Water		m	375	-	
8.9	Protect utilities (Provisional Sum)	1	PS	50,000	50,000	
8.10	Gas Transmission		m	10,000	-	
9	MISCELLANEOUS					
9.1	Line marking	1	item	5,000	5,000	
9.2	Regulatory Signage	10	No.	750	7,500	no. of pole mounted signs assumed
9.3	Works maintenance - up to 1 year	1	item	5,000	5,000	
9.4	Landscape maintenance - 1yr/2 summers	1	item	7,500	7,500	
9.5	Traffic signals 10 year Maintenance Fee		item	80,000	-	Not in scope
9.6	Street Furniture	148	LM	95	14,060	Includes bins and bike hoops
	SUB-TOTAL WORKS				2,308,000	
12	DELIVERY					
12.1	Council Fees	3.25	%		75,000	
12.2	Other Authority Fees	1	%		23,100	
12.3	Traffic Management	7	%		161,600	
12.4	Environmental Management	0.5	%		11,500	
12.5	Survey/Design	5	%		115,400	
12.6	Supervision/Project Management	9	%		207,700	
12.7	Site Establishment	2.5	%		57,700	
12.8	Contingency	20	%		461,600	
	SUB-TOTAL DELIVERY				1,114,000	
13	TOTAL ESTIMATED COST				3,422,000	

Item	Description	Quantity	Unit	Rate	Amount	Comments
	WORKS					
1	DEMOLITION					
1.1	Earthworks including disposal	649	m3	225	146,104	Allowed for excavation and disposal. Assumed 300mm under existing road and includes disposal of Cat C
1.2	Allowance for demolition of existing kerbs	222	m	81	17,982	Includes disposal
1.3	Allowance for demolition of existing footpaths	555	m2	56	31,080	Includes disposal
1.4	Allowance to mill existing asphalt road		m2	13		
1.5	Allowance to decommission existing street lights	10	no	3,125	31,250	Includes handing over the removed posts
1.6	Allowance to remove existing street furniture etc.	1	Item	6,250	6,250	Includes bins, seats, drink fountains, assumed existing trees remain
1.7	Allowance for demolition of existing buildings		m2	50	-	No scope assumed
2	ROAD PAVEMENT					
2.1	New pavement - 3.5m x 2 transport lanes	777	m2	240	186,480	Assumed detail 2 of standard asphalt pavement
2.2	Pedestrian Path - 4.25m x 2	944	m2	135	127,373	Allowance to trim subbase and place 110mm of coloured asphalt
2.3	Bike Path - 2m x 2	444	m2	135	59,940	Allowance to trim subbase and place 110mm of coloured asphalt
3	KERB WORKS					
3.1	Kerb and Channel	222	LM	813	180,486	300x300 Bluestone with 250 gutterstone
3.2	Kerb to centre median	222	LM	500	111,000	300x300 Bluestone
3.3	Tactiles	6	Item	2,400	14,400	Panda Granite
4	DRAINAGE					
4.1	Drainage - pipes	222	LM	713	158,286	450mm on both sides of road
4.2	Drainage - pits	5	No.	3,750	18,750	At 50m intervals
4.3	Drainage - Sub-soil drainage	222	LM	150	33,300	N/A
4.4	Drainage - Miscellaneous (Description)		Item	-	-	N/A
5	TRAFFIC					
5.1	Traffic Signals		Item	200,000	-	Excluded
5.2	Traffic Safety		Item	-	-	Excluded
6	LANDSCAPE					
6.1	Trees -centre median	11	No.	250	2,775	45L tree. No tree guard assumed
6.2	Trees -pedestrian path	22	No.	1,875	41,625	45L tree including tree guard and passive irrigation WSUD elements
6.3	Landscaping - centre median	133	m2	75	9,990	allow for native shrubs/ grass including garden bed
7	STREET LIGHTING					
7.1	Street Lighting	8	No.	12,500	100,000	at 40m spacing along, includes underground cabling and foundations
7.2	Bike Path Lighting		No.	12,500		
7.3	Conduits	222	m	1,250	277,500	Including trenching
8	UTILITIES					
8.1	Allowance for non-disruptive digging	2	Item	18,750	37,500	Allowance for NDD 2 shifts
8.2	New water		m	355	-	225mm dia
8.3	New sewer		m	805	-	300mm dia
8.4	New telco		m	75	-	2x100mm conduits
8.5	New gas		PS	10,000	-	
8.6	Relocate Gas		m	563	-	
8.7	Relocate Telco	86	m	625	53,750	
8.8	Relocate Water		m	375	-	
8.9	Protect utilities (Provisional Sum)	1	PS	50,000	50,000	
8.10	Gas Transmission	35	m	10,000	350,000	Coating and protection slab only
9	MISCELLANEOUS					
9.1	Line marking	1	Item	5,000	5,000	
9.2	Regulatory Signage	10	No.	750	7,500	no. of pole mounted signs assumed
9.3	Works maintenance - up to 1 year	1	Item	5,000	5,000	
9.4	Landscape maintenance - 1yr/2 summers	1	Item	7,500	7,500	
9.5	Traffic signals 10 year Maintenance Fee		Item	80,000	-	Not in scope
9.6	Street Furniture	111	LM	95	10,545	Includes bins and bike hoops
	SUB-TOTAL WORKS				2,071,000	
12	DELIVERY					
12.1	Council Fees	3.25	%		67,300	
12.2	Other Authority Fees	1	%		20,700	
12.3	Traffic Management	7	%		145,000	
12.4	Environmental Management	0.5	%		10,400	
12.5	Survey/Design	5	%		103,600	
12.6	Supervision/Project Management	9	%		186,400	
12.7	Site Establishment	2.5	%		51,800	
12.8	Contingency	20	%		414,200	
	SUB-TOTAL DELIVERY				999,000	
13	TOTAL ESTIMATED COST				3,070,000	

Item	Description	Quantity	Unit	Rate	Amount	Comments
	WORKS					
1	DEMOLITION					
1.1	Earthworks including disposal	705	m3	225	158,625	Allowed for excavation and disposal. Assumed 300mm under existing road and includes disposal of Cat C
1.2	Allowance for demolition of existing kerbs	188	m	81	15,228	Includes disposal
1.3	Allowance for demolition of existing footpaths	470	m2	56	26,320	Includes disposal
1.4	Allowance to mill existing asphalt road		m2	13		
1.5	Allowance to decommission existing street lights	10	no	3,125	31,250	Includes handing over the removed posts
1.6	Allowance to remove existing street furniture etc.	1	item	6,250	6,250	Includes bins, seats, drink fountains, assumed existing trees remain
1.7	Allowance for demolition of existing buildings		m2	50	-	No scope assumed
2	ROAD PAVEMENT					
2.1	New pavement - 3.5m x 2 transport + 2.2 dropoff	865	m2	240	207,552	Assumed detail 2 of standard asphalt pavement
2.2	Pedestrian Path - 5.5m x 2	1,034	m2	135	139,590	Allowance to trim subbase and place 110mm of coloured asphalt
2.3	Bike Path - 2.4m x 2	451	m2	135	60,912	Allowance to trim subbase and place 110mm of coloured asphalt
3	KERB WORKS					
3.1	Kerb and Channel	188	LM	813	152,844	300x300 Bluestone with 250 gutterstone
3.2	Kerb to centre median	-	LM	500	-	300x300 Bluestone
3.3	Tactiles	6	item	2,400	14,400	Panda Granite
4	DRAINAGE					
4.1	Drainage - pipes	188	LM	713	134,044	450mm on both sides of road
4.2	Drainage - pits	4	No.	3,750	15,000	At 50m intervals
4.3	Drainage - Sub-soil drainage	188	LM	150	28,200	N/A
4.4	Drainage - Miscellaneous (Description)	367	m2	300	109,980	Cloudburst includes excavation and disposal, low level planting.
5	TRAFFIC					
5.1	Traffic Signals		item	200,000	-	Excluded
5.2	Traffic Safety		item	-	-	Excluded
6	LANDSCAPE					
6.1	Trees -centre median	9	No.	250	2,350	45L tree. No tree guard assumed
6.2	Trees -pedestrian path	19	No.	1,875	35,250	45L tree including tree guard and passive irrigation WSUD elements
6.3	Landscaping - centre median	113	m2	75	8,460	allow for native shrubs/ grass including garden bed
7	STREET LIGHTING					
7.1	Street Lighting	8	No.	12,500	100,000	at 40m spacing along, includes underground cabling and foundations (provisional sum)
7.2	Bike Path Lighting		No.	12,500		
7.3	Conduits	188	m	1,250	235,000	Including trenching
8	UTILITIES					
8.1	Allowance for non-disruptive digging	2	item	18,750	37,500	Allowance for NDD 2 shifts
8.2	New water		m	355	-	225mm dia
8.3	New sewer		m	805	-	300mm dia
8.4	New telco		m	75	-	2x100mm conduits
8.5	New gas		PS	10,000	-	
8.6	Relocate Gas		m	563	-	
8.7	Relocate Telco		m	625	-	
8.8	Relocate Water	94	m	375	35,250	
8.9	Protect utilities (Provisional Sum)	1	PS	50,000	50,000	
8.10	Gas Transmission		m	10,000	-	
9	MISCELLANEOUS					
9.1	Line marking	1	item	5,000	5,000	
9.2	Regulatory Signage	10	No.	750	7,500	no. of pole mounted signs assumed
9.3	Works maintenance - up to 1 year	1	item	5,000	5,000	
9.4	Landscape maintenance - 1yr/2 summers	1	item	7,500	7,500	
9.5	Traffic signals 10 year Maintenance Fee		item	80,000	-	Not in scope
9.6	Street Furniture	94	LM	95	8,930	Includes bins and bike hoops
	SUB-TOTAL WORKS				1,629,000	
12	DELIVERY					
12.1	Council Fees	3.25	%		52,900	
12.2	Other Authority Fees	1	%		16,300	
12.3	Traffic Management	7	%		114,000	
12.4	Environmental Management	0.5	%		8,100	
12.5	Survey/Design	5	%		81,500	
12.6	Supervision/Project Management	9	%		146,600	
12.7	Site Establishment	2.5	%		40,700	
12.8	Contingency	20	%		325,800	
	SUB-TOTAL DELIVERY				786,000	
13	TOTAL ESTIMATED COST				2,415,000	

Item	Description	Quantity	Unit	Rate	Amount	Comments
	WORKS					
1	DEMOLITION					
1.1	Earthworks including disposal	1,236	m3	225	277,992	Allowed for excavation and disposal. Assumed 300mm under existing road and includes disposal of Cat C
1.2	Allowance for demolition of existing kerbs	286	m	81	23,166	Includes disposal
1.3	Allowance for demolition of existing footpaths	1,001	m2	56	56,056	Includes disposal
1.4	Allowance to mill existing asphalt road		m2	13		
1.5	Allowance to decommission existing street lights	17	no	3,125	53,125	Includes handing over the removed posts
1.6	Allowance to remove existing street furniture etc.	1	item	6,250	6,250	Includes bins, seats, drink fountains, assumed existing trees remain
1.7	Allowance for demolition of existing buildings		m2	50	-	
2	ROAD PAVEMENT					
2.1	New pavement - 6.5m x 2 transport lanes	1,859	m2	240	446,160	Assumed detail 2 of standard asphalt pavement
2.2	Pedestrian Path - 5.5m x 2	1,573	m2	135	212,355	Allowance to trim subbase and place 110mm of coloured asphalt
2.3	Bike Path - 2.4m x 2	686	m2	135	92,664	Allowance to trim subbase and place 110mm of coloured asphalt
3	KERB WORKS					
3.1	Kerb and Channel	286	LM	813	232,518	300x300 Bluestone with 250 gutterstone
3.2	Kerb to centre median	286	LM	500	143,000	300x300 Bluestone
3.3	Tactiles	6	item	2,400	14,400	Panda Granite
4	DRAINAGE					
4.1	Drainage - pipes	286	LM	713	203,918	450mm on both sides of road
4.2	Drainage - pits	6	No.	3,750	22,500	At 50m intervals
4.3	Drainage - Sub-soil drainage	286	LM	150	42,900	N/A
4.4	Drainage - Miscellaneous (Description)		item	-	-	N/A
5	TRAFFIC					
5.1	Traffic Signals		item	200,000	-	Excluded
5.1	Traffic Safety		item	-	-	Excluded
6	LANDSCAPE					
6.1	Trees -centre median	-	No.	250	-	45L tree. No tree guard assumed
6.2	Trees -pedestrian path	28	No.	1,875	52,500	45L tree including tree guard and passive irrigation WSUD elements
6.3	Landscaping - centre median		m2	75	-	
7	STREET LIGHTING					
7.1	Street Lighting	8	No.	12,500	100,000	at 40m spacing along, includes underground cabling and foundations
7.2	Bike Path Lighting		No.	12,500		
7.3	Conduits	286	m	1,250	357,500	Including trenching
8	UTILITIES					
8.1	Allowance for non-disruptive digging	2	item	18,750	37,500	Allowance for NDD 2 shifts
8.2	New water		m	355	-	225mm dia
8.3	New sewer		m	805	-	300mm dia
8.4	New telco		m	75	-	2x100mm conduits
8.5	New gas		PS	10,000	-	
8.6	Relocate Gas		m	563	-	
8.7	Relocate Telco	142	m	625	88,750	
8.8	Relocate Water		m	375	-	
8.9	Protect utilities (Provisional Sum)	1	PS	50,000	50,000	
8.10	Gas Transmission		m	10,000	-	
9	MISCELLANEOUS					
9.1	Line marking	1	item	5,000	5,000	
9.2	Regulatory Signage	10	no	750	7,500	no. of pole mounted signs assumed
9.3	Works maintenance - up to 1 year	1	item	5,000	5,000	
9.4	Landscape maintenance - 1yr/2 summers	1	item	7,500	7,500	
9.5	Traffic signals 10 year Maintenance Fee		item	80,000	-	Not in scope
9.6	Street Furniture	143	LM	95	13,585	Includes bins and bike hoops
	SUB-TOTAL WORKS				2,538,000	
12	DELIVERY					
12.1	Council Fees	3.25	%		82,500	
12.2	Other Authority Fees	1	%		25,400	
12.3	Traffic Management	7	%		177,700	
12.4	Environmental Management	0.5	%		12,700	
12.5	Survey/Design	5	%		126,900	
12.6	Supervision/Project Management	9	%		228,400	
12.7	Site Establishment	2.5	%		63,500	
12.8	Contingency	20	%		507,600	
	SUB-TOTAL DELIVERY				1,225,000	
11	TOTAL ESTIMATED COST				3,763,000	

Item	Description	Quantity	Unit	Rate	Amount	Comments
	WORKS					
1	DEMOLITION					
1.1	Earthworks including disposal	622	m3	225	139,968	Allowed for excavation and disposal. Assumed 300mm under existing road and includes disposal of Cat C
1.2	Allowance for demolition of existing kerbs	144	m	81	11,664	Includes disposal
1.3	Allowance for demolition of existing footpaths	504	m2	56	28,224	Includes disposal
1.4	Allowance to mill existing asphalt road		m2	13		
1.5	Allowance to decommission existing street lights	17	no	3,125	53,125	Includes handing over the removed posts
1.6	Allowance to remove existing street furniture etc.	1	Item	6,250	6,250	Includes bins, seats, drink fountains, assumed existing trees remain
1.7	Allowance for demolition of existing buildings		m2	50	-	
2	ROAD PAVEMENT					
2.1	New pavement - 6.5m x 2 transport lanes	936	m2	240	224,640	Assumed detail 2 of standard asphalt pavement
2.2	Pedestrian Path - 5.5m x 2	792	m2	135	106,920	Allowance to trim subbase and place 110mm of coloured asphalt
2.3	Bike Path - 2.4m x 2	346	m2	135	46,656	Allowance to trim subbase and place 110mm of coloured asphalt
3	KERB WORKS					
3.1	Kerb and Channel	144	LM	813	117,072	300x300 Bluestone with 250 gutterstone
3.2	Kerb to centre median	144	LM	500	72,000	300x300 Bluestone
3.3	Tactiles	6	Item	2,400	14,400	Panda Granite
4	DRAINAGE					
4.1	Drainage - pipes	144	LM	713	102,672	450mm on both sides of road
4.2	Drainage - pits	3	No.	3,750	11,250	At 50m intervals
4.3	Drainage - Sub-soil drainage	144	LM	150	21,600	N/A
4.4	Drainage - Miscellaneous (Description)		Item	-	-	N/A
5	TRAFFIC					
5.1	Traffic Signals		Item	200,000	-	Excluded
5.1	Traffic Safety		Item	-	-	Excluded
6	LANDSCAPE					
6.1	Trees -centre median	-	No.	250	-	45L tree. No tree guard assumed
6.2	Trees -pedestrian path	28	No.	1,875	52,500	45L tree including tree guard and passive irrigation WSUD elements
6.3	Landscaping - centre median		m2	75	-	
7	STREET LIGHTING					
7.1	Street Lighting	8	No.	12,500	100,000	at 40m spacing along, includes underground cabling and foundations
7.2	Bike Path Lighting		No.	12,500		
7.3	Conduits	144	m	1,250	180,000	Including trenching
8	UTILITIES					
8.1	Allowance for non-disruptive digging	2	Item	18,750	37,500	Allowance for NDD 2 shifts
8.2	New water		m	355	-	225mm dia
8.3	New sewer		m	805	-	300mm dia
8.4	New telco		m	75	-	2x100mm conduits
8.5	New gas		PS	10,000	-	
8.6	Relocate Gas		m	563	-	
8.7	Relocate Telco	71	m	625	44,375	
8.8	Relocate Water		m	375	-	
8.9	Protect utilities (Provisional Sum)	1	PS	50,000	50,000	
8.10	Gas Transmission		m	10,000	-	
9	MISCELLANEOUS					
9.1	Line marking	1	Item	5,000	5,000	
9.2	Regulatory Signage	10	no	750	7,500	no. of pole mounted signs assumed
9.3	Works maintenance - up to 1 year	1	Item	5,000	5,000	
9.4	Landscape maintenance - 1yr/2 summers	1	Item	7,500	7,500	
9.5	Traffic signals 10 year Maintenance Fee		Item	80,000	-	Not in scope
9.6	Street Furniture	72	LM	95	6,840	Includes bins and bike hoops
	SUB-TOTAL WORKS				1,446,000	
12	DELIVERY					
12.1	Council Fees	3.25	%		47,000	
12.2	Other Authority Fees	1	%		14,500	
12.3	Traffic Management	7	%		101,200	
12.4	Environmental Management	0.5	%		7,200	
12.5	Survey/Design	5	%		72,300	
12.6	Supervision/Project Management	9	%		130,100	
12.7	Site Establishment	2.5	%		36,200	
12.8	Contingency	20	%		289,200	
	SUB-TOTAL DELIVERY				698,000	
11	TOTAL ESTIMATED COST				2,144,000	

Item	Description	Quantity	Unit	Rate	Amount	Comments
	WORKS					
1	DEMOLITION					
1.1	Earthworks including disposal	275	m3	225	61,965	Allowed for excavation and disposal. Assumed 300mm under existing road and includes disposal of Cat C
1.2	Allowance for demolition of existing kerbs	102	m	81	8,262	Includes disposal
1.3	Allowance for demolition of existing footpaths	357	m2	56	19,992	Includes disposal
1.4	Allowance to mill existing asphalt road		m2	13		
1.5	Allowance to decommission existing street lights	17	no	3,125	53,125	Includes handing over the removed posts
1.6	Allowance to remove existing street furniture etc.	-	Item	6,250	-	Includes bins, seats, drink fountains, assumed existing trees remain
1.7	Allowance for demolition of existing buildings		m2	50	-	
2	ROAD PAVEMENT					
2.1	New pavement -	-	m2	240	-	
2.2	Pedestrian Path - 7m x 2	714	m2	135	96,390	Allowance to trim subbase and place 110mm of coloured asphalt
2.3	Bike Path - 4m	204	m2	135	27,540	Allowance to trim subbase and place 110mm of coloured asphalt
3	KERB WORKS					
3.1	Kerb and Channel	102	LM	813	82,926	300x300 Bluestone with 250 gutterstone
3.2	Kerb to centre median	-	LM	500	-	300x300 Bluestone
3.3	Tactiles	2	Item	2,400	4,800	Panda Granite
4	DRAINAGE					
4.1	Drainage - pipes	102	LM	713	72,726	450mm on both sides of road
4.2	Drainage - pits	3	No.	3,750	11,250	At 50m intervals
4.3	Drainage - Sub-soil drainage	102	LM	150	15,300	N/A
4.4	Drainage - Miscellaneous (Description)		Item	-	-	N/A
5	TRAFFIC					
5.1	Traffic Signals		Item	200,000	-	Excluded
5.1	Traffic Safety		Item	-	-	Excluded
6	LANDSCAPE					
6.1	Trees -centre median	-	No.	250	-	45L tree. No tree guard assumed
6.2	Trees -pedestrian path	8	No.	1,875	15,000	45L tree including tree guard and passive irrigation WSUD elements
6.3	Landscaping - centre median		m2	75	-	
7	STREET LIGHTING					
7.1	Street Lighting	4	No.	12,500	50,000	at 40m spacing along, includes underground cabling and foundations
7.2	Bike Path Lighting		No.	12,500		
7.3	Conduits	102	m	1,250	127,500	Including trenching
8	UTILITIES					
8.1	Allowance for non-disruptive digging		Item	18,750	-	Allowance for NDD 2 shifts
8.2	New water	105	m	355	37,275	225mm dia
8.3	New sewer	105	m	805	84,525	300mm dia
8.4	New telco	105	m	75	7,875	2x100mm conduits
8.5	New gas	1	PS	10,000	10,000	
8.6	Relocate Gas		m	563	-	
8.7	Relocate Telco		m	625	-	
8.8	Relocate Water		m	375	-	
8.9	Protect utilities (Provisional Sum)		PS	50,000	-	
8.10	Gas Transmission		m	10,000	-	
9	MISCELLANEOUS					
9.1	Line marking	1	Item	5,000	5,000	
9.2	Regulatory Signage	4	no	750	3,000	no. of pole mounted signs assumed
9.3	Works maintenance - up to 1 year	1	Item	5,000	5,000	
9.4	Landscape maintenance - 1yr/2 summers	1	Item	7,500	7,500	
9.5	Traffic signals 10 year Maintenance Fee		Item	80,000	-	Not in scope
9.6	Street Furniture	51	LM	95	4,845	Includes bins and bike hoops
	SUB-TOTAL WORKS				807,000	
12	DELIVERY					
12.1	Council Fees	3.25	%		26,200	
12.2	Other Authority Fees	1	%		8,100	
12.3	Traffic Management	7	%		56,500	
12.4	Environmental Management	0.5	%		4,000	
12.5	Survey/Design	5	%		40,400	
12.6	Supervision/Project Management	9	%		72,600	
12.7	Site Establishment	2.5	%		20,200	
12.8	Contingency	20	%		161,400	
	SUB-TOTAL DELIVERY				389,000	
11	TOTAL ESTIMATED COST				1,196,000	

Item	Description	Quantity	Unit	Rate	Amount	Comments
	WORKS					
1	DEMOLITION					
1.1	Earthworks including disposal	721	m3	225	162,142	Allowed for excavation and disposal. Assumed 300mm under existing road and includes disposal of Cat C
1.2	Allowance for demolition of existing kerbs	306	m	81	24,786	Includes disposal
1.3	Allowance for demolition of existing footpaths	1,071	m2	56	59,976	Includes disposal
1.4	Allowance to mill existing asphalt road		m2	13		
1.5	Allowance to decommission existing street lights	17	no	3,125	53,125	Includes handing over the removed posts
1.6	Allowance to remove existing street furniture etc.	1	Item	6,250	6,250	Includes bins, seats, drink fountains, assumed existing trees remain
1.7	Allowance for demolition of existing buildings		m2	50	-	
2	ROAD PAVEMENT					
2.1	New pavement - 6m transport lanes	918	m2	240	220,320	Assumed detail 2 of standard asphalt pavement
2.2	Pedestrian Path - 4.4m+5.3m	1,484	m2	135	200,354	Allowance to trim subbase and place 110mm of coloured asphalt
2.3	Bike Path -	-	m2	135	-	Allowance to trim subbase and place 110mm of coloured asphalt
3	KERB WORKS					
3.1	Kerb and Channel	306	LM	813	248,778	300x300 Bluestone with 250 gutterstone
3.2	Kerb to centre median	-	LM	500	-	300x300 Bluestone
3.3	Tactiles	6	Item	2,400	14,400	Panda Granite
4	DRAINAGE					
4.1	Drainage - pipes	306	LM	713	218,178	450mm on both sides of road
4.2	Drainage - pits	7	No.	3,750	26,250	At 50m intervals
4.3	Drainage - Sub-soil drainage	306	LM	150	45,900	N/A
4.4	Drainage - Miscellaneous (Description)		Item	-	-	N/A
5	TRAFFIC					
5.1	Traffic Signals		Item	200,000	-	Excluded
5.1	Traffic Safety		Item	-	-	Excluded
6	LANDSCAPE					
6.1	Trees -centre median	-	No.	250	-	45L tree. No tree guard assumed
6.2	Trees -pedestrian path	28	No.	1,875	52,500	45L tree including tree guard and passive irrigation WSUD elements
6.3	Landscaping - centre median		m2	75	-	
7	STREET LIGHTING					
7.1	Street Lighting	8	No.	12,500	100,000	at 40m spacing along, includes underground cabling and foundations
7.2	Bike Path Lighting		No.	12,500		
7.3	Conduits	306	m	1,250	382,500	Including trenching
8	UTILITIES					
8.1	Allowance for non-disruptive digging		Item	18,750	-	Allowance for NDD 2 shifts
8.2	New water		m	355	-	225mm dia
8.3	New sewer		m	805	-	300mm dia
8.4	New telco		m	75	-	2x100mm conduits
8.5	New gas		PS	10,000	-	
8.6	Relocate Gas	50	m	563	28,125	
8.7	Relocate Telco		m	625	-	
8.8	Relocate Water		m	375	-	
8.9	Protect utilities (Provisional Sum)	1	PS	50,000	50,000	
8.10	Gas Transmission		m	10,000	-	
9	MISCELLANEOUS					
9.1	Line marking	1	Item	5,000	5,000	
9.2	Regulatory Signage	10	no	750	7,500	no. of pole mounted signs assumed
9.3	Works maintenance - up to 1 year	1	Item	5,000	5,000	
9.4	Landscape maintenance - 1yr/2 summers	1	Item	7,500	7,500	
9.5	Traffic signals 10 year Maintenance Fee		Item	80,000	-	Not in scope
9.6	Street Furniture	153	LM	95	14,535	Includes bins and bike hoops
	SUB-TOTAL WORKS				1,919,000	
12	DELIVERY					
12.1	Council Fees	3.25	%		62,400	
12.2	Other Authority Fees	1	%		19,200	
12.3	Traffic Management	7	%		134,300	
12.4	Environmental Management	0.5	%		9,600	
12.5	Survey/Design	5	%		96,000	
12.6	Supervision/Project Management	9	%		172,700	
12.7	Site Establishment	2.5	%		48,000	
12.8	Contingency	20	%		383,800	
	SUB-TOTAL DELIVERY				926,000	
11	TOTAL ESTIMATED COST				2,845,000	

Item	Description	Quantity	Unit	Rate	Amount	Comments
	WORKS					
1	DEMOLITION					
1.1	Earthworks including disposal	645	m3	225	145,152	Allowed for excavation and disposal. Assumed 300mm under existing road and includes disposal of Cat C
1.2	Allowance for demolition of existing kerbs	192	m	81	15,552	Includes disposal
1.3	Allowance for demolition of existing footpaths	672	m2	56	37,632	Includes disposal
1.4	Allowance to mill existing asphalt road		m2	13		
1.5	Allowance to decommission existing street lights	17	no	3,125	53,125	Includes handing over the removed posts
1.6	Allowance to remove existing street furniture etc.	1	Item	6,250	6,250	Includes bins, seats, drink fountains, assumed existing trees remain
1.7	Allowance for demolition of existing buildings		m2	50	-	
2	ROAD PAVEMENT					
2.1	New pavement - 3.5m x 2 transport lanes	672	m2	240	161,280	Assumed detail 2 of standard asphalt pavement
2.2	Pedestrian Path - 5.7x2m	1,094	m2	135	147,744	Allowance to trim subbase and place 110mm of coloured asphalt
2.3	Bike Path - 2m x 2	384	m2	135	51,840	Allowance to trim subbase and place 110mm of coloured asphalt
3	KERB WORKS					
3.1	Kerb and Channel	192	LM	813	156,096	300x300 Bluestone with 250 gutterstone
3.2	Kerb to centre median	-	LM	500	-	300x300 Bluestone
3.3	Tactiles	6	Item	2,400	14,400	Panda Granite
4	DRAINAGE					
4.1	Drainage - pipes	192	LM	713	136,896	450mm on both sides of road
4.2	Drainage - pits	4	No.	3,750	15,000	At 50m intervals
4.3	Drainage - Sub-soil drainage	192	LM	150	28,800	N/A
4.4	Drainage - Miscellaneous (Description)		Item	-	-	N/A
5	TRAFFIC					
5.1	Traffic Signals		Item	200,000	-	Excluded
5.1	Traffic Safety		Item	-	-	Excluded
6	LANDSCAPE					
6.1	Trees -centre median	-	No.	250	-	45L tree. No tree guard assumed
6.2	Trees -pedestrian path	28	No.	1,875	52,500	45L tree including tree guard and passive irrigation WSUD elements
6.3	Landscaping - centre median		m2	75	-	
7	STREET LIGHTING					
7.1	Street Lighting	8	No.	12,500	100,000	at 40m spacing along, includes underground cabling and foundations
7.2	Bike Path Lighting		No.	12,500		
7.3	Conduits	192	m	1,250	240,000	Including trenching
8	UTILITIES					
8.1	Allowance for non-disruptive digging	2	Item	18,750	37,500	Allowance for NDD 2 shifts
8.2	New water		m	355	-	225mm dia
8.3	New sewer		m	805	-	300mm dia
8.4	New telco		m	75	-	2x100mm conduits
8.5	New gas		PS	10,000	-	
8.6	Relocate Gas		m	563	-	
8.7	Relocate Telco		m	625	-	
8.8	Relocate Water		m	375	-	
8.9	Protect utilities (Provisional Sum)	1	PS	50,000	50,000	
8.10	Gas Transmission		m	10,000	-	
9	MISCELLANEOUS					
9.1	Line marking	1	Item	5,000	5,000	
9.2	Regulatory Signage	10	no	750	7,500	no. of pole mounted signs assumed
9.3	Works maintenance - up to 1 year	1	Item	5,000	5,000	
9.4	Landscape maintenance - 1yr/2 summers	1	Item	7,500	7,500	
9.5	Traffic signals 10 year Maintenance Fee		Item	80,000	-	Not in scope
9.6	Street Furniture	96	LM	95	9,120	Includes bins and bike hoops
	SUB-TOTAL WORKS				1,475,000	
12	DELIVERY					
12.1	Council Fees	3.25	%		47,900	
12.2	Other Authority Fees	1	%		14,800	
12.3	Traffic Management	7	%		103,300	
12.4	Environmental Management	0.5	%		7,400	
12.5	Survey/Design	5	%		73,800	
12.6	Supervision/Project Management	9	%		132,800	
12.7	Site Establishment	2.5	%		36,900	
12.8	Contingency	20	%		295,000	
	SUB-TOTAL DELIVERY				712,000	
11	TOTAL ESTIMATED COST				2,187,000	

Item	Description	Quantity	Unit	Rate	Amount	Comments
	WORKS					
1	DEMOLITION					
1.1	Earthworks including disposal	892	m3	225	200,799	Allowed for excavation and disposal. Assumed 300mm under existing road and includes disposal of Cat C
1.2	Allowance for demolition of existing kerbs	268	m	81	21,708	Includes disposal
1.3	Allowance for demolition of existing footpaths	938	m2	56	52,528	Includes disposal
1.4	Allowance to mill existing asphalt road		m2	13		
1.5	Allowance to decommission existing street lights	17	no	3,125	53,125	Includes handing over the removed posts
1.6	Allowance to remove existing street furniture etc.	1	Item	6,250	6,250	Includes bins, seats, drink fountains, assumed existing trees remain
1.7	Allowance for demolition of existing buildings		m2	50	-	
2	ROAD PAVEMENT					
2.1	New pavement - 3.5m x 2 transport	938	m2	240	225,120	Assumed detail 2 of standard asphalt pavement
2.2	Pedestrian Path - 5.6m x 2	1,501	m2	135	202,608	Allowance to trim subbase and place 110mm of coloured asphalt
2.3	Bike Path - 2m x 2	536	m2	135	72,360	Allowance to trim subbase and place 110mm of coloured asphalt
3	KERB WORKS					
3.1	Kerb and Channel	268	LM	813	217,884	300x300 Bluestone with 250 gutterstone
3.2	Kerb to centre median	-	LM	500	-	300x300 Bluestone
3.3	Tactiles	6	Item	2,400	14,400	Panda Granite
4	DRAINAGE					
4.1	Drainage - pipes	268	LM	713	191,084	450mm on both sides of road
4.2	Drainage - pits	6	No.	3,750	22,500	At 50m intervals
4.3	Drainage - Sub-soil drainage	268	LM	150	40,200	N/A
4.4	Drainage - Miscellaneous (Description)		Item	-	-	N/A
5	TRAFFIC					
5.1	Traffic Signals		Item	200,000	-	Excluded
5.1	Traffic Safety		Item	-	-	Excluded
6	LANDSCAPE					
6.1	Trees -centre median	-	No.	250	-	45L tree. No tree guard assumed
6.2	Trees -pedestrian path	28	No.	1,875	52,500	45L tree including tree guard and passive irrigation WSUD elements
6.3	Landscaping - centre median		m2	75	-	
7	STREET LIGHTING					
7.1	Street Lighting	8	No.	12,500	100,000	at 40m spacing along, includes underground cabling and foundations
7.2	Bike Path Lighting		No.	12,500		
7.3	Conduits	268	m	1,250	335,000	Including trenching
8	UTILITIES					
8.1	Allowance for non-disruptive digging	2	Item	18,750	37,500	Allowance for NDD 2 shifts
8.2	New water		m	355	-	225mm dia
8.3	New sewer		m	805	-	300mm dia
8.4	New telco		m	75	-	2x100mm conduits
8.5	New gas		PS	10,000	-	
8.6	Relocate Gas	133	m	563	74,813	
8.7	Relocate Telco	133	m	625	83,125	
8.8	Relocate Water		m	375		
8.9	Protect utilities (Provisional Sum)	1	PS	50,000		
8.10	Gas Transmission		m	10,000	-	
9	MISCELLANEOUS					
9.1	Line marking	1	Item	5,000	5,000	
9.2	Regulatory Signage	10	no	750	7,500	no. of pole mounted signs assumed
9.3	Works maintenance - up to 1 year	1	Item	5,000	5,000	
9.4	Landscape maintenance - 1yr/2 summers	1	Item	7,500	7,500	
9.5	Traffic signals 10 year Maintenance Fee		Item	80,000	-	Not in scope
9.6	Street Furniture	134	LM	95	12,730	Includes bins and bike hoops
	SUB-TOTAL WORKS				2,029,000	
12	DELIVERY					
12.1	Council Fees	3.25	%		65,900	
12.2	Other Authority Fees	1	%		20,300	
12.3	Traffic Management	7	%		142,000	
12.4	Environmental Management	0.5	%		10,100	
12.5	Survey/Design	5	%		101,500	
12.6	Supervision/Project Management	9	%		182,600	
12.7	Site Establishment	2.5	%		50,700	
12.8	Contingency	20	%		405,800	
	SUB-TOTAL DELIVERY				979,000	
11	TOTAL ESTIMATED COST				3,008,000	

Item	Description	Quantity	Unit	Rate	Amount	Comments
	WORKS					
1	DEMOLITION					
1.1	Earthworks including disposal	519	m3	225	116,883	Allowed for excavation and disposal. Assumed 300mm under existing road and includes disposal of Cat C
1.2	Allowance for demolition of existing kerbs	156	m	81	12,636	Includes disposal
1.3	Allowance for demolition of existing footpaths	546	m2	56	30,576	Includes disposal
1.4	Allowance to mill existing asphalt road		m2	13		
1.5	Allowance to decommission existing street lights	17	no	3,125	53,125	Includes handing over the removed posts
1.6	Allowance to remove existing street furniture etc.	1	Item	6,250	6,250	Includes bins, seats, drink fountains, assumed existing trees remain
1.7	Allowance for demolition of existing buildings		m2	50	-	
2	ROAD PAVEMENT					
2.1	New pavement - 3.5m x 2 transport	546	m2	240	131,040	Assumed detail 2 of standard asphalt pavement
2.2	Pedestrian Path - 5.6m x 2	874	m2	135	117,936	Allowance to trim subbase and place 110mm of coloured asphalt
2.3	Bike Path - 2m x 2	312	m2	135	42,120	Allowance to trim subbase and place 110mm of coloured asphalt
3	KERB WORKS					
3.1	Kerb and Channel	156	LM	813	126,828	300x300 Bluestone with 250 gutterstone
3.2	Kerb to centre median	-	LM	500	-	300x300 Bluestone
3.3	Tactiles	6	Item	2,400	14,400	Panda Granite
4	DRAINAGE					
4.1	Drainage - pipes	156	LM	713	111,228	450mm on both sides of road
4.2	Drainage - pits	4	No.	3,750	15,000	At 50m intervals
4.3	Drainage - Sub-soil drainage	156	LM	150	23,400	N/A
4.4	Drainage - Miscellaneous (Description)		Item	-	-	N/A
5	TRAFFIC					
5.1	Traffic Signals		Item	200,000	-	Excluded
5.1	Traffic Safety		Item	-	-	Excluded
6	LANDSCAPE					
6.1	Trees -centre median	-	No.	250	-	45L tree. No tree guard assumed
6.2	Trees -pedestrian path	28	No.	1,875	52,500	45L tree including tree guard and passive irrigation WSUD elements
6.3	Landscaping - centre median		m2	75	-	
7	STREET LIGHTING					
7.1	Street Lighting	8	No.	12,500	100,000	at 40m spacing along, includes underground cabling and foundations
7.2	Bike Path Lighting		No.	12,500		
7.3	Conduits	156	m	1,250	195,000	Including trenching
8	UTILITIES					
8.1	Allowance for non-disruptive digging	2	Item	18,750	37,500	Allowance for NDD 2 shifts
8.2	New water		m	355	-	225mm dia
8.3	New sewer		m	805	-	300mm dia
8.4	New telco		m	75	-	2x100mm conduits
8.5	New gas		PS	10,000	-	
8.6	Relocate Gas		m	563	-	
8.7	Relocate Telco	195	m	625	121,875	
8.8	Relocate Water		m	375	-	
8.9	Protect utilities (Provisional Sum)	1	PS	50,000	50,000	
8.10	Gas Transmission		m	10,000	-	
9	MISCELLANEOUS					
9.1	Line marking	1	Item	5,000	5,000	
9.2	Regulatory Signage	10	no	750	7,500	no. of pole mounted signs assumed
9.3	Works maintenance - up to 1 year	1	Item	5,000	5,000	
9.4	Landscape maintenance - 1yr/2 summers	1	Item	7,500	7,500	
9.5	Traffic signals 10 year Maintenance Fee		Item	80,000	-	Not in scope
9.6	Street Furniture	78	LM	95	7,410	Includes bins and bike hoops
	SUB-TOTAL WORKS				1,383,000	
12	DELIVERY					
12.1	Council Fees	3.25	%		44,900	
12.2	Other Authority Fees	1	%		13,800	
12.3	Traffic Management	7	%		96,800	
12.4	Environmental Management	0.5	%		6,900	
12.5	Survey/Design	5	%		69,200	
12.6	Supervision/Project Management	9	%		124,500	
12.7	Site Establishment	2.5	%		34,600	
12.8	Contingency	20	%		276,600	
	SUB-TOTAL DELIVERY				667,000	
11	TOTAL ESTIMATED COST				2,050,000	

Item	Description	Quantity	Unit	Rate	Amount	Comments
	WORKS					
1	DEMOLITION					
1.1	Earthworks including disposal	1,229	m3	225	276,548	Allowed for excavation and disposal. Assumed 300mm under existing road and includes disposal of Cat C
1.2	Allowance for demolition of existing kerbs	364	m	81	29,484	Includes disposal
1.3	Allowance for demolition of existing footpaths	1,274	m2	56	71,344	Includes disposal
1.4	Allowance to mill existing asphalt road		m2	13		
1.5	Allowance to decommission existing street lights	17	no	3,125	53,125	Includes handing over the removed posts
1.6	Allowance to remove existing street furniture etc.	1	Item	6,250	6,250	Includes bins, seats, drink fountains, assumed existing trees remain
1.7	Allowance for demolition of existing buildings		m2	50	-	
2	ROAD PAVEMENT					
2.1	New pavement - 5.5m shared lane	1,640	m2	240	393,600	Assumed detail 2 of standard asphalt pavement
2.2	Pedestrian Path - 3.5m + 6m	1,729	m2	135	233,415	Allowance to trim subbase and place 110mm of coloured asphalt
2.3	Bike Path - 4m	728	m2	135	98,280	Allowance to trim subbase and place 110mm of coloured asphalt
3	KERB WORKS					
3.1	Kerb and Channel	572	LM	813	465,036	300x300 Bluestone with 250 gutterstone
3.2	Kerb to running path	364	LM	500	182,000	300x300 Bluestone
3.3	Tactiles	6	Item	2,400	14,400	Panda Granite
4	DRAINAGE					
4.1	Drainage - pipes	364	LM	713	259,532	450mm on both sides of road
4.2	Drainage - pits	8	No.	3,750	30,000	At 50m intervals
4.3	Drainage - Sub-soil drainage	364	LM	150	54,600	N/A
4.4	Drainage - Miscellaneous (Description)		Item	-	-	N/A
5	TRAFFIC					
5.1	Traffic Signals		Item	200,000	-	Excluded
5.1	Traffic Safety		Item	-	-	Excluded
6	LANDSCAPE					
6.1	Trees -centre median	-	No.	250	-	45L tree. No tree guard assumed
6.2	Trees -pedestrian path	28	No.	1,875	52,500	45L tree including tree guard and passive irrigation WSUD elements
6.3	Landscaping - centre median		m2	75	-	
7	STREET LIGHTING					
7.1	Street Lighting	8	No.	12,500	100,000	at 40m spacing along, includes underground cabling and foundations
7.2	Bike Path Lighting		No.	12,500		
7.3	Conduits	364	m	1,250	455,000	Including trenching
8	UTILITIES					
8.1	Allowance for non-disruptive digging		Item	18,750	-	Allowance for NDD 2 shifts
8.2	New water		m	355	-	225mm dia
8.3	New sewer		m	805	-	300mm dia
8.4	New telco		m	75	-	2x100mm conduits
8.5	New gas		PS	10,000	-	
8.6	Relocate Gas	80	m	563	45,000	
8.7	Relocate Telco		m	625	-	
8.8	Relocate Water	182	m	375	68,250	
8.9	Protect utilities (Provisional Sum)	1	PS	50,000	50,000	
8.10	Gas Transmission		m	10,000	-	
9	MISCELLANEOUS					
9.1	Line marking	1	Item	5,000	5,000	
9.2	Regulatory Signage	10	no	750	7,500	no. of pole mounted signs assumed
9.3	Works maintenance - up to 1 year	1	Item	5,000	5,000	
9.4	Landscape maintenance - 1yr/2 summers	1	Item	7,500	7,500	
9.5	Traffic signals 10 year Maintenance Fee		Item	80,000	-	Not in scope
9.6	Street Furniture	182	LM	95	17,290	Includes bins and bike hoops
	SUB-TOTAL WORKS				2,963,000	
12	DELIVERY					
12.1	Council Fees	3.25	%		96,300	
12.2	Other Authority Fees	1	%		29,600	
12.3	Traffic Management	7	%		207,400	
12.4	Environmental Management	0.5	%		14,800	
12.5	Survey/Design	5	%		148,200	
12.6	Supervision/Project Management	9	%		266,700	
12.7	Site Establishment	2.5	%		74,100	
12.8	Contingency	20	%		592,600	
	SUB-TOTAL DELIVERY				1,430,000	
11	TOTAL ESTIMATED COST				4,393,000	

Item	Description	Quantity	Unit	Rate	Amount	Comments
	WORKS					
1	DEMOLITION					
1.1	Earthworks including disposal	1,643	m3	225	369,630	Allowed for excavation and disposal. Assumed 300mm under existing road and includes disposal of Cat C
1.2	Allowance for demolition of existing kerbs	368	m	81	29,808	Includes disposal
1.3	Allowance for demolition of existing footpaths	1,288	m2	56	72,128	Includes disposal
1.4	Allowance to mill existing asphalt road		m2	13		
1.5	Allowance to decommission existing street lights	17	no	3,125	53,125	Includes handing over the removed posts
1.6	Allowance to remove existing street furniture etc.	1	Item	6,250	6,250	Includes bins, seats, drink fountains, assumed existing trees remain
1.7	Allowance for demolition of existing buildings		m2	50	-	
2	ROAD PAVEMENT					
2.1	New pavement - 6m shared lane	1,336	m2	240	320,640	Assumed detail 2 of standard asphalt pavement
2.2	Pedestrian Path - 4m + 6.5m	1,932	m2	135	260,820	Allowance to trim subbase and place 110mm of coloured asphalt
2.3	Bike Path - 4m	736	m2	135	99,360	Allowance to trim subbase and place 110mm of coloured asphalt
3	KERB WORKS					
3.1	Kerb and Channel	496	LM	813	403,248	300x300 Bluestone with 250 gutterstone
3.2	Kerb to running path	368	LM	500	184,000	300x300 Bluestone
3.3	Tactiles	6	Item	2,400	14,400	Panda Granite
4	DRAINAGE					
4.1	Drainage - pipes	368	LM	713	262,384	450mm on both sides of road
4.2	Drainage - pits	8	No.	3,750	30,000	At 50m intervals
4.3	Drainage - Sub-soil drainage	368	LM	150	55,200	N/A
4.4	Drainage - Miscellaneous (Description)		Item	-	-	N/A
5	TRAFFIC					
5.1	Traffic Signals		Item	200,000	-	Excluded
5.1	Traffic Safety		Item	-	-	Excluded
6	LANDSCAPE					
6.1	Trees -centre median	56	No.	250	14,000	45L tree. No tree guard assumed
6.2	Trees -pedestrian path	28	No.	1,875	52,500	45L tree including tree guard and passive irrigation WSUD elements
6.3	Landscaping - centre median	1,472	m2	75	110,400	
7	STREET LIGHTING					
7.1	Street Lighting	8	No.	12,500	100,000	at 40m spacing along, includes underground cabling and foundations
7.2	Bike Path Lighting		No.	12,500		
7.3	Conduits	368	m	1,250	460,000	Including trenching
8	UTILITIES					
8.1	Allowance for non-disruptive digging	2	Item	18,750	37,500	Allowance for NDD 2 shifts
8.2	New water		m	355	-	225mm dia
8.3	New sewer		m	805	-	300mm dia
8.4	New telco		m	75	-	2x100mm conduits
8.5	New gas		PS	10,000	-	
8.6	Relocate Gas	40	m	563	22,500	
8.7	Relocate Telco		m	625	-	
8.8	Relocate Water		m	375	-	
8.9	Protect utilities (Provisional Sum)	1	PS	50,000	50,000	
8.10	Gas Transmission		m	10,000	-	
9	MISCELLANEOUS					
9.1	Line marking	1	Item	5,000	5,000	
9.2	Regulatory Signage	10	no	750	7,500	no. of pole mounted signs assumed
9.3	Works maintenance - up to 1 year	1	Item	5,000	5,000	
9.4	Landscape maintenance - 1yr/2 summers	1	Item	7,500	7,500	
9.5	Traffic signals 10 year Maintenance Fee		Item	80,000	-	Not in scope
9.6	Street Furniture	184	LM	95	17,480	Includes bins and bike hoops
	SUB-TOTAL WORKS				3,033,000	
12	DELIVERY					
12.1	Council Fees	3.25	%		98,600	
12.2	Other Authority Fees	1	%		30,300	
12.3	Traffic Management	7	%		212,300	
12.4	Environmental Management	0.5	%		15,200	
12.5	Survey/Design	5	%		151,700	
12.6	Supervision/Project Management	9	%		273,000	
12.7	Site Establishment	2.5	%		75,800	
12.8	Contingency	20	%		606,600	
	SUB-TOTAL DELIVERY				1,464,000	
11	TOTAL ESTIMATED COST				4,497,000	

IN-01 Macaulay Road - Boundary Road

Item	Description	Quantity	Unit	Rate	Amount	Comments
	WORKS					
1	DEMOLITION					
1.1	Earthworks including disposal	816	m3	225	183,533	Assumed 300mm under existing roadway, allows for disposal of Cat C material
1.2	Allowance for demolition of existing kerbs	418	m	81	33,858	Includes disposal
1.3	Allowance for demolition of existing footpaths	560	m2	56	31,360	Includes disposal
1.4	Allowance to mill existing asphalt road		m2	13		
1.5	Allowance to decommission existing street lights	4	no	3,125	12,500	Includes handing over of removed posts
1.6	Allowance to remove existing street furniture etc.	1	item	6,250	6,250	Existing seats, bike hoops etc.
1.7	Allowance for demolition of existing buildings		m2	50	-	N/A
2	ROAD PAVEMENT					
2.1	New pavement	1,729	m2	240	414,960	Assumed detail 2 of standard asphalt pavement
2.2	Pedestrian Path	560	m2	135	75,600	Allowance to trim subbase and place 110mm of coloured asphalt
2.3	Bike Path	430	m2	135	58,050	Allowance to trim subbase and place 110mm of coloured asphalt
3	KERB WORKS					
3.1	Kerb and Channel	238	LM	813	193,494	300x300 Bluestone with 250 gutterstone
3.2	Kerb to centre median	180	LM	500	90,000	300x300 Bluestone
3.3	Tactiles	6	Item	2,400	14,400	Panda Granite
4	DRAINAGE					
4.1	Drainage - pipes	238	LM	713	169,694	450mm on both sides of road
4.2	Drainage - pits	5	No.	3,750	18,750	Standard CoM Side Entry Pit
4.4	Drainage - Sub-soil drainage	238	LM	150	35,700	N/A
4.3	Drainage - Miscellaneous		Item		-	N/A
5	TRAFFIC					
5.1	Traffic Signals - Modification of existing		Item	200,000	-	
5.1	Traffic Safety		Item	-	-	N/A
6	LANDSCAPE					
6.1	Trees -centre median	7	No.	250	1,750	45L tree. No tree guard assumed
6.2	Trees -pedestrian path	20	No.	1,875	37,500	45L tree including tree guard and passive irrigation elements
6.2	Landscaping - centre median	95	m2	75	7,125	
7	STREET LIGHTING					
7.1	Street Lighting - Intersection	4	No.	12,500	50,000	Assumed 4 nos
7.2	Street Lighting - Bike path	10	No.	12,500	125,000	at 20m spacing along bike path, includes underground cabling and foundations
7.3	Conduits		m	875		
8	UTILITIES					
8.1	Allowance for non-disruptive digging	2	Item	18,750	37,500	Allowance for NDD 2 shifts
8.2	New water		m	355	-	
8.3	New sewer		m	805	-	
8.4	New telco		m	75	-	
8.5	New gas		PS	10,000	-	
8.6	Relocate Gas		m	563	-	
8.7	Relocate Telco		m	625	-	
8.8	Relocate Water	105	m	375	39,375	
8.9	Protect utilities (Provisional Sum)	1	PS	50,000	50,000	
8.10	Gas Transmission		m	10,000	-	
9	MISCELLANEOUS					
9.1	Line marking	1	Item	5,000	5,000	
9.2	Regulatory Signage	10	no	750	7,500	no. of pole mounted signs assumed
9.3	Works maintenance - up to 1 year	1	Item	5,000	5,000	
9.4	Landscape maintenance - 1yr/2 summers		Item	7,500	-	
9.5	Traffic signals 10 year Maintenance Fee		Item	80,000	-	Not in scope
	SUB-TOTAL WORKS				1,704,000	
12	DELIVERY					
12.1	Council Fees	3.25	%		55,400	
12.2	Other Authority Fees	1	%		17,000	
12.3	Traffic Management	7	%		119,300	
12.4	Environmental Management	0.5	%		8,500	
12.5	Survey/Design	5	%		85,200	
12.6	Supervision/Project Management	9	%		153,400	
12.7	Site Establishment	2.5	%		42,600	
12.8	Contingency	20	%		340,800	
	SUB-TOTAL DELIVERY				822,000	
11	TOTAL ESTIMATED COST				2,526,000	

IN-02 Boundary Road, Henderson Street and Gracie Street

Item	Description	Quantity	Unit	Rate	Amount	Comments
	WORKS					
1	DEMOLITION					
1.1	Earthworks including disposal	632	m3	225	142,088	Assumed 300mm under existing roadway, allows for disposal of Cat C material
1.2	Allowance for demolition of existing kerbs	131	m	81	10,611	Includes disposal
1.3	Allowance for demolition of existing footpaths	1,059	m2	56	59,304	Includes disposal
1.4	Allowance to mill existing asphalt road		m2	13		
1.5	Allowance to decommission existing street lights	4	no	3,125	12,500	Includes handing over of removed posts
1.6	Allowance to remove existing street furniture etc.	1	item	6,250	6,250	Existing seats, bike hoops etc.
1.7	Allowance for demolition of existing buildings		m2	50	-	N/A
2	ROAD PAVEMENT					
2.1	New pavement	863	m2	240	207,120	Assumed detail 2 of standard asphalt pavement
2.2	Pedestrian Path	1,059	m2	135	142,965	Allowance to trim subbase and place 110mm of coloured asphalt
2.3	Bike Path	183	m2	135	24,705	Allowance to trim subbase and place 110mm of coloured asphalt
3	KERB WORKS					
3.1	Kerb and Channel	113	LM	813	91,869	300x300 Bluestone with 250 gutterstone
3.2	Kerb to centre median	18	LM	500	9,000	300x300 Bluestone
3.3	Tactiles	6	Item	2,400	14,400	Panda Granite
4	DRAINAGE					
4.1	Drainage - pipes	113	LM	713	80,569	450mm on both sides of road
4.2	Drainage - pits	3	No.	3,750	11,250	Standard CoM Side Entry Pit
4.4	Drainage - Sub-soil drainage	113	LM	150	16,950	N/A
4.3	Drainage - Miscellaneous		Item	-	-	N/A
5	TRAFFIC					
5.1	Traffic Signals - Modification of existing		Item	200,000	-	
5.1	Traffic Safety		Item	-	-	N/A
6	LANDSCAPE					
6.1	Trees -centre median		No.	250	-	45L tree. No tree guard assumed
6.2	Trees -pedestrian path	8	No.	1,875	15,000	45L tree including tree guard and passive irrigation elements
6.2	Landscaping - centre median		m2	75	-	
7	STREET LIGHTING					
7.1	Street Lighting - Intersection	4	No.	12,500	50,000	Assumed 4 nos
7.2	Street Lighting - Bike path	2	No.	12,500	25,000	at 20m spacing along bike path, includes underground cabling and foundations
7.3	Conduits		m	875		
8	UTILITIES					
8.1	Allowance for non-disruptive digging	2	Item	18,750	37,500	Allowance for NDD 2 shifts
8.2	New water		m	355	-	
8.3	New sewer		m	805	-	
8.4	New telco		m	75	-	
8.5	New gas		PS	10,000	-	
8.6	Relocate Gas	20	m	563	11,250	
8.7	Relocate Telco	30	m	625	18,750	
8.8	Relocate Water	35	m	375	13,125	
8.9	Protect utilities (Provisional Sum)	1	PS	50,000	50,000	
8.10	Gas Transmission		m	10,000	-	
9	MISCELLANEOUS					
9.1	Line marking	1	Item	5,000	5,000	
9.2	Regulatory Signage	10	no	750	7,500	no. of pole mounted signs assumed
9.3	Works maintenance - up to 1 year	1	Item	5,000	5,000	
9.4	Landscape maintenance - 1yr/2 summers		Item	7,500	-	
9.5	Traffic signals 10 year Maintenance Fee		Item	80,000	-	Not in scope
	SUB-TOTAL WORKS				1,068,000	
12	DELIVERY					
12.1	Council Fees	3.25	%		34,700	
12.2	Other Authority Fees	1	%		10,700	
12.3	Traffic Management	7	%		74,800	
12.4	Environmental Management	0.5	%		5,300	
12.5	Survey/Design	5	%		53,400	
12.6	Supervision/Project Management	9	%		96,100	
12.7	Site Establishment	2.5	%		26,700	
12.8	Contingency	20	%		213,600	
	SUB-TOTAL DELIVERY				515,000	
11	TOTAL ESTIMATED COST				1,583,000	

IN-03 Fogarty Street and Henderson Street

Item	Description	Quantity	Unit	Rate	Amount	Comments
	WORKS					
1	DEMOLITION					
1.1	Earthworks including disposal	559	m3	225	125,685	Assumed 300mm under existing roadway, allows for disposal of Cat C material
1.2	Allowance for demolition of existing kerbs	131	m	81	10,611	Includes disposal
1.3	Allowance for demolition of existing footpaths	768	m2	56	43,008	Includes disposal
1.4	Allowance to mill existing asphalt road		m2	13		
1.5	Allowance to decommission existing street lights	4	no	3,125	12,500	Includes handing over of removed posts
1.6	Allowance to remove existing street furniture etc.	1	item	6,250	6,250	Existing seats, bike hoops etc.
1.7	Allowance for demolition of existing buildings		m2	50	-	N/A
2	ROAD PAVEMENT					
2.1	New pavement	880	m2	240	211,200	Assumed detail 2 of standard asphalt pavement
2.2	Pedestrian Path	768	m2	135	103,680	Allowance to trim subbase and place 110mm of coloured asphalt
2.3	Bike Path	214	m2	135	28,890	Allowance to trim subbase and place 110mm of coloured asphalt
3	KERB WORKS					
3.1	Kerb and Channel	110	LM	813	89,430	300x300 Bluestone with 250 gutterstone
3.2	Kerb to centre median	21	LM	500	10,500	300x300 Bluestone
3.3	Tactiles	6	Item	2,400	14,400	Panda Granite
4	DRAINAGE					
4.1	Drainage - pipes	110	LM	713	78,430	450mm on both sides of road
4.2	Drainage - pits	3	No.	3,750	11,250	Standard CoM Side Entry Pit
4.4	Drainage - Sub-soil drainage	110	LM	150	16,500	N/A
4.3	Drainage - Miscellaneous		Item	-	-	N/A
5	TRAFFIC					
5.1	Traffic Signals - Modification of existing		Item	200,000	-	
5.1	Traffic Safety		Item	-	-	N/A
6	LANDSCAPE					
6.1	Trees -centre median		No.	250	-	45L tree. No tree guard assumed
6.2	Trees -pedestrian path	8	No.	1,875	15,000	45L tree including tree guard and passive irrigation elements
6.2	Landscaping - centre median		m2	75	-	
7	STREET LIGHTING					
7.1	Street Lighting - Intersection	4	No.	12,500	50,000	Assumed 4 nos
7.2	Street Lighting - Bike path	-	No.	12,500	-	at 20m spacing along bike path, includes underground cabling and foundations
7.3	Conduits		m	875		
8	UTILITIES					
8.1	Allowance for non-disruptive digging	2	Item	18,750	37,500	Allowance for NDD 2 shifts
8.2	New water		m	355	-	
8.3	New sewer		m	805	-	
8.4	New telco		m	75	-	
8.5	New gas		PS	10,000	-	
8.6	Relocate Gas	40	m	563	22,500	
8.7	Relocate Telco	30	m	625	18,750	
8.8	Relocate Water		m	375	-	
8.9	Protect utilities (Provisional Sum)	1	PS	50,000	50,000	
8.10	Gas Transmission	40	m	10,000	400,000	
9	MISCELLANEOUS					
9.1	Line marking	1	Item	5,000	5,000	
9.2	Regulatory Signage	10	no	750	7,500	no. of pole mounted signs assumed
9.3	Works maintenance - up to 1 year	1	Item	5,000	5,000	
9.4	Landscape maintenance - 1yr/2 summers		Item	7,500	-	
9.5	Traffic signals 10 year Maintenance Fee		Item	80,000	-	Not in scope
	SUB-TOTAL WORKS				1,374,000	
12	DELIVERY					
12.1	Council Fees	3.25	%		44,700	
12.2	Other Authority Fees	1	%		13,700	
12.3	Traffic Management	7	%		96,200	
12.4	Environmental Management	0.5	%		6,900	
12.5	Survey/Design	5	%		68,700	
12.6	Supervision/Project Management	9	%		123,700	
12.7	Site Establishment	2.5	%		34,400	
12.8	Contingency	20	%		274,800	
	SUB-TOTAL DELIVERY				663,000	
11	TOTAL ESTIMATED COST				2,037,000	

IN-04 Fogarty Street and Arden Street

Item	Description	Quantity	Unit	Rate	Amount	Comments
	WORKS					
1	DEMOLITION					
1.1	Earthworks including disposal	773	m3	225	173,880	Assumed 300mm under existing roadway, allows for disposal of Cat C material
1.2	Allowance for demolition of existing kerbs	363	m	81	29,403	Includes disposal
1.3	Allowance for demolition of existing footpaths	983	m2	56	55,048	Includes disposal
1.4	Allowance to mill existing asphalt road		m2	13		
1.5	Allowance to decommission existing street lights	4	no	3,125	12,500	Includes handing over of removed posts
1.6	Allowance to remove existing street furniture etc.	1	item	6,250	6,250	Existing seats, bike hoops etc.
1.7	Allowance for demolition of existing buildings		m2	50	-	N/A
2	ROAD PAVEMENT					
2.1	New pavement	1,165	m2	240	279,600	Assumed detail 2 of standard asphalt pavement
2.2	Pedestrian Path	983	m2	135	132,705	Allowance to trim subbase and place 110mm of coloured asphalt
2.3	Bike Path	428	m2	135	57,780	Allowance to trim subbase and place 110mm of coloured asphalt
3	KERB WORKS					
3.1	Kerb and Channel	363	LM	813	295,119	300x300 Bluestone with 250 gutterstone
3.2	Kerb to centre median		LM	500	-	300x300 Bluestone
3.3	Tactiles	6	Item	2,400	14,400	Panda Granite
4	DRAINAGE					
4.1	Drainage - pipes	363	LM	713	258,819	450mm on both sides of road
4.2	Drainage - pits	8	No.	3,750	30,000	Standard CoM Side Entry Pit
4.4	Drainage - Sub-soil drainage	363	LM	150	54,450	N/A
4.3	Drainage - Miscellaneous		Item	-	-	N/A
5	TRAFFIC					
5.1	Traffic Signals - Modification of existing	1	Item	200,000	200,000	New signals
5.1	Traffic Safety		Item	-	-	N/A
6	LANDSCAPE					
6.1	Trees -centre median		No.	250	-	45L tree. No tree guard assumed
6.2	Trees -pedestrian path	34	No.	1,875	63,750	45L tree including tree guard and passive irrigation elements
6.2	Landscaping - centre median		m2	75	-	
7	STREET LIGHTING					
7.1	Street Lighting - Intersection	4	No.	12,500	50,000	Assumed 4 nos
7.2	Street Lighting - Bike path	6	No.	12,500	75,000	at 20m spacing along bike path, includes underground cabling and foundations
7.3	Conduits		m	875		
8	UTILITIES					
8.1	Allowance for non-disruptive digging	2	Item	18,750	37,500	Allowance for NDD 2 shifts
8.2	New water		m	355	-	
8.3	New sewer		m	805	-	
8.4	New telco		m	75	-	
8.5	New gas		PS	10,000	-	
8.6	Relocate Gas		m	563	-	
8.7	Relocate Telco	40	m	625	25,000	
8.8	Relocate Water	20	m	375	7,500	
8.9	Protect utilities (Provisional Sum)	1	PS	50,000	50,000	
8.10	Gas Transmission		m	10,000	-	
9	MISCELLANEOUS					
9.1	Line marking	1	Item	5,000	5,000	
9.2	Regulatory Signage	10	no	750	7,500	no. of pole mounted signs assumed
9.3	Works maintenance - up to 1 year	1	Item	5,000	5,000	
9.4	Landscape maintenance - 1yr/2 summers		Item	7,500	-	
9.5	Traffic signals 10 year Maintenance Fee	1	Item	80,000	80,000	
	SUB-TOTAL WORKS				2,006,000	
12	DELIVERY					
12.1	Council Fees	3.25	%		65,200	
12.2	Other Authority Fees	1	%		20,100	
12.3	Traffic Management	7	%		140,400	
12.4	Environmental Management	0.5	%		10,000	
12.5	Survey/Design	5	%		100,300	
12.6	Supervision/Project Management	9	%		180,500	
12.7	Site Establishment	2.5	%		50,200	
12.8	Contingency	20	%		401,200	
	SUB-TOTAL DELIVERY				968,000	
11	TOTAL ESTIMATED COST				2,974,000	

ARDEN PUBLIC SPACES
High Level Cost Estimates

IN-05 Arden Street and Laurens Street

Item	Description	Quantity	Unit	Rate	Amount	Comments
	WORKS					
1	DEMOLITION					
1.1	Earthworks including disposal	754	m3	225	169,895	Assumed 300mm under existing roadway, allows for disposal of Cat C material
1.2	Allowance for demolition of existing kerbs	233	m	81	18,873	Includes disposal
1.3	Allowance for demolition of existing footpaths	946	m2	56	52,976	Includes disposal
1.4	Allowance to mill existing asphalt road		m2	13		
1.5	Allowance to decommission existing street lights	4	no	3,125	12,500	Includes handing over of removed posts
1.6	Allowance to remove existing street furniture etc.	1	item	6,250	6,250	Existing seats, bike hoops etc.
1.7	Allowance for demolition of existing buildings		m2	50	-	N/A
2	ROAD PAVEMENT					
2.1	New pavement	1,048	m2	240	251,520	Assumed detail 2 of standard asphalt pavement
2.2	Pedestrian Path	946	m2	135	127,710	Allowance to trim subbase and place 110mm of coloured asphalt
2.3	Bike Path	520	m2	135	70,200	Allowance to trim subbase and place 110mm of coloured asphalt
3	KERB WORKS					
3.1	Kerb and Channel	181	LM	813	147,153	300x300 Bluestone with 250 gutterstone
3.2	Kerb to centre median	52	LM	500	26,000	300x300 Bluestone
3.3	Tactiles	6	Item	2,400	14,400	Panda Granite
4	DRAINAGE					
4.1	Drainage - pipes	181	LM	713	129,053	450mm on both sides of road
4.2	Drainage - pits	4	No.	3,750	15,000	Standard CoM Side Entry Pit
4.4	Drainage - Sub-soil drainage	181	LM	150	27,150	N/A
4.3	Drainage - Miscellaneous		Item	-	-	N/A
5	TRAFFIC					
5.1	Traffic Signals	-	Item	200,000	-	assumed no modification to existing signals
5.1	Traffic Safety		Item	-	-	N/A
6	LANDSCAPE					
6.1	Trees -centre median		No.	250	-	45L tree. No tree guard assumed
6.2	Trees -pedestrian path	12	No.	1,875	22,500	45L tree including tree guard and passive irrigation elements
6.2	Landscaping - centre median		m2	75	-	
7	STREET LIGHTING					
7.1	Street Lighting - Intersection	4	No.	12,500	50,000	Assumed 4 nos
7.2	Street Lighting - Bike path	2	No.	12,500	25,000	at 20m spacing along bike path, includes underground cabling and foundations
7.3	Conduits		m	875		
8	UTILITIES					
8.1	Allowance for non-disruptive digging	2	Item	18,750	37,500	Allowance for NDD 2 shifts
8.2	New water		m	355	-	
8.3	New sewer		m	805	-	
8.4	New telco		m	75	-	
8.5	New gas		PS	10,000	-	
8.6	Relocate Gas	30	m	563	16,875	
8.7	Relocate Telco	50	m	625	31,250	
8.8	Relocate Water	20	m	375	7,500	
8.9	Protect utilities (Provisional Sum)	1	PS	50,000	50,000	
8.10	Gas Transmission		m	10,000	-	
9	MISCELLANEOUS					
9.1	Line marking	1	Item	5,000	5,000	
9.2	Regulatory Signage	10	no	750	7,500	no. of pole mounted signs assumed
9.3	Works maintenance - up to 1 year	1	Item	5,000	5,000	
9.4	Landscape maintenance - 1yr/2 summers		Item	7,500	-	
9.5	Traffic signals 10 year Maintenance Fee	1	Item	80,000	80,000	
	SUB-TOTAL WORKS				1,407,000	
12	DELIVERY					
12.1	Council Fees	3.25	%		45,700	
12.2	Other Authority Fees	1	%		14,100	
12.3	Traffic Management	7	%		98,500	
12.4	Environmental Management	0.5	%		7,000	
12.5	Survey/Design	5	%		70,400	
12.6	Supervision/Project Management	9	%		126,600	
12.7	Site Establishment	2.5	%		35,200	
12.8	Contingency	20	%		281,400	
	SUB-TOTAL DELIVERY				679,000	
11	TOTAL ESTIMATED COST				2,086,000	

IN-06 Arden Street and Munster Terrace

Item	Description	Quantity	Unit	Rate	Amount	Comments
	WORKS					
1	DEMOLITION					
1.1	Earthworks including disposal	704	m3	225	158,288	Assumed 300mm under existing roadway, allows for disposal of Cat C material
1.2	Allowance for demolition of existing kerbs	204	m	81	16,524	Includes disposal
1.3	Allowance for demolition of existing footpaths	577	m2	56	32,312	Includes disposal
1.4	Allowance to mill existing asphalt road		m2	13		
1.5	Allowance to decommission existing street lights	4	no	3,125	12,500	Includes handing over of removed posts
1.6	Allowance to remove existing street furniture etc.	1	item	6,250	6,250	Existing seats, bike hoops etc.
1.7	Allowance for demolition of existing buildings		m2	50	-	N/A
2	ROAD PAVEMENT					
2.1	New pavement	1,469	m2	240	352,560	Assumed detail 2 of standard asphalt pavement
2.2	Pedestrian Path	577	m2	135	77,895	Allowance to trim subbase and place 110mm of coloured asphalt
2.3	Bike Path	299	m2	135	40,365	Allowance to trim subbase and place 110mm of coloured asphalt
3	KERB WORKS					
3.1	Kerb and Channel	143	LM	813	116,259	300x300 Bluestone with 250 gutterstone
3.2	Kerb to centre median	61	LM	500	30,500	300x300 Bluestone
3.3	Tactiles	4	Item	2,400	9,600	Panda Granite
4	DRAINAGE					
4.1	Drainage - pipes	143	LM	713	101,959	450mm on both sides of road
4.2	Drainage - pits	3	No.	3,750	11,250	Standard CoM Side Entry Pit
4.4	Drainage - Sub-soil drainage	143	LM	150	21,450	N/A
4.3	Drainage - Miscellaneous		Item	-	-	N/A
5	TRAFFIC					
5.1	Traffic Signals - Modification of existing		Item	200,000	-	Assumed no modification required to existing traffic lights
5.1	Traffic Safety		Item	-	-	N/A
6	LANDSCAPE					
6.1	Trees -green link	2	No.	250	500	45L tree. No tree guard assumed
6.2	Trees -pedestrian path	6	No.	1,875	11,250	45L tree including tree guard and passive irrigation elements
6.2	Landscaping - green link	64	m2	75	4,800	
7	STREET LIGHTING					
7.1	Street Lighting - Intersection	4	No.	12,500	50,000	Assumed 4 nos
7.2	Street Lighting - Bike path		No.	12,500	-	at 20m spacing along bike path, includes underground cabling and foundations
7.3	Conduits		m	875		
8	UTILITIES					
8.1	Allowance for non-disruptive digging	2	Item	18,750	37,500	Allowance for NDD 2 shifts
8.2	New water		m	355	-	
8.3	New sewer		m	805	-	
8.4	New telco		m	75	-	
8.5	New gas		PS	10,000	-	
8.6	Relocate Gas		m	563	-	
8.7	Relocate Telco	52	m	625	32,500	
8.8	Relocate Water		m	375	-	
8.9	Protect utilities (Provisional Sum)	1	PS	50,000	50,000	
8.10	Gas Transmission		m	10,000	-	
9	MISCELLANEOUS					
9.1	Line marking	1	Item	5,000	5,000	
9.2	Regulatory Signage	10	no	750	7,500	no. of pole mounted signs assumed
9.3	Works maintenance - up to 1 year	1	Item	5,000	5,000	
9.4	Landscape maintenance - 1yr/2 summers		Item	7,500	-	
9.5	Traffic signals 10 year Maintenance Fee		Item	80,000	-	Not in scope
	SUB-TOTAL WORKS				1,192,000	
12	DELIVERY					
12.1	Council Fees	3.25	%		38,700	
12.2	Other Authority Fees	1	%		11,900	
12.3	Traffic Management	7	%		83,400	
12.4	Environmental Management	0.5	%		6,000	
12.5	Survey/Design	5	%		59,600	
12.6	Supervision/Project Management	9	%		107,300	
12.7	Site Establishment	2.5	%		29,800	
12.8	Contingency	20	%		238,400	
	SUB-TOTAL DELIVERY				575,000	
11	TOTAL ESTIMATED COST				1,767,000	

IN-07 Fogarty Street and Barwise Stree

Item	Description	Quantity	Unit	Rate	Amount	Comments
	WORKS					
1	DEMOLITION					
1.1	Earthworks including disposal	242	m3	225	54,405	Assumed 300mm under existing roadway, allows for disposal of Cat C material
1.2	Allowance for demolition of existing kerbs	70	m	81	5,670	Includes disposal
1.3	Allowance for demolition of existing footpaths	421	m2	56	23,576	Includes disposal
1.4	Allowance to mill existing asphalt road		m2	13		
1.5	Allowance to decommission existing street lights	4	no	3,125	12,500	Includes handing over of removed posts
1.6	Allowance to remove existing street furniture etc.	1	item	6,250	6,250	Existing seats, bike hoops etc.
1.7	Allowance for demolition of existing buildings	550	m2	50	27,500	tank demolition adjacent to site
2	ROAD PAVEMENT					
2.1	New pavement	274	m2	240	65,760	Assumed detail 2 of standard asphalt pavement
2.2	Pedestrian Path	421	m2	135	56,835	Allowance to trim subbase and place 110mm of coloured asphalt
2.3	Bike Path	111	m2	135	14,985	Allowance to trim subbase and place 110mm of coloured asphalt
3	KERB WORKS					
3.1	Kerb and Channel	70	LM	813	56,910	300x300 Bluestone with 250 gutterstone
3.2	Kerb to centre median		LM	500	-	300x300 Bluestone
3.3	Tactiles	4	Item	2,400	9,600	Panda Granite
4	DRAINAGE					
4.1	Drainage - pipes	70	LM	713	49,910	450mm on both sides of road
4.2	Drainage - pits	2	No.	3,750	7,500	Standard CoM Side Entry Pit
4.4	Drainage - Sub-soil drainage	70	LM	150	10,500	N/A
4.3	Drainage - Miscellaneous		Item	-	-	N/A
5	TRAFFIC					
5.1	Traffic Signals - Modification of existing		Item	200,000	-	
5.1	Traffic Safety		Item	-	-	N/A
6	LANDSCAPE					
6.1	Trees -centre median	-	No.	250	-	45L tree. No tree guard assumed
6.2	Trees -pedestrian path		No.	1,875	-	
6.2	Landscaping - cloudburst	95	m2	75	7,125	
7	STREET LIGHTING					
7.1	Street Lighting - Intersection	4	No.	12,500	50,000	Assumed 4 nos
7.2	Street Lighting - Bike path		No.	12,500	-	at 20m spacing along bike path, includes underground cabling and foundations
7.3	Conduits		m	875		
8	UTILITIES					
8.1	Allowance for non-disruptive digging		Item	18,750	-	Allowance for NDD 2 shifts
8.2	New water	53	m	355	18,815	
8.3	New sewer	53	m	805	42,665	
8.4	New telco	53	m	75	3,975	
8.5	New gas	1	PS	10,000	10,000	
8.6	Relocate Gas		m	563	-	
8.7	Relocate Telco		m	625	-	
8.8	Relocate Water		m	375	-	
8.9	Protect utilities (Provisional Sum)		PS	50,000	-	
8.10	Gas Transmission		m	10,000	-	
9	MISCELLANEOUS					
9.1	Line marking	1	Item	5,000	5,000	
9.2	Regulatory Signage	10	no	750	7,500	no. of pole mounted signs assumed
9.3	Works maintenance - up to 1 year	1	Item	5,000	5,000	
9.4	Landscape maintenance - 1yr/2 summers		Item	7,500	-	
9.5	Traffic signals 10 year Maintenance Fee		Item	80,000	-	Not in scope
	SUB-TOTAL WORKS				552,000	
12	DELIVERY					
12.1	Council Fees	3.25	%		17,900	
12.2	Other Authority Fees	1	%		5,500	
12.3	Traffic Management	7	%		38,600	
12.4	Environmental Management	0.5	%		2,800	
12.5	Survey/Design	5	%		27,600	
12.6	Supervision/Project Management	9	%		49,700	
12.7	Site Establishment	2.5	%		13,800	
12.8	Contingency	20	%		110,400	
	SUB-TOTAL DELIVERY				266,000	
11	TOTAL ESTIMATED COST				818,000	

IN-08 Laurens Street and Queensberry Street

Item	Description	Quantity	Unit	Rate	Amount	Comments
	WORKS					
1	DEMOLITION					
1.1	Earthworks including disposal	520	m3	225	116,978	Assumed 300mm under existing roadway, allows for disposal of Cat C material
1.2	Allowance for demolition of existing kerbs	228	m	81	18,468	Includes disposal
1.3	Allowance for demolition of existing footpaths	740	m2	56	41,440	Includes disposal
1.4	Allowance to mill existing asphalt road		m2	13		
1.5	Allowance to decommission existing street lights	4	no	3,125	12,500	Includes handing over of removed posts
1.6	Allowance to remove existing street furniture etc.	1	item	6,250	6,250	Existing seats, bike hoops etc.
1.7	Allowance for demolition of existing buildings		m2	50	-	N/A
2	ROAD PAVEMENT					
2.1	New pavement	615	m2	240	147,600	Assumed detail 2 of standard asphalt pavement
2.2	Pedestrian Path	740	m2	135	99,900	Allowance to trim subbase and place 110mm of coloured asphalt
2.3	Bike Path	378	m2	135	51,030	Allowance to trim subbase and place 110mm of coloured asphalt
3	KERB WORKS					
3.1	Kerb and Channel	228	LM	813	185,364	300x300 Bluestone with 250 gutterstone
3.2	Kerb to centre median		LM	500	-	300x300 Bluestone
3.3	Tactiles	4	Item	2,400	9,600	Panda Granite
4	DRAINAGE					
4.1	Drainage - pipes	228	LM	713	162,564	450mm on both sides of road
4.2	Drainage - pits	5	No.	3,750	18,750	Standard CoM Side Entry Pit
4.4	Drainage - Sub-soil drainage	228	LM	150	34,200	N/A
4.3	Drainage - Miscellaneous		Item	-	-	N/A
5	TRAFFIC					
5.1	Traffic Signals - Modification of existing		Item	200,000	-	
5.1	Traffic Safety		Item	-	-	N/A
6	LANDSCAPE					
6.1	Trees -centre median	6	No.	250	1,500	45L tree. No tree guard assumed
6.2	Trees -pedestrian path	16	No.	1,875	30,000	45L tree including tree guard and passive irrigation elements
6.2	Landscaping - centre median	257	m2	75	19,275	
7	STREET LIGHTING					
7.1	Street Lighting - Intersection	4	No.	12,500	50,000	Assumed 4 nos
7.2	Street Lighting - Bike path	2	No.	12,500	25,000	at 20m spacing along bike path, includes underground cabling and foundations
7.3	Conduits		m	875		
8	UTILITIES					
8.1	Allowance for non-disruptive digging	2	Item	18,750	37,500	Allowance for NDD 2 shifts
8.2	New water		m	355	-	
8.3	New sewer		m	805	-	
8.4	New telco		m	75	-	
8.5	New gas		PS	10,000	-	
8.6	Relocate Gas	26	m	563	14,625	
8.7	Relocate Telco	50	m	625	31,250	
8.8	Relocate Water		m	375	-	
8.9	Protect utilities (Provisional Sum)	1	PS	50,000	50,000	
8.10	Gas Transmission		m	10,000	-	
9	MISCELLANEOUS					
9.1	Line marking	1	Item	5,000	5,000	
9.2	Regulatory Signage	10	no	750	7,500	no. of pole mounted signs assumed
9.3	Works maintenance - up to 1 year	1	Item	5,000	5,000	
9.4	Landscape maintenance - 1yr/2 summers		Item	7,500	-	
9.5	Traffic signals 10 year Maintenance Fee		Item	80,000	-	Not in scope
	SUB-TOTAL WORKS				1,181,000	
12	DELIVERY					
12.1	Council Fees	3.25	%		38,400	
12.2	Other Authority Fees	1	%		11,800	
12.3	Traffic Management	7	%		82,700	
12.4	Environmental Management	0.5	%		5,900	
12.5	Survey/Design	5	%		59,100	
12.6	Supervision/Project Management	9	%		106,300	
12.7	Site Establishment	2.5	%		29,500	
12.8	Contingency	20	%		236,200	
	SUB-TOTAL DELIVERY				570,000	
11	TOTAL ESTIMATED COST				1,751,000	

IN-09 Munster Terrace and Queensberry Street

Item	Description	Quantity	Unit	Rate	Amount	Comments
	WORKS					
1	DEMOLITION					
1.1	Earthworks including disposal	796	m3	225	179,010	Assumed 300mm under existing roadway, allows for disposal of Cat C material
1.2	Allowance for demolition of existing kerbs	293	m	81	23,733	Includes disposal
1.3	Allowance for demolition of existing footpaths	1,246	m2	56	69,776	Includes disposal
1.4	Allowance to mill existing asphalt road		m2	13		
1.5	Allowance to decommission existing street lights	4	no	3,125	12,500	Includes handing over of removed posts
1.6	Allowance to remove existing street furniture etc.	1	item	6,250	6,250	Existing seats, bike hoops etc.
1.7	Allowance for demolition of existing buildings		m2	50	-	N/A
2	ROAD PAVEMENT					
2.1	New pavement	751	m2	240	180,240	Assumed detail 2 of standard asphalt pavement
2.2	Pedestrian Path	1,246	m2	135	168,210	Allowance to trim subbase and place 110mm of coloured asphalt
2.3	Bike Path	535	m2	135	72,225	Allowance to trim subbase and place 110mm of coloured asphalt
3	KERB WORKS					
3.1	Kerb and Channel	189	LM	813	153,657	300x300 Bluestone with 250 gutterstone
3.2	Kerb to centre median	104	LM	500	52,000	300x300 Bluestone
3.3	Tactiles	12	Item	2,400	28,800	Panda Granite
4	DRAINAGE					
4.1	Drainage - pipes	189	LM	713	134,757	450mm on both sides of road
4.2	Drainage - pits	4	No.	3,750	15,000	Standard CoM Side Entry Pit
4.4	Drainage - Sub-soil drainage	189	LM	150	28,350	N/A
4.3	Drainage - Miscellaneous		Item	-	-	N/A
5	TRAFFIC					
5.1	Traffic Signals - Modification of existing		Item	200,000	-	Assumed no modification required to existing traffic lights
5.1	Traffic Safety		Item	-	-	N/A
6	LANDSCAPE					
6.1	Trees -centre median	2	No.	250	500	45L tree. No tree guard assumed
6.2	Trees -pedestrian path	8	No.	1,875	15,000	45L tree including tree guard and passive irrigation elements
6.2	Landscaping - centre median	120	m2	75	9,000	
7	STREET LIGHTING					
7.1	Street Lighting - Intersection	4	No.	12,500	50,000	Assumed 4 nos
7.2	Street Lighting - Bike path	2	No.	12,500	25,000	at 20m spacing along bike path, includes underground cabling and foundations
7.3	Conduits		m	875		
8	UTILITIES					
8.1	Allowance for non-disruptive digging	2	Item	18,750	37,500	Allowance for NDD 2 shifts
8.2	New water		m	355	-	
8.3	New sewer		m	805	-	
8.4	New telco		m	75	-	
8.5	New gas		PS	10,000	-	
8.6	Relocate Gas		m	563	-	
8.7	Relocate Telco	30	m	625	18,750	
8.8	Relocate Water	80	m	375	30,000	
8.9	Protect utilities (Provisional Sum)	1	PS	50,000	50,000	
8.10	Gas Transmission		m	10,000	-	
9	MISCELLANEOUS					
9.1	Line marking	1	Item	10,000	10,000	
9.2	Regulatory Signage	10	no	FALSE	-	no. of pole mounted signs assumed
9.3	Works maintenance - up to 1 year	1	Item	5,000	5,000	
9.4	Landscape maintenance - 1yr/2 summers		Item	7,500	-	
9.5	Traffic signals 10 year Maintenance Fee		Item	80,000	-	Not in scope
	SUB-TOTAL WORKS				1,375,000	
12	DELIVERY					
12.1	Council Fees	3.25	%		44,700	
12.2	Other Authority Fees	1	%		13,800	
12.3	Traffic Management	7	%		96,300	
12.4	Environmental Management	0.5	%		6,900	
12.5	Survey/Design	5	%		68,800	
12.6	Supervision/Project Management	9	%		123,800	
12.7	Site Establishment	2.5	%		34,400	
12.8	Contingency	20	%		275,000	
	SUB-TOTAL DELIVERY				664,000	
11	TOTAL ESTIMATED COST				2,039,000	

IN-10 Laurens Street and Fogarty Street

Item	Description	Quantity	Unit	Rate	Amount	Comments
	WORKS					
1	DEMOLITION					
1.1	Earthworks including disposal	372	m3	225	83,768	Assumed 300mm under existing roadway, allows for disposal of Cat C material
1.2	Allowance for demolition of existing kerbs	124	m	81	10,044	Includes disposal
1.3	Allowance for demolition of existing footpaths	606	m2	56	33,936	Includes disposal
1.4	Allowance to mill existing asphalt road		m2	13		
1.5	Allowance to decommission existing street lights	4	no	3,125	12,500	Includes handing over of removed posts
1.6	Allowance to remove existing street furniture etc.	1	item	6,250	6,250	Existing seats, bike hoops etc.
1.7	Allowance for demolition of existing buildings		m2	50	-	N/A
2	ROAD PAVEMENT					
2.1	New pavement	382	m2	240	91,680	Assumed detail 2 of standard asphalt pavement
2.2	Pedestrian Path	606	m2	135	81,810	Allowance to trim subbase and place 110mm of coloured asphalt
2.3	Bike Path	253	m2	135	34,155	Allowance to trim subbase and place 110mm of coloured asphalt
3	KERB WORKS					
3.1	Kerb and Channel	84	LM	813	68,292	300x300 Bluestone with 250 gutterstone
3.2	Kerb to centre median	40	LM	500	20,000	300x300 Bluestone
3.3	Tactiles	4	Item	2,400	9,600	Panda Granite
4	DRAINAGE					
4.1	Drainage - pipes	84	LM	713	59,892	450mm on both sides of road
4.2	Drainage - pits	2	No.	3,750	7,500	Standard CoM Side Entry Pit
4.4	Drainage - Sub-soil drainage	84	LM	150	12,600	N/A
4.3	Drainage - Miscellaneous		Item	-	-	N/A
5	TRAFFIC					
5.1	Traffic Signals - Modification of existing		Item	200,000	-	Assumed no modification required to existing traffic lights
5.1	Traffic Safety		Item	-	-	N/A
6	LANDSCAPE					
6.1	Trees -centre median		No.	250	-	45L tree. No tree guard assumed
6.2	Trees -pedestrian path	6	No.	1,875	11,250	45L tree including tree guard and passive irrigation elements
6.2	Landscaping - centre median	69	m2	75	5,175	
7	STREET LIGHTING					
7.1	Street Lighting - Intersection	4	No.	12,500	50,000	Assumed 4 nos
7.2	Street Lighting - Bike path	14	No.	12,500	175,000	at 20m spacing along bike path, includes underground cabling and foundations
7.3	Conduits		m	875		
8	UTILITIES					
8.1	Allowance for non-disruptive digging	2	Item	18,750	37,500	Allowance for NDD 2 shifts
8.2	New water		m	355	-	
8.3	New sewer		m	805	-	
8.4	New telco		m	75	-	
8.5	New gas		PS	10,000	-	
8.6	Relocate Gas		m	563	-	
8.7	Relocate Telco		m	625	-	
8.8	Relocate Water		m	375	-	
8.9	Protect utilities (Provisional Sum)	1	PS	50,000	50,000	
8.10	Gas Transmission		m	10,000	-	
9	MISCELLANEOUS					
9.1	Line marking	1	Item	5,000	5,000	
9.2	Regulatory Signage	10	no	750	7,500	no. of pole mounted signs assumed
9.3	Works maintenance - up to 1 year	1	Item	5,000	5,000	
9.4	Landscape maintenance - 1yr/2 summers		Item	7,500	-	
9.5	Traffic signals 10 year Maintenance Fee		Item	80,000	-	Not in scope
	SUB-TOTAL WORKS				878,000	
12	DELIVERY					
12.1	Council Fees	3.25	%		28,500	
12.2	Other Authority Fees	1	%		8,800	
12.3	Traffic Management	7	%		61,500	
12.4	Environmental Management	0.5	%		4,400	
12.5	Survey/Design	5	%		43,900	
12.6	Supervision/Project Management	9	%		79,000	
12.7	Site Establishment	2.5	%		22,000	
12.8	Contingency	20	%		175,600	
	SUB-TOTAL DELIVERY				424,000	
11	TOTAL ESTIMATED COST				1,302,000	

IN-11 Munster Terrace and Victoria Street

Item	Description	Quantity	Unit	Rate	Amount	Comments
	WORKS					
1	DEMOLITION					
1.1	Earthworks including disposal	384	m3	225	86,468	Assumed 300mm under existing roadway, allows for disposal of Cat C material
1.2	Allowance for demolition of existing kerbs	261	m	81	21,141	Includes disposal
1.3	Allowance for demolition of existing footpaths	564	m2	56	31,584	Includes disposal
1.4	Allowance to mill existing asphalt road		m2	13		
1.5	Allowance to decommission existing street lights	4	no	3,125	12,500	Includes handing over of removed posts
1.6	Allowance to remove existing street furniture etc.	1	item	6,250	6,250	Existing seats, bike hoops etc.
1.7	Allowance for demolition of existing buildings		m2	50	-	N/A
2	ROAD PAVEMENT					
2.1	New pavement	476	m2	240	114,240	Assumed detail 2 of standard asphalt pavement
2.2	Pedestrian Path	564	m2	135	76,140	Allowance to trim subbase and place 110mm of coloured asphalt
2.3	Bike Path	241	m2	135	32,535	Allowance to trim subbase and place 110mm of coloured asphalt
3	KERB WORKS					
3.1	Kerb and Channel	164	LM	813	133,332	300x300 Bluestone with 250 gutterstone
3.2	Kerb to centre median	97	LM	500	48,500	300x300 Bluestone
3.3	Tactiles	6	Item	2,400	14,400	Panda Granite
4	DRAINAGE					
4.1	Drainage - pipes	164	LM	713	116,932	450mm on both sides of road
4.2	Drainage - pits	4	No.	3,750	15,000	Standard CoM Side Entry Pit
4.4	Drainage - Sub-soil drainage	164	LM	150	24,600	N/A
4.3	Drainage - Miscellaneous		Item	-	-	N/A
5	TRAFFIC					
5.1	Traffic Signals - Modification of existing		Item	200,000	-	
5.1	Traffic Safety		Item	-	-	N/A
6	LANDSCAPE					
6.1	Trees -centre median	4	No.	250	1,000	45L tree. No tree guard assumed
6.2	Trees -pedestrian path	6	No.	1,875	11,250	45L tree including tree guard and passive irrigation elements
6.2	Landscaping - centre median	397	m2	75	29,775	
7	STREET LIGHTING					
7.1	Street Lighting - Intersection	4	No.	12,500	50,000	Assumed 4 nos
7.2	Street Lighting - Bike path		No.	12,500	-	at 20m spacing along bike path, includes underground cabling and foundations
7.3	Conduits		m	875		
8	UTILITIES					
8.1	Allowance for non-disruptive digging	2	Item	18,750	37,500	Allowance for NDD 2 shifts
8.2	New water		m	355	-	
8.3	New sewer		m	805	-	
8.4	New telco		m	75	-	
8.5	New gas		PS	10,000	-	
8.6	Relocate Gas		m	563	-	
8.7	Relocate Telco		m	625	-	
8.8	Relocate Water		m	375	-	
8.9	Protect utilities (Provisional Sum)	1	PS	50,000	50,000	
8.10	Gas Transmission		m	10,000	-	
9	MISCELLANEOUS					
9.1	Line marking	1	Item	5,000	5,000	
9.2	Regulatory Signage	10	no	750	7,500	no. of pole mounted signs assumed
9.3	Works maintenance - up to 1 year	1	Item	5,000	5,000	
9.4	Landscape maintenance - 1yr/2 summers		Item	7,500	-	
9.5	Traffic signals 10 year Maintenance Fee		Item	80,000	-	Not in scope
	SUB-TOTAL WORKS				931,000	
12	DELIVERY					
12.1	Council Fees	3.25	%		30,300	
12.2	Other Authority Fees	1	%		9,300	
12.3	Traffic Management	7	%		65,200	
12.4	Environmental Management	0.5	%		4,700	
12.5	Survey/Design	5	%		46,600	
12.6	Supervision/Project Management	9	%		83,800	
12.7	Site Establishment	2.5	%		23,300	
12.8	Contingency	20	%		186,200	
	SUB-TOTAL DELIVERY				449,000	
11	TOTAL ESTIMATED COST				1,380,000	

IN-12 Laurens Street and Miller Street

Item	Description	Quantity	Unit	Rate	Amount	Comments
	WORKS					
1	DEMOLITION					
1.1	Earthworks including disposal	391	m3	225	87,885	Assumed 300mm under existing roadway, allows for disposal of Cat C material
1.2	Allowance for demolition of existing kerbs	137	m	81	11,097	Includes disposal
1.3	Allowance for demolition of existing footpaths	590	m2	56	33,040	Includes disposal
1.4	Allowance to mill existing asphalt road		m2	13		
1.5	Allowance to decommission existing street lights	4	no	3,125	12,500	Includes handing over of removed posts
1.6	Allowance to remove existing street furniture etc.	1	item	6,250	6,250	Existing seats, bike hoops etc.
1.7	Allowance for demolition of existing buildings		m2	50	-	N/A
2	ROAD PAVEMENT					
2.1	New pavement	496	m2	240	119,040	Assumed detail 2 of standard asphalt pavement
2.2	Pedestrian Path	590	m2	135	79,650	Allowance to trim subbase and place 110mm of coloured asphalt
2.3	Bike Path	216	m2	135	29,160	Allowance to trim subbase and place 110mm of coloured asphalt
3	KERB WORKS					
3.1	Kerb and Channel	137	LM	813	111,381	300x300 Bluestone with 250 gutterstone
3.2	Kerb to centre median		LM	500	-	300x300 Bluestone
3.3	Tactiles	4	Item	2,400	9,600	Panda Granite
4	DRAINAGE					
4.1	Drainage - pipes	137	LM	713	97,681	450mm on both sides of road
4.2	Drainage - pits	3	No.	3,750	11,250	Standard CoM Side Entry Pit
4.4	Drainage - Sub-soil drainage	137	LM	150	20,550	N/A
4.3	Drainage - Miscellaneous		Item	-	-	N/A
5	TRAFFIC					
5.1	Traffic Signals - Modification of existing		Item	200,000	-	Assumed no modification required to existing traffic lights
5.1	Traffic Safety		Item	-	-	N/A
6	LANDSCAPE					
6.1	Trees -centre median	-	No.	250	-	
6.2	Trees -pedestrian path	11	No.	1,875	20,625	45L tree including tree guard and passive irrigation elements
6.2	Landscaping - centre median	-	m2	75	-	
7	STREET LIGHTING					
7.1	Street Lighting - Intersection	4	No.	12,500	50,000	Assumed 4 nos
7.2	Street Lighting - Bike path		No.	12,500	-	at 20m spacing along bike path, includes underground cabling and foundations
7.3	Conduits		m	875		
8	UTILITIES					
8.1	Allowance for non-disruptive digging	2	Item	18,750	37,500	Allowance for NDD 2 shifts
8.2	New water		m	355	-	
8.3	New sewer		m	805	-	
8.4	New telco		m	75	-	
8.5	New gas		PS	10,000	-	
8.6	Relocate Gas		m	563	-	
8.7	Relocate Telco	35	m	625	21,875	
8.8	Relocate Water		m	375	-	
8.9	Protect utilities (Provisional Sum)	1	PS	50,000	50,000	
8.10	Gas Transmission		m	10,000	-	
9	MISCELLANEOUS					
9.1	Line marking	1	Item	5,000	5,000	
9.2	Regulatory Signage	10	no	750	7,500	no. of pole mounted signs assumed
9.3	Works maintenance - up to 1 year	1	Item	5,000	5,000	
9.4	Landscape maintenance - 1yr/2 summers		Item	7,500	-	
9.5	Traffic signals 10 year Maintenance Fee		Item	80,000	-	Not in scope
	SUB-TOTAL WORKS				827,000	
12	DELIVERY					
12.1	Council Fees	3.25	%		26,900	
12.2	Other Authority Fees	1	%		8,300	
12.3	Traffic Management	7	%		57,900	
12.4	Environmental Management	0.5	%		4,100	
12.5	Survey/Design	5	%		41,400	
12.6	Supervision/Project Management	9	%		74,400	
12.7	Site Establishment	2.5	%		20,700	
12.8	Contingency	20	%		165,400	
	SUB-TOTAL DELIVERY				399,000	
11	TOTAL ESTIMATED COST				1,226,000	

IN-13 Arden Street and Langford Street

Item	Description	Quantity	Unit	Rate	Amount	Comments
	WORKS					
1	DEMOLITION					
1.1	Earthworks including disposal	1,616	m3	225	363,555	Assumed 300mm under existing roadway, allows for disposal of Cat C material
1.2	Allowance for demolition of existing kerbs	98	m	81	7,938	Includes disposal
1.3	Allowance for demolition of existing footpaths	470	m2	56	26,320	Includes disposal
1.4	Allowance to mill existing asphalt road		m2	13		
1.5	Allowance to decommission existing street lights	2	no	3,125	6,250	Includes handing over of removed posts
1.6	Allowance to remove existing street furniture etc.	1	item	6,250	6,250	Existing seats, bike hoops etc.
1.7	Allowance for demolition of existing buildings		m2	50	-	N/A
2	ROAD PAVEMENT					
2.1	New pavement	2,128	m2	240	510,720	Assumed detail 2 of standard asphalt pavement
2.2	Pedestrian Path	2,081	m2	135	280,935	Allowance to trim subbase and place 110mm of coloured asphalt
2.3	Bike Path	857	m2	135	115,695	Allowance to trim subbase and place 110mm of coloured asphalt
3	KERB WORKS					
3.1	Kerb and Channel	320	LM	813	260,160	
3.2	Kerb to centre median		LM	500	-	
3.3	Tactiles	8	Item	2,400	19,200	Panda Granite
4	DRAINAGE					
4.1	Drainage - pipes	320	LM	713	228,160	450mm on both sides of road
4.2	Drainage - pits	6	No.	3,750	22,500	Standard CoM Side Entry Pit
4.4	Drainage - Sub-soil drainage	320	LM	150	48,000	
4.3	Drainage - Miscellaneous	320	m2	300	96,000	Cloudburst
5	TRAFFIC					
5.1	Traffic Signals -	1	Item	400,000	400,000	
5.1	Traffic Safety		Item	-	-	N/A
6	LANDSCAPE					
6.1	Trees -centre median		No.	250	-	45L tree. No tree guard assumed
6.2	Trees -pedestrian path	16	No.	1,875	30,000	45L tree including tree guard and passive irrigation elements
6.2	Landscaping -		m2	75	-	
7	STREET LIGHTING					
7.1	Street Lighting - Intersection	6	No.	12,500	75,000	Assumed 4 nos
7.2	Street Lighting - Bike path	2	No.	12,500	25,000	at 20m spacing along bike path, includes underground cabling and foundations
7.3	Conduits		m	875	-	
8	UTILITIES					
8.1	Allowance for non-disruptive digging	4	Item	18,750	75,000	Allowance for NDD 2 shifts
8.2	New water	40	m	355	14,200	
8.3	New sewer	40	m	805	32,200	
8.4	New telco	40	m	75	3,000	
8.5	New gas	40	PS	10,000	400,000	
8.6	Relocate Gas	65	m	563	36,563	
8.7	Relocate Telco		m	625	-	
8.8	Relocate Water	65	m	375	24,375	
8.9	Protect utilities (Provisional Sum)	1	PS	50,000	50,000	
8.10	Gas Transmission		m	10,000	-	
9	MISCELLANEOUS					
9.1	Line marking		Item	5,000	-	
9.2	Regulatory Signage	10	no	750	7,500	no. of pole mounted signs assumed
9.3	Works maintenance – up to 1 year	1	Item	5,000	5,000	
9.4	Landscape maintenance – 1yr/2 summers		Item	7,500	-	
9.5	Traffic signals 10 year Maintenance Fee	1	Item	80,000	80,000	
	SUB-TOTAL WORKS				3,250,000	
12	DELIVERY					
12.1	Council Fees	3.25	%		105,600	
12.2	Other Authority Fees	1	%		32,500	
12.3	Traffic Management	7	%		227,500	
12.4	Environmental Management	0.5	%		16,300	
12.5	Survey/Design	5	%		162,500	
12.6	Supervision/Project Management	9	%		292,500	
12.7	Site Establishment	2.5	%		81,300	
12.8	Contingency	20	%		650,000	
	SUB-TOTAL DELIVERY				1,568,000	
11	TOTAL ESTIMATED COST				4,818,000	

Item	Description	Quantity	Unit	Rate	Amount	Comments
	WORKS					
1	DEMOLITION					
1.1	Earthworks including disposal	499	m3	225	112,320	Allowed for excavation and disposal. Assumed 300mm Cat C
1.2	Allowance for demolition of existing kerbs	-	m	81	-	
1.3	Allowance for demolition of existing footpaths	-	m2	56	-	
1.4	Allowance to mill existing asphalt road	-	m2	13	-	
1.5	Allowance to decommission existing street lights	-	no	3,125	-	
1.6	Allowance to remove existing street furniture etc.	-	item	6,250	-	
1.7	Allowance for demolition of existing buildings	-	m2	50	-	
2	ROAD PAVEMENT					
2.1	New pavement -	-	m2	240	-	
2.2	Pedestrian Path -	-	m2	135	-	
2.3	Bike Path - 4m	1,664	m2	135	224,640	CoM Type 2 pavement profile
3	KERB WORKS					
3.1	Kerb and Channel	-	LM	813	-	300x300 Bluestone with 250 gutterstone
3.2	Kerb to running path	-	LM	500	-	300x300 Bluestone
3.3	Rumble Strips	2	Item	2,400	4,800	
4	DRAINAGE					
4.1	Drainage - pipes	-	LM	713	-	N/A
4.2	Drainage - pits	-	No.	3,750	-	N/A
4.3	Drainage - Sub-soil drainage	-	LM	150	-	N/A
4.4	Drainage - Miscellaneous (Description)	-	Item	-	-	N/A
5	TRAFFIC					
5.1	Traffic Signals	-	Item	200,000	-	Excluded
5.1	Traffic Safety	-	Item	-	-	
6	LANDSCAPE					
6.1	Trees -centre median	-	No.	250	-	
6.2	Trees -pedestrian path	-	No.	1,875	-	
6.3	Landscaping - centre median	-	m2	75	-	
7	STREET LIGHTING					
7.1	Street Lighting	-	No.	12,500	-	
7.2	Bike Path Lighting	-	No.	12,500	-	
7.3	Conduits	-	m	875	-	
8	UTILITIES					
8.1	Allowance for non-disruptive digging	-	Item	18,750	-	Allowance for NDD 2 shifts
8.2	New water	-	m	355	-	
8.3	New sewer	-	m	805	-	
8.4	New telco	-	m	75	-	
8.5	New gas	-	PS	10,000	-	
8.6	Relocate Gas	-	m	563	-	
8.7	Relocate Telco	-	m	625	-	
8.8	Relocate Water	-	m	375	-	
8.9	Protect utilities (Provisional Sum)	-	PS	50,000	-	
8.10	Gas Transmission	-	m	10,000	-	
9	MISCELLANEOUS					
9.1	Line marking	1	Item	5,000	5,000	
9.2	Regulatory Signage	10	no	750	7,500	no. of pole mounted signs assumed
9.3	Works maintenance - up to 1 year	1	Item	5,000	5,000	
9.4	Landscape maintenance - 1yr/2 summers	-	Item	7,500	-	Excluded
9.5	Traffic signals 10 year Maintenance Fee	-	Item	80,000	-	Not in scope
	SUB-TOTAL WORKS				359,000	
12	DELIVERY					
12.1	Council Fees	3.25	%	-	11,700	
12.2	Other Authority Fees	1	%	-	3,600	
12.3	Traffic Management	7	%	-	25,100	
12.4	Environmental Management	0.5	%	-	1,800	
12.5	Survey/Design	5	%	-	18,000	
12.6	Supervision/Project Management	9	%	-	32,300	
12.7	Site Establishment	2.5	%	-	9,000	
12.8	Contingency	20	%	-	71,800	
	SUB-TOTAL DELIVERY				173,000	
11	TOTAL ESTIMATED COST				532,000	

Item	Description	Quantity	Unit	Rate	Amount	Comments
	WORKS					
1	DEMOLITION					
1.1	Earthworks including disposal	235	m3	225	52,920	Allowed for excavation and disposal. Assumed 300mm Cat C
1.2	Allowance for demolition of existing kerbs		m	81	-	Includes disposal
1.3	Allowance for demolition of existing footpaths		m2	56	-	Includes disposal
1.4	Allowance to mill existing asphalt road		m2	13	-	
1.5	Allowance to decommission existing street lights		no	3,125	-	
1.6	Allowance to remove existing street furniture etc.		item	6,250	-	
1.7	Allowance for demolition of existing buildings		m2	50	-	
2	ROAD PAVEMENT					
2.1	New pavement		m2	240	-	
2.2	Pedestrian Path -	-	m2	135	-	
2.3	Bike Path - 4m	784	m2	135	105,840	CoM Type 2 pavement profile
3	KERB WORKS					
3.1	Kerb and Channel	-	LM	813	-	300x300 Bluestone with 250 gutterstone
3.2	Kerb to running path	-	LM	500	-	300x300 Bluestone
3.3	Rumble Strips	2	Item	2,400	4,800	Panda Granite
4	DRAINAGE					
4.1	Drainage - pipes	-	LM	713	-	N/A
4.2	Drainage - pits	-	No.	3,750	-	N/A
4.3	Drainage - Sub-soil drainage	-	LM	150	-	N/A
4.4	Drainage - Miscellaneous (Description)		Item	-	-	N/A
5	TRAFFIC					
5.1	Traffic Signals		Item	200,000	-	Excluded
5.1	Traffic Safety		Item	-	-	
6	LANDSCAPE					
6.1	Trees -centre median	-	No.	250	-	45L tree. No tree guard assumed
6.2	Trees -pedestrian path	-	No.	1,875	-	45L tree including tree guard
6.3	Landscaping -	276	m2	12	3,312	Hydroseed adjacent to path
7	STREET LIGHTING					
7.1	Street Lighting	-	No.	12,500	-	
7.2	Bike Path Lighting	-	No.	12,500	-	
7.3	Conduits	-	m	875	-	
8	UTILITIES					
8.1	Allowance for non-disruptive digging		Item	18,750	-	
8.2	New water		m	355	-	
8.3	New sewer		m	805	-	
8.4	New telco		m	75	-	
8.5	New gas		PS	10,000	-	
8.6	Relocate Gas		m	563	-	
8.7	Relocate Telco		m	625	-	
8.8	Relocate Water		m	375	-	
8.9	Protect utilities (Provisional Sum)		PS	50,000	-	
8.10	Gas Transmission		m	10,000	-	
9	MISCELLANEOUS					
9.1	Line marking	1	Item	5,000	5,000	
9.2	Regulatory Signage	4	no	750	3,000	no. of pole mounted signs assumed
9.3	Works maintenance - up to 1 year	1	Item	5,000	5,000	
9.4	Landscape maintenance - 1yr/2 summers		Item	7,500	-	Excluded
9.5	Traffic signals 10 year Maintenance Fee		Item	80,000	-	Not in scope
	SUB-TOTAL WORKS				180,000	
12	DELIVERY					
12.1	Council Fees	3.25	%		5,900	
12.2	Other Authority Fees	1	%		1,800	
12.3	Traffic Management	7	%		12,600	
12.4	Environmental Management	0.5	%		900	
12.5	Survey/Design	5	%		9,000	
12.6	Supervision/Project Management	9	%		16,200	
12.7	Site Establishment	2.5	%		4,500	
12.8	Contingency	20	%		36,000	
	SUB-TOTAL DELIVERY				87,000	
11	TOTAL ESTIMATED COST				267,000	

Item	Description	Quantity	Unit	Rate	Amount	Comments
	WORKS					
1	DEMOLITION					
1.1	Earthworks including disposal	235	m3	225	52,920	Allowed for excavation and disposal. Assumed 300mm Cat C
1.2	Allowance for demolition of existing kerbs		m	81	-	Includes disposal
1.3	Allowance for demolition of existing footpaths		m2	56	-	Includes disposal
1.4	Allowance to mill existing asphalt road		m2	13		
1.5	Allowance to decommission existing street lights		no	3,125	-	Includes handing over the removed posts
1.6	Allowance to remove existing street furniture etc.		item	6,250	-	Assumed existing trees remain
1.7	Allowance for demolition of existing buildings		m2	50	-	
2	ROAD PAVEMENT					
2.1	New pavement		m2	240	-	
2.2	Pedestrian Path -	-	m2	135	-	
2.3	Bike Path - 2m	784	m2	25	19,600	Surface treatment only
3	KERB WORKS					
3.1	Kerb and Channel	-	LM	813	-	300x300 Bluestone with 250 gutterstone
3.2	Kerb to running path	-	LM	500	-	300x300 Bluestone
3.3	Rumble Strips	-	Item	2,400	-	
4	DRAINAGE					
4.1	Drainage - pipes	-	LM	713	-	N/A
4.2	Drainage - pits	-	No.	3,750	-	N/A
4.3	Drainage - Sub-soil drainage	-	LM	150	-	N/A
4.4	Drainage - Miscellaneous (Description)		Item	-	-	N/A
5	TRAFFIC					
5.1	Traffic Signals		Item	200,000	-	Excluded
5.1	Traffic Safety	8	Item	3,200	25,600	
6	LANDSCAPE					
6.1	Trees -centre median	-	No.	250	-	45L tree. No tree guard assumed
6.2	Trees -pedestrian path	-	No.	1,875	-	45L tree including tree guard
6.3	Landscaping -		m2	75	-	
7	STREET LIGHTING					
7.1	Street Lighting	-	No.	12,500	-	
7.2	Bike Path Lighting	-	No.	12,500	-	
7.3	Conduits	-	m	875	-	
8	UTILITIES					
8.1	Allowance for non-disruptive digging		Item	18,750	-	
8.2	New water		m	355	-	
8.3	New sewer		m	805	-	
8.4	New telco		m	75	-	
8.5	New gas		PS	10,000	-	
8.6	Relocate Gas		m	563	-	
8.7	Relocate Telco		m	625	-	
8.8	Relocate Water		m	375	-	
8.9	Protect utilities (Provisional Sum)		PS	50,000	-	
8.10	Gas Transmission		m	10,000	-	
9	MISCELLANEOUS					
9.1	Line marking	4	Item	5,000	20,000	
9.2	Regulatory Signage	18	no	750	13,500	no. of pole mounted signs assumed
9.3	Works maintenance - up to 1 year	1	Item	5,000	5,000	
9.4	Landscape maintenance - 1yr/2 summers		Item	7,500	-	Excluded
9.5	Traffic signals 10 year Maintenance Fee		Item	80,000	-	Not in scope
	SUB-TOTAL WORKS				137,000	
12	DELIVERY					
12.1	Council Fees	3.25	%		4,500	
12.2	Other Authority Fees	1	%		1,400	
12.3	Traffic Management	7	%		9,600	
12.4	Environmental Management	0.5	%		700	
12.5	Survey/Design	5	%		6,900	
12.6	Supervision/Project Management	9	%		12,300	
12.7	Site Establishment	2.5	%		3,400	
12.8	Contingency	20	%		27,400	
	SUB-TOTAL DELIVERY				66,000	
11	TOTAL ESTIMATED COST				203,000	

Item	Description	Quantity	Unit	Rate	Amount	Comments
	WORKS					
1	DEMOLITION					
1.1	Earthworks including disposal	156	m3	225	35,100	Allowed for excavation and disposal. Assumed 300mm Cat C
1.2	Allowance for demolition of existing kerbs		m	81	-	Includes disposal
1.3	Allowance for demolition of existing footpaths		m2	56	-	Includes disposal
1.4	Allowance to mill existing asphalt road		m2	13		
1.5	Allowance to decommission existing street lights		no	3,125	-	Includes handing over the removed posts
1.6	Allowance to remove existing street furniture etc.		item	6,250	-	Assumed existing trees remain
1.7	Allowance for demolition of existing buildings		m2	50	-	
2	ROAD PAVEMENT					
2.1	New pavement		m2	240	-	
2.2	Pedestrian Path -		m2	135	-	
2.3	Bike Path - 2m	520	m2	25	13,000	Surface treatment only
3	KERB WORKS					
3.1	Kerb and Channel	-	LM	813	-	300x300 Bluestone with 250 gutterstone
3.2	Kerb to running path	-	LM	500	-	300x300 Bluestone
3.3	Rumble Strips	-	Item	2,400	-	Panda Granite
4	DRAINAGE					
4.1	Drainage - pipes	-	LM	713	-	N/A
4.2	Drainage - pits	-	No.	3,750	-	N/A
4.3	Drainage - Sub-soil drainage	-	LM	150	-	N/A
4.4	Drainage - Miscellaneous (Description)		Item	-	-	N/A
5	TRAFFIC					
5.1	Traffic Signals		Item	200,000	-	Excluded
5.1	Traffic Management	2	Item	3,200	6,400	
6	LANDSCAPE					
6.1	Trees -centre median	-	No.	250	-	45L tree. No tree guard assumed
6.2	Trees -pedestrian path	-	No.	1,875	-	45L tree including tree guard
6.3	Landscaping -		m2	75	-	
7	STREET LIGHTING					
7.1	Street Lighting	-	No.	12,500	-	
7.2	Bike Path Lighting	-	No.	12,500	-	
7.3	Conduits	-	m	875	-	
8	UTILITIES					
8.1	Allowance for non-disruptive digging		Item	18,750	-	
8.2	New water		m	355	-	
8.3	New sewer		m	805	-	
8.4	New telco		m	75	-	
8.5	New gas		PS	10,000	-	
8.6	Relocate Gas		m	563	-	
8.7	Relocate Telco		m	625	-	
8.8	Relocate Water		m	375	-	
8.9	Protect utilities (Provisional Sum)		PS	50,000	-	
8.10	Gas Transmission		m	10,000	-	
9	MISCELLANEOUS					
9.1	Line marking	2	Item	5,000	10,000	
9.2	Regulatory Signage	6	no	750	4,500	no. of pole mounted signs assumed
9.3	Works maintenance - up to 1 year	1	Item	5,000	5,000	
9.4	Landscape maintenance - 1yr/2 summers		Item	7,500	-	Excluded
9.5	Traffic signals 10 year Maintenance Fee		Item	80,000	-	Not in scope
	SUB-TOTAL WORKS				74,000	
12	DELIVERY					
12.1	Council Fees	3.25	%		2,400	
12.2	Other Authority Fees	1	%		700	
12.3	Traffic Management	7	%		5,200	
12.4	Environmental Management	0.5	%		400	
12.5	Survey/Design	5	%		3,700	
12.6	Supervision/Project Management	9	%		6,700	
12.7	Site Establishment	2.5	%		1,900	
12.8	Contingency	20	%		14,800	
	SUB-TOTAL DELIVERY				36,000	
11	TOTAL ESTIMATED COST				110,000	

Item	Description	Quantity	Unit	Rate	Amount	Comments
	WORKS					
1	DEMOLITION					
1.1	Earthworks including disposal	36	m3	225	8,100	Allowed for excavation and disposal. Assumed 300mm under existing footpath
1.2	Allowance for demolition of existing kerbs	40	m	81	3,240	Includes disposal
1.3	Allowance for demolition of existing footpaths	140	m2	56	7,840	Includes disposal
1.4	Allowance to mill existing asphalt road		m2	13		
1.5	Allowance to decommission existing street lights	-	no	3,125	-	Includes handing over the removed posts
1.6	Allowance to remove existing street furniture etc.	-	item	6,250	-	Assumed existing trees remain
1.7	Allowance for demolition of existing buildings		m2	50	-	
2	ROAD PAVEMENT					
2.1	New pavement - 2x3.5m	120	m2	240	28,800	Assumed detail 2 of standard asphalt pavement
2.2	Pedestrian Path -		m2	135	-	
2.3	Bike Path -		m2	135	-	
3	KERB WORKS					
3.1	Kerb and Channel	40	LM	813	32,520	300x300 Bluestone with 250 gutterstone
3.2	Kerb to running path	40	LM	500	20,000	300x300 Bluestone
3.3	Tactiles	2	Item	2,400	4,800	Panda Granite
4	DRAINAGE					
4.1	Drainage - pipes	40	LM	713	28,520	450mm on both sides of road
4.2	Drainage - pits	1	No.	3,750	3,750	At 50m intervals
4.3	Drainage - Sub-soil drainage	40	LM	150	6,000	N/A
4.4	Drainage - Miscellaneous (Description)		Item	-	-	N/A
5	TRAFFIC					
5.1	Traffic Signals	1	Item	100,000	100,000	Excluded
5.1	Traffic Safety		Item	-	-	Excluded
6	LANDSCAPE					
6.1	Trees -centre median	-	No.	250	-	45L tree. No tree guard assumed
6.2	Trees -pedestrian path	-	No.	1,875	-	45L tree including tree guard
6.3	Landscaping - centre median		m2	75	-	
7	STREET LIGHTING					
7.1	Street Lighting	-	No.	12,500	-	Incl in roadway
7.2	Bike Path Lighting	-	No.	12,500	-	
7.3	Conduits	-	m	875	-	
8	UTILITIES					
8.1	Allowance for non-disruptive digging		Item	18,750	-	Allowance for NDD 2 shifts
8.2	New water		m	355	-	
8.3	New sewer		m	805	-	
8.4	New telco		m	75	-	
8.5	New gas		PS	10,000	-	
8.6	Relocate Gas		m	563	-	
8.7	Relocate Telco		m	625	-	No allowance for undergrounding of overhead electrical
8.8	Relocate Water		m	375	-	
8.9	Protect utilities (Provisional Sum)		PS	50,000	-	
8.10	Gas Transmission		m	10,000	-	
9	MISCELLANEOUS					
9.1	Line marking	1	Item	5,000	5,000	
9.2	Regulatory Signage	6	no	750	4,500	no. of pole mounted signs assumed
9.3	Works maintenance - up to 1 year	1	Item	5,000	5,000	
9.4	Landscape maintenance - 1yr/2 summers		Item	7,500	-	Excluded
9.5	Traffic signals 10 year Maintenance Fee		Item	80,000	-	Not in scope
	SUB-TOTAL WORKS				258,000	
12	DELIVERY					
12.1	Council Fees	3.25	%		8,400	
12.2	Other Authority Fees	1	%		2,600	
12.3	Traffic Management	7	%		18,100	
12.4	Environmental Management	0.5	%		1,300	
12.5	Survey/Design	5	%		12,900	
12.6	Supervision/Project Management	9	%		23,200	
12.7	Site Establishment	2.5	%		6,500	
12.8	Contingency	20	%		51,600	
	SUB-TOTAL DELIVERY				125,000	
11	TOTAL ESTIMATED COST				383,000	

ARDEN PUBLIC SPACES
High Level Cost Estimates

BR-01

50 m

Item	Description	Quantity	Unit	Rate	Amount	Comments
	WORKS					
1	SITEWORKS AND EARTHWORKS					
1.1	Site Preparation	2	Item	3,000	6,000	Localised clearing at abutments
1.2	Fill	240	m3	81	19,440	Regrading on eastern side of MPC
2	STRUCTURE					
2.1	Steel structure	85	T	9,750	828,750	Steel truss arrangement
2.2	Deck	225	m2	680	153,000	
2.3	Piles	160	m	1,300	208,000	Assumed 20m depth 4 per abutment
2.4	Pilecaps	2	Item	12,500	25,000	
2.5	Guardrails	110	m	250	27,500	
2.6	Approach slabs	2	Item	15,000	30,000	200mm thick reinforced concrete 4m long
2.7	Bearings	2	No	5,000	10,000	
4	DRAINAGE					
4.4	Drainage – Miscellaneous (<i>Description</i>)	2	Item	7,500	15,000	Drainage to abutments
5	LANDSCAPE					
5.1	Scour protection	2	No.	5,000	10,000	150mm rock
5.2	Trees	10	No.	600	6,000	45L tree including tree guard
5.3	Asphalt path	250	m2	75	18,750	Connection to bridge abutments
6	LIGHTING					
6.1	Pole and Luminaire	3	No.	9,375	28,125	
6.2	Allowance for underground electrical cable	150	m	875	131,250	Allowance for supply from adjacent parkland
7	UTILITIES					
7.1	Allowance for non-disruptive digging	1	Item	18,750	18,750	Allowance for NDD 2 shifts
7.2	Protect utilities (Provisional Sum)	1	m	50,000	50,000	
8	MISCELLANEOUS					
8.1	Line marking	1	Item	2,000	2,000	
8.2	Regulatory Signage	4	no	750	3,000	no. of pole mounted signs assumed
8.3	Architectural screens	100	m	2,000	200,000	
8.4	Crane	7	days	25,000	175,000	
8.5	Constructability	25%	allowance		491,000	
	SUB-TOTAL WORKS				2,457,000	
12	DELIVERY					
12.1	Council Fees	3.25	%		79,900	
12.2	VicRoads Fees	1	%		24,600	
12.3	Traffic Management	7	%		172,000	
12.4	Environmental Management	0.5	%		12,300	
12.5	Survey/Design	12	%		294,800	
12.6	Supervision/Project Management	9	%		221,100	
12.7	Site Establishment	2.5	%		61,400	
12.8	Contingency	20	%		491,400	
	SUB-TOTAL DELIVERY				1,357,500	
11	TOTAL ESTIMATED COST				3,814,500	

Item	Description	Quantity	Unit	Rate	Amount	Comments
	WORKS					
1	SITEWORKS AND EARTHWORKS					
1.1	Site mobilisation	10	Item	15,000	150,000	Allowance for staging of works
1.2	Demolition of existing roadway/surfaces	5,115	m2	65	332,475	Includes associated items such as kerbs, street furniture and disposal
1.3	Excavation	1,705	m	2,750	4,688,750	Includes disposal of Cat C material
1.4	Extra over for Non-Destructive excavation	1,705	m	550	937,750	
1.5	Backfill	1,705	m	1,540	2,625,700	
2	PIPELINE WORKS				-	
2.1	Coating removal and recoating	1,705	m	1,420	2,421,100	
2.2	Pipeline survey	1,705	m	121	206,305	
2.3	Protection slab	1,705	m	133	226,765	
3	UTILITIES				-	
3.1	Allowance for non-disruptive digging	10	Item	18,750	187,500	Allowance for NDD 2 shifts per stage
3.2	Protect utilities (Provisional Sum)	10	item	50,000	500,000	Per stage allowance
4	MISCELLANEOUS				-	
4.1	Line marking	10	Item	4,000	40,000	
4.2	Pavement reinstatement	5,115	m	240	1,227,600	Allowance for existing surface reinstatement including road and footpath as required
4.3	Allowance for sundry items including kerbs, landscaping, signs etc	1,705	m	250	426,250	
	SUB-TOTAL WORKS				13,970,000	
12	DELIVERY					
12.1	Council Fees	3.25	%		454,000	
12.2	VicRoads Fees	1	%		139,700	
12.3	Traffic Management	7	%		977,900	
12.4	Environmental Management	0.5	%		69,900	
12.5	Survey/Design	5	%		698,500	
12.6	Supervision/Project Management	9	%		1,257,300	
12.7	Site Establishment	2.5	%		349,300	
12.8	Contingency	20	%		2,794,000	
	SUB-TOTAL DELIVERY				6,740,600	
11	TOTAL ESTIMATED COST				20,710,600	

Combined

				TOTAL			
Item	Description	Comments		Quantity	Unit	Rate	Amount
	WORKS						
1	SITEWORKS AND EARTHWORKS						
1.1	Allowance for general demolition	Includes disposal		1453	m2	18.75	27,244
1.2	Earthworks	Disposal of Cat C		1365	m3	225	307,125
1.3	Allowance for feature mounds	N/A			m3	75	-
1.4	Allowance for ponds				m2	250	-
1.5	Allowance for demolition of existing asphalt car park				m2	56.25	-
1.6	Allowance for demolition of existing buildings	215 Arden street existing warehouse		4200	m2	80	336,000
1.7	Allowance for removal of existing trees	Includes disposal			No.	1250	-
2	ROAD PAVEMENT						
2.1	New pavement				m2		-
2.2	Bike Path/ Shared Path	100 thick asphalt including subbase allowance			m2	135	-
3	CONCRETE WORKS						
3.1	Kerb and Channel				LM		-
3.2	Kerbs				LM		-
4	DRAINAGE						
4.1	Drainage - pipes	450mm RCP pipe		190	LM	713	135,470
4.2	Drainage - pits				No.	3,750	15,000
4.3	Drainage - Sub-soil drainage			200	LM	150	30,000
4.4	1200 x 900 x 2 culverts	Precast culverts assumed		22	LM	3750	82,500
4.5	Culvert headwall			4	No.	3750	15,000
4.6	Drainage - Miscellaneous(Description)				Item		-
5	TRAFFIC						
5.1	Traffic Signals				Item		-
5.1	Traffic Safety				Item		-
6	LANDSCAPE						
	<i>Vegetation</i>						
6.1	Trees -45 litre			13	No.	250	3,250
6.2	Vegetation Type VE01 - Lawn	Includes soil preparation, seeding, edging where required			m2	12.5	-
6.3	Vegetation Type VE02 - Garden mix 01	Includes garden beds, cultivation of soil, edging where required			m2	87.5	-
6.4	Vegetation Type VE03 - Garden mix 02 wetland planting	Includes garden beds, cultivation of soil, edging where required			m2	112.5	-
6.5	Vegetation Type VE04 - Garden mix 03 Swale rain garden	Includes garden beds, cultivation of soil, edging where required		707	m2	100	70,700
6.6	Vegetation Type VE05 - Garden mix 04 Slope Embankment	Includes garden beds, cultivation of soil, edging where required			m2	100	-
	<i>Edging & Paving</i>						
6.7	Type PV01 - Asphalt	Includes 25mm asphalt wearing course, 35mm base course, compacted subbase		110	m2	125	13,750
6.8	Type PV02 - Granitic sand	includes 50mm granitic sand over 90mm compacted crushed rock			m2	18.75	-
6.9	Type PV03 - Sawn bluestone paving (standrd)				m2		-
6.10	Type PV04 - Sawn bluestone paving (small)				m2		-
6.11	Type PV05 - Timber decking/ boardwalk				m2	250	-
6.12	Type PV06 - 100x100x100 bluestone block paving	includes 40mm compacted bedding sand over 150mm compacted crushed rock		454	m2	437.5	198,625
6.13	Type PV07 - Permeable aggregate (tree)	40mm 'Spring Rockpave', woven fabric, 60mm drainage course			m2	250	-
6.14	Type PV08 - Concrete	100mm thick concrete and 150mm thick subbase		118	m2	150	17,700
6.15	Type PV09 - Mulch	assumed 100mm thick			m2	25	-
6.16	Type TG01 - Hazard TGSi				m2		-
6.17	Type TG02 - Directional				m2		-
6.18	Type ED03 - Timber edging				m	18.75	-
6.19	Multi use court paving	Provisional allowance			m2	312.5	-
6.20	Allowance for tennis court	Provisional allowance			m2	312.5	-
	<i>Walls and Fencing</i>						
6.21	Wall type WL01 - brick retaining wall	Includes foundations			m	1250	-
6.22	Wall type WL02 - bluestone wall				m		-
6.23	Fence Type FN01 - fencing and gate	Includes posts			m	625	-
6.24	DSS LEEVEE Wall	Excluded			m		-
6.25	High quality rail fence	Provisional allowance			m	3750	-
	<i>Furniture, Handrail & Equipment</i>						
6.26	Type FR01 - Bench			14	No.	5700	79,800
6.27	Type FR02 - Seat			17	No.	5300	90,100
6.28	Type FR03 - Custom Seat				m	2600	-
6.29	Type FR04 - Bins				No.	5300	-
6.30	Type FR05 - Drinking Fountain	Including water supply connections		1	No.	7500	7,500
6.31	Type FR06 - Bike Hoop			8	No.	805	6,440
6.32	Type FR07 - Tree guard & grate (Bio retention tree pit)				No.	1625	-
6.33	Type FR08 - Picnic Table				No.	3750	-
6.34	Type FR09 - Picnic Table (Custom)				No.	3750	-
6.35	Type FR10 - Double BBQ set	Includes lectrical connection and installation			No.	11250	-
6.36	Type FR11-A - Bollard (HVM Fixed)				No.		-
6.37	Type FR11-B - Bollard (HVM Removable)				No.		-
6.38	Type FR12-A - Bollard (Non HVM Fixed)				No.	3125	-
6.39	Type FR12-B - Bollard (Non HVM Removable)				No.	3750	-
6.40	Type FR13 - Rock feature				Item		-
6.41	Type FR14 - Shelter	Includes posts, foundations, pergolas			m2	1250	-
6.42	Type FR15 - Toilet				Item	35000	-
6.43	Type HR01 - Handrail				m		-
6.44	Type PL01 - Skate Park Item area				Item		-
6.45	Type PL02 - Outdoor fitness equipment (Provisional Sum)				No.		-
6.46	Type PL03 - Water Play Item				Item		-
6.47	Type PL04 - Nature Play				Item		-
6.48	Steel hoop fence around garden bed type VE02				m	250	-
6.49	Allowance for multiuse court equipment				Item		-
7	STREET LIGHTING						
7.1	Type - L T01 Street/ Park light			11	No.	12500	137,500
7.2	Type - L T02 Light				No.	30000	-
8	UTILITIES						
8.1	Allowance for non-disruptive digging			1	Item	18750	18,750
8.2	Relocate utilities (Provisional Sum)			1	PS		-
8.3	Protect utilities (Provisional Sum)			1	PS	25000	25,000
8.4	Allowance for electrical services for street lighting			330	m	875	288,750
9	MISCELLANEOUS						
9.1	Line marking			1	Item	5000	5,000
9.2	Regulatory Signage			8	No	0	-
9.3	Works maintenance - up to 1 year			1	Item	5000	5,000
9.4	Landscape maintenance - 1yr/2 summers			1	Item	7500	7,500
9.5	Traffic signals 10 year Maintenance Fee				Item		-
	SUB-TOTAL WORKS						1,924,000
12	DELIVERY						
12.1	Council Fees			3.25	%		62,500
12.2	Other Authority Fees			1	%		19,200
12.3	Traffic Management			7	%		134,700
12.4	Environmental Management			0.5	%		9,600
12.5	Survey/Design			5	%		96,200
12.6	Supervision/Project Management			9	%		173,200
12.7	Site Establishment			2.5	%		48,100
12.8	Project Contingency			25	%		481,000
	SUB-TOTAL DELIVERY						1,025,000
13	TOTAL ESTIMATED COST						2,949,000

Item	Description	Quantity	Unit	Rate	Amount	Comments
	WORKS					
1	SITEWORKS AND EARTHWORKS					
1.1	Allowance for general demolition	786	m2	19	14,738	Includes disposal
1.2	Earthworks	393	m3	225	88,425	Disposal of Cat C
1.3	Allowance for feature mounds		m3	75	-	N/A
1.4	Allowance for ponds		m2	250	-	
1.5	Allowance for demolition of existing asphalt car park		m2	56	-	
1.6	Allowance for demolition of existing buildings		m2	80	-	
1.7	Allowance for removal of existing trees		No.	1250	-	Includes disposal
2	ROAD PAVEMENT					
2.1	New pavement	-	m2	-	-	
2.2	Bike Path/ Shared Path		m2		-	100 thick asphalt including subbase allowance
3	CONCRETE WORKS					
3.1	Kerb and Channel	-	LM		-	
3.2	Kerbs	-	LM		-	
4	DRAINAGE					
4.1	Drainage - pipes	25	LM	713	17,825	450mm RCP pipe
4.2	Drainage - pits	2	No.	3,750	7,500	
4.3	Drainage - Sub-soil drainage	50	LM	150	7,500	
4.4	1200 x 900 x 2 culverts		LM	3,750	-	
4.5	Culvert headwall		No.	3,750	-	
4.6	Drainage - Miscellaneous (Description)		Item		-	
5	TRAFFIC					
5.1	Traffic Signals		Item		-	
5.1	Traffic Safety		Item		-	
6	LANDSCAPE					
	<u>Vegetation</u>					
6.1	Trees -45 litre	5	No.	250	1,250	
6.2	Vegetation Type VE01 - Lawn		m2	13	-	Includes soil preparation, seeding, edging where required
6.3	Vegetation Type VE02 - Garden mix 01		m2	88	-	Includes garden beds, cultivation of soil, edging where required
6.4	Vegetation Type VE03 - Garden mix 02 wetland planting		m2	113	-	Includes garden beds, cultivation of soil, edging where required
6.5	Vegetation Type VE04 - Garden mix 03 Swale rain garden		m2	100	-	Includes garden beds, cultivation of soil, edging where required
6.6	Vegetation Type VE05 - Garden mix 04 Slope Embankment		m2	100	-	Includes garden beds, cultivation of soil, edging where required
	<u>Edges & Paving</u>					
6.7	Type PV01 - Asphalt		m2	125	-	Includes 25mm asphalt wearing course, 35mm base course, compacted subbase
6.8	Type PV02 - Granitic sand		m2	19	-	Includes 50mm granitic sand over 90mm compacted crushed rock
6.9	Type PV03 - Sawn bluestone paving (standrd)		m2		-	
6.10	Type PV04 - Sawn bluestone paving (small)		m2		-	
6.11	Type PV05 - Timber decking/ boardwalk		m2	250	-	
6.12	Type PV06 - 100x100x100 bluestone block paving	775	m2	438	339,063	Includes 40mm compacted bedding sand over 150mm compacted crushed rock
6.13	Type PV07 - Permeable aggregate (tree)	11	m2	250	2,750	40mm 'Spring Rockpave', woven fabric, 60mm drainage course
6.14	Type PV08 - Concrete		m2	150	-	100mm thick concrete and 150mm thick subbase
6.15	Type PV09 - Mulch		m2	25	-	assumed 100mm thick
6.16	Type TG01 - Hazard TGSI		m2		-	
6.17	Type TG02 - Directional		m2		-	
6.18	Type ED03 - Timber edging		m	19	-	
6.19	Multi use court paving		m2	313	-	Provisional allowance
6.20	Allowance for tennis court		m2	313	-	Provisional allowance
	<u>Walls and Fencing</u>					
6.21	Wall type WL01 - brick retaining wall		m	1250	-	Includes foundations
6.22	Wall type WL02 - bluestone wall		m		-	
6.23	Fence Type FN01 - fencing and gate		m	625	-	Includes posts
6.24	DSS LEEVEE Wall		m		-	Excluded
6.25	High quality rail fence		m	3750	-	Provisional allowance
	<u>Furniture, Handrail & Equipment</u>					
6.26	Type FR01 - Bench	8	No.	5700	45,600	
6.27	Type FR02 - Seat	11	No.	5300	58,300	
6.28	Type FR03 - Custom Seat		m	2600	-	
6.29	Type FR04 - Bins	4	No.	5300	21,200	
6.30	Type FR05 - Drinking Fountain		No.	7500	-	Including water supply connections
6.31	Type FR06 - Bike Hoop	17	No.	805	13,685	
6.32	Type FR07 - Tree guard & grate (Bio retention tree pit)		No.	1625	-	
6.33	Type FR08 - Picnic Table		No.	3750	-	
6.34	Type FR09 - Picnic Table (Custom)		No.	3750	-	
6.35	Type FR10 - Double BBQ set		No.	11250	-	Includes lectrical connection and installation
6.36	Type FR11-A - Bollard (HVM Fixed)		No.		-	
6.37	Type FR11-B - Bollard (HVM Removable)		No.		-	
6.38	Type FR12-A - Bollard (Non HVM Fixed)		No.	3125	-	
6.39	Type FR12-B - Bollard (Non HVM Removable)		No.	3750	-	
6.40	Type FR13 - Rock feature		item		-	
6.41	Type FR14 - Shelter		m2	1250	-	Includes posts, foundations, pergolas
6.42	Type FR15 - Toilet		item		-	
6.43	Type HR01 - Handrail		m		-	
6.44	Type PL01 - Skate Park item area		item		-	
6.45	Type PL02 - Outdoor fitness equipment (Provisional Sum)		No.		-	
6.46	Type PL03 - Water Play Item		item		-	
6.47	Type PL04 - Nature Play		item		-	
6.48	Steel hoop fence around garden bed type VE02		m	250	-	
6.49	Allowance for multiuse court equipment		Item		-	
7	STREET LIGHTING					
7.1	Type - LT01 Street/ Park light	6	No.	12500	75,000	Includes luminaire and foundation
7.2	Type - LT02 Light		No.	30000	-	
8	UTILITIES					
8.1	Allowance for non-disruptive digging	2	Item	18750	37,500	Allowance for NDD 2 shifts
8.2	Relocate utilities (Provisional Sum)	1	PS		-	
8.3	Protect utilities (Provisional Sum)	1	PS	25000	25,000	
8.4	Allowance for electrical services for street lighting	180	m	875	157,500	Includes cable trenching
9	MISCELLANEOUS					
9.1	Line marking		Item		-	
9.2	Regulatory Signage	4	no	750	3,000	
9.3	Works maintenance - up to 1 year	1	Item	5000	5,000	
9.4	Landscape maintenance - 1yr/2 summers	1	Item	7500	7,500	
9.5	Traffic signals 10 year Maintenance Fee		Item		-	
	SUB-TOTAL WORKS				928,000	
12	DELIVERY					
12.1	Council Fees	3.25	%		30,200	
12.2	Other Authority Fees	1	%		9,300	
12.3	Traffic Management	7	%		65,000	
12.4	Environmental Management	1	%		4,600	
12.5	Survey/Design	5	%		46,400	
12.6	Supervision/Project Management	9	%		83,500	
12.7	Site Establishment	2.5	%		23,200	
12.8	Project Contingency	25	%		232,000	
	SUB-TOTAL DELIVERY				494,000	
13	TOTAL ESTIMATED COST				1,422,000	