



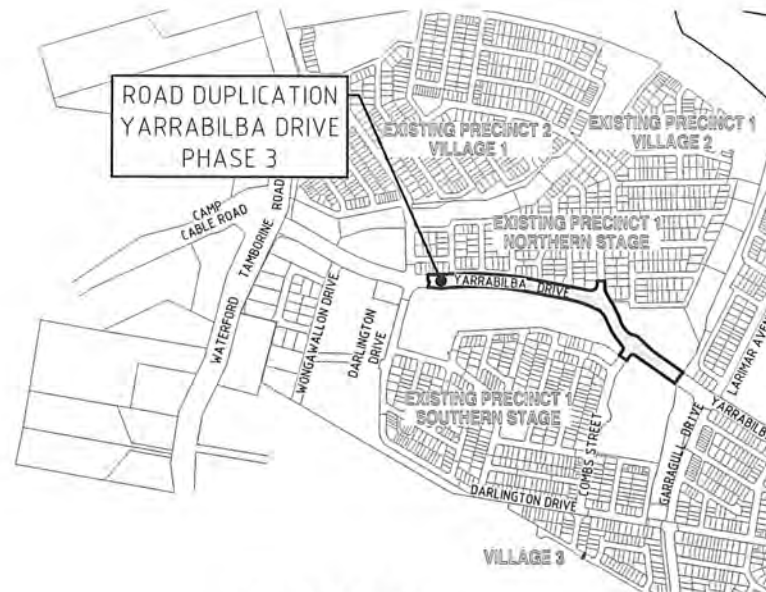
YARRABILBA

ROAD DUPLICATION YARRABILBA DRIVE PHASE 3

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2018/928

Date: 24 April 2018



LOCALITY PLAN
SCALE 1:10000



PLAN
SCALE 1:5000

DRAWING INDEX

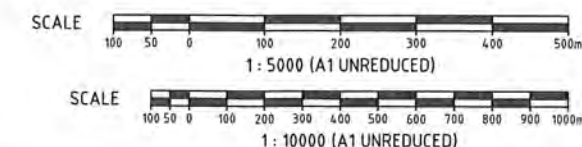
DRAWING NO.	DRAWING TITLE
18-115-01	LOCALITY PLAN - DRAWINGS INDEX AND NOTES
18-115-02	EXISTING FEATURES PLAN - SHEET 1
18-115-03	EXISTING FEATURES PLAN - SHEET 2
18-115-04	EXISTING FEATURES PLAN - SHEET 3
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18-115-06	SETOUT PLAN - SHEET 2
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18-115-17	YARRABILBA DRIVE - ENTRY 2 - CROSS SECTIONS SHEET 4
18-115-18	YARRABILBA DRIVE - EXIT 2 - SHEET 1
18-115-19	INTERSECTION DETAILS - SHEET 1
18-115-20	INTERSECTION DETAILS - SHEET 2
18-115-21	INTERSECTION DETAILS - SHEET 3
18-115-22	SIGNS AND LINEMARKING PLAN - SHEET 1
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18-115-25	TRUNK WATER - LAYOUT PLAN SHEET 1
18-115-26	TRUNK WATER - LAYOUT PLAN SHEET 2
18-115-27	TRUNK WATER - NOTES
18-115-28	SAFETY IN DESIGN

PROJECT DATUM A.H.D.

P.S.M. No.59068
E.2125.970
N.26685.150
R.L.46.040

MGA94, ZONE 56 DATUM A.H.D.

P.S.M. No.59068
E.500885.465
N.6989896.856
R.L.46.040



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LOCALITY PLAN



REVISIONS

No	Description	Date	By
A	FOR APPROVAL	19/02/18	JJH

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YARRABILBA
DUPLICATION
YARRABILBA DRIVE
PHASE 3



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19215

LOCALITY PLAN DRAWINGS INDEX AND NOTES

Drawn	Designed	Checked	Date
JJH	DJS	RWM	FEB 18
Scale	Sheet	Revision	
AS SHOWN	01 of 28		
A1	18-115-01	A	

M:\2018\18105 Yarrabilba Drive Duplication Highland - Summerview\Engineering\Kad18-115-02-04-EX-LAYOUT.dwg Plotted by DS on 19/02/2018 7:27:03 PM



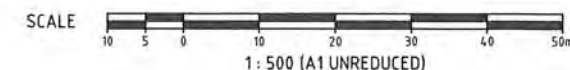
LEGEND

	EXISTING CONTROL LINE
	EXISTING EDGE OF BITUMEN
	EXISTING KERB
	EXISTING FENCE
	EXISTING CONTOUR (MAJOR - 1.00)
	EXISTING CONTOUR (MINOR - 0.25)
	EXISTING UNDERGROUND ELECTRICAL LINE
	EXISTING UNDERGROUND ELECTRICAL INFRASTRUCTURE
	EXISTING OVERHEAD ELECTRICAL LINE
	EXISTING TELSTRA LINE
	EXISTING TELSTRA INFRASTRUCTURE
	EXISTING STORMWATER DRAINAGE
	EXISTING STORMWATER SWALE
	EXISTING TRUNK WATER
	EXISTING WATER RETICULATION
	EXISTING SEWER RETICULATION
	EXISTING GAS MAIN
	EXISTING IRRIGATION RETICULATION



NOTE:

1. EXISTING SALE OFFICE TO BE REMOVED PRIOR TO COMMENCEMENT OF WORKS.
2. ALL EXISTING KERB TO EXISTING CARPARKS TO BE REMOVED.
3. REMOVE EXISTING CARPARKS PAVEMENT INCLUDING SUB-BASE MATERIAL. MATERIAL TO BE STOCKPILED FOR FUTURE REUSE.
4. EXISTING FENCES BETWEEN YARRABILBA DRIVE AND VANTAGE LANE TO BE TAKEN DOWN.
5. REFER TO LANDSCAPE PLANS. FENCE TO BE STORED FOR FUTURE PLACEMENT AT NEW DISPLAY VILLAGE



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LOCALITY PLAN



REVISIONS

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Drawing Title

EXISTING FEATURES PLAN
SHEET 1

Drawn JJH	Designed DJS	Checked RWM	Date FEB 18
Scale AS SHOWN	Drawing No 18-115-02	Sheet 02 of 28	Revision A

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Project  **YARRABILBA**
DUPLICATION
YARRABILBA DRIVE
PHASE 3



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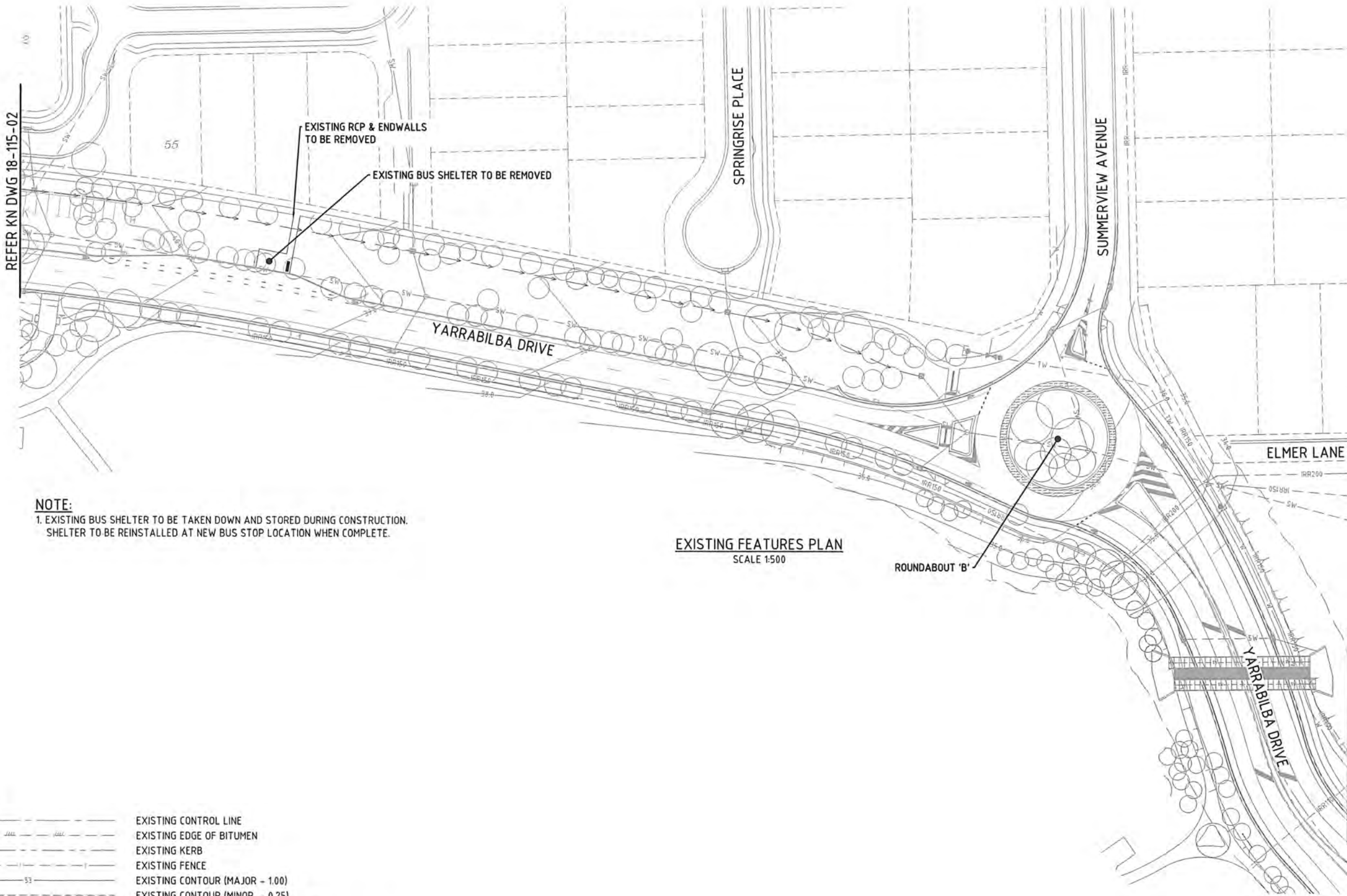
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Approved - RPEQ 12805
RWA 19218

Drawing Title

EXISTING FEATURES PLAN
SHEET 2

Drawn JJH	Designed DJS	Checked RWM	Date FEB 18
Scale AS SHOWN			Sheet 03 of 28
A1	Drawing No 18-115-03	Revision A	



REFER KN DWG 18-115-04

REFER KN DWG 18-115-02

NOTE:
1. EXISTING BUS SHELTER TO BE TAKEN DOWN AND STORED DURING CONSTRUCTION.
SHELTER TO BE REINSTALLED AT NEW BUS STOP LOCATION WHEN COMPLETE.

EXISTING FEATURES PLAN
SCALE 1:500

LEGEND

	EXISTING CONTROL LINE
	EXISTING EDGE OF BITUMEN
	EXISTING KERB
	EXISTING FENCE
	EXISTING CONTOUR (MAJOR - 1.00)
	EXISTING CONTOUR (MINOR - 0.25)
	EXISTING UNDERGROUND ELECTRICAL LINE
	EXISTING UNDERGROUND ELECTRICAL INFRASTRUCTURE
	EXISTING OVERHEAD ELECTRICAL LINE
	EXISTING TELSTRA LINE
	EXISTING TELSTRA INFRASTRUCTURE
	EXISTING STORMWATER DRAINAGE
	EXISTING STORMWATER SWALE
	EXISTING TRUNK WATER
	EXISTING WATER RETICULATION
	EXISTING SEWER RETICULATION
	EXISTING GAS MAIN
	EXISTING IRRIGATION RETICULATION



SCALE 
1 : 500 (A1 UNREDUCED)

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Project  **YARRABILBA**
 DUPLICATION
 YARRABILBA DRIVE
 PHASE 3



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Drawing Title
EXISTING FEATURES PLAN
SHEET 3

Drawn JH	Designed DJS	Checked RWM	Date FEB 18
Scale AS SHOWN			Sheet 04 of 28
A1	Drawing No 18-115-04		Revision A

ROUNDAABOUT 'B'

ELMER LANE

YARRABILBA DRIVE

ROUNDABOUT 'C'

COMBS STREET

YARRABILBA DRIVE

EXISTING FEATURES PLAN
SCALE 1:500

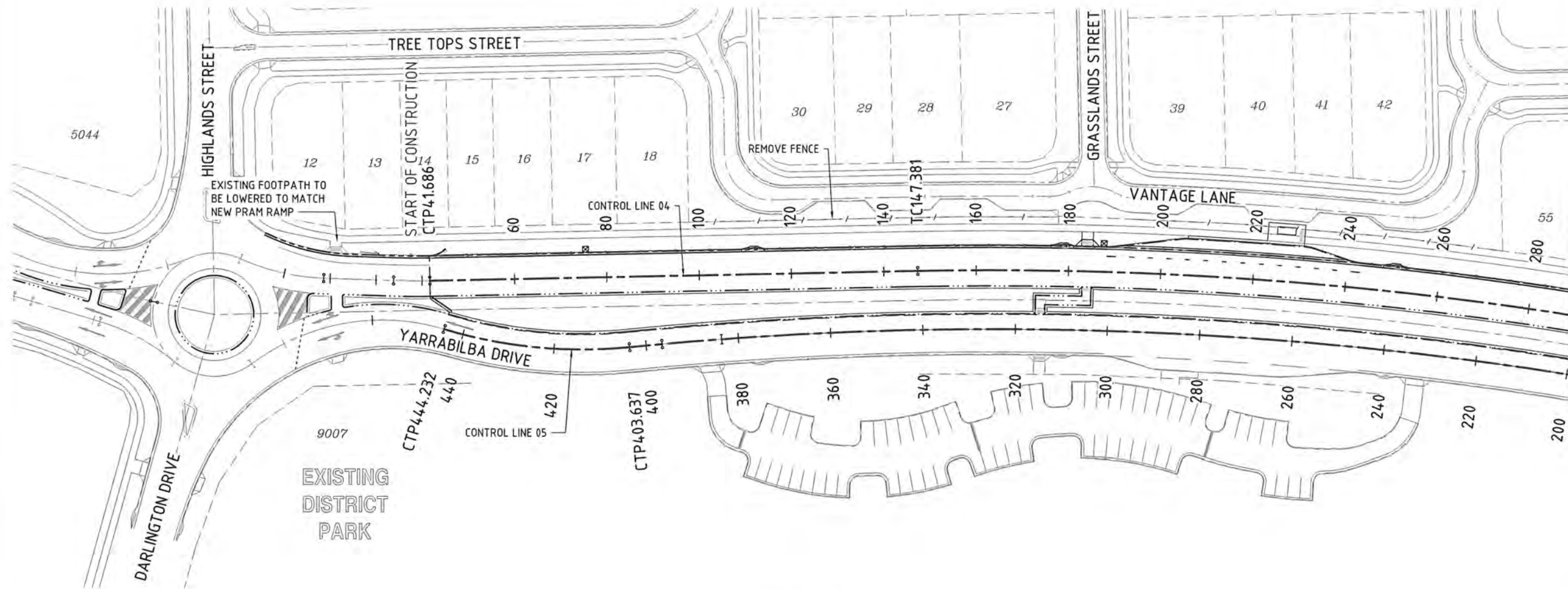
LEGEND

	EXISTING CONTROL LINE
	EXISTING EDGE OF BITUMEN
	EXISTING KERB
	EXISTING FENCE
	EXISTING CONTOUR (MAJOR - 1.00)
	EXISTING CONTOUR (MINOR - 0.25)
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	EXISTING OVERHEAD ELECTRICAL LINE
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	EXISTING TELSTRA INFRASTRUCTURE
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	EXISTING STORMWATER SWALE
	EXISTING TRUNK WATER
	EXISTING WATER RETICULATION
	EXISTING SEWER RETICULATION
	EXISTING GAS MAIN
	EXISTING IRRIGATION RETICULATION



SCALE 
1 : 500 (A1 UNREDUCED)

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SETOUT PLAN
SCALE 1:500

CONTROL LINE 05 - SETOUT TABLE (YARRABILBA DRIVE - EXIT 2)

Pt	Chainage	Easting	Northing	Bearing	Rad/Spiral	A.Length	D.Angle
IP1	0	2292.791	27391.59	308°06'41.82"			
IP2	8.612	2285.937	27396.967		-46.6	17.224	21°10'38.70"
CT	17.224	2277.603	27399.504	286°56'03.12"			
TC	36.603	2259.065	27405.149	286°56'03.12"			
IP3	46.941	2249.165	27408.163		-196.6	20.678	6°01'34.07"
CT	57.28	2239.004	27410.121	280°54'29.05"			
TC	172.505	2125.861	27431.925	280°54'29.05"			
IP4	288.071	2011.574	27453.95		-793.6	231.132	16°41'13.56"
CC	403.637	1895.776	27442.231	264°13'15.49"			
IP5	423.934	1875.318	27440.16		103.4	40.595	22°29'40.49"
CC	444.232	1855.624	27446.074	266°42'55.98"			
IP6	466.202	1832.871	27452.908		-46.6	43.941	54°01'33.24"
IP7	488.172	1813.976	27438.508	232°41'22.74"			

CONTROL LINE 04 - SETOUT TABLE (YARRABILBA DRIVE - ENTRY 2)

Pt	Chainage	Easting	Northing	Bearing	Rad/Spiral	A.Length	D.Angle
IP1	0	1811.449	27461.347	114°40'52.87"			
IP2	9.291	1820.005	27457.409		-46.6	18.582	22°50'49.70"
CT	18.582	1829.416	27457.108	91°50'03.17"			
TC	33.811	1844.637	27456.621	91°50'03.17"			
IP3	37.749	1848.574	27456.494		-146.6	7.875	3°04'40.72"
CT	41.686	1852.512	27456.58	88°45'22.46"			
TC	147.381	1958.181	27458.874	88°45'22.46"			
IP4	232.896	2043.998	27460.737		806.4	171.029	12°09'06.59"
CT	318.41	2128.283	27444.494	100°54'29.05"			
TC	419.655	2227.698	27425.335	100°54'29.05"			
IP5	434.458	2242.334	27422.515		103.4	29.606	16°24'19.38"
CC	449.261	2255.577	27415.675	117°18'48.43"			
IP6	469.999	2275.325	27405.477		-46.6	41.477	50°59'49.50"
IP7	490.738	2295.679	27414.405	66°18'58.93"			

SCALE
1:500 (A1 UNREDUCED)

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LOCALITY PLAN



REVISIONS

No	Description	Date	By
A	FOR APPROVAL	19/02/18	JJH

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PHASE 3



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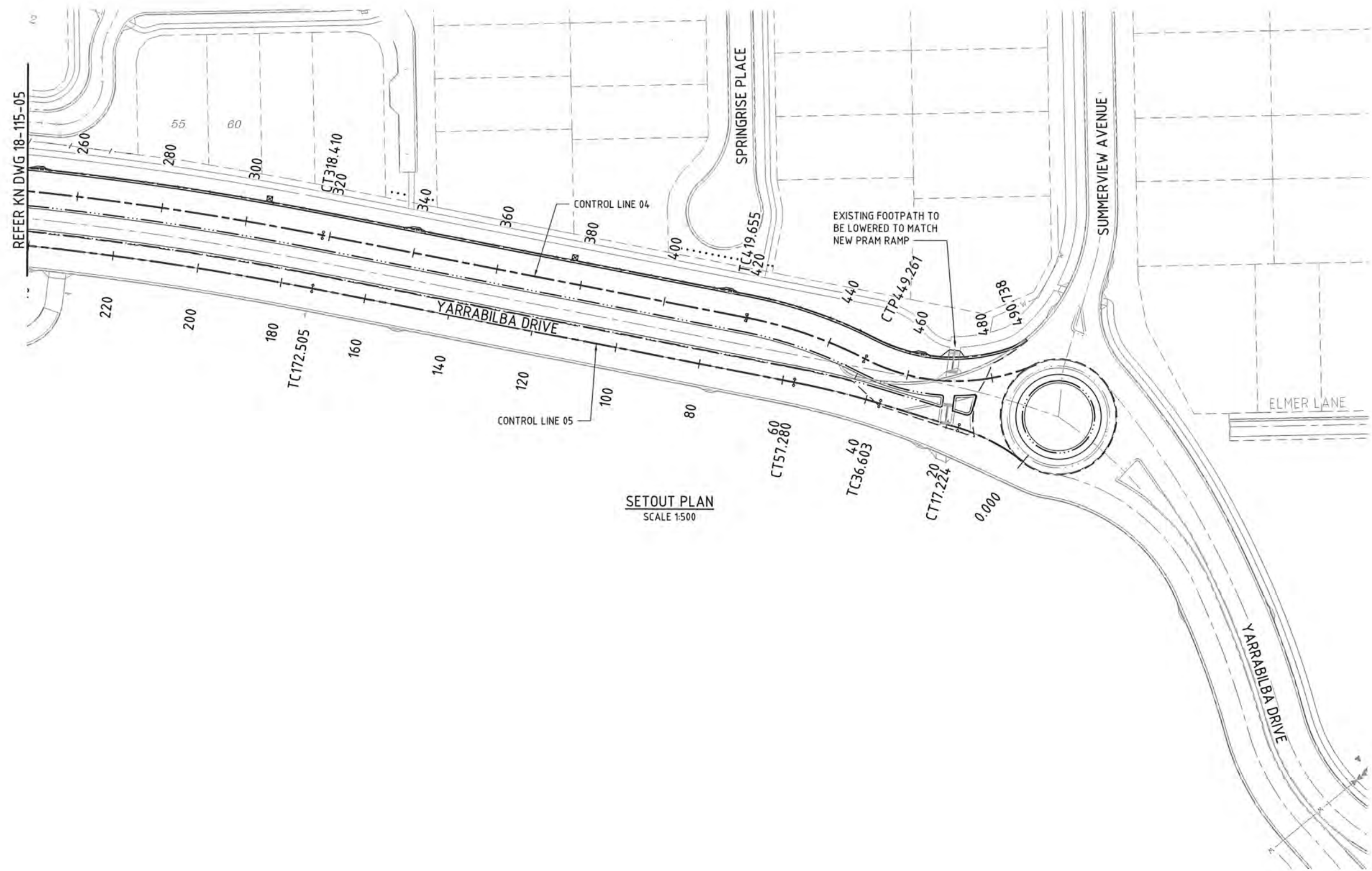
RPEQ 12805 19218

Drawing Title

SETOUT PLAN
SHEET 1

Drawn	Designed	Checked	Date
JJH	DJS	RWM	FEB 18
Scale	Sheet	Revision	
AS SHOWN	05 of 28		
A1	18-115-05	A	

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NOTE:
REFER KN DWG 18-115-05 FOR SETOUT TABLES

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REVISIONS

No	Description	Date	By
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Project
YARRABILBA
DUPLICATION
YARRABILBA DRIVE
PHASE 3

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CONSULTING ENGINEERS

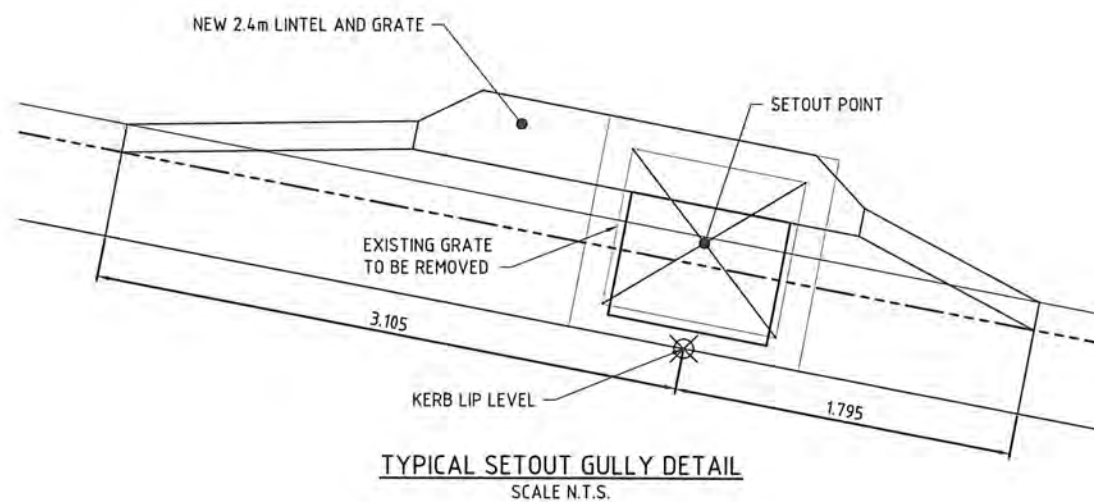
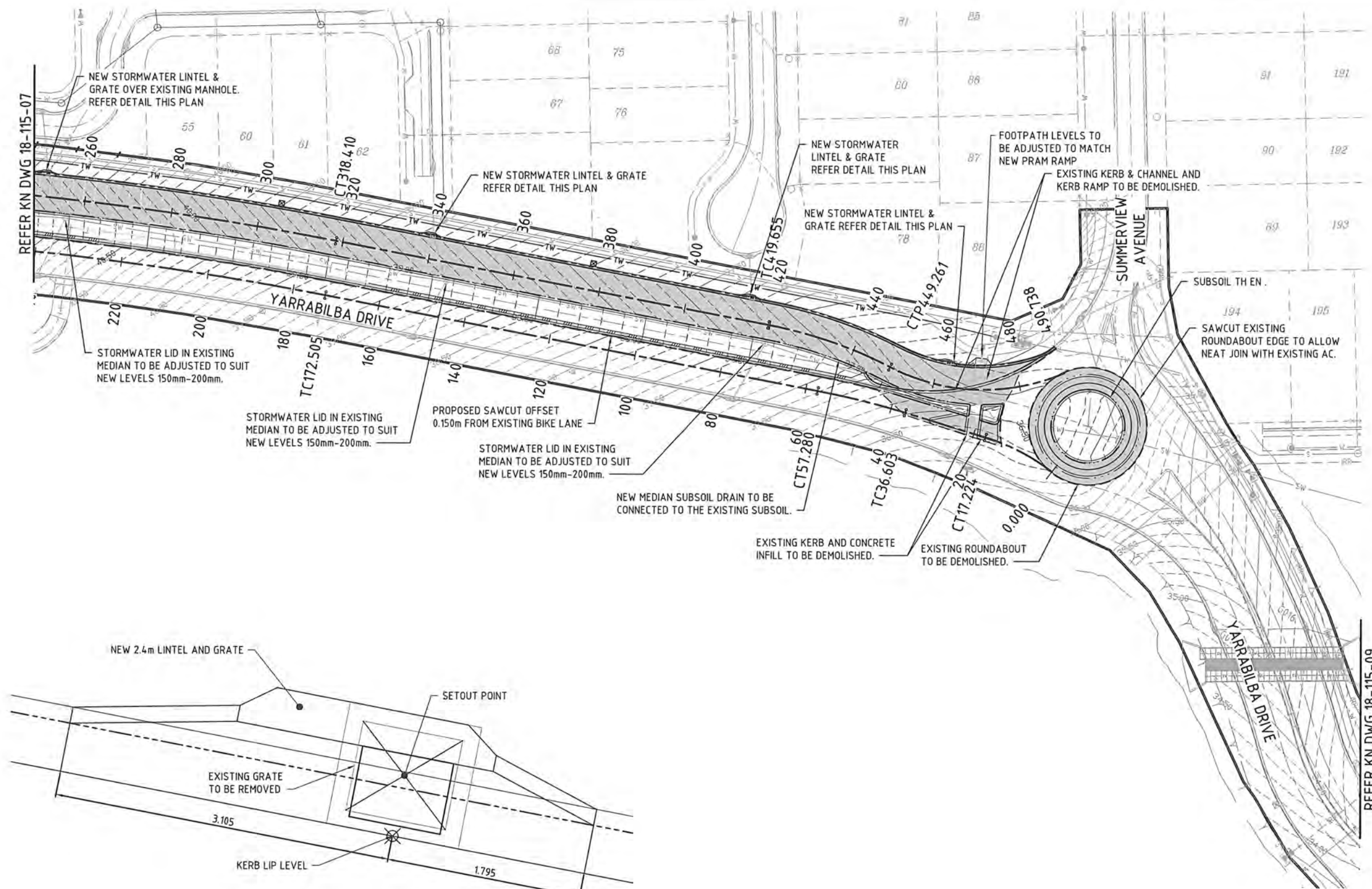
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RW 19218

Drawing Title
**SETOUT PLAN
SHEET 2**

Drawn	Designed	Checked	Date
JJH	DJS	RWM	FEB 18
Scale	Drawing No	Sheet	Revision
AS SHOWN	18-115-06	06 of 28	A

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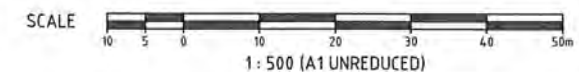


GULLY SETOUT TABLE
(YARRABILBA DRIVE - ENTRY 2)

Gully ID	Easting	Northing	KL Level
G001	1923.106	27463.631	44.906
G003	1990.123	27464.453	42.902
G005	2062.150	27459.965	40.764
G007	2150.512	27445.829	38.635
G009	2223.966	27431.674	37.138
G011	2269.193	27416.808	36.438

FOR LAYOUT LEGEND & NOTES, REFER KN DWG 18-115-07

LAYOUT PLAN
SCALE 1:500



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Project
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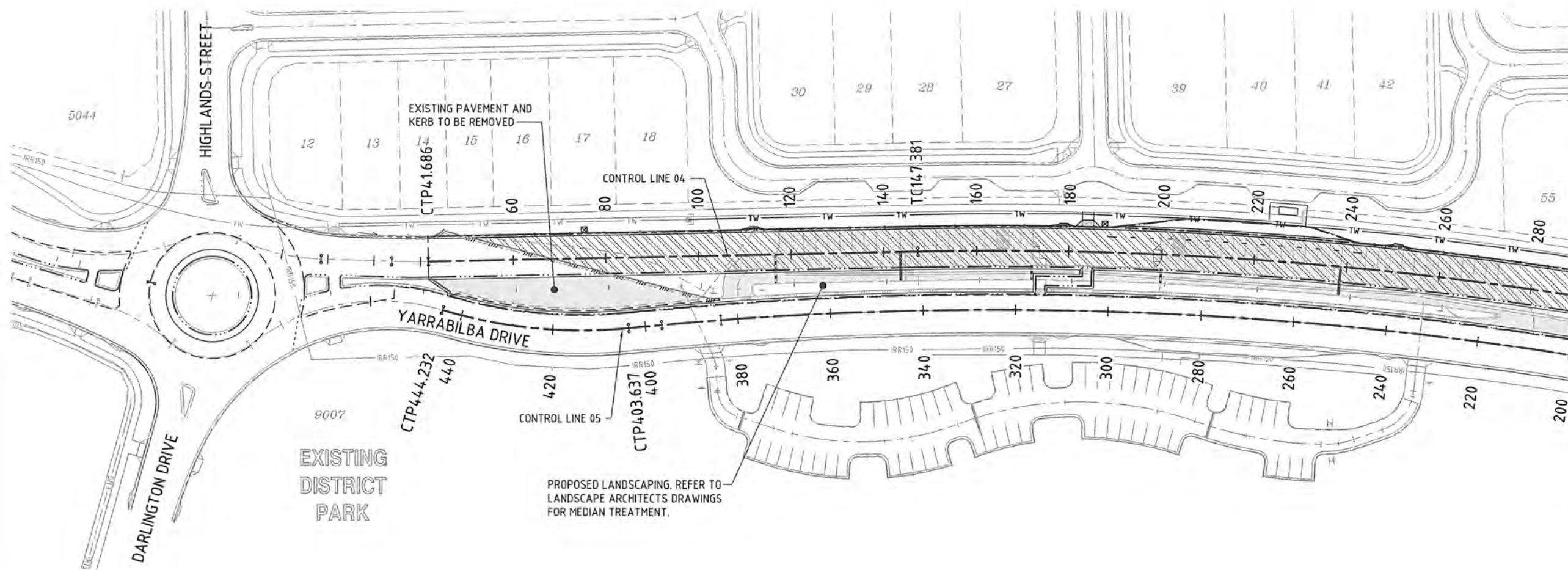
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RPEQ 12805

Drawing Title
**LAYOUT PLAN
SHEET 2**

Drawn	Design	Checked	Date
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Scale	Sheet	Revision	
AS SHOWN	08 of 28		
A1	18-115-08	A	

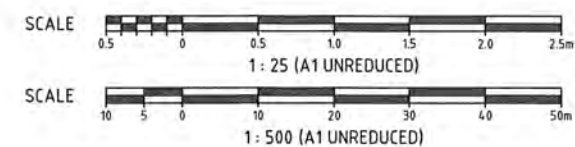
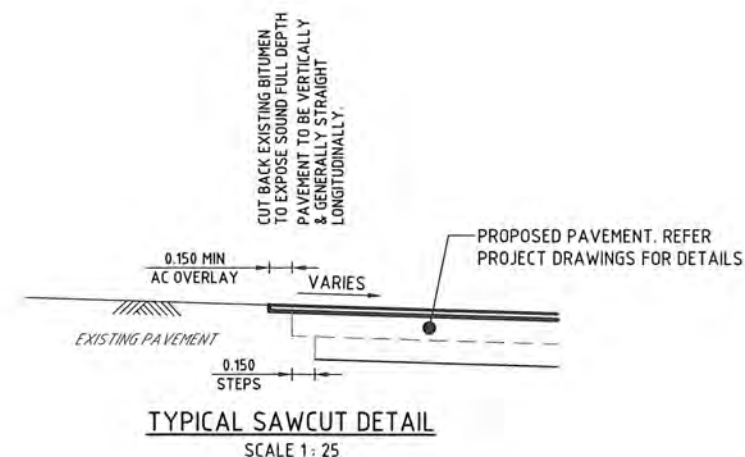
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PAVEMENT PLAN
SCALE 1:500

LEGEND

- EXISTING EDGE OF BITUMEN (TO REMAIN)
- PROPOSED BARRIER KERB FACE (TYPE 7)
- PROPOSED SEMI MOUNTABLE KERB FACE (TYPE 10)
- PROPOSED SEMI MOUNTABLE KERB FACE (TYPE SM5 - MODIFIED)
- PROPOSED EDGE OF BITUMEN
- PROPOSED SAWCUT
- WIDEN EXISTING AC PAVEMENT - TYPE C
- PROPOSED N40 CONCRETE
- EXISTING PAVEMENT AND KERB TO BE REMOVED



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REVISIONS

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A	FOR APPROVAL	19/02/18	JJH

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Project

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YARRABILBA DRIVE
PHASE 3

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Drawing Title
PAVEMENT PLAN
SHEET 1

Drawn	Designed	Checked	Date
JJH	DJS	RWM	FEB 18

Scale	Sheet
AS SHOWN	10 of 28

Drawing No	Revision
18-115-10	A

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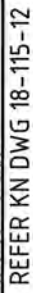
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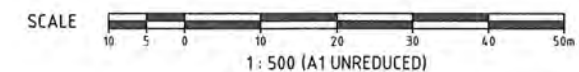
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Drawn JJH	Designed DJS	Checked RWM	Date FEB 18
Scale AS SHOWN			Sheet 11 of 28
A1	Drawing No 18-115-11		Revision A



-----	EXISTING EDGE OF BITUMEN (TO REMAIN)
-----	PROPOSED BARRIER KERB FACE (TYPE 7)
-----	PROPOSED SEMI MOUNTABLE KERB FACE (TYPE 10)
-----	PROPOSED SEMI MOUNTABLE KERB FACE (TYPE SMS - MODIFIED)
-----	PROPOSED EDGE OF BITUMEN
-----	PROPOSED SAWCUT

SCALE 1:500



35mm ASPHALTIC CONCRETE
175mm BASE COURSE (TYPE 2.1, CBR 80)
175mm UPPER SUB-BASE COURSE (TYPE 2.2, CBR 60)
SUBGRADE REPLACEMENT AS REQUIRED (TYPE 2.5, CBR 15)
DESIGN ESA = 1×10^7
MATCH EXISTING PAVEMENT

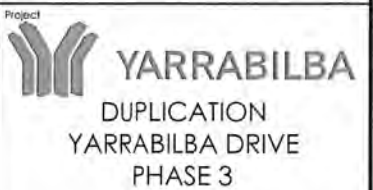
LOCALITY PLAN

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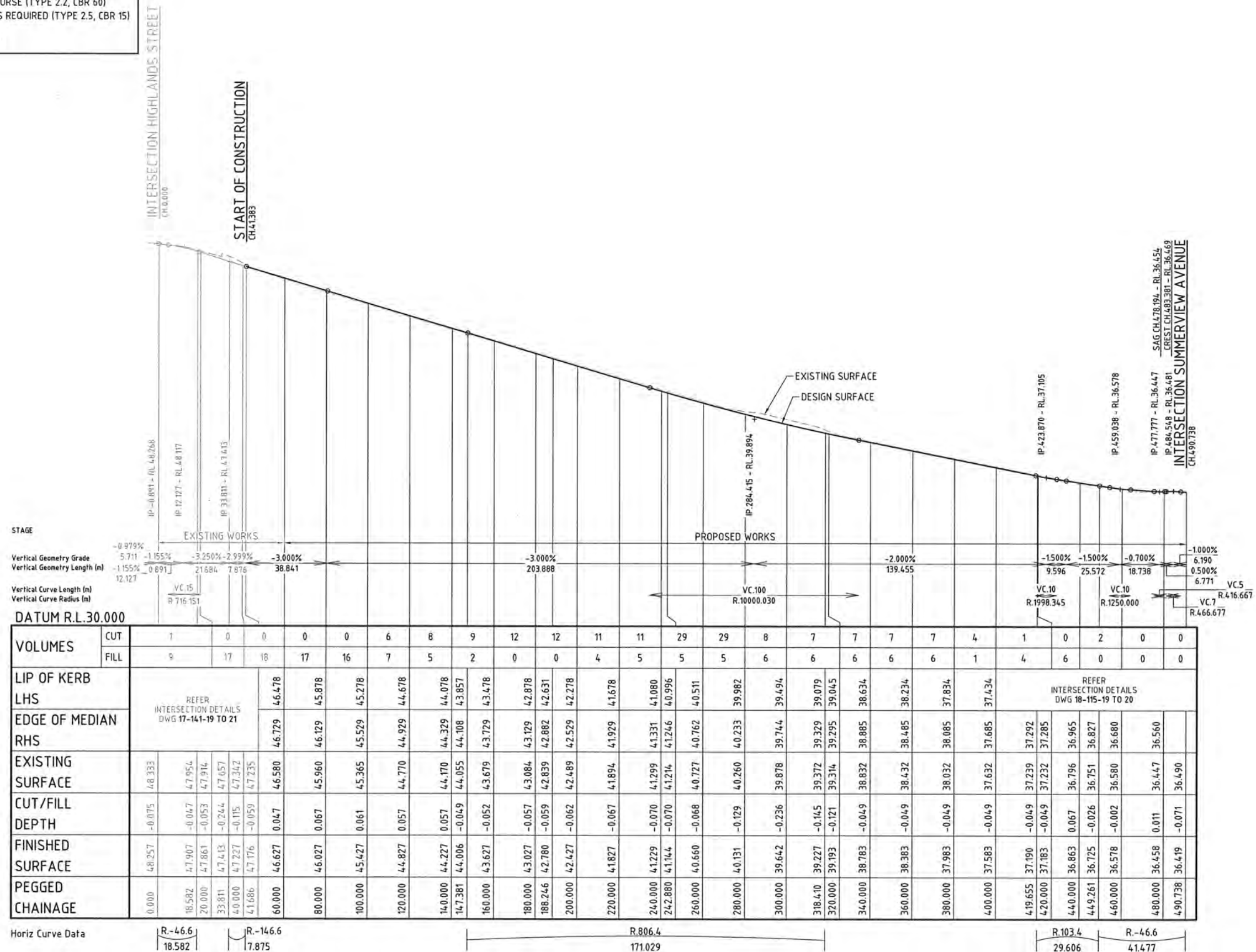


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Drawing Title
YARRABILBA DRIVE - ENTRY 2
LONGITUDINAL SECTION

Drawn JJH	Designed DJS	Checked RWM	Date FEB 18
Scale AS SHOWN			Sheet 13 of 28
A1	Drawing No 18-115-13	Revision A	

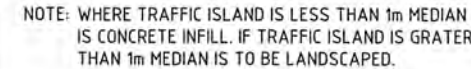


LONGITUDINAL SECTION - CONTROL LINE 04 (YARRABILBA DRIVE)
SCALE - 1:1000 (H)
1:100 (V)

SCALE A 1:1000
(Horiz.)

SCALE B 1:100
(Vert.)

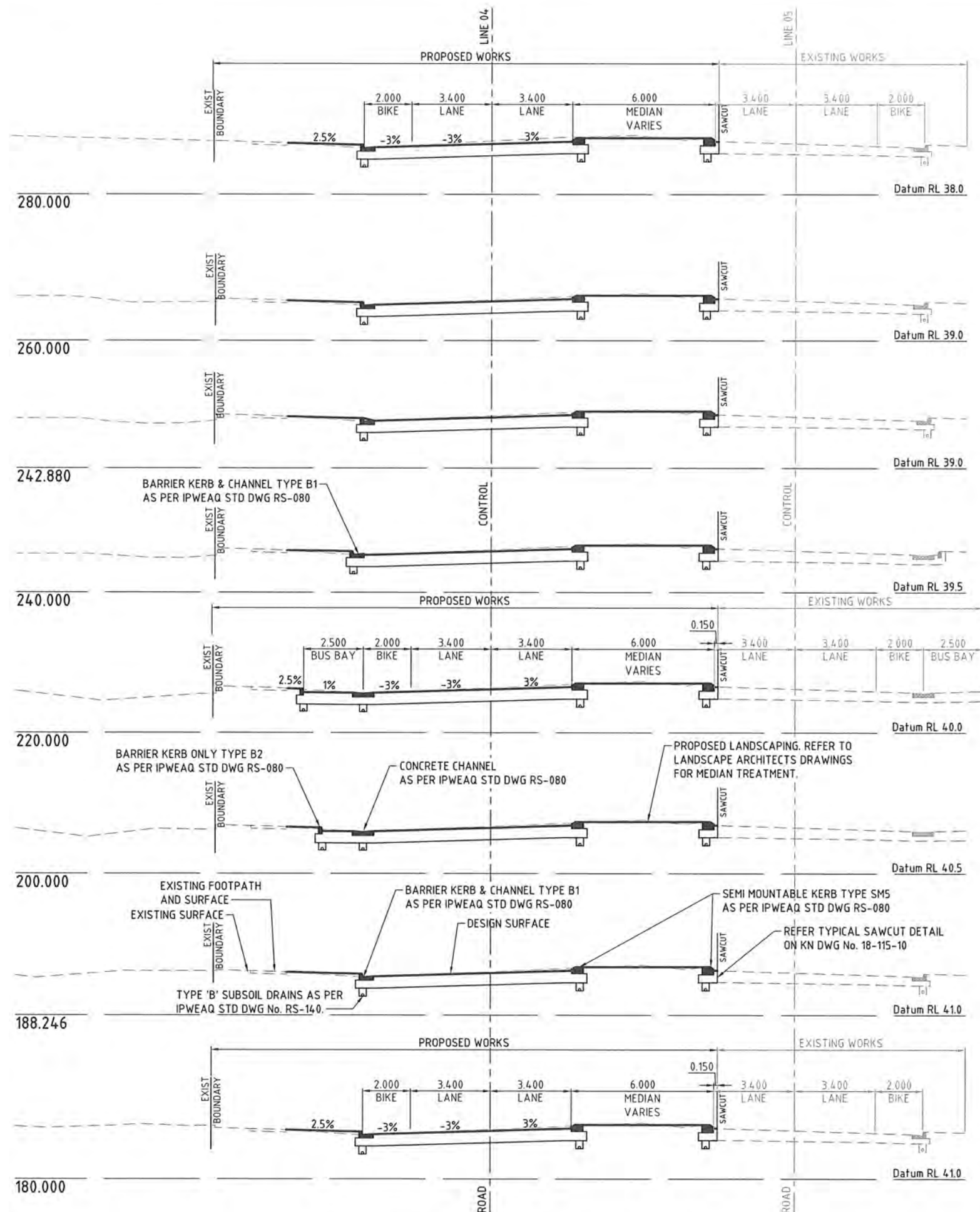
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SCALE 1 0.5 0 1 2 3 4 5 6 7 8 9 10
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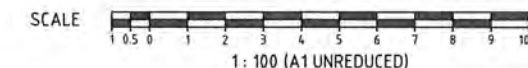
Approved - RPEQ 12805				19218	
Drawing Title					
YARRABILBA DRIVE - ENTRY 2					
CROSS SECTIONS					
SHEET 1					
Drawn JUH		Designed DJS		Checked RWM	
				Date FEB 18	
Scale AS SHOWN				Sheet 14 of 28	
		Drawing No		Revision	
A1		18-115-14		A	

M:\2018\1815 Yarrabilba Drive Duplication Highland - Summerview\Engineering\Acad\18-115-13-18-10\ADS.dwg Plotted by: DS on 19/02/2018 7:27:50 PM



NOTE: WHERE TRAFFIC ISLAND IS LESS THAN 1m MEDIAN IS CONCRETE INFILL. IF TRAFFIC ISLAND IS GRATER THAN 1m MEDIAN IS TO BE LANDSCAPED.

CROSS SECTIONS - CONTROL LINE 04 (YARRABILBA DRIVE)
SCALE - 1:100



DO NOT SCALE THIS DRAWING
IF IN DOUBT - ASK!

LOCALITY PLAN

REVISIONS

No	Description	Date	By
A	FOR APPROVAL	19/02/18	JJH

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DUPLICATION
YARRABILBA DRIVE
PHASE 3

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RPEQ 19218

Drawing Title

YARRABILBA DRIVE - ENTRY 2
CROSS SECTIONS
SHEET 2

Drawn	Designed	Checked	Date
JJH	DJS	RWM	FEB 18

Scale	Sheet
AS SHOWN	15 of 28

Revision	Revision
A1	18-115-15

LOCALITY PLAN



REVISIONS

[illegible]

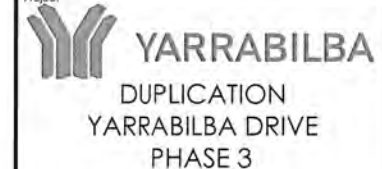
Associated Consultants



Client	
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Project



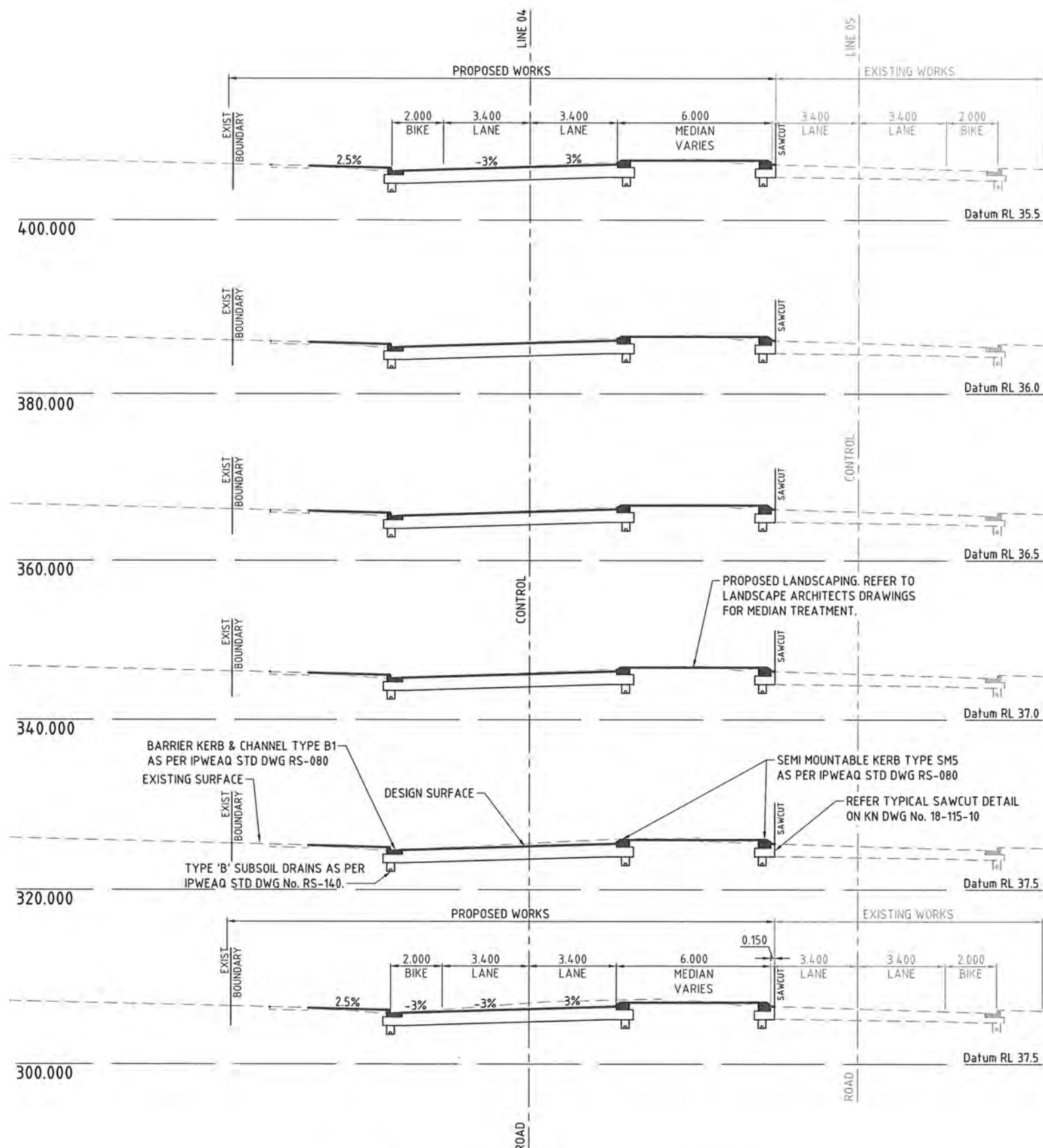
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Approved - RPEQ 12805

F Wood 19.2.18

Drawing Title
YARRABILBA DRIVE - ENTRY 2
CROSS SECTIONS
SHEET 3

Drawn JJH	Designed DJS	Checked RWM	Date FEB 18
Scale AS SHOWN			Sheet 16 of 28
Drawing No A1 18-115-16		Revision A	

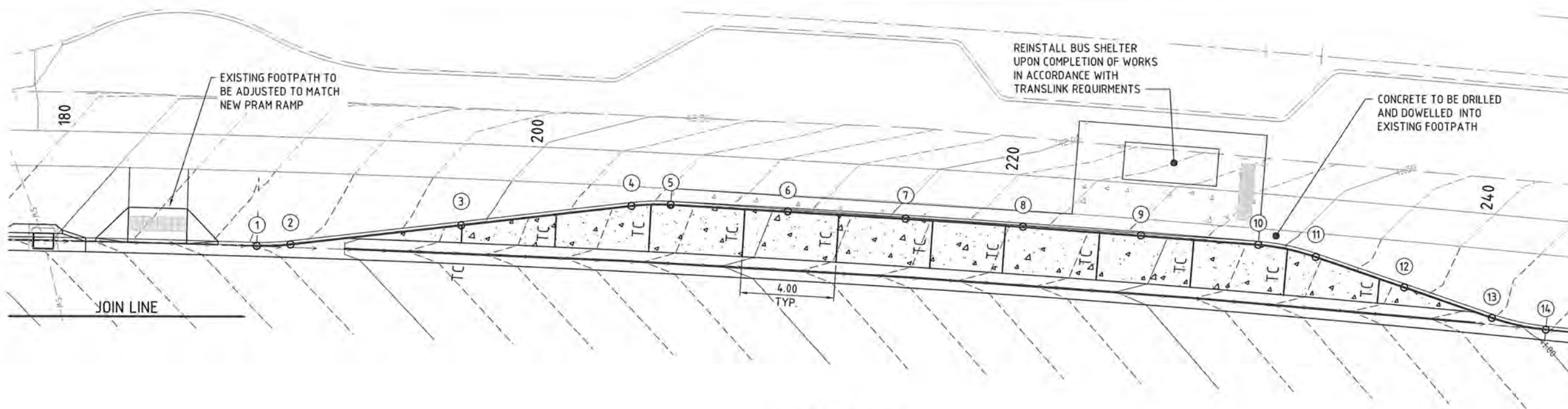


CROSS SECTIONS - CONTROL LINE 04 (YARRABILBA DRIVE)
SCALE - 1:100

NOTE: WHERE TRAFFIC ISLAND IS LESS THAN 1m MEDIAN IS CONCRETE INFILL. IF TRAFFIC ISLAND IS GRATER THAN 1m MEDIAN IS TO BE LANDSCAPED.

SCALE  1: 100 (A1 UNREDUCED)

M:\2018\18115 Yarrabubba Drive Duplication Highland - Summerview\Engineering\Acad\18-115-13-18-ROADS.dwg Plotted by: DS on 19/02/2018 7:27:50 PM

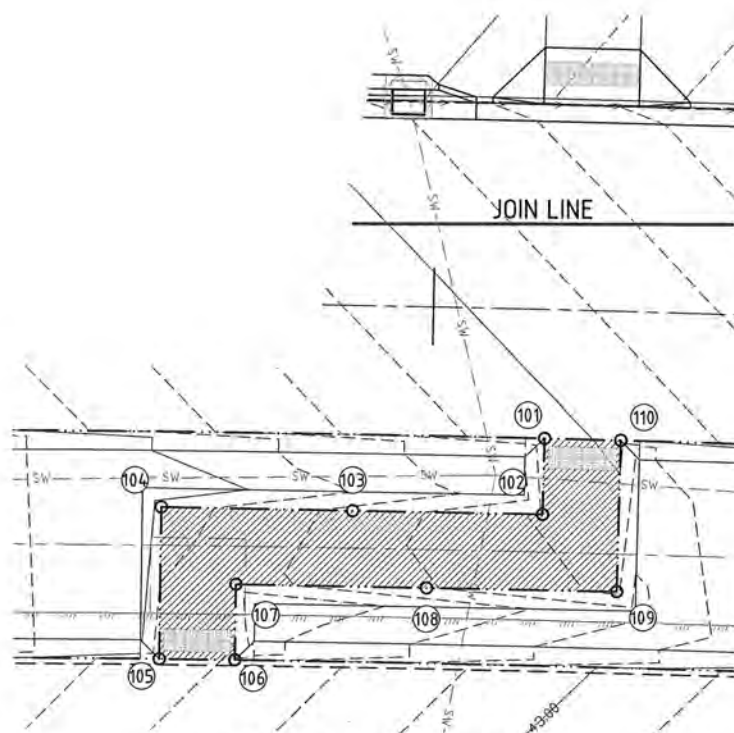


BUS BAY DETAILS
SCALE 1:100



NOTE - TO BE READ IN CONJUNCTION
WITH TRANSLINK STD DWG TL-B01

SECTION - BUSBAY DETAIL
SCALE 1:20



MEDIAN CUTOUT DETAILS
SCALE 1:100

PT No.	EASTING	NORTHING	LEVEL
101	1993.741	27455.460	43.038
102	1993.693	27453.456	43.088
103	1988.664	27453.544	43.269
104	1983.634	27453.632	43.450
105	1983.589	27449.625	43.350
106	1985.589	27449.603	43.289
107	1985.612	27451.596	43.339
108	1990.628	27451.509	43.209
109	1995.646	27451.422	43.078
110	1995.740	27455.413	42.978

PT No.	EASTING	NORTHING	LEVEL
1	1999.199	27464.124	42.594
2	2000.641	27464.186	42.564
3	2007.896	27465.029	42.381
4	2015.152	27465.871	42.178
5	2016.810	27465.925	42.130
6	2021.818	27465.656	41.981
7	2026.825	27465.357	41.832
8	2031.829	27465.026	41.683
9	2036.832	27464.665	41.534
10	2041.831	27464.273	41.385
11	2044.281	27463.759	41.308
12	2048.031	27462.465	41.185
13	2051.782	27461.170	41.058
14	2054.078	27460.670	40.959

LEGEND

- PROPOSED ROAD CENTRELINE
- KERB AND CHANNEL (TYPE B1)
- KERB AND CHANNEL (TYPE SM5)
- KERB ONLY (TYPE B2)
- INVERT CHANNEL
- PROPOSED CONTOUR (MAJOR - 0.50)
- PROPOSED CONTOUR (MINOR - 0.10)
- PROPOSED EDGE OF BITUMEN
- EXISTING EDGE OF BITUMEN
- EXISTING CONTOUR (MAJOR - 0.50)
- EXISTING CONTOUR (MINOR - 0.10)
- 50.000 OFFSET TO KERB FACE

MEDIAN CUTOUT

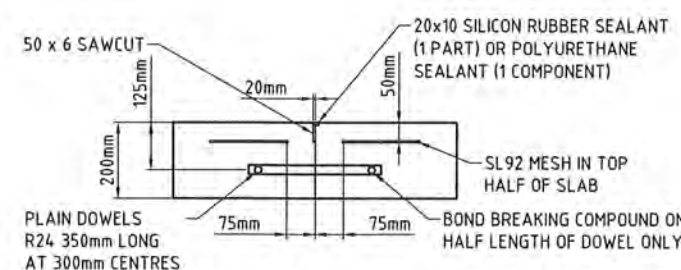
- N32 CONCRETE
- 150mm THICK SL92 FABRIC
- TOP COVER 40mm OVER 25mm SAND BEDDING
- 100mm CBR 45 SUBBASE.

PARKING BAY CONCRETE

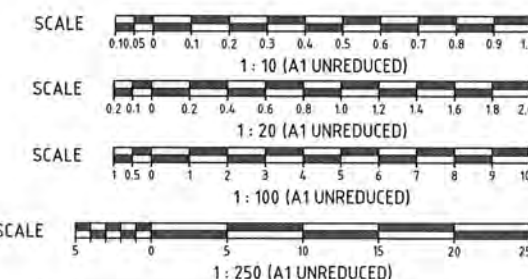
- N40 CONCRETE (f'cf=4.0MPa)
- 135mm THICK SL82 FABRIC
- 40 COVER OVER 25mm SAND BEDDING
- 200mm CBR 45 SUBBASE.

GENERAL NOTES

- SETOUT TABLES ARE GIVEN AT KERB LIP LEVELS.
- KERB LIP LEVELS ARE GIVEN AT QUARTER POINTS, TP'S AND EQUAL PARTS U.N.O.
- KERB RADII AND OFFSETS ARE GIVEN AT HORIZONTAL SETOUT POINT SHOWN ON KERB SETOUT DETAILS BELOW.
- EXTRA DETAIL FOR SETTING OUT IS AVAILABLE ON CAD FILE.



TRANSVERSE CONTRACTION JOINT
(TC ON PLAN)
SCALE 1:10



DO NOT SCALE THIS DRAWING
IF IN DOUBT - ASK!



No	Description	Date	By
A	FOR APPROVAL	19/02/18	JJH

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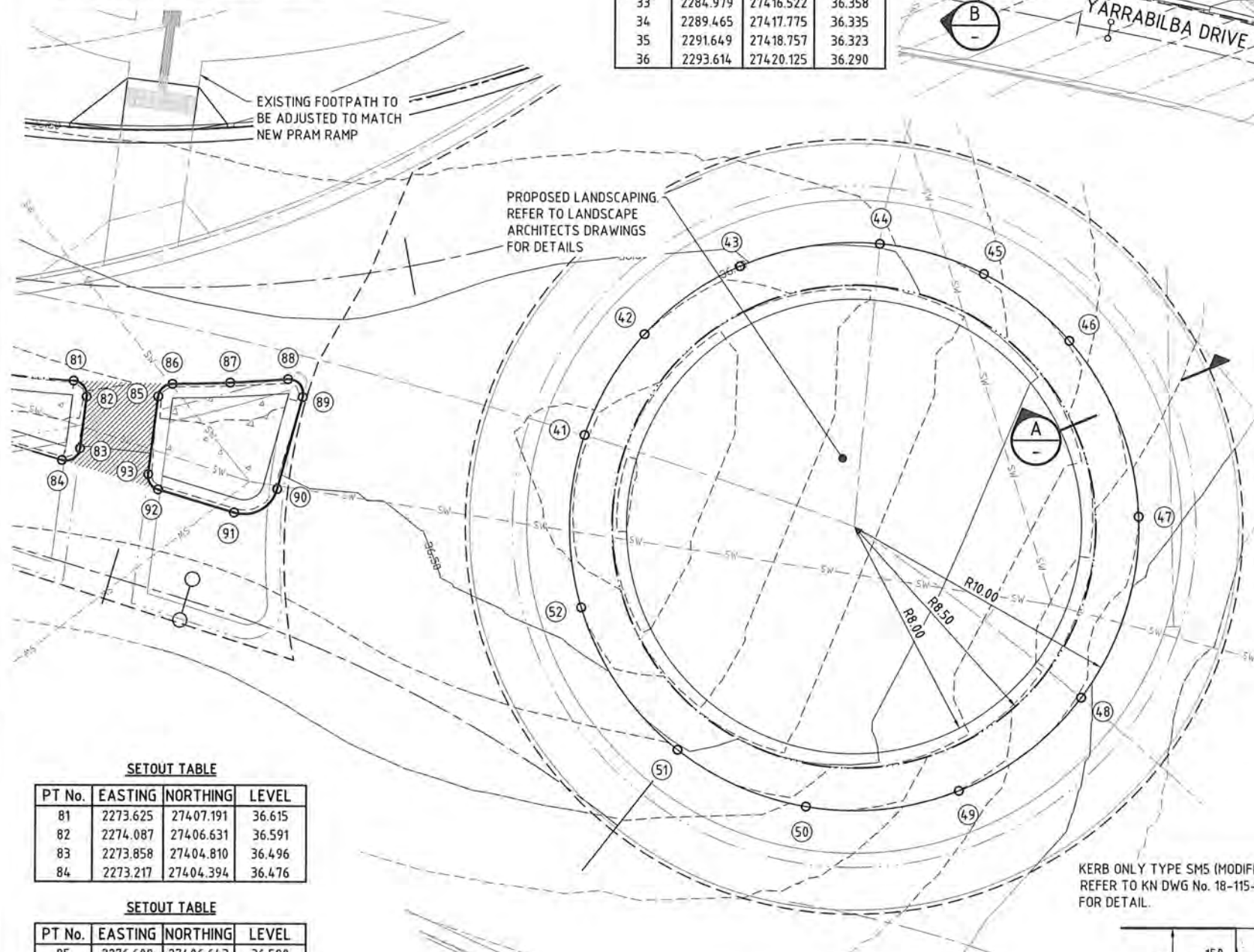
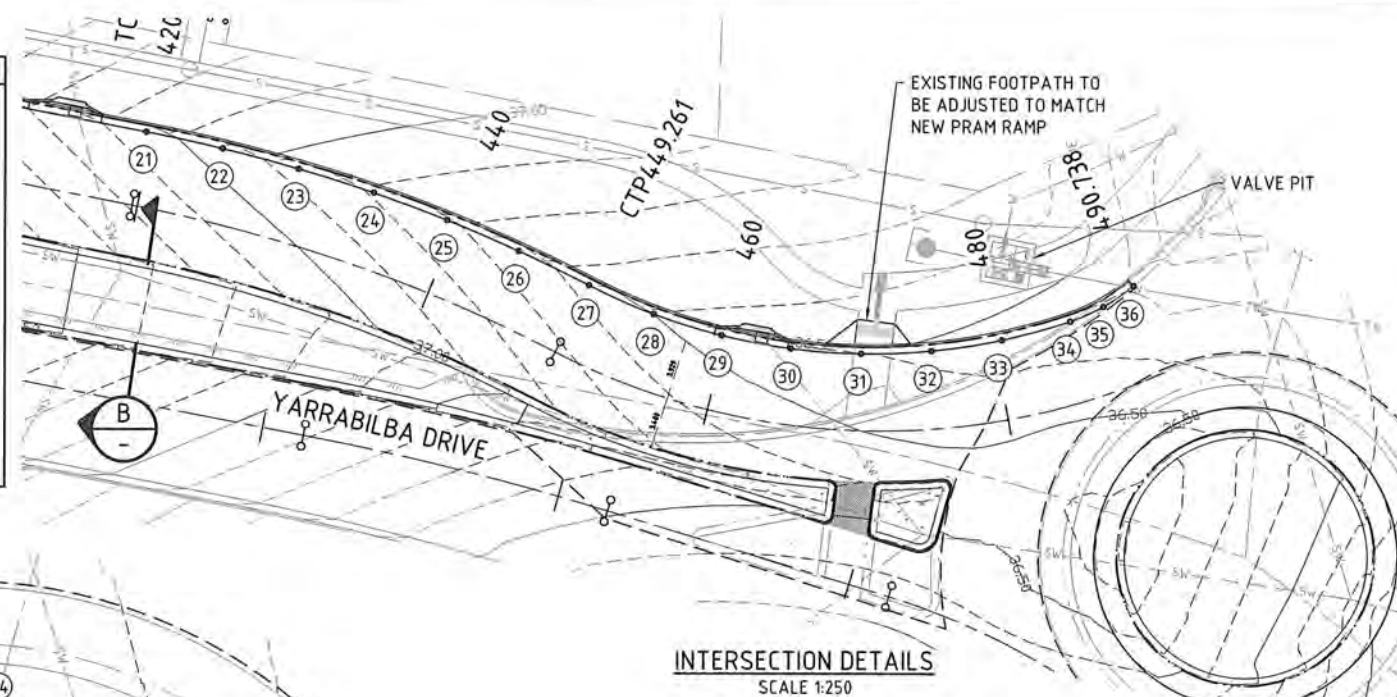
Client
YARRABILBA
DUPLICATION
YARRABILBA DRIVE
PHASE 3

Project
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Approved - RPEQ 12805 <i>RPEQ 12805</i>	19-2-18
Drawing Title INTERSECTION DETAILS SHEET 1	
Drawn JJH	Designed DJS
Checked RWM	Date FEB 18
Scale AS SHOWN	Sheet 19 of 28
Drawing No A1	Revision A

SETOUT TABLE			
PT No.	EASTING	NORTHING	LEVEL
41	2291.581	27405.315	36.614
42	2293.681	27408.880	36.552
43	2297.045	27411.291	36.489
44	2301.933	27412.095	36.414
45	2305.607	27411.041	36.320
46	2308.617	27408.685	36.225
47	2311.055	27402.489	36.058
48	2309.063	27396.136	36.014
49	2304.770	27392.846	36.150
50	2299.392	27392.274	36.286
51	2294.890	27394.265	36.409
52	2291.482	27399.264	36.561

SETOUT TABLE			
PT No.	EASTING	NORTHING	LEVEL
21	2228.636	27430.196	37.041
22	2233.680	27429.098	36.945
23	2238.666	27427.762	36.864
24	2243.584	27426.189	36.789
25	2248.421	27424.384	36.714
26	2253.166	27422.351	36.639
27	2257.809	27420.094	36.564
28	2262.064	27418.200	36.500
29	2266.508	27416.809	36.455
30	2271.083	27415.937	36.428
31	2275.727	27415.597	36.405
32	2280.380	27415.792	36.381
33	2284.979	27416.522	36.358
34	2289.465	27417.775	36.335
35	2291.649	27418.757	36.323
36	2293.614	27420.125	36.290



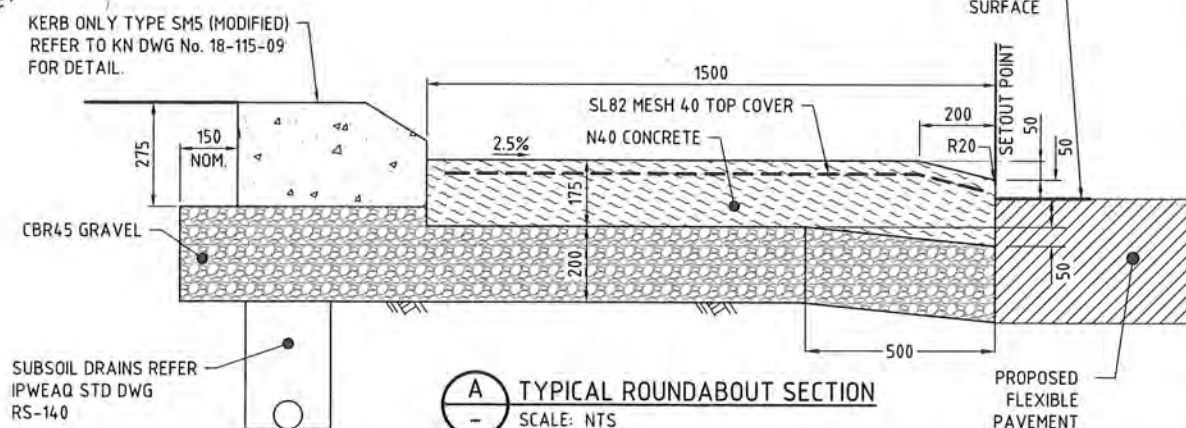
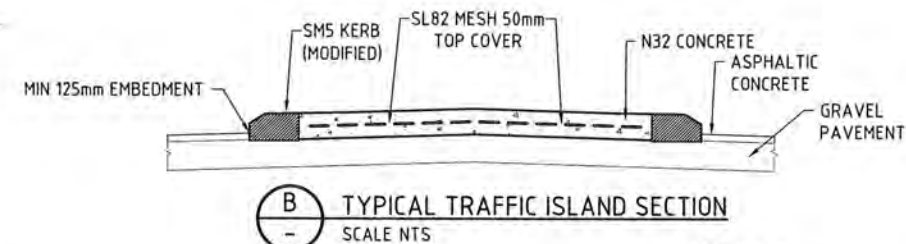
SETOUT TABLE			
PT No.	EASTING	NORTHING	LEVEL
81	2273.625	27407.191	36.615
82	2274.087	27406.631	36.591
83	2273.858	27404.810	36.496
84	2273.217	27404.394	36.476

SETOUT TABLE			
PT No.	EASTING	NORTHING	LEVEL
85	2276.608	27406.643	36.580
86	2277.102	27407.080	36.592
87	2279.124	27407.127	36.579
88	2281.141	27407.255	36.566
89	2281.665	27406.624	36.553
90	2280.776	27403.382	36.490
91	2279.269	27402.551	36.460
92	2276.614	27403.359	36.462
93	2276.264	27403.900	36.471

ROUNDAABOUT 'B'
SCALE 1:100

MEDIAN CUTOUT
 N32 CONCRETE
 150mm THICK SL92 FABRIC
 TOP COVER 40mm OVER 25mm SAND BEDDING
 100mm CBR 45 SUBBASE.

PARKING BAY CONCRETE
 N40 CONCRETE (f'cf=4.0MPa)
 135mm THICK SL82 FABRIC
 40 COVER OVER 25mm SAND BEDDING
 200mm CBR 45 SUBBASE.



NOTE
CRACKER JOINTS TO BE PROVIDED
AROUND ANNULAS @ 2.0m CTRS

SCALE
1:100 (A1 UNREDUCED)

DO NOT SCALE THIS DRAWING
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REVISIONS

No	Description	Date	By
A	FOR APPROVAL	19/02/18	JJH

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YARRABILBA
 DUPLICATION
 YARRABILBA DRIVE
 PHASE 3

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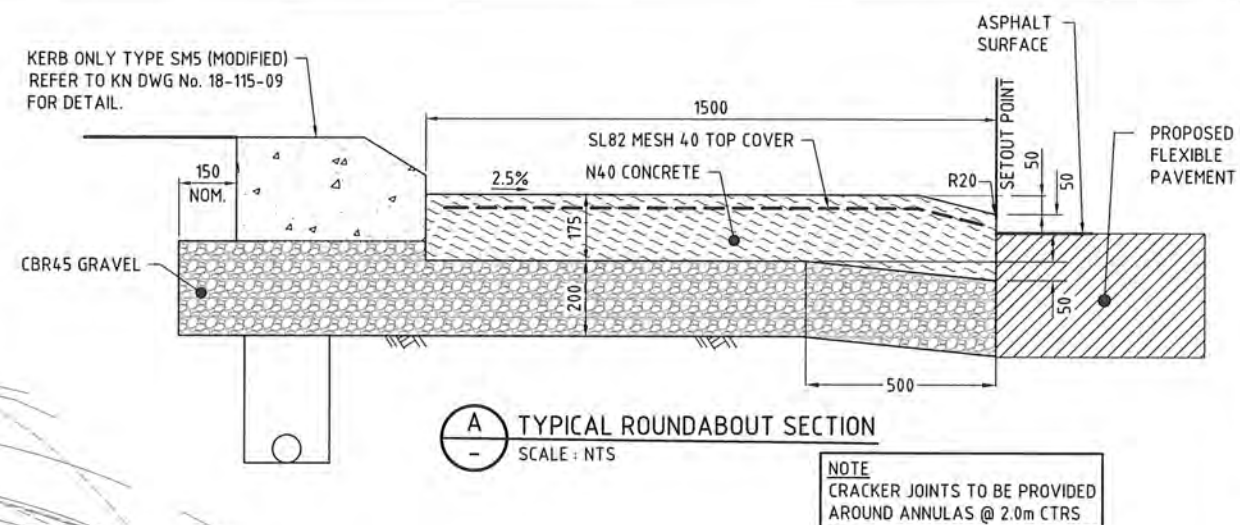
Approved - RPEQ 12805
[Signature] 19.2.18

**INTERSECTION DETAILS
SHEET 2**

Drawn JJH	Designed DJS	Checked RWM	Date FEB 18
Scale AS SHOWN	Drawing No 18-115-20	Revision A	Sheet 20 of 28

FOR INTERSECTION LEGEND & NOTES, REFER KN DWG 18-115-19

PT No.	EASTING	NORTHING	LEVEL
61	2387.292	27275.776	33.911
62	2384.684	27278.507	34.009
63	2383.092	27284.153	34.145
64	2384.941	27289.721	34.211
65	2388.921	27293.014	34.157
66	2394.014	27293.881	34.046
67	2398.886	27292.072	33.911
68	2402.197	27288.092	33.777
69	2403.045	27282.983	33.666
70	2401.238	27278.127	33.611
71	2397.248	27274.829	33.666
72	2392.143	27273.969	33.777



FOR INTERSECTION LEGEND & NOTES, REFER KN DWG 18-115-19

SCALE 
1 : 100 (A1 UNREDUCED)



N32 CONCRETE
150mm THICK SL92 FABRIC
TOP COVER 40mm OVER 25mm SAND BEDDING
100mm CBR 45 SUBBASE.

PARKING BAY CONCRETE



N40 CONCRETE ($f'_{cf}=4.0\text{MPa}$)
 135mm THICK SL82 FABRIC
 40 COVER OVER 25mm SAND BEDDING
 200mm CBR 45 SUBBASE.

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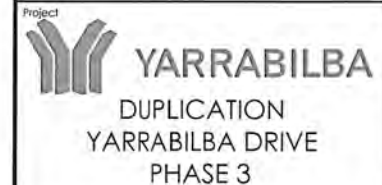
LOCALITY PLAN



REVISIONS

[illegible]

Client

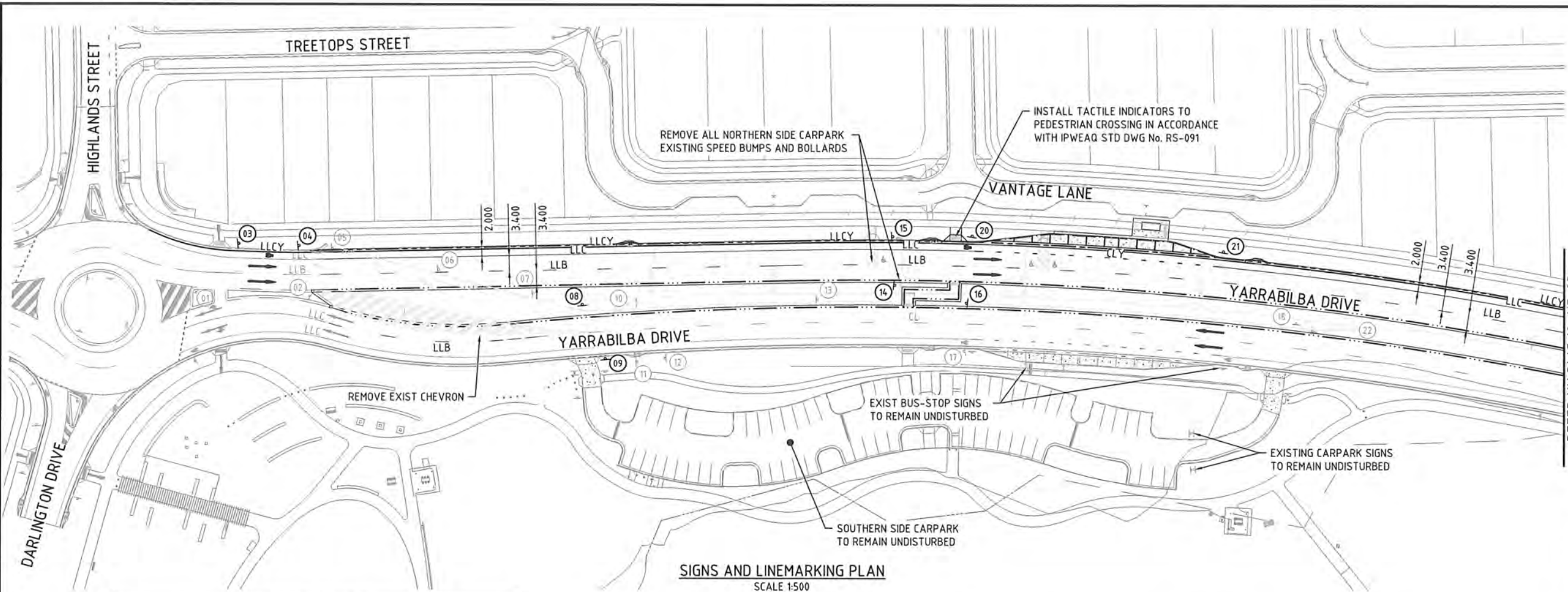


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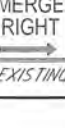
Approved - RPEQ 12805

Drawing Title
INTERSECTION DETAILS
SHEET 3

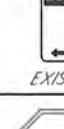
Drawn JJH	Designed DJS	Checked RWM	Date FEB 18
Scale AS SHOWN			Sheet 21 of 28
Drawing No A1 18-115-21		Revision A	



SIGNS AND LINEMARKING PLAN
SCALE 1:500

SIGN DETAILS			
LOCATION	CODE	SIGN	DESCRIPTION
01	D4-2-2	 EXISTING	EXISTING SIGN TO REMAIN
02	R2-3L	 EXISTING	EXISTING SIGN TO REMAIN
03	R7-1-4	 R7-1-4	INSTALL NEW SIGN AS SHOWN
04	R4-1	 R4-1	INSTALL NEW SIGN AS SHOWN
05	W4-9 & W8-15	 EXISTING  EXISTING	TAKE UP & STACK EXISTING SIGN

SIGN DETAILS			
LOCATION	CODE	SIGN	DESCRIPTION
06 07	W4-4	 EXISTING	TAKE UP & STACK EXISTING SIGN
08	R2-2B(L)	 R2-2B(L)	INSTALL NEW SIGN AS SHOWN
09	R2-14L	 R2-14L	INSTALL NEW SIGN AS SHOWN
10 11	W4-11	 EXISTING	TAKE UP & STACK EXISTING SIGN
12	T1-23	 EXISTING	TAKE UP & STACK EXISTING SIGN

SIGN DETAILS			
LOCATION	CODE	SIGN	DESCRIPTION
14	W6-3	 EXISTING	RELOCATE EXISTING SIGN FROM LOCATION 13
15 16	W6-3	 W6-3	INSTALL NEW SIGN AS SHOWN
17	W6-3	 EXISTING	EXISTING SIGN TO REMAIN
20	R5-20R	 EXISTING	RELOCATE EXISTING SIGN FROM LOCATION 18
21	R5-20L	 EXISTING	RELOCATE EXISTING SIGN FROM LOCATION 19
22	R1-1	 EXISTING	TAKE UP & STACK EXISTING SIGN



DO NOT SCALE THIS DRAWING
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LOCALITY PLAN

REVISIONS

Associated Consultants

RPS

Client

Project

YARRABILBA
DUPLICATION
YARRABILBA DRIVE
PHASE 3

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Approved - RPEQ J2805

Drawing Title

SIGNS AND LINEMARKING PLAN
SHEET 1

Drawn

JJH

Designed

DJS

Checked

RWM

Date

FEB 18

Scale

AS SHOWN

Sheet

22 of 28

A1

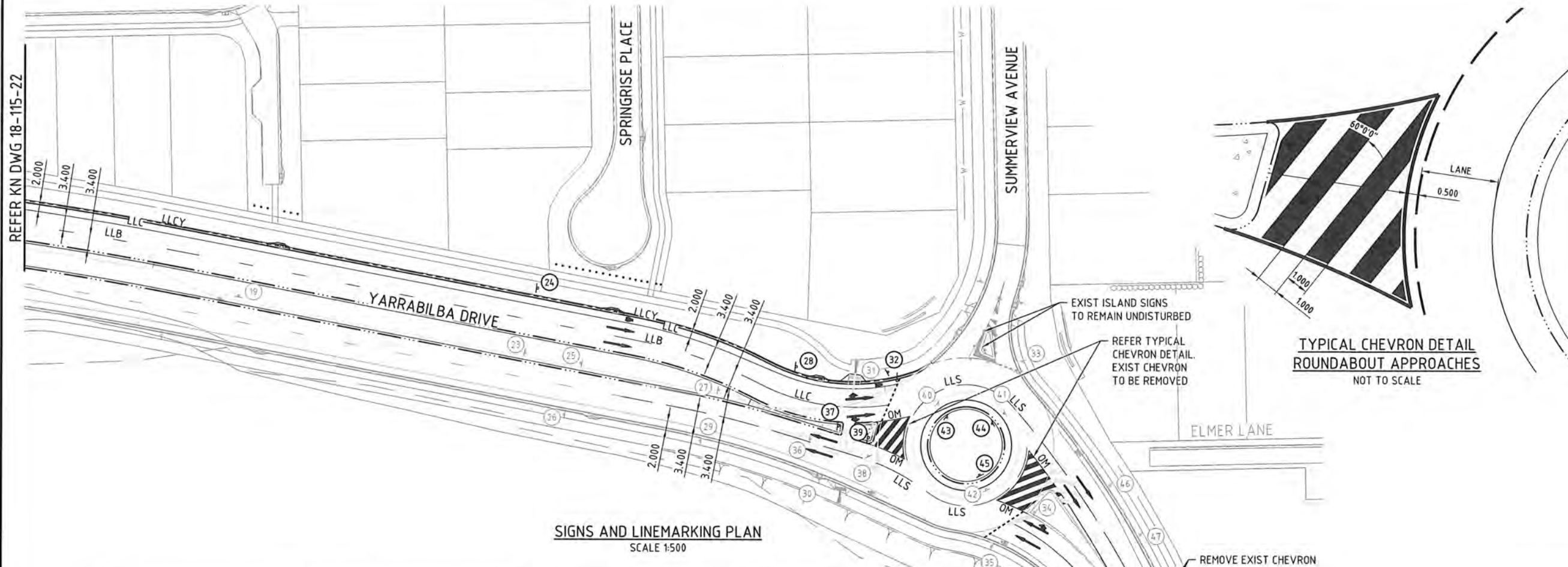
Drawing No

18-115-22

Revision

A

REFER KN DWG 18-115-22



SIGNS AND LINEMARKING PLAN
SCALE 1:500

SIGN DETAILS			
LOCATION	CODE	SIGN	DESCRIPTION
24	G2-2		RELOCATE EXISTING SIGN FROM LOCATION 23
25 26	W4-11		TAKE UP & STACK EXISTING SIGN
28	R7-1-4		RELOCATE EXISTING SIGN FROM LOCATION 27
29 47 48	R7-1-4		EXISTING SIGN TO REMAIN
30	R4-1		EXISTING SIGN TO REMAIN
32	R1-3		RELOCATE EXISTING SIGN FROM LOCATION 31

SIGN DETAILS			
LOCATION	CODE	SIGN	DESCRIPTION
33 34 35 50 51	R1-3		EXISTING SIGN TO REMAIN
37	R2-3L		RELOCATE EXISTING SIGN FROM LOCATION 36
39	D4-2-2		RELOCATE EXISTING SIGN FROM LOCATION 38
43 44 45	D4-1-1		RELOCATE EXISTING SIGN FROM LOCATION 40, 41 AND 42
46 49	W5-47 & R4-1		EXISTING SIGN TO REMAIN

NOTE:
ALL EXISTING SIGNS ASSOCIATED WITH THE EXISTING ROUNDABOUT AND ISLANDS TO BE RELOCATED TO THEIR NEW LOCATION BASED ON THE PROPOSED ROADWORKS AND IN ACCORDANCE WITH MUTCO STANDARDS.

DO NOT SCALE THIS DRAWING
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LOCALITY PLAN

REVISIONS

No	Description	Date	By
A	FOR APPROVAL	19/02/18	JJH

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Project

YARRABILBA
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YARRABILBA DRIVE
PHASE 3

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Approved - RPEQ 12805
RPEQ 19248

Drawing Title

SIGNS AND LINEMARKING PLAN
SHEET 2

Drawn	Designed	Checked	Date
JJH	DJS	RWM	FEB 18

Scale	Sheet
AS SHOWN	23 of 28

Drawing No	Revision
18-115-23	A

FOR SIGNS AND LINEMARKING LEGEND & GENERAL NOTES, REFER KN DWG 18-115-24

1: 500 (A1 UNREDUCED)

BICYCLE LANE NOTES

ALL PAVEMENT MARKING TO BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES - CURRENT EDITION.

SIGN NOTES

- ALL SIGNS TO BE INSTALLED IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES - CURRENT EDITION
 - THE LOCATIONS OF EXISTING SIGNS ARE INDICATED ON PLAN.
 - THE LOCATIONS OF PROPOSED SIGNS ARE INDICATED ON PLAN.
- ALL SIGNS TO BE INSTALLED WITH THE FOLLOWING MINIMUM CLEARANCES TO EDGE OF SIGN FACE:
- NO KERB - 600mm BEHIND GUIDEPOSTS
 - BARRIER KERB - 300mm FROM FACE OF KERB
 - MOUNTABLE KERB - 500mm FROM FACE OF KERB
- CHECK FOR ALL IN GROUND SERVICES PRIOR TO PLACING SIGN SUPPORTS.
 - SIGN SUPPORT CONSTRUCTION TO BE IN ACCORDANCE WITH MAIN ROADS STANDARD DRAWING 1368 FOR SIGN SUPPORTS AND FOR MULTIPLE SUPPORT. REUSE EXISTING SIGN SUPPORTS WHERE POSSIBLE.
 - EXACT LOCATION OF ALL SIGNS IS TO BE VERIFIED ON SITE WITH THE SUPERINTENDENT PRIOR TO INSTALLATION.

LONGITUDINAL LINES

	WIDTH (mm)
BARRIER LINE (BL1) ONE DIRECTION	80/80
BARRIER LINE (BL2) BOTH DIRECTIONS	80/80
LANE LINE (LLB) BROKEN	100
LANE LINE (LLS) SPECIAL PURPOSE	100
LANE LINE (LLC) CONTINUOUS	100
EDGE LINE (EL)	100
CONTINUITY LINE (CL)	200
CONTINUITY LINE YELLOW (CLY)	200mm
TURN LINE (TL)	100
UNBROKEN YELLOW NO STOPPING LINE (LLCY)	100mm
OUTLINE MARKING (OM)	150
STOP LINE (SL)	300
GIVE WAY LINE (GWL)	300
PEDESTRIAN CROSSING LINE (PCL)	150
PROPOSED ARROWS	
BICYCLE LANE PAVEMENT SYMBOL	

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LOCALITY PLAN



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KN GROUP PTY LTD
 CONSULTING ENGINEERS

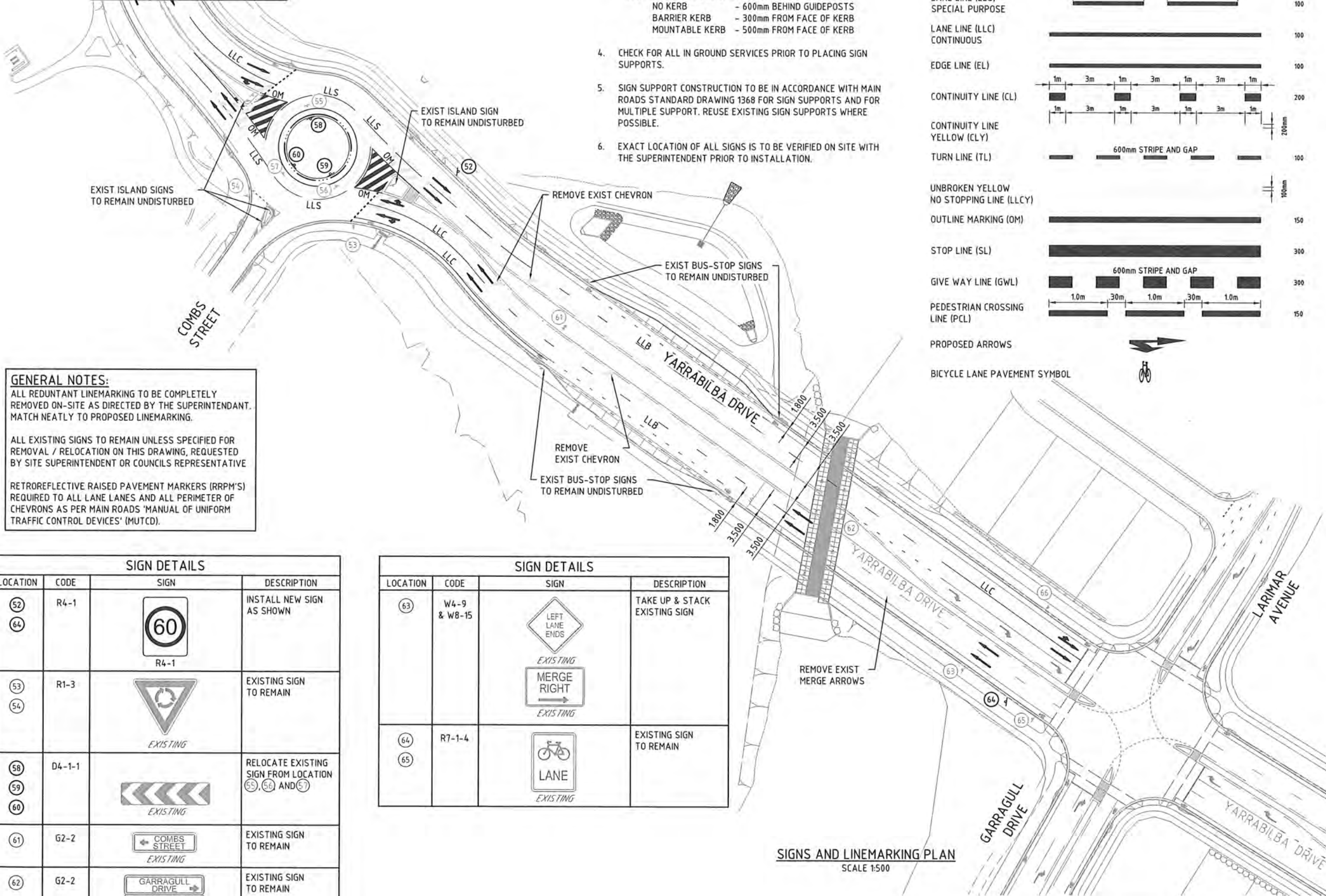
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Approved - RPEQ 12805
 19-2-18

Drawing Title
SIGNS AND LINEMARKING PLAN
 SHEET 3

Drawn	Designed	Checked	Date
JJH	DJS	RWM	FEB 18
Scale	Drawing No	Sheet	Revision
AS SHOWN	18-115-24	24 of 28	A

REFER KN DWG 18-115-23



GENERAL NOTES:
 ALL REDUNDANT LINEMARKING TO BE COMPLETELY REMOVED ON-SITE AS DIRECTED BY THE SUPERINTENDANT. MATCH NEATLY TO PROPOSED LINEMARKING.

ALL EXISTING SIGNS TO REMAIN UNLESS SPECIFIED FOR REMOVAL / RELOCATION ON THIS DRAWING, REQUESTED BY SITE SUPERINTENDENT OR COUNCIL'S REPRESENTATIVE

RETROREFLECTIVE RAISED PAVEMENT MARKERS (RRPM'S) REQUIRED TO ALL LANE LANES AND ALL PERIMETER OF CHEVRONS AS PER MAIN ROADS 'MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES' (MUTCD).

SIGN DETAILS

LOCATION	CODE	SIGN	DESCRIPTION
(52) (64)	R4-1		INSTALL NEW SIGN AS SHOWN
(53) (54)	R1-3		EXISTING SIGN TO REMAIN
(58) (59) (60)	D4-1-1		RELOCATE EXISTING SIGN FROM LOCATION (55), (56) AND (57)
(61)	G2-2		EXISTING SIGN TO REMAIN
(62)	G2-2		EXISTING SIGN TO REMAIN

SIGN DETAILS

LOCATION	CODE	SIGN	DESCRIPTION
(63)	W4-9 & W8-15		TAKE UP & STACK EXISTING SIGN
(64)	R7-1-4		EXISTING SIGN TO REMAIN
(65)			EXISTING SIGN TO REMAIN

SIGNS AND LINEMARKING PLAN
 SCALE 1:500

SCALE
 10 5 0 10 20 30 40 50m
 1:500 (A1 UNREDUCED)

LEGEND

IR150	IR150	PROPOSED 150mm IRRIGATION
TW	TW	PROPOSED TRUNK WATER
TW	TW	EXISTING TRUNK WATER
IR150	IR150	EXISTING 150mm IRRIGATION
S	S	EXISTING SEWER RETICULATION
W	W	EXISTING WATER RETICULATION
TW	TW	EXISTING TRUNK WATER RETICULATION
SW	SW	EXISTING STORMWATER DRAINAGE
EUG	EUG	EXISTING ELECTRICAL (UNDERGROUND)
*		DEFINES LIVE CONNECTION REQUIRED BY LOGAN WATER. REFER DETAIL

SCHEDULE OF PIPES AND FITTINGS (EXCLUDES LIVE WORKS FITTINGS)

PIPE SIZE	LENGTH(m)	VALVE	FIRE HYDRANT	DUCK FOOT HYDRANT	TEMP FIRE HYDRANT	1 1/4° BEND	22 1/2° BEND	45° BEND	90° BEND	PRETAPPED CONNECTOR
Ø600 DUCTILE IRON (PN20)	375.283	-	-	-	-	-	-	-	-	-

NOTES:

- DUCTILE IRON (DICI) PIPEWORK UNDER ROAD CARRIAGEWAYS DENOTES DICI CLASS PN35.
- ALL TRENCH REINSTATEMENT TO BE IN ACCORDANCE WITH SEQ-WAT-1204-1.



VERTICAL GEOMETRY GRADE
VERTICAL GEOMETRY LENGTH (M)

VERTICAL CURVE LENGTH (M)
VERTICAL CURVE RADIUS (M)

DATUM

DEPTH	FINISHED SURFACE	INVERT LEVEL	EXISTING SURFACE	PEGGED CHAINAGE
				374.251
				400.000
				425.000
				446.679
				475.000
				500.000
				527.184
				530.608
				550.000
				565.158

Ø600 TRUNK WATER MAIN
SCALE - 1:500 (H)
1:50 (V)

SCALE A 1:500
(Horiz.)

SCALE B 1:50
(Vert.)

(A1 UNREDUCED)

DO NOT SCALE THIS DRAWING
IF IN DOUBT - ASK!



LOCALITY PLAN



REVISIONS

No	Description	Date	By
A	FOR APPROVAL	19/02/18	J.J.H.

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YARRABILBA
DUPLICATION
YARRABILBA DRIVE
PHASE 3

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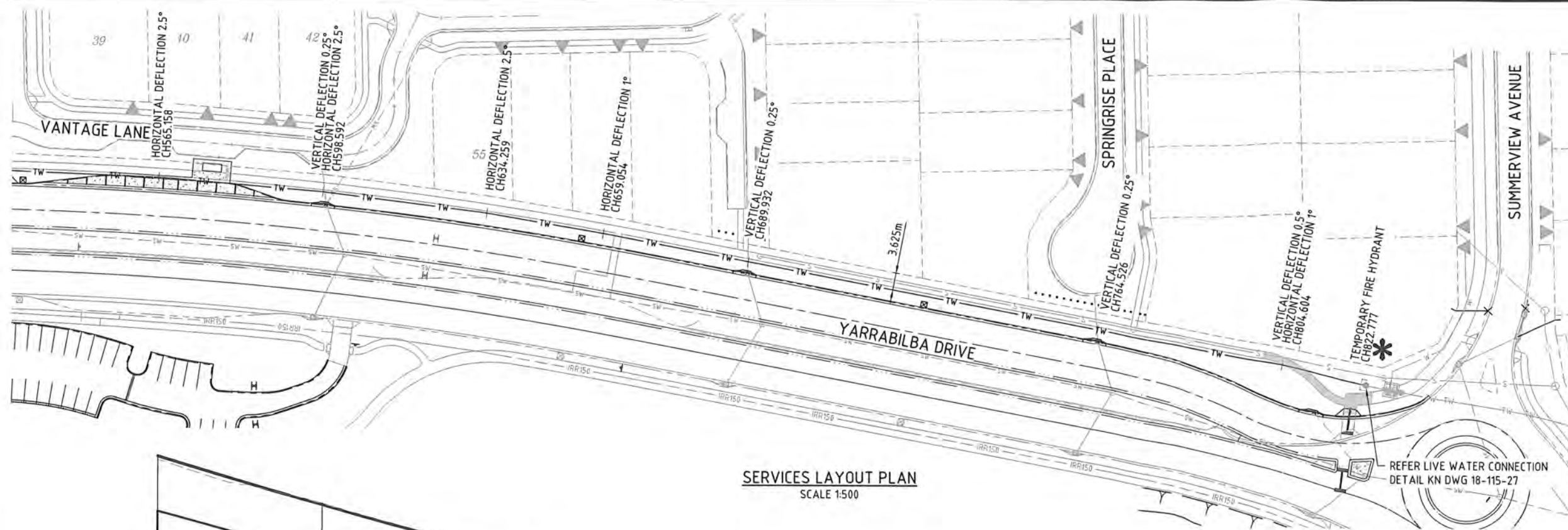
Approved - RPEQ 12805

Drawing Title

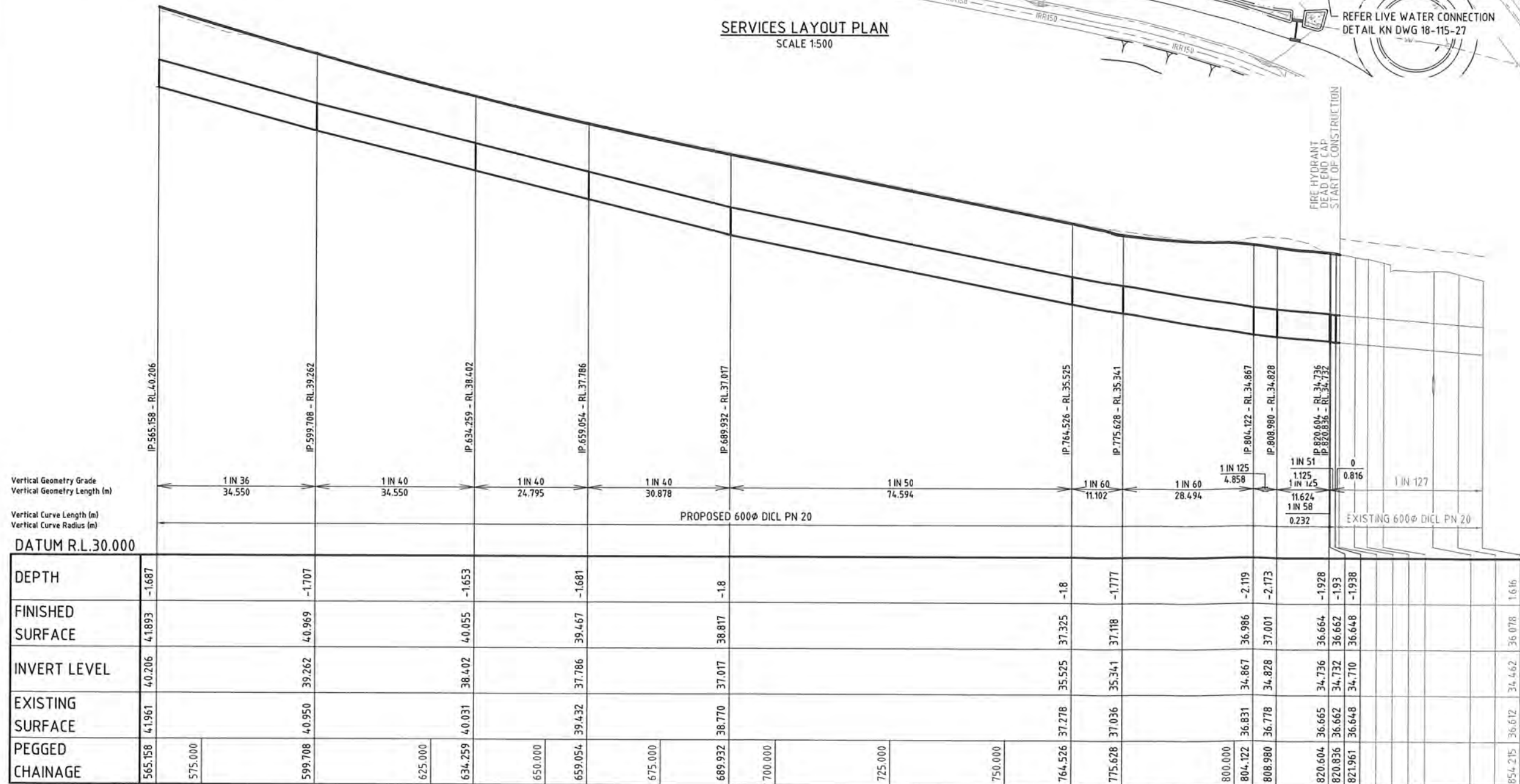
TRUNK WATER
LAYOUT PLAN
SHEET 1

Drawn	Designed	Checked	Date
J.J.H.	D.J.S.	R.W.M.	FEB 18
Scale	AS SHOWN	Sheet	25 of 28
Drawing No	18-115-25	Revision	A

M:\2018\18115 Yarrabilba Drive Duplication Highland - Summerview\Engineering\Kead\18-115-25-27-SERV\CE5.dwg Plotted by: DS on 19/02/2018 7:38:48 PM



SERVICES LAYOUT PLAN
SCALE 1:500

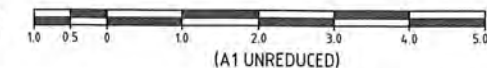


Ø600 TRUNK WATER MAIN
SCALE - 1:500 (H)
1:50 (V)

SCALE A 1:500
(Horiz.)



B 1:50
(Vert.)



DO NOT SCALE THIS DRAWING
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NORTH

LOCALITY PLAN

REVISIONS

No	Description	Date	By
A	FOR APPROVAL	19/02/18	JJH

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Client

Project

YARRABILBA
DUPLICATION
YARRABILBA DRIVE
PHASE 3

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192-18

Drawing Title

TRUNK WATER
LAYOUT PLAN
SHEET 2

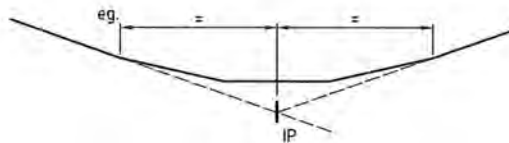
Drawn	Designed	Checked	Date
JJH	DJS	RWM	FEB 18

Scale	Sheet
AS SHOWN	26 of 28

Drawing No	Revision
18-115-26	A

1. TRENCHES 1500 OR MORE DEEP SHALL BE TIMBERED TO THE REQUIREMENTS OF THE WORKPLACE HEALTH AND SAFETY ACT.
2. TRENCH WIDTH SHALL NOT BE LESS THAN THE DIMENSION GIVEN.
3. SANDFILL SHALL BE USED FOR ALL PIPES AND CONDUITS UNLESS OTHERWISE DIRECTED BY SUPERINTENDENT.
4. SANDFILL SHALL BE PLACED OVER THE PIPE IN LAYERS NOT MORE THAN 75 THICK FOR PIPE TO 225 DIA. AND MORE MORE THAN 150 THICK FOR PIPES GREATER THAN 225 DIA.
5. SELECTED BACKFILL SHALL BE FREE OF CLAY LUMPS RETAINED ON A 75mm SIEVE AND SHALL NOT CONTAIN STONES RETAINED ON A 13.2mm SIEVE IN THE CASE OF UPVC PIPES OR ON A 26.5mm SIEVE IN THE CASE OF PIPES OTHER THAN UPVC.
6. BACKFILL SHALL BE PLACED IN A MANNER THAT AVOIDS IMPACT LOADING ON PIPES.
7. PIPES SHALL BE LAID SO THAT THE BARRELS BEAR FIRMLY AND EVENLY ON THE BEDDING MATERIAL. PIPE SOCKETS SHALL BE ENTIRELY FREE FROM BEARING UNTIL AFTER THE PIPELINE HAS BEEN JOINTED. BEFORE BACKFILLING, OPEN SPACES UNDER JOINTS SHALL BE FILLED WITH MATERIAL AS ORDERED FOR PIPELINE BEDDING AND ALL BEDDING SHALL BE COMPACTED USING APPROVED TAMPERS TO ENSURE SOLID AND UNIFORM SUPPORT OVER THE WHOLE LENGTH OF THE PIPELINE.
8. MINIMUM COVER SHALL BE 1200 IN ROADS, 900 ELSEWHERE UNO.
9. PIPELINES SHALL BE CONSTRUCTED TO UNIFORM GRADES BETWEEN THE LEVELS SHOWN ON THE DRAWINGS.
10. IN TOPSOILED AREAS PROVIDE DEPTH OF TOPSOIL TO MATCH EXISTING ADJACENT TO TRENCH, MINIMUM 150mm DEEP.
11. IN EXISTING ROAD/ROAD SHOULDER TRENCHING PROVIDE REPLACEMENT PAVEMENT TO MATCH EXISTING PAVEMENT TO MAIN ROAD'S REQUIREMENTS. PAVEMENT DETAIL SHOWN IS INDICATIVE ONLY. PROVIDE 150 OVERLAP OF THE WEARING COURSE ONTO THE UNDISTURBED PAVEMENT EACH SIDE OF THE TRENCH.

1. SITE REFERENCE DATUM IS P.S.No.138667 AT E4028.4.42, N8274.199, R.L.19.695.
2. ALL WATER MAINS SHALL BE DICL (AS 2280) CLASS K9 RRJ PIPE POLYETHYLENE (AS 3680) WRAPPED, UNO. IN ADDITION, ALL FLANGED PIPE SHALL BE DICL (AS 2280) CLASS K12
3. ALL PIPE FITTINGS SHALL BE DICL (AS 22800 / CIL (AS 1488) POLYETHYLENE (AS 3680) WRAPPED.
4. ALL VALVES AND HYDRANTS SHALL BE DI / CL WITH FUSION BONDED EPOXY (FBE) COATING AND LINING OR EQUIVALENT. VALVES TO BE RESILIENT SEATED WITH WEDGES FULLY ENCAPSULATED IN RUBBER. FLANGES TO BE DRILLED TO AS 4087.
5. COVERS AND MARKERS ARE REQUIRED FOR ALL VALVES AND HYDRANTS AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH PINE RIVERS SHIRE COUNCIL (PRSC) STANDARD DRAWINGS.
6. DETAILS FOR A "WORK AS CONSTRUCTED PLAN" SHALL BE RECORDED IN ACCORDANCE WITH PINE SHIRE COUNCIL REQUIREMENTS PRIOR TO BACKFILLING OF TRENCHES.
7. NO WORK SHALL BE BACKFILLED UNTIL PERMISSION IS GRANTED BY THE SUPERINTENDENT.
8. ALL BOLTS, NUTS AND WASHERS MUST BE GRADE 316 STAINLESS STEEL. ALL UNDERGROUND BOLTED JOINTS TO BE 'DENSO' WRAPPED.
9. CONTOURS SHOWN ON THESE PLANS ARE EXISTING SURFACE CONTOURS AT 1.0m INTERVAL.
10. ALL FITTINGS SHALL BE PROVIDED WITH THRUST BLOCKS. REFER TO NOTES AND DETAILS ON THIS DRAWING.
11. ALL WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH PINE RIVERS SHIRE COUNCIL STANDARD DRGS AND SPECIFICATIONS.
12. BASE SURVEY PREPARED BY PMM GROUP PTY LTD.
13. NOT ALL SERVICES HAVE NECESSARILY BEEN SHOWN. THE LOCATION OF SERVICES ON THESE PLANS ARE APPROXIMATE ONLY. NO RESPONSIBILITY IS TAKEN FOR THE ACCURACY OR COMPLETENESS OF THIS INFORMATION. NO WORK IS TO BE UNDERTAKEN WITHOUT CONSULTING THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF THE WORK. DEPTH OF SERVICES AT POSSIBLE CONFLICT POINTS ARE TO BE CONFIRMED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ABOVE GROUND SERVICES AS SHOWN ON THE DRGS HAVE BEEN LOCATED BY FIELD SURVEY. ALL UNDERGROUND SERVICES HAVE BEEN PLOTTED FROM THE RELEVANT AUTHORITY'S RECORDS.
14. ALL EXISTING FEATURES (eg. DRIVEWAYS, GARDENS, PATHS etc.) ARE TO BE REINSTATED WHERE DISTURBED BY THE WORKS. ALLOW FOR SUPPORT OF POWER POLES/STAYS, FENCES etc. ADJACENT TO TRENCHES.
15. WHERE BEND FITTINGS ARE NOT SHOWN, MAKE CHANGES IN DIRECTION USING PIPE JOINT DEFLECTIONS. MAKE EQUAL NUMBER AND SIZE OF PIPE DEFLECTIONS EACH SIDE OF CHAINAGE SHOWN (MAX. DEFLECTION 3° PER JOINT). IF SHOWN ON LONG SECTIONS IS AT INTERSECTIONS POINT (PI). JOINT DEFLECTIONS MAY ALSO BE REQUIRED AT FITTINGS TO MEET ALIGNMENT AND LEVELS AS SPECIFIED.



16. MARKERS ARE REQUIRED FOR ALL HYDRANTS AND VALVES IN ACCORDANCE WITH L.L.C. - MAIN MARKER POSTS REQUIRED AS PER L.L.C. -
17. ALL BOLTS, NUTS AND WASHERS MUST BE GRADE 316 STAINLESS STEEL.
18. MINIMUM TRENCH WIDTH AND MINIMUM BEDDING AS PER L.L.C.

No.	DESCRIPTION	DIA. WATER
1(A)	LOGAN WATER TO REMOVE DEAD END CAP AND TEMPORARY TEST POINT.	ø600
1(B)	LOGAN WATER INSTALL 6.0m OF PIPE WITH 2 x GIBALTS TO SUIT AND MAKE CONNECTION GOOD.	

1. ALL FITTINGS SHALL BE PROVIDED WITH THRUST BLOCKS FORMED AGAINST SOLID GROUND TO TRANSFER UNBALANCED FORCES FROM FITTING TO SOLID GROUND.
2. CONCRETE N25 IN ACCORDANCE WITH AS 1379 AND AS 3600.
3. NOMINAL THRUST AREA 'N' SHALL BE EFFECTED BY CLASS N25 CONCRETE OVER FULL LENGTH OF FITTING, AND EXTENDING IN DEPTH FROM THE BOTTOM OF THE TRENCH TO 65MM ABOVE THE TOP OF THE FITTING.
4. MINIMUM AREA OF BLOCKS FOR REDUCERS SHALL BE EQUAL TO THE DIFFERENCE IN CORRESPONDING AREA FOR DEAD ENDS OF EACH END DIAMETER OF REDUCER.
5. FOR MINIMUM THRUST AREA FOR ANCHORAGE AND THRUST BLOCK SIZE REFER TO COUNCIL STD DRAWINGS.
ID DICL Ø600 LINED = 629mm
ID MSCL Ø660 OD LINED = 624mm
THRUST BLOCK TABLE APPLICABLE FOR BOTH PIPES.
6. SHAPE AND DIMENSIONS OF CONCRETE BLOCKS SHOWN ARE DIAGRAMMATIC ONLY.
7. FOR VERTICAL THRUST ACTING DOWNWARDS, THE SAFE BEARING LOADS OF THE VARIOUS SOILS MAY BE TAKEN AS TWICE THOSE FOR HORIZONTAL THRUSTS.
8. SLUICE VALVES Ø375 OR LARGER SHALL BE INSTALLED IN VALVE PITS.
9. WHEN PLACING THE CONCRETE ON A UPVC PIPE, CARE SHALL BE TAKEN TO AVOID ENCASEING THE PIPE COMPLETELY. THE MAXIMUM ENCASEMENT SHALL BE 1809.
10. WHERE UPVC RUBBER RING JOINTED PIPES ARE USED, THE NORMAL PRACTICE OF ANCHORING OF BENDS, TEES, DEAD ENDS AND REDUCERS SHALL BE FOLLOWED.
11. WHEN SETTING UPVC PIPES IN CONCRETE A MEMBRANE OF POLYTHENE, PVC OR FELT SHALL SURROUND THE PIPE AND FITTING TO PERMIT PIPE MOVEMENT IN THE CONCRETE.
12. UNLESS OTHERWISE SPECIFIED, CONCRETE ANCHORAGES ARE REQUIRED FOR ALL VALVES Ø200 AND ABOVE. THRUST AREA SHALL BE AS FOR DEAD ENDS.
13. REDUCERS TO HAVE A MINIMUM AREA FOR ANCHORS EQUAL TO DIFFERENCE IN CORRESPONDING AREA FOR DEAD ENDS OF EACH DIAMETER OF REDUCER.
14. MINIMUM COVER TO PIPE SHALL BE 600MM 15. ALL DIMENSIONS IN MILLIMETRES.

RC1. ALL CONCRETE WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH A.S. 3600 AND THE SPECIFICATION. A COPY OF BOTH DOCUMENTS SHALL BE KEPT ON SITE.

RC2. UNLESS NOTED OTHERWISE, MINIMUM CONCRETE CLASS AND COVER TO REINFORCEMENT SHALL BE -

ELEMENT	CONCRETE CLASS	COVER # (mm)
TYPICAL (UNO)	N32	40

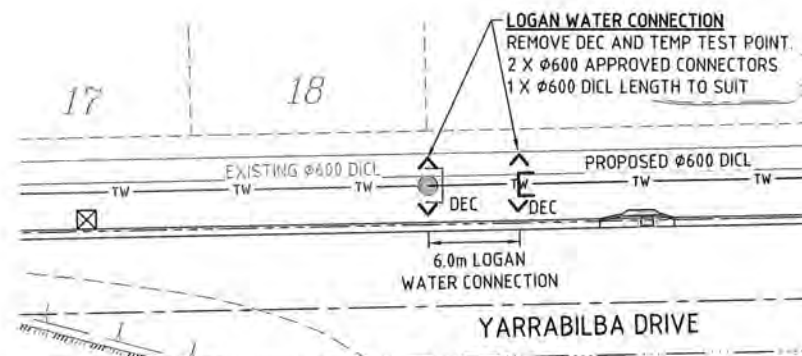
*FOR CONVENTIONAL STEEL REINFORCEMENT
FOR EXAMPLE, CONCRETE DESIGNATED CLASS N32E3 - SHALL MEAN

N -	NORMAL CLASS
32 -	CHARACTERISTIC CYLINDER STRENGTH OF 32 MPa AT 28 DAYS.
E3 -	EARLY AGE STRENGTH AS REQUIRED BY A.S. 3600

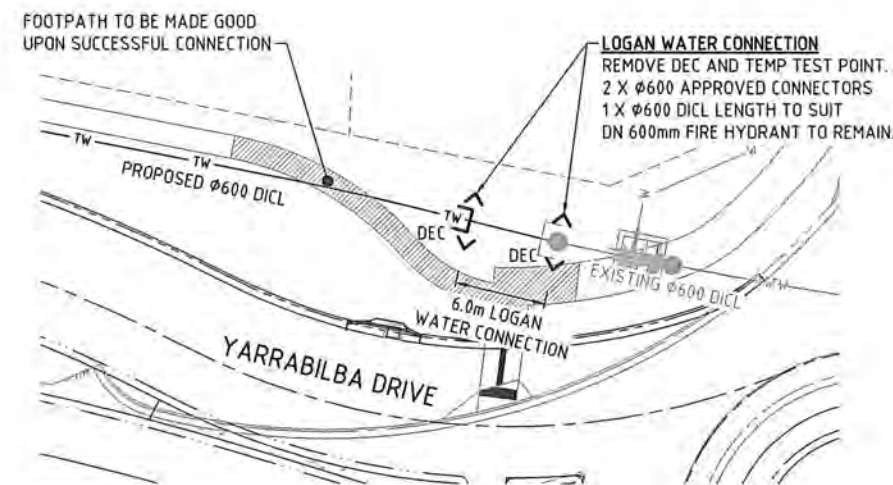
- RC3. ALL CONCRETE SHALL HAVE A SLUMP OF 80mm MAXIMUM AND MAXIMUM AGGREGATE SIZE OF 20mm UNLESS NOTED OTHERWISE.
- RC4. REINFORCEMENT DESIGNATIONS ARE AS FOLLOWS -
- N - DENOTES DEFORMED ROUND BAR TO AS/NZS 4671.
 - R - DENOTES PLAIN ROUND BAR TO A.S. 1302
 - L - DENOTES HARD DRAWN WIRE FABRIC TO AS 4671.
- RC5. MINIMUM LAP LENGTHS TO REINFORCEMENT SHALL BE AS FOLLOWS -
- BARS REINFORCEMENT - 40 BAR DIAMETERS
 - FABRIC REINFORCEMENT - 1+1/2 MESHERS
- RC6. NO PENETRATIONS, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL ENGINEER'S DRAWINGS SHALL BE MADE WITHOUT THE STRUCTURAL ENGINEER'S APPROVAL.
- RC7. BAR REINFORCEMENT SHALL BE BENT IN ACCORDANCE WITH A.S. 3600 TO THE SHAPES SHOWN ON THE DRAWINGS. ALL N AND L GRADE REINFORCEMENT SHALL BE BENT COLD, OR AS APPROVED BY THE ENGINEER.
- RC8. WELDING OF REINFORCEMENT WILL ONLY BE PERMITTED WHERE SHOWN ON THE DRAWINGS OR AS APPROVED BY THE ENGINEER.
- RC9. DO NOT BUILD ANY MASONRY ON SUSPENDED SLABS OR BEAMS UNTIL ALL PROPPING HAS BEEN REMOVED.
- RC10. ALL CONCRETE SHALL BE PLACED, VIBRATED AND CURED IN ACCORDANCE WITH A.S. 3600 OR THE SPECIFICATION.
- RC11. ALL TRIMMER BARS SHOWN ON THE DRAWINGS SHALL BE N16 AND PROJECT 500mm MINIMUM BEYOND THE FACE OF THE OPENING ON BOTH SIDES.
- RC12. CONCRETE TESTING SHALL BE UNDERTAKEN ON A PROJECT ASSESSMENT BASIS.
- RC13. CONCRETE EDGES SHALL BE ARRISED.

1. THE BASE SLAB HAS BEEN DESIGNED TO FOUN IN MATERIAL WITH A MINIMUM SAFE BEARING VALUE (SBV) OF 100 KPa.
2. THE FOUNDATION MATERIAL SHALL BE INSPECTED BY THE ENGINEER BEFORE CONCRETE FOR FOOTINGS IS PLACED.
3. THE FOOTING BASES SHALL BE FINISHED LEVEL AND BE CLEAR OF LOOSE OR SOFT MATERIAL OVER EXCAVATED FOOTINGS SHALL BE BROUGHT TO LEVEL WITH CLASS N15 CONCRETE.
4. ALL WATER SHALL BE PUMPED FROM THE FOOTING BASES BEFORE CONCRETE IS PLACED. UNLESS THE USE OF A TREMIE IS APPROVED. ALL CONCRETE WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH FS. A.S. 3600.

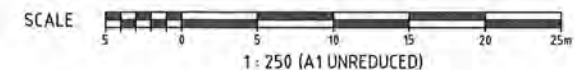
1. ANY AMBIGUITY OR DISCREPANCY SHALL BE REFERRED TO THE MANAGING CONTRACTOR FOR CLARIFICATION BEFORE WORK PROCEEDS.
2. THE SUB CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STABILITY OF THE STRUCTURE UNTIL ITS COMPLETION AND SHALL EXCESSIVE LOADING.
3. DESIGN INFORMATION UNLESS NOTED OTHERWISE - $\gamma = 0.66$ ADOPTED ACTIVE EARTH PRESSURE CO-EFFICIENT, $K_a = 20 \text{ KN/m}^2$ FILL MATERIAL DENSITY
4. ENSURE THAT NO PART OF THE STRUCTURE IS OVERSTRESSED BY DESIGN LIVE LOADS -



LIVE CONNECTION - YARRABILBA DRIVE
SCALE 1:250



LIVE CONNECTION - YARRABILBA DRIVE
SCALE 1:250

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RM 19248

TRUNK WATER NOTES

Drawn JJH	Designed DJS	Checked RWM	Date FEB 18
Scale AS SHOWN			Sheet 27 of 28
A1	Drawing No 18-115-27		Revision A

Reviewed By: Robert Mander

Date: 16 Feb 2018

Safety in Design Analysis

- Complete Safety in Design Analysis by populating the table where applicable with all of the relevant safety issues for the project. For example:

☒ Positioning of new services adjacent to existing live services ☒ Construction adjacent to existing road carriageways ☒ Pedestrians ☒ Civil Construction Workers ☒ Maintenance Workers ☒ Work Place Health and Safety Constraints ☐ Unusual material handling ☐ Falls from heights ☒ Underground Services (existing) ☒ Electrical Service Installation ☒ Gas Service Installation ☒ Communication Installation ☒ Traffic Signal Installation ☒ Landscape Workers ☒ Line marking Workers ☒ Excavation – open cut trenching – Trench excavation depths ☐ Tunnel Boring ☒ Confined Spaces ☒ Lifting of loads ☒ Unloading of materials and storage ☐ Storage of hazardous materials ☒ Geotechnical investigation – works ☐ Bulk Earthworks	☒ Slope Stability ☒ Dust Control ☒ Erosion and Sediment Control/Management ☐ Sediment Basin Construction ☐ Wetland Construction ☒ Working under traffic Project Specific Design Elements: ☐ Acid Sulfate Soils Management
--	---

☐ List all relevant safety studies

The following table summarises the safety in design issues considered.

RISK ASSESSMENT AND CONTROL

Risk Assessment			
Select one category from each of the columns below that best represents the likely outcome if the potential hazard actually did occur. For each consequence consider the most likely outcome and not the 'absolute worst' case.			
Consequence		Likelihood	
A	Death – major environmental damage	1	Certain
B	Permanent Disability – severe environmental damage	2	Probable
C	Lost Time Injury – moderate environmental damage	3	Possible
D	Medical Treatment Injury – minor environmental damage	4	Unlikely
E	First Aid Treatment	5	Very Unlikely

RISK RATING

Certain - means an event or situation that is happening more or less all the time, including continuous situations

Permanent Disability – means a disability, such as loss of a limb or eyesight, loss of hearing, chronic skin disorder, chronic back disorder, emphysema, and the like

Section of Works	Identify any Potential Incident or Hazard	Consequence	Likelihood	Risk Rating	Risk Control Measures	Consequence	Likelihood	Residual Risk Rating (after design applied)	Risk Manager
Earthworks Material Investigation	Geotechnical Investigation	C	3	S	SWMS required by Contractor	D	3	M	Contractor
Road Works	Pedestrians Injury	D	3	M	TMP to be provided by Contractor to exclude pedestrians from work site	E	3	L	Contractor
	Civil Construction Workers – Injury	A	4	H	TMP and SWMS required for all activities	C	2	S	Contractor
	Maintenance Workers	A	4	H	TMP and SWMS required for all activities	C	3	S	Contractor
	Underground Services (Existing)	A	3	H	DBYD information to be sort prior to design. Existing to be located by survey if applicable to design. All existing services to be located and depths confirmed prior to commencement. SWMS to be provided by Contractor	C	2	S	Designer/ Contractor
Working adjacent to existing infrastructure	Conflict between construction equipment / personnel and live infrastructure in particular Power lines	B	4	S	All existing services highlighted in the documentation. Contractor to complete DBYD search before commencing works. SWMS to be provided by Contractor	C	4	M	Designer/ Contractor
Service trench/ pipe installation	Location of all trenches to provide clearance to all other services and all structures or battered embankments	A	4	H	Mains located with safe working clearance to existing pressure mains, structures and battered embankments	C	4	M	Designer
	Trench depth	A	4	M	Depth of trenches minimized for both safety and cost efficiency	C	4	M	Designer
Works within Confined Spaces	Construction of stormwater, sewer, water and wetland structures	A	4	M	Contractor to ensure works undertaken in a manner complying with safe work method statements and appropriate for specific conditions on site.	D	5	L	Contractor
Silt and Erosion Control	Public access to water retaining temporary sediment basins	A	5	S	Protection measures – that is fencing of all water retaining structures with side slopes greater than 1 in 5 as described in International Erosion Control Association (Australasian) Table B9	C	4	M	Designer/ Contractor

H: High Risk S: Significant Risk

M: Moderate Risk L: Low Risk

Read the Risk Rating from the matrix below:

Risk Assessment Matrix	A	B	C	D	E
1	H	H	H	S	S
2	H	H	S	S	M
3	H	H	S	M	L
4	H	S	M	L	L
5	S	S	M	L	L

Probable – means an event or situation that occurs or is likely to occur about ten times or more per year

Possible – means an event or situation that occurs or is likely to occur about once per year

Unlikely – means an event or situation that occurs or is likely to occur less frequently than once every ten years

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LOCALITY PLAN



REVISIONS

[illegible]

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Approved - RPEQ 12805

Drawing Title

SAFETY IN DESIGN

Drawn JJH	Designed DJS	Checked RWM	Date FEB 18
Scale AS SHOWN			Sheet 28 of 28
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