

KING'S LEIGH ESTATE, WERRIBEE

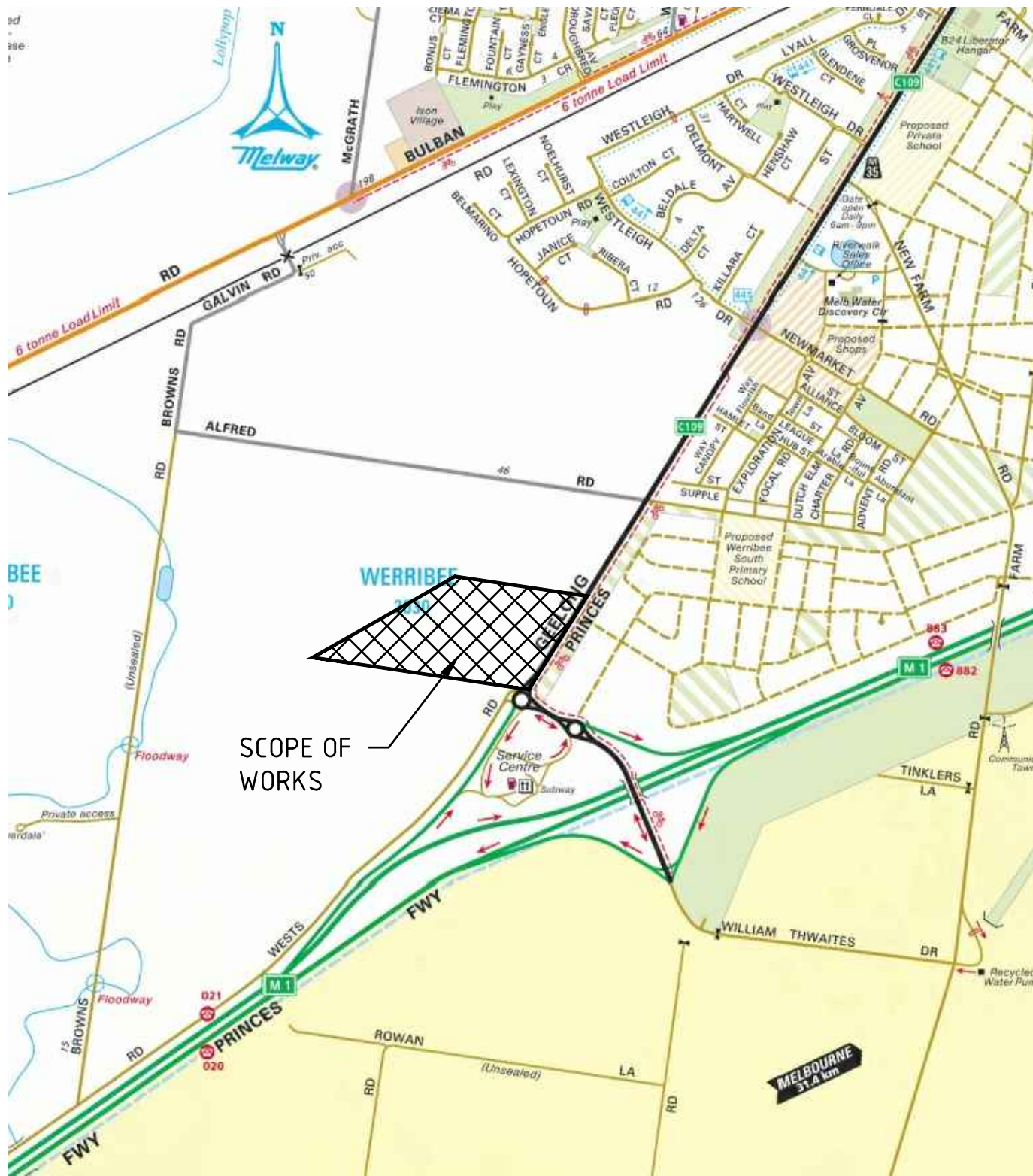
STAGE 5

WERRIBEE PROJECT PTY LTD

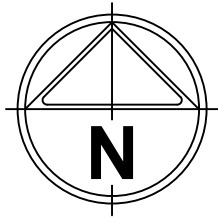
GENERAL NOTES:

- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA) ZONE 55.
- ALL EXISTING SURFACE LEVELS SHOWN ON THE ENGINEERING DRAWINGS HAVE BEEN INTERPOLATED FROM A DIGITAL TERRAIN MODEL. THESE LEVELS HAVE BEEN USED AS THE BASIS FOR ALL ENGINEERING DESIGN AND DETERMINATION OF QUANTITIES AND ARE ACCURATE TO WITHIN ±0.05m.
- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH AS2124-1992 GENERAL CONDITIONS OF CONTRACT, THE ROAD & DRAINAGE SPECIFICATION, APPROVED MUNICIPALITY SPECIFICATIONS AND STANDARD DRAWINGS AND TO THE SATISFACTION OF THE SUPERINTENDENT AND THE MUNICIPAL ENGINEER OR HIS REPRESENTATIVE.
- ROAD CHAINAGES REFER TO ROAD CENTRELINES. CHAINAGES FOR INTERSECTIONS AND CUL-DE-SACS REFER TO THE LIP OF KERB
- THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL LOCAL SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
- WHERE REQUIRED ANY BUILDINGS, TROUGHS, FENCES AND OTHER STRUCTURES ON SITE ARE TO BE REMOVED AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL IS TO BE INCLUDED IN THE OVERALL EARTHWORKS FIGURE UNLESS A SPECIFIC ITEM FOR REMOVAL IS DENOTED IN THE SCHEDULE.
- ALL EXCAVATED ROCK AND SURPLUS SPOIL TO BE REMOVED AND DISPOSED OFF SITE UNLESS NOTED OTHERWISE.
- ALL FILLING ON LOTS AND WITHIN ROAD RESERVES GREATER THAN 200mm IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN THE FINAL LEVELS SHOWN ON THE DRAWINGS.
- FILLING MATERIAL IS TO BE IN ACCORDANCE WITH THE SPECIFICATION, AS 3798-2007 & TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT.
- ALL BATTERS SHALL BE 1 IN 6, UNLESS OTHERWISE SHOWN.
- NO FILL OR STOCKPILING OF MATERIAL IS TO BE PLACED ON ANY RESERVE FOR PUBLIC OPEN SPACE UNLESS OTHERWISE DIRECTED OR APPROVED BY THE SUPERINTENDENT.
- TBM'S TO BE RE-ESTABLISHED BY THE LICENSED SURVEYOR IF FOUND TO BE MISSING AT THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR CARE AND MAINTENANCE OF T.B.M.'S THEREAFTER.
- AT LEAST 3 DAYS PRIOR TO COMMENCING WORK ON EXCAVATIONS IN EXCESS OF 1.50m DEEP, A NOTIFICATION FORM MUST BE SENT TO WORKSAFE. THE CONTRACTOR IS TO COMPLY WITH WORKSAFE, THE MINES (TRENCHES) REGULATION 1982, THE MINES ACT 1958 AND OCCUPATIONAL HEALTH AND SAFETY ACT 1985, 2004.
- ALL SERVICE TRENCHES UNDER DRIVEWAYS, FOOTPATHS AND PARKING BAYS TO BE BACKFILLED WITH CLASS 2 CRUSHED ROCK. SERVICE TRENCHES LESS THAN 750mm BEHIND KERB AND CHANNEL OR PAVED TRAFFIC AREAS ARE ALSO TO BE BACKFILLED WITH COMPACTED CLASS 2 CRUSHED ROCK.
- WHERE REQUIRED, ALL EXISTING DAMS, DEPRESSIONS AND DRAINS ARE TO BE BREACHED, DRAINED, DESLUDGED AND SHALL BE EXCAVATED TO A CLEAN FIRM BASE. THE SURFACE SHALL BE INSPECTED, APPROVED AND LEVELED BY THE ENGINEER PRIOR TO COMMENCEMENT OF FILLING. THE FILL SHALL BE APPROVED SELECTED ON SITE MATERIAL OR APPROVED IMPORTED MATERIAL. THE FILL SHALL BE PLACED UNDER CONTROLLED MOISTURE CONDITIONS IN ACCORDANCE WITH THE SPECIFICATION
- NO BLASTING TO BE CARRIED OUT WITHIN THE MUNICIPALITY WITHOUT OBTAINING COUNCIL'S PERMISSION.
- GAS AND WATER CONDUITS ARE TO BE ,
Ø50mm . CLASS 12 P.V.C. - SINGLE SERVICE
Ø100mm . CLASS 12 P.V.C. - DUAL SERVICE (DRINKING AND NON DRINKING WATER)
- WITH THE FOLLOWING MINIMUM COVER TO FINISHED SURFACE LEVELS:
ROAD PAVEMENT - 0.80m
VERGE, FOOTPATHS - 0.45m
- ALL SERVICE CONDUIT TRENCHES UNDER ROAD PAVEMENTS TO BE BACKFILLED IN ACCORDANCE WITH RELEVANT MUNICIPALITY OR ROAD AUTHORITY SPECIFICATION.
- AG/SUBSOIL DRAIN TO BE LAID BEHIND KERB WHERE REQUIRED IN ACCORDANCE WITH THE COUNCIL STANDARD DRAWINGS AND CONNECTED TO UNDERGROUND DRAINAGE.
- ALL STORMWATER DRAINS ARE TO BE CLASS '2' R.C. PIPES UNLESS OTHERWISE SHOWN. ALL R.C. JOINTS ARE TO BE RUBBER RING JOINTED (R.R.J.).
- CENTRELINES OF ALL EASEMENT DRAINS ARE OFFSET 1.0m OR 2.2m (WHERE OUTSIDE OF SEWER) FROM THE PROPERTY LINE UNLESS SHOWN OTHERWISE.
- WHERE CURVED PIPE ALIGNMENTS ARE SHOWN ON THE FACE PLANS THEY ARE TO BE LAID PARALLEL TO THE BACK OF KERB, EXCEPT WHERE A RADIUS HAS BEEN SPECIFICALLY NOMINATED. CURVED PIPES ARE TO BE APPROVED BY COUNCIL AND IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
- WATER TAPPINGS TO BE LOCATED IN CENTRE OF ALLOTMENTS UNLESS OTHERWISE SHOWN.
- TELSTRA IS TO BE NOTIFIED 7 DAYS PRIOR TO PLACEMENT OF CONCRETE WORKS.
- PAVEMENT DEPTHS MAY BE MODIFIED AS DIRECTED BY THE SUPERINTENDENT. PAVEMENT TO BE BOXED OUT TO MINIMUM DEPTH DENOTED, INSPECTED AND IF

- SUBGRADE IS IN QUESTION, FURTHER TESTING CARRIED OUT TO DETERMINE FINAL PAVEMENT DEPTH.
- WHERE PAVEMENT IS CONSTRUCTED ON FILLING, FILL MATERIAL IS TO BE APPROVED BY THE SUPERINTENDENT AND COUNCIL. FILLING TO BE CONSTRUCTED IN LAYERS 150mm THICK WITH COMPACTION ACHIEVING 95% AUSTRALIAN STANDARD DENSITY.
 - WHEN PAVEMENT EXCAVATION IS IN ROCK, ALL LOOSE MATERIAL (INCLUDING ROCKS AND CLAY) MUST BE REMOVED. THE SUB-GRADE MUST THEN BE REGULATED WITH COUNCIL APPROVED MATERIAL.
 - LINEMARKING AND SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH AS 1742-1 AND AS 1742-2 UNLESS NOTED OTHERWISE. STREET SIGNS ARE TO BE INSTALLED IN ACCORDANCE WITH COUNCIL STANDARDS.
 - ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE SUPPLIED AND MAINTAINED IN ACCORDANCE WITH AS 1742-3.
 - TACTILE GROUND SURFACE INDICATORS ARE TO BE INSTALLED IN ACCORDANCE WITH THE DISABILITY DISCRIMINATION ACT AND RELEVANT COUNCIL STANDARD DRAWINGS.
 - CONTRACTOR TO PROVIDE AN ENVIRONMENTAL MANAGEMENT PLAN INCLUDING SILT AND SEDIMENT RUNOFF PROTECTION ETC. PRIOR TO THE COMMENCEMENT OF WORKS.
 - ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS OTHERWISE SHOWN. IF ROAD AND DRAINAGE CONSTRUCTION NECESSITATES THEIR REMOVAL, WRITTEN PERMISSION MUST BE OBTAINED FROM THE SUPERINTENDENT.
 - TREES NOT SPECIFIED FOR REMOVAL ARE TO BE PROTECTED WITH APPROPRIATE EXCLUSION FENCING PRIOR TO COMMENCEMENT OF ANY WORKS.
 - THE CONTRACTOR IS REQUIRED TO OBTAIN A 'PERMIT TO WORK' FROM MELBOURNE WATER'S SURVEILLANCE OFFICER AT THE PRE-COMMENCEMENT MEETING. THE CONTRACTOR IS REQUIRED TO ENSURE THAT THE 'PERMIT TO WORK' IS KEPT UP TO DATE FOR THE DURATION OF THE CONTRACT.



LOCALITY PLAN
COPYRIGHT MELWAY PUBLISHING Pty. Ltd.
REPRODUCED WITH PERMISSION



LEGEND

DESCRIPTION	EXISTING	PROPOSED
WATERMAIN - DRINKING WATER		
WATERMAIN - NON DRINKING WATER		
UNDERGROUND ELECTRICITY		
TELECOMMUNICATIONS - OPTIC FIBRE		
GAS MAIN		
SEWERAGE NETWORK		
STORMWATER DRAIN & PIT		
STORMWATER DRAINAGE PROPERTY INLETS		
STORMWATER JUNCTION PIT		
HOUSE DRAIN		
STORMWATER DRAINAGE PIT NUMBER		
BATTER		
SURFACE CONTOUR MINOR		
SURFACE CONTOUR MAJOR		
SURFACE LEVEL		
BATTER LEVEL (TOP / TOE)		
LOT GRADE		
SIGN AND POST		
STREET SIGN		
PERMANENT SURVEY MARK		
TEMPORARY BENCH MARK		
LIMIT OF WORKS		
TREE TO BE REMOVED		
FENCE - GENERAL		
GAS & WATER CONDUIT		
FILLING GREATER THAN 0.20m		



WARNING
BEWARE OF UNDERGROUND/OVERHEAD SERVICES
THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.

!!! BEWARE !!!
W.O.P.L. IN THE VICINITY OF THE WORKS. "NO GO" ZONE EXTENDS 3.0m EITHER SIDE OF THE PIPE ALIGNMENT. NO CONSTRUCTION OR ACCESS IS TO BE UNDERTAKEN WITHIN THE NO GO ZONE WITHOUT PRIOR APPROVAL FROM VIVA. PIPELINE INSPECTORS MAY BE REQUIRED TO BE IN ATTENDANCE WHILST WORKS COMPLETED IN VICINITY OF W.O.P.L. INFRASTRUCTURE. VIVA INSPECTORS CAN BE CONTACTED ON (03) 9391 6568, 0418 386 764 or (03) 9392 1547. IN THE EVENT OF EMERGENCY CALL 1800 809 691.

SHEET LIST

SHEET NO	SHEET TITLE
CR100	ROAD & DRAINAGE FACE SHEET
CR200	ROAD & DRAINAGE DETAIL PLAN
CR201	ROAD & DRAINAGE SERVICES PLAN
CR300	ROAD LONGITUDINAL SECTIONS
CR301	ROAD LONGITUDINAL & CROSS SECTIONS
CR400	ROAD CROSS SECTIONS
CR401	
CR402	
CR500	ROAD & DRAINAGE INTERSECTION DETAILS
CR501	ROAD & DRAINAGE INTERSECTION DETAILS
CR600	DRAINAGE LONGITUDINAL SECTIONS
CR601	DRAINAGE LONGITUDINAL SECTIONS AND PIT SCHEDULE
CR700	ROAD & DRAINAGE STANDARD DETAILS
CR800	ROAD & DRAINAGE SIGNAGE & LINEMARKING PLAN

file name: 30186CR100.dwg, layout name: CR100, plotted by: Michael Shirley, file location: G:\30186\ACAD\plot date: 24/05/2017, 2:33 PM Sheet 1 of 14 Sheets

Scale

NOT TO SCALE



© Spiire Australia Pty Ltd All Rights Reserved
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

spiire

469 La Trobe Street PO Box 16084 Melbourne
Victoria 3007 Australia T 61 3 9993 7888
spiire.com.au ABN 55 050 029 635



KING'S LEIGH BY DACLAND

Designed
M.SHIRLEY
Authorised
M.TOOMER-SMITH

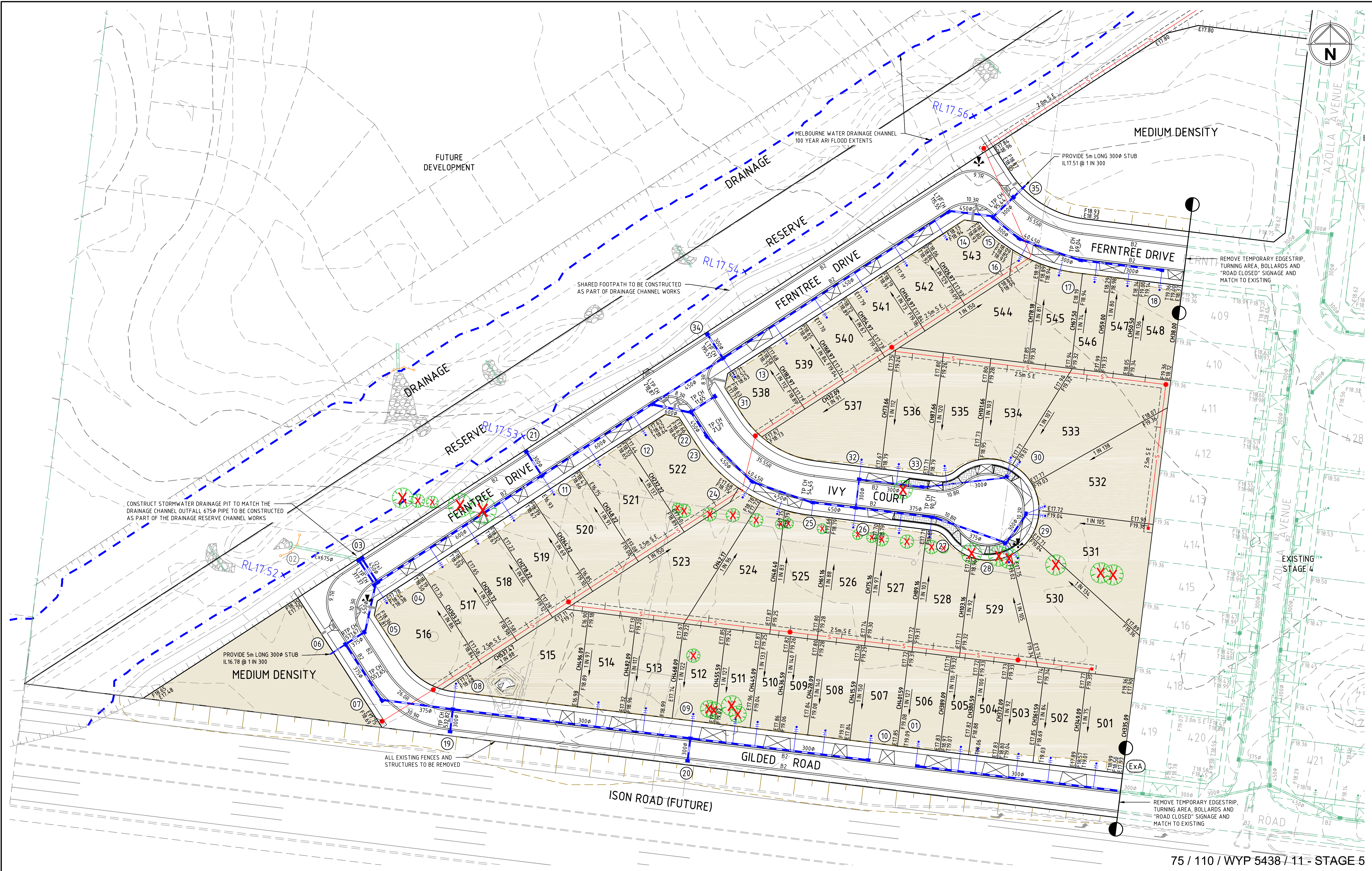
Checked
D.CAMERON
Date
22-12-16

KING'S LEIGH ESTATE, WERRIBEE
STAGE 5
ROAD & DRAINAGE
FACE SHEET
WYNDHAN CITY COUNCIL
WERRIBEE PROJECT PTY LTD

CONSTRUCTION Drg No **301186CR100** Rev **1**

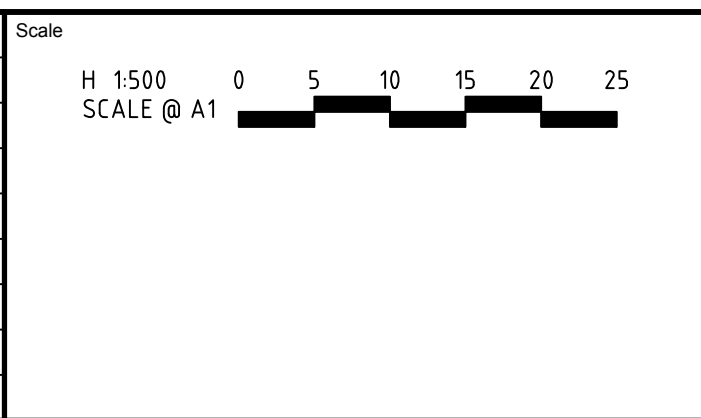
75 / 110 / WYP 5438 / 11 - STAGE 5

file name: 30186CR200.dwg, layout name: C0200, plotted by: Michael Shirley,
file location: G:\30186\30186\ACAD\plot date: 24/05/2017 2:36 PM Sheet 1 of 14 Sheets



75 / 110 / WYP 5438 / 11 - STAGE 5

0	ISSUED FOR CONSTRUCTION	M.T.S.	24-03-17
Rev	Amendments	Approved	Date



AS/NZS ISO 9001
AS/NZS ISO 14001
AS/NZS ISO 45001

© Spiire Australia Pty Ltd All Rights Reserved
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

spiire

469 La Trobe Street PO Box 16084 Melbourne
Victoria 3007 Australia T 61 3 9993 7888
spiire.com.au ABN 55 050 029 635

KING'S LEIGH BY DACLAND

Designed
M.SHIRLEY

Checked
D.CAMERON

Authorised
M.TOOMER-SMITH

Date
22-12-16

**KING'S LEIGH ESTATE, WERRIBEE
STAGE 5
ROAD & DRAINAGE
DETAIL PLAN**

WYNDHAN CITY COUNCIL
WERRIBEE PROJECT PTY LTD

CONSTRUCTION

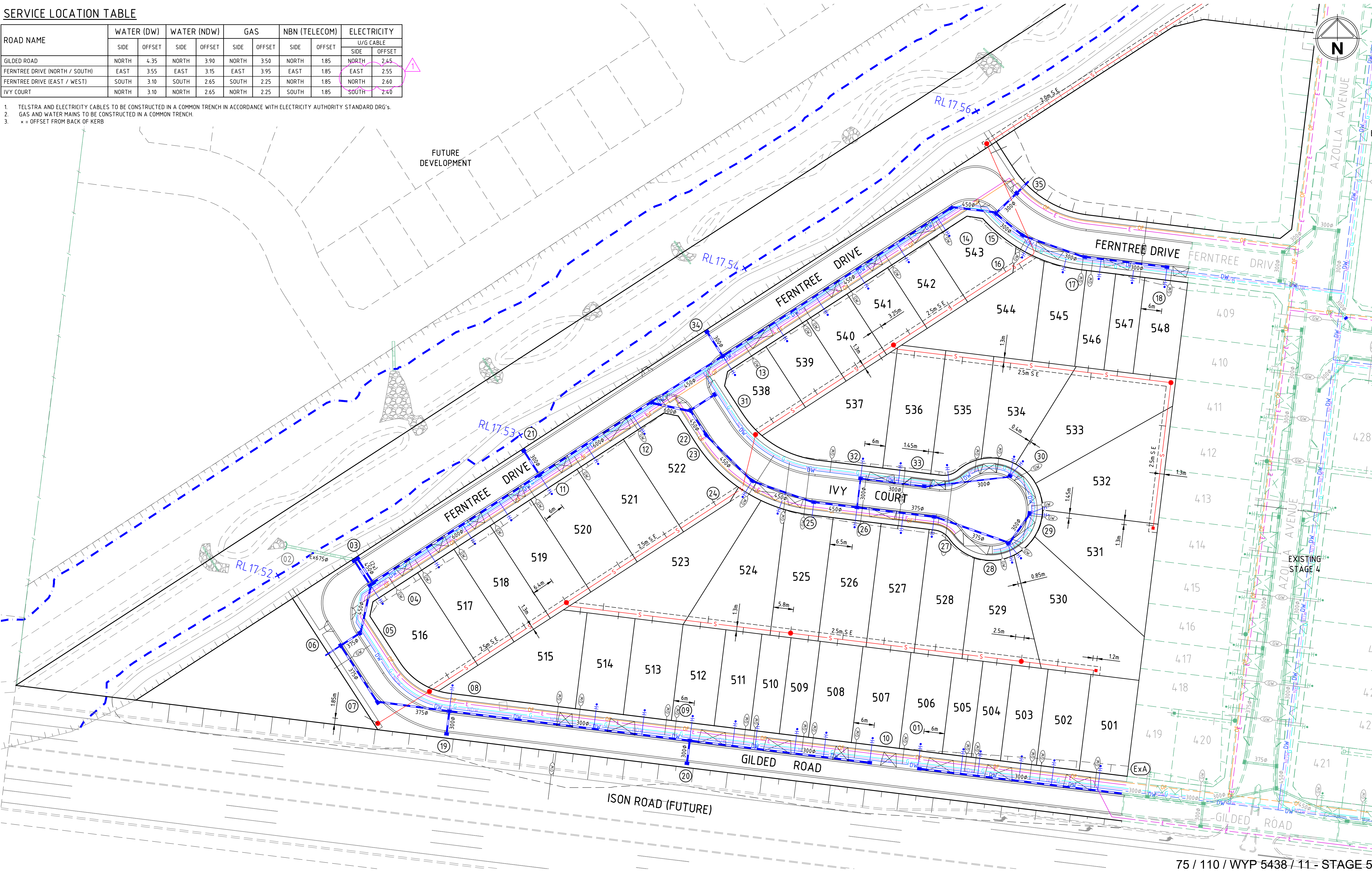
Drg No
301186CR200

Rev
0

SERVICE LOCATION TABLE

ROAD NAME	WATER (DW)		WATER (NDW)		GAS		NBN (TELECOM)		ELECTRICITY	
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET
GILDED ROAD	NORTH	4.35	NORTH	3.90	NORTH	3.50	NORTH	1.85	NORTH	2.45
FERNTREE DRIVE (NORTH / SOUTH)	EAST	3.55	EAST	3.15	EAST	3.95	EAST	1.85	EAST	2.55
FERNTREE DRIVE (EAST / WEST)	SOUTH	3.10	SOUTH	2.65	SOUTH	2.25	NORTH	1.85	NORTH	2.60
IVY COURT	NORTH	3.10	NORTH	2.65	NORTH	2.25	SOUTH	1.85	SOUTH	2.40

1. TELSTRA AND ELECTRICITY CABLES TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICITY AUTHORITY STANDARD DRG'S.
2. GAS AND WATER MAINS TO BE CONSTRUCTED IN A COMMON TRENCH.
3. * = OFFSET FROM BACK OF KERB



75 / 110 / WYP 5438 / 11 - STAGE 5

1	ELECTRICAL OFFSETS REVISED	M.T.S.	24-05-17
0	ISSUED FOR CONSTRUCTION	M.T.S.	24-03-17
Rev	Amendments	Approved	Date



© Spiire Australia Pty Ltd All Rights Reserved
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.



469 La Trobe Street PO Box 16084 Melbourne
Victoria 8007 Australia T 61 3 9993 7888
spiire.com.au ABN 55 050 029 635

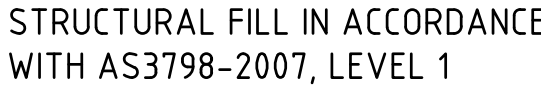


Designed
M.SHIRLEY
Authorised
M.TOOMER-SMITH
Checked
D.CAMERON
Date
22-12-16

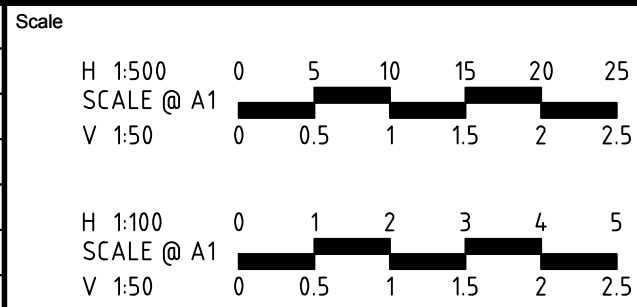
KING'S LEIGH ESTATE, WERRIBEE
STAGE 5
ROAD & DRAINAGE
SERVICES PLAN
WYNDHAN CITY COUNCIL
WERRIBEE PROJECT PTY LTD

CONSTRUCTION 301186CR201 1

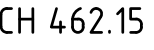
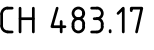
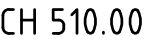
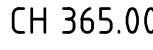
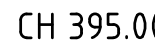
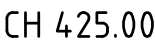
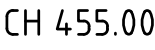
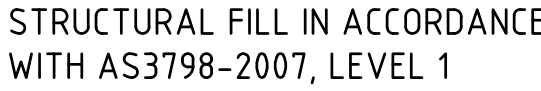




0	ISSUED FOR CONSTRUCTION	M.T.S.	24-03-17
Rev	Amendments	Approved	Date



KING'S LEIGH ESTATE, WERRIBEE
STAGE 5
ROAD LONGITUDINAL & CROSS SECTIONS
IVY COURT
 WYNDHAN CITY COUNCIL
 WERRIBEE PROJECT PTY LTD

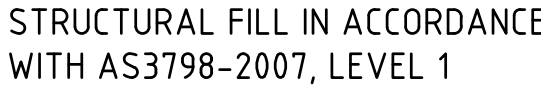


0	ISSUED FOR CONSTRUCTION	M.T-S.	24-03-17
Rev	Amendments	Approved	Date

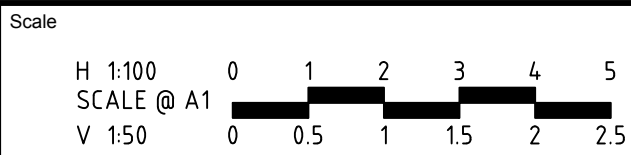
© Spiire Australia Pty Ltd All Rights Reserved
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

469 La Trobe Street PO Box 16084 Melbourne
Victoria 8007 Australia T 61 3 9993 7888
spiire.com.au ABN 55 050 029 635

Designed	Checked
M.SHIRLEY	D.CAMERON
Authorised	Date
M.TOOMER-SMITH	22-12-16



0	ISSUED FOR CONSTRUCTION	M.T.S.	24-03-17
Rev	Amendments	Approved	Date



© Spiire Australia Pty Ltd All Rights Reserved
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.



469 La Trobe Street PO Box 16084 Melbourne
Victoria 8007 Australia T 61 3 9993 7888
spiire.com.au ABN 55 050 029 635



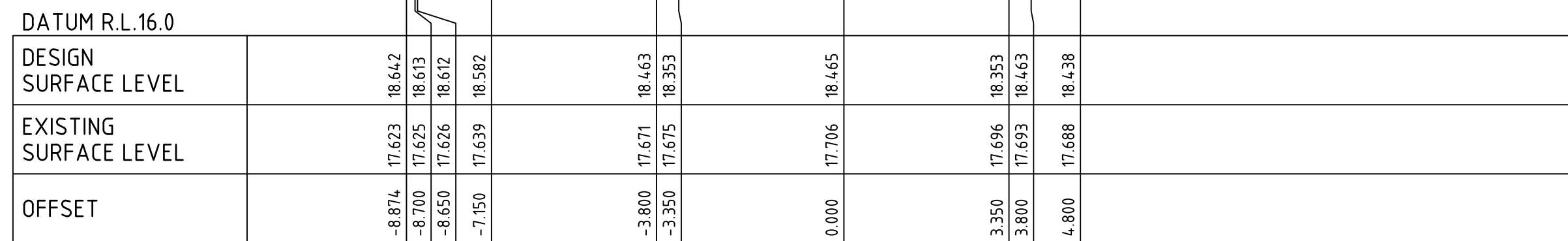
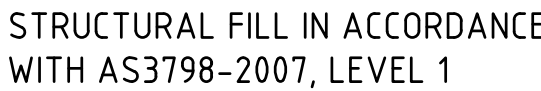
Designed
M.SHIRLEY

Authorised
M.TOOMER-SMITH

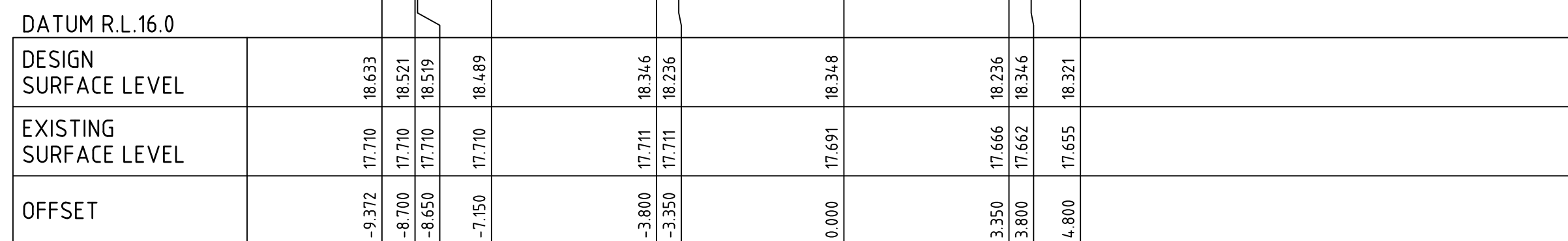
Checked
D.CAMERON
Date
22-12-16

**KING'S LEIGH ESTATE, WERRIBEE
STAGE 5
ROAD CROSS SECTIONS
GILDED ROAD & FERNTREE DRIVE
WYNDHAN CITY COUNCIL
WERRIBEE PROJECT PTY LTD**

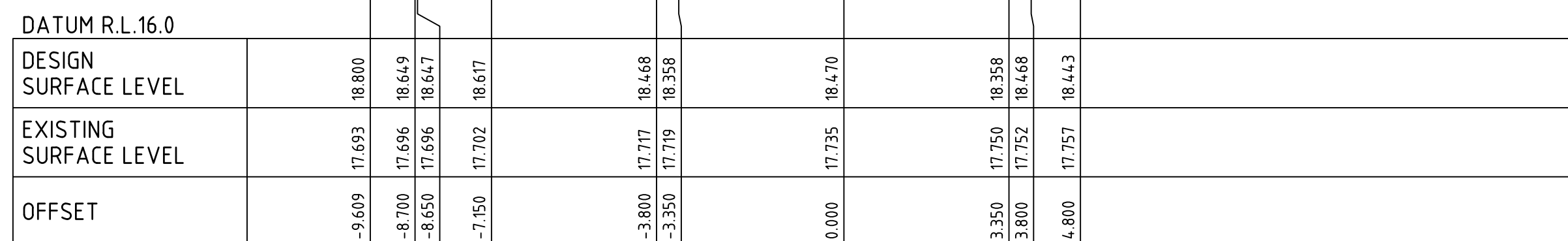
Drg No	Rev
301186CR401	0



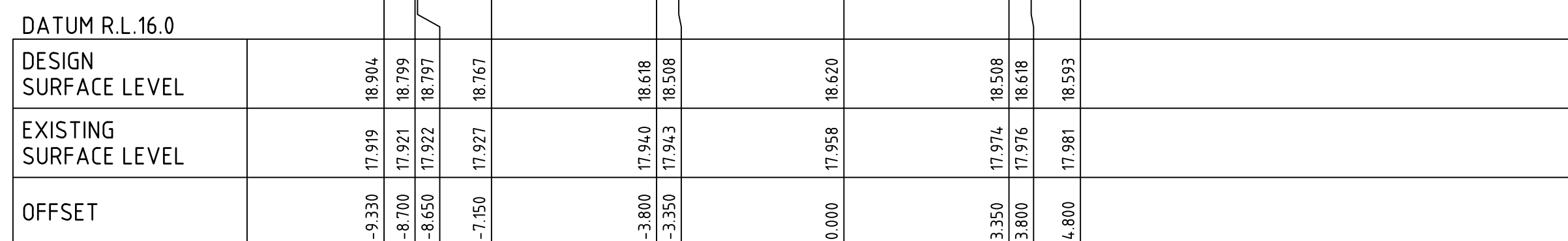
CH 218.87



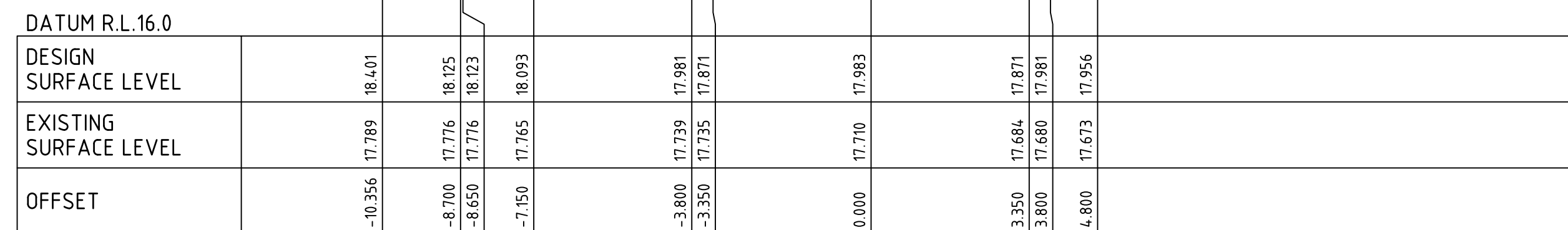
CH 195.57



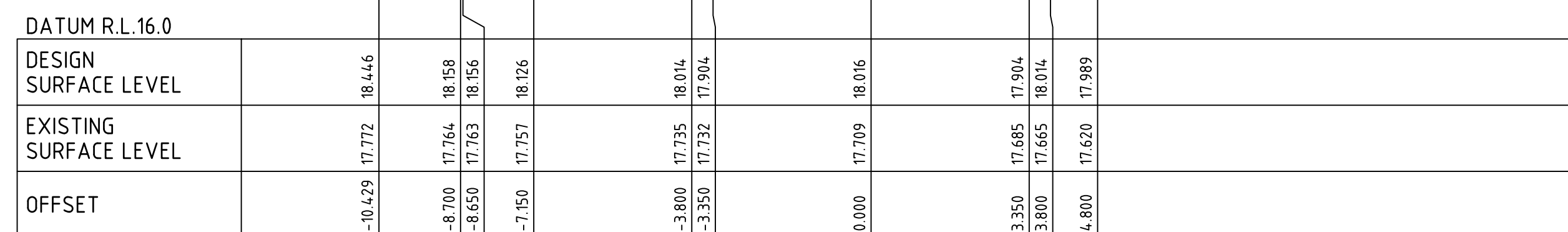
CH 170.00



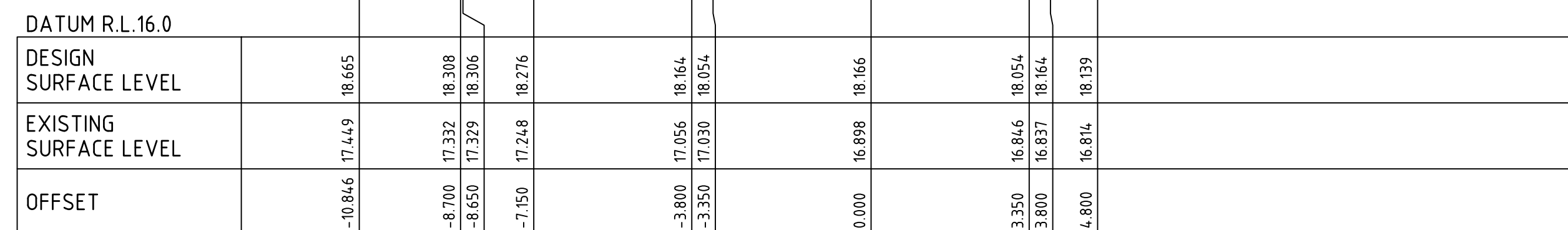
CH 140.00



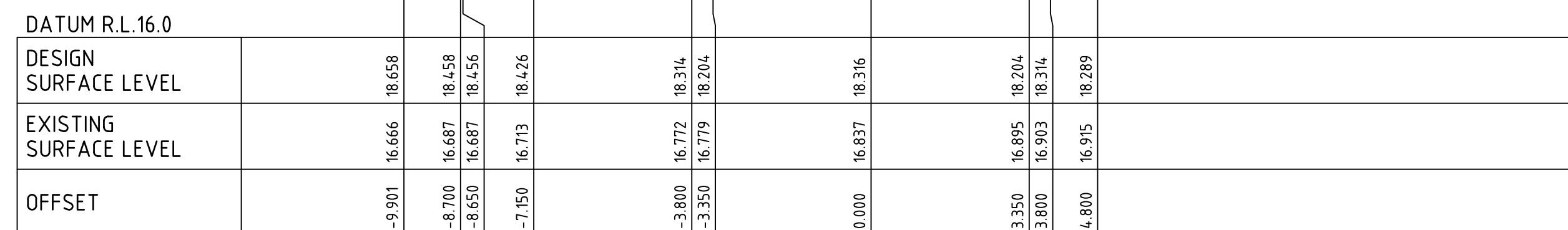
CH 316.62



CH 310.00



CH 280.00



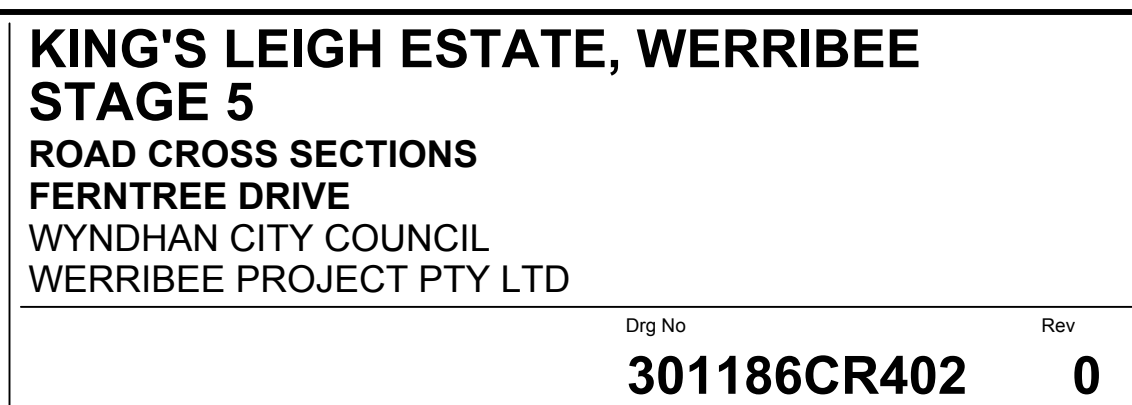
CH 250.00

Scale

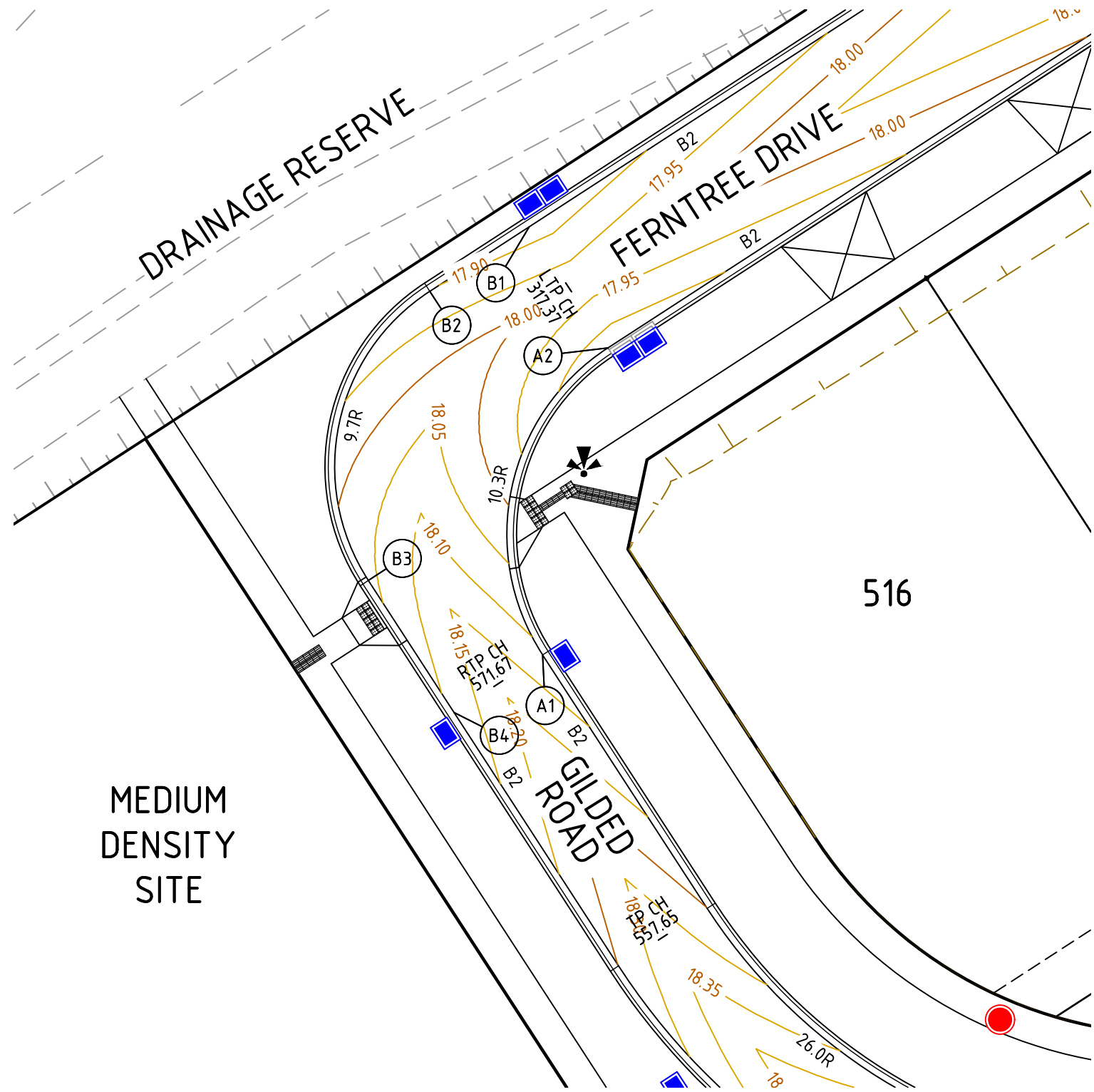
H 1:100
SCALE @ A1
V 1:50

0 1 2 3 4 5

0 0.5 1 1.5 2 2.5



file name: 30186CR500.dwg, layout name: CR500, plotted by: Michael Shirley,
file location: G:\30186CR500\ACAD\plot date: 24/05/2017 2:37 PM Sheet 10 of 14 Sheets



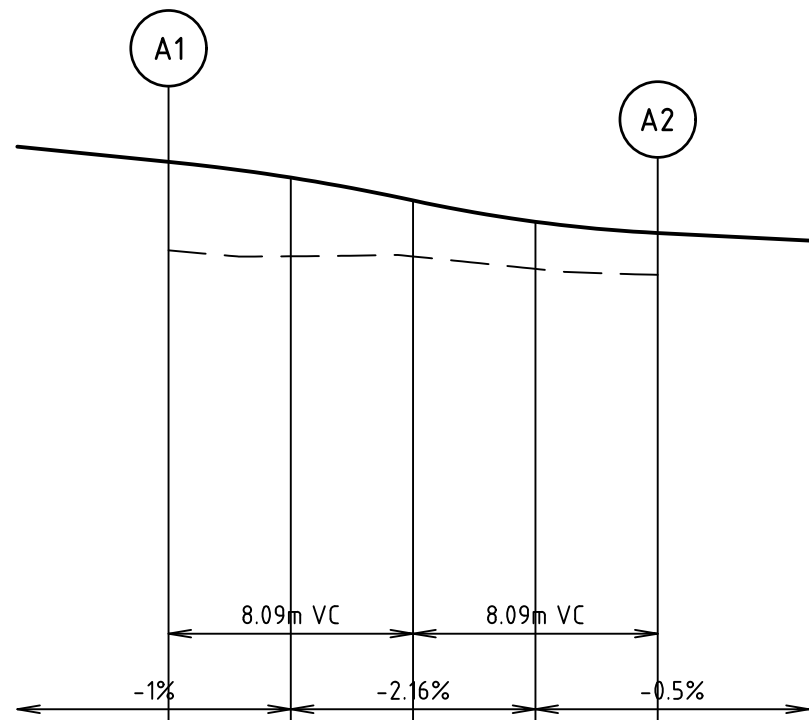
VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 16.0

DESIGN LEVEL	18.110	18.058	17.983	17.912	17.875
CHAINAGE	0.000	4.045	8.090	12.134	16.179

ALIGNMENT A



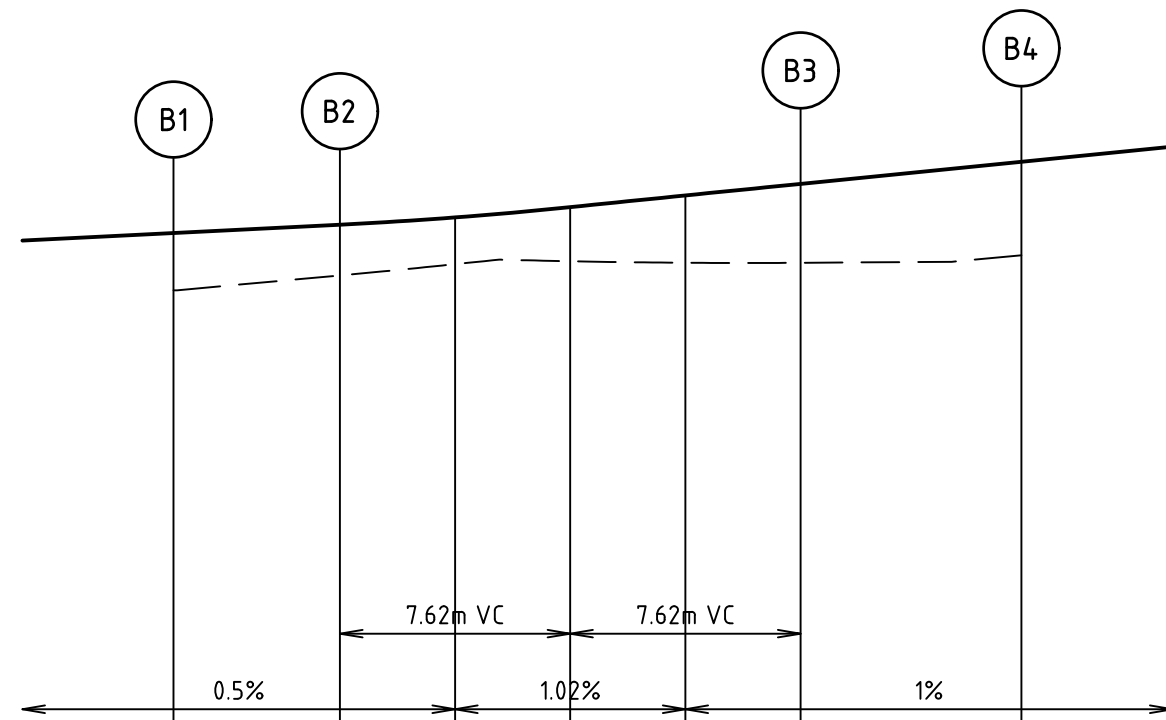
VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 16.0

DESIGN LEVEL	17.875	17.903	17.927	17.961	17.999	18.037	18.110
CHAINAGE	0.000	5.500	9.309	13.118	16.928	20.737	28.037

ALIGNMENT B



ALIGNMENT A

POINT NO	EASTING	NORTHING	RL
A1	291317.341	5799962.086	18.110
1/4	291315.852	5799965.819	18.058
1/2	291315.905	5799969.838	17.983
3/4	291317.492	5799973.530	17.912
A2	291320.371	5799976.334	17.875

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
A1-A2	10.300	16.179	14.566	3.017	0.784

ALIGNMENT B

POINT NO	EASTING	NORTHING	RL
B1	291316.722	5799981.953	17.875
B2	291312.109	5799978.958	17.903
1/4	291309.398	5799976.318	17.927
1/2	291307.904	5799972.840	17.961
3/4	291307.854	5799969.056	17.999
B3	291309.256	5799965.541	18.037
B4	291313.231	5799959.418	18.110

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
B2-B3	9.700	15.237	13.718	2.841	-0.738

ALIGNMENT C

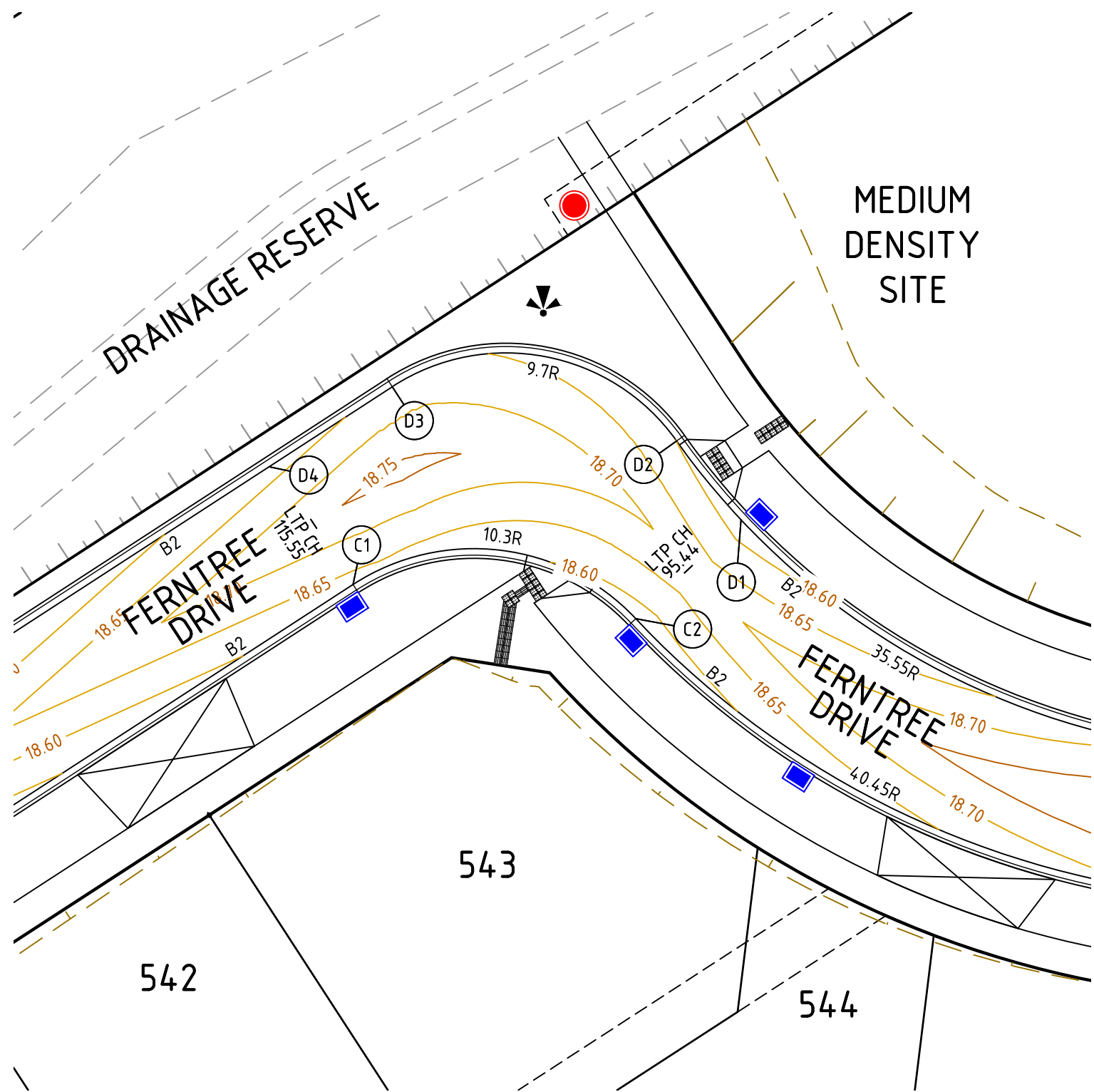
POINT NO	EASTING	NORTHING	RL
C1	291489.642	5800086.237	18.630
1/4	291492.925	5800087.632	18.630
1/2	291496.488	5800087.823	18.612
3/4	291499.902	5800086.788	18.594
C2	291502.758	5800084.650	18.576

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
C1-C2	10.300	14.343	13.212	2.397	0.618

ALIGNMENT D

POINT NO	EASTING	NORTHING	RL
D1	291507.642	5800089.237	18.576
1/4	291506.848	5800090.111	18.582
1/2	291506.084	5800091.012	18.588
3/4	291505.352	5800091.939	18.594
D2	291504.651	5800092.890	18.600
1/4	291501.985	5800095.433	18.618
1/2	291498.563	5800096.799	18.637
3/4	291494.878	5800096.790	18.655
D3	291491.462	5800095.407	18.663
D4	291485.993	5800091.856	18.630

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
D1-D2	34.650	4.724	4.721	0.080	0.020
D2-D3	9.700	14.830	13.427	2.699	-0.700



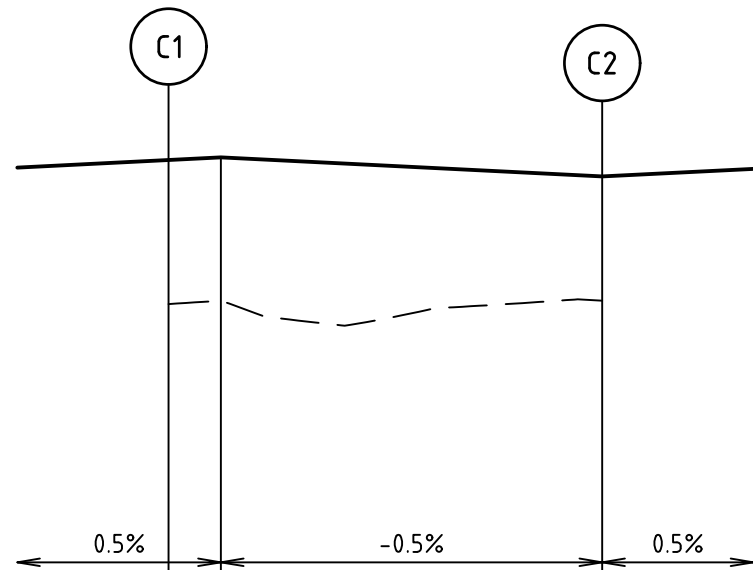
VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 17.0

DESIGN LEVEL	18.630	18.639	18.576
CHAINAGE	0.000	1.733	14.343

ALIGNMENT C



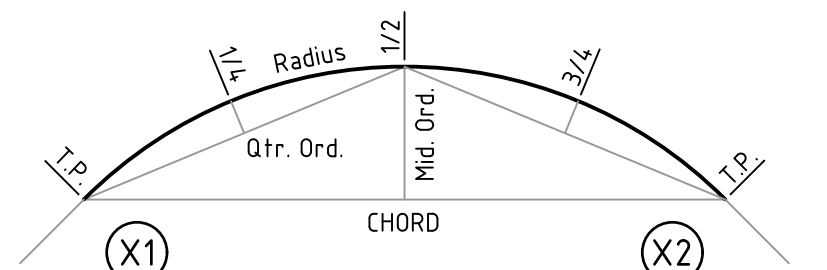
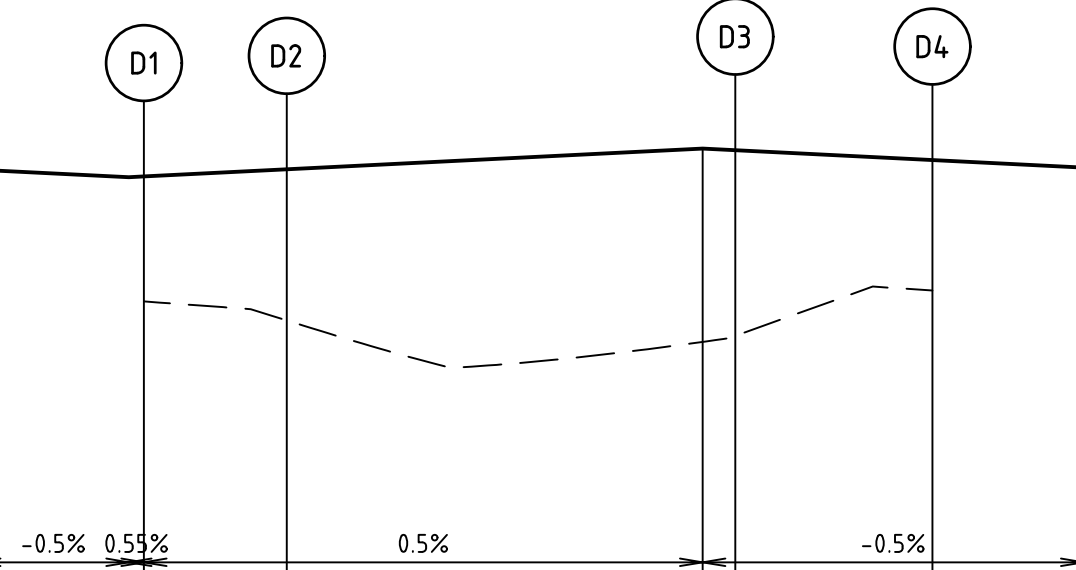
VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 17.0

DESIGN LEVEL	18.576	18.600	18.668	18.663	18.630
CHAINAGE	0.000	4.724	18.477	19.555	26.075

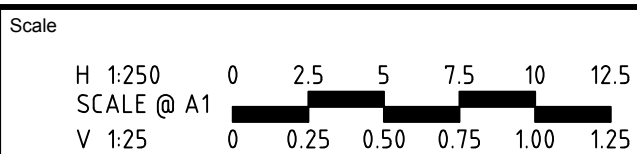
ALIGNMENT D



KERB RETURN SETOUT DETAIL

75 / 110 / WYP 5438 / 11 - STAGE 5

Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	M.T-S	24-03-17



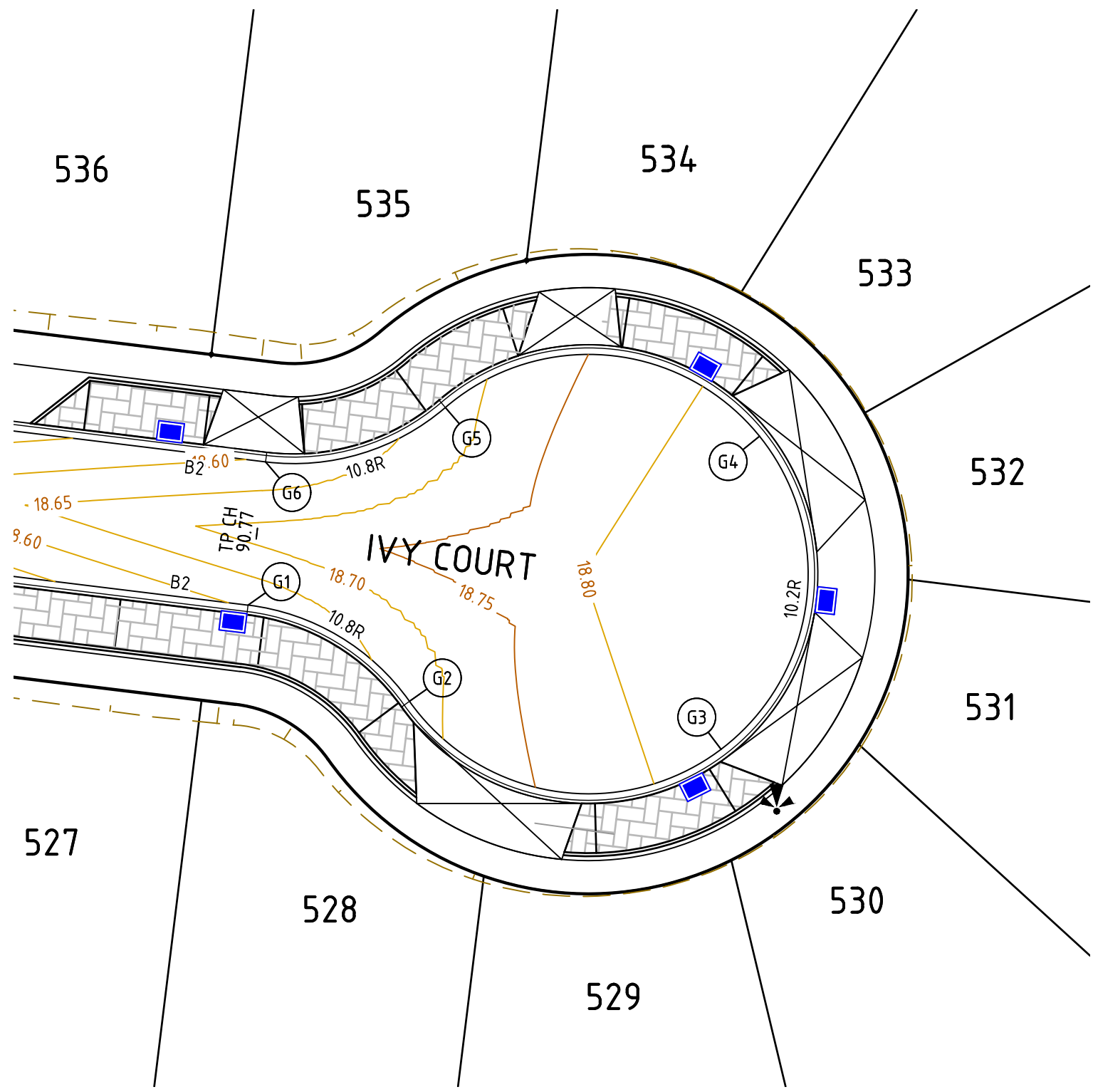
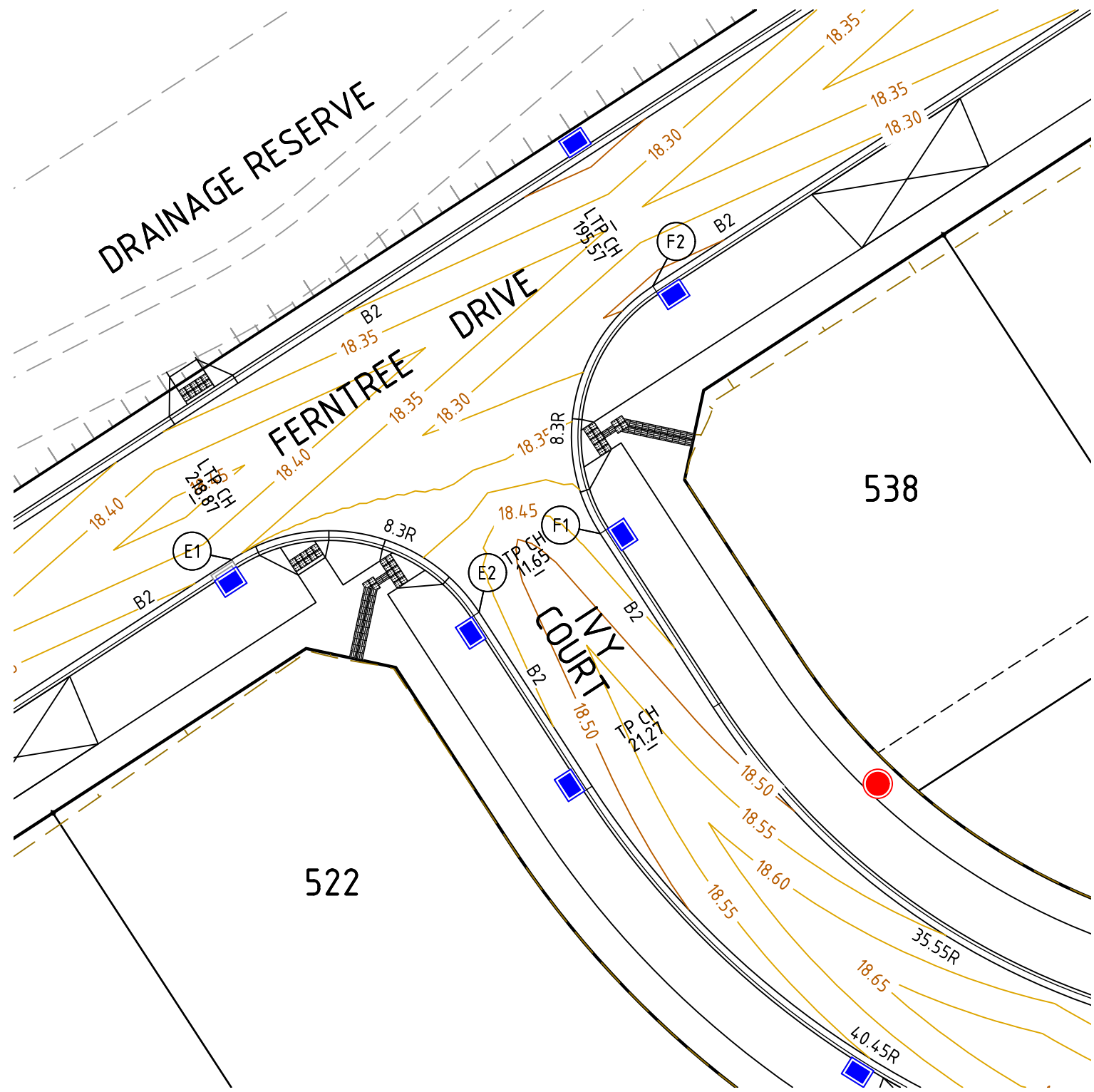
© Spiire Australia Pty Ltd All Rights Reserved
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

spiire
469 La Trobe Street PO Box 16084 Melbourne
Victoria 8007 Australia T 61 3 9993 7888
spiire.com.au ABN 55 050 029 635

KING'S LEIGH BY DACELAND
Designed
M.SHIRLEY
Authorised
M.TOOMER-SMITH
Checked
D.CAMERON
Date
22-12-16

**KING'S LEIGH ESTATE, WERRIBEE
STAGE 5
ROAD & DRAINAGE
INTERSECTION DETAILS**
WYNDHAN CITY COUNCIL
WERRIBEE PROJECT PTY LTD
CONSTRUCTION 301186CR500
0

file name: 30186CR501.dwg, layout name: CR501, plotted by: Michael Shirley,
file location: G:\30186\186\ACAD\plot date: 24/05/2017 2:37 PM Sheet 10 of 14 Sheets



VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 16.0

DESIGN LEVEL	18.353	18.418
CHAINAGE	0.000	13.038

ALIGNMENT E

VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 16.0

DESIGN LEVEL	18.418	18.387	18.327	18.267	18.256
CHAINAGE	0.000	3.259	6.519	9.778	13.038

ALIGNMENT F

VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 16.0

DESIGN LEVEL	18.605	18.633	18.673	18.676	18.718	18.763	18.822	18.843	18.822	18.763	18.718	18.676	18.673	18.633	18.605
CHAINAGE	0.000	4.366	8.732	8.980	13.098	17.463	25.315	33.482	41.650	49.500	53.866	57.985	58.232	62.598	66.964

ALIGNMENT G

ALIGNMENT E

POINT NO	EASTING	NORTHING	RL
E1	291402.986	5800029.974	18.353
1/4	291405.994	5800031.174	18.369
1/2	291409.232	5800031.131	18.386
3/4	291412.208	5800029.852	18.402
E2	291414.467	5800027.532	18.418

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
E1-E2	8.300	13.038	11.738	2.431	0.632

ALIGNMENT F

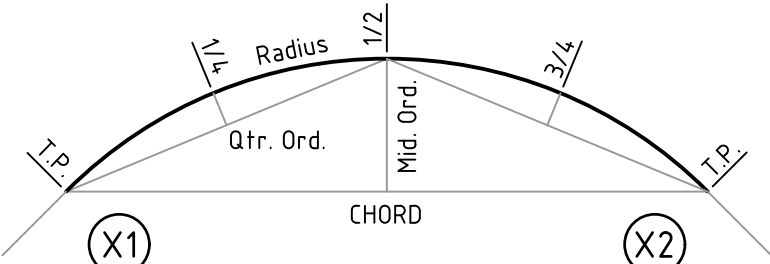
POINT NO	EASTING	NORTHING	RL
F1	291420.087	5800031.181	18.418
1/4	291418.887	5800034.189	18.387
1/2	291418.930	5800037.427	18.327
3/4	291420.208	5800040.402	18.267
F2	291422.528	5800042.662	18.236

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
F1-F2	8.300	13.038	11.738	2.431	0.632

ALIGNMENT G

POINT NO	EASTING	NORTHING	RL
G1	291485.410	5799996.519	18.605
1/4	291487.594	5799996.018	18.618
1/2	291489.627	5799995.076	18.634
3/4	291491.423	5799993.735	18.653
G2	291492.903	5799992.052	18.676
1/4	291495.862	5799989.278	18.718
1/2	291499.669	5799987.876	18.759
3/4	291503.721	5799988.069	18.796
G3	291507.377	5799989.827	18.822
1/4	291510.060	5799992.870	18.837
1/2	291511.344	5799996.718	18.843
3/4	291511.026	5800000.762	18.837
G4	291509.158	5800004.363	18.822
1/4	291506.034	5800006.950	18.796
1/2	291502.148	5800008.116	18.759
3/4	291498.115	5800007.674	18.718
G5	291494.574	5800005.696	18.676
1/4	291492.732	5800004.420	18.653
1/2	291490.666	5800003.552	18.634
3/4	291488.465	5800003.129	18.618
G6	291486.225	5800003.170	18.605

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
G1-G2	10.800	8.980	8.723	0.920	0.232
G2-G3	10.200	16.335	14.645	3.099	-0.807
G3-G4	10.200	16.335	14.645	3.099	-0.807
G4-G5	10.200	16.335	14.645	3.099	-0.807
G5-G6	10.800	8.980	8.723	0.920	0.232



KERB RETURN SETOUT DETAIL

75 / 110 / WYP 5438 / 11 - STAGE 5

Rev	Issued For Construction	M.T-S	24-03-17
0	ISSUED FOR CONSTRUCTION	Approved	Date

Scale	H 1:250 SCALE @ A1 V 1:25	0 2.5 5 7.5 10 12.5 0 0.25 0.50 0.75 1.00 1.25
-------	---------------------------------	---

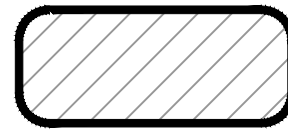
© Spiire Australia Pty Ltd All Rights Reserved
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

spiire
469 La Trobe Street PO Box 16084 Melbourne
Victoria 8007 Australia T 61 3 9993 7888
spiire.com.au ABN 55 050 029 635

KING'S LEIGH BY DACELAND
Designed M.SHIRLEY
Authorised M.TOOMER-SMITH
Checked D.CAMERON
Date 22-12-16

KING'S LEIGH ESTATE, WERRIBEE
STAGE 5
ROAD & DRAINAGE
INTERSECTION DETAILS
WYNDHAN CITY COUNCIL
WERRIBEE PROJECT PTY LTD
CONSTRUCTION Drg No 301186CR501 Rev 0

file name: 30186CR600.dwg, layout name: CR600, plotted by: Michael Shirley,
file location: G:\30186CR600\A1.dwg, plot date: 24/05/2017 2:38 PM, Sheet 11 of 14, Sheets



CRUSHED ROCK
BACKFILL

EX A

01

02

03

04

05

06

07

08

09

10

Pipe Diameter
Pipe Class
Pipe Grade
Velocity (m/s)
Pipe Flow (m3/s)
Pipe Capacity (m3/s)

300Ø
Class 3
1 in 100
Vf=1.369
Qa=0.029
Qcap=0.097

DATUM RL 13.00

DEPTH TO INVERT	1.404
DESIGN INVERT LEVEL	16.889
HYDRAULIC GRADE LEVEL	17.641
FINISHED SURFACE LEVEL	18.793
EXISTING SURFACE LEVEL	17.921
CHAINAGE	0.000

17.840

N.W.L. 16.41

NOT IN CONTRACT

675Ø
Class 2
1 in 300
Vf=1.362
Qa=0.405
Qcap=0.487

(2x)450Ø
Class 4
1 in 175
Vf=1.356
Qa=0.401
Qcap=0.431

375Ø
Class 3
1 in 140
Vf=1.342
Qa=0.085
Qcap=0.148

375Ø
Class 3
1 in 140
Vf=1.342
Qa=0.082
Qcap=0.148

375Ø
Class 2
1 in 140
Vf=1.342
Qa=0.062
Qcap=0.148

375Ø
Class 3
1 in 300
Vf=0.917
Qa=0.064
Qcap=0.101

150Ø SEWER
IL 16.515 CLR 0.308

300Ø
Class 2
1 in 300
Vf=0.790
Qa=0.048
Qcap=0.056

300Ø
Class 3
1 in 150
Vf=1.117
Qa=0.024
Qcap=0.079

Pipe Diameter
Pipe Class
Pipe Grade
Velocity (m/s)
Pipe Flow (m3/s)
Pipe Capacity (m3/s)

600Ø
Class 4
1 in 350
Vf=1.161
Qa=0.318
Qcap=0.328

DATUM RL 13.00

DEPTH TO INVERT	1.446
DESIGN INVERT LEVEL	16.535
HYDRAULIC GRADE LEVEL	17.243
FINISHED SURFACE LEVEL	17.981
EXISTING SURFACE LEVEL	17.714
CHAINAGE	-24.500

17.541

600Ø
Class 3
1 in 350
Vf=1.161
Qa=0.297
Qcap=0.328

450Ø
Class 4
1 in 350
Vf=0.959
Qa=0.135
Qcap=0.152

450Ø
Class 3
1 in 300
Vf=1.035
Qa=0.123
Qcap=0.165

375Ø
Class 3
1 in 250
Vf=1.004
Qa=0.101
Qcap=0.111

300Ø
Class 3
1 in 300
Vf=0.790
Qa=0.027
Qcap=0.056

300Ø
Class 4
1 in 300
Vf=0.790
Qa=0.028
Qcap=0.056

300Ø
Class 3
1 in 125
Vf=1.224
Qa=0.013
Qcap=0.087

225Ø SEWER
IL 14.949 CLR 2.242

300Ø
Class 3
1 in 100
Vf=1.369
Qa=0.004
Qcap=0.097

300Ø
Class 4
1 in 100
Vf=1.369
Qa=0.003
Qcap=0.097

300Ø
Class 3
1 in 100
Vf=1.369
Qa=0.004
Qcap=0.097

300Ø
Class 3
1 in 100
Vf=1.369
Qa=0.004
Qcap=0.097

300Ø
Class 3
1 in 100
Vf=1.369
Qa=0.004
Qcap=0.097

300Ø
Class 3
1 in 100
Vf=1.369
Qa=0.004
Qcap=0.097

300Ø
Class 3
1 in 100
Vf=1.369
Qa=0.004
Qcap=0.097

300Ø
Class 3
1 in 100
Vf=1.369
Qa=0.004
Qcap=0.097

300Ø
Class 3
1 in 100
Vf=1.369
Qa=0.004
Qcap=0.097

300Ø
Class 3
1 in 100
Vf=1.369
Qa=0.004
Qcap=0.097

L=58.401m

L=38.750m

L=24.500m

L=78.818m

L=13.261m

L=10.006m

L=19.153m

L=23.939m

L=6.600m

L=6.600m

L=6.600m

L=6.600m

L=6.600m

L=6.600m

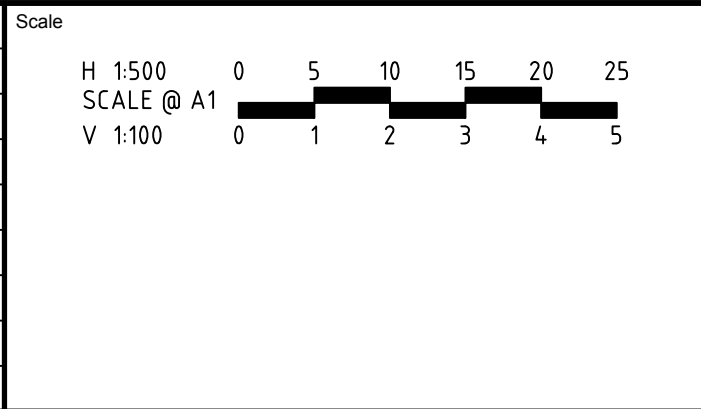
L=6.600m

L=6.600m

L=6.600m

75 / 110 / WYP 5438 / 11 - STAGE 5

0	ISSUED FOR CONSTRUCTION	M.T.S.	24-03-17
Rev	Amendments	Approved	Date



© Spiire Australia Pty Ltd All Rights Reserved
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

spiire

469 La Trobe Street PO Box 16084 Melbourne
Victoria 8007 Australia T 61 3 9993 7888
spiire.com.au ABN 55 050 029 635

KING'S LEIGH BY DACLAND

Designed
M.SHIRLEY

Checked
D.CAMERON

Authorised
M.TOOMER-SMITH

Date
22-12-16

**KING'S LEIGH ESTATE, WERRIBEE
STAGE 5
DRAINAGE LONGITUDINAL SECTIONS**

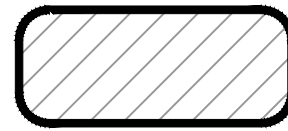
WYNDHAN CITY COUNCIL
WERRIBEE PROJECT PTY LTD

CONSTRUCTION

Drp No
301186CR600

Rev
0

file name: 30186CR600.dwg, layout name: CR601, plotted by: Michael Shirley,
file location: G:\30186CR600\ACAD\plot date: 24/05/2017 2:38 PM Sheet 12 of 14 Sheets



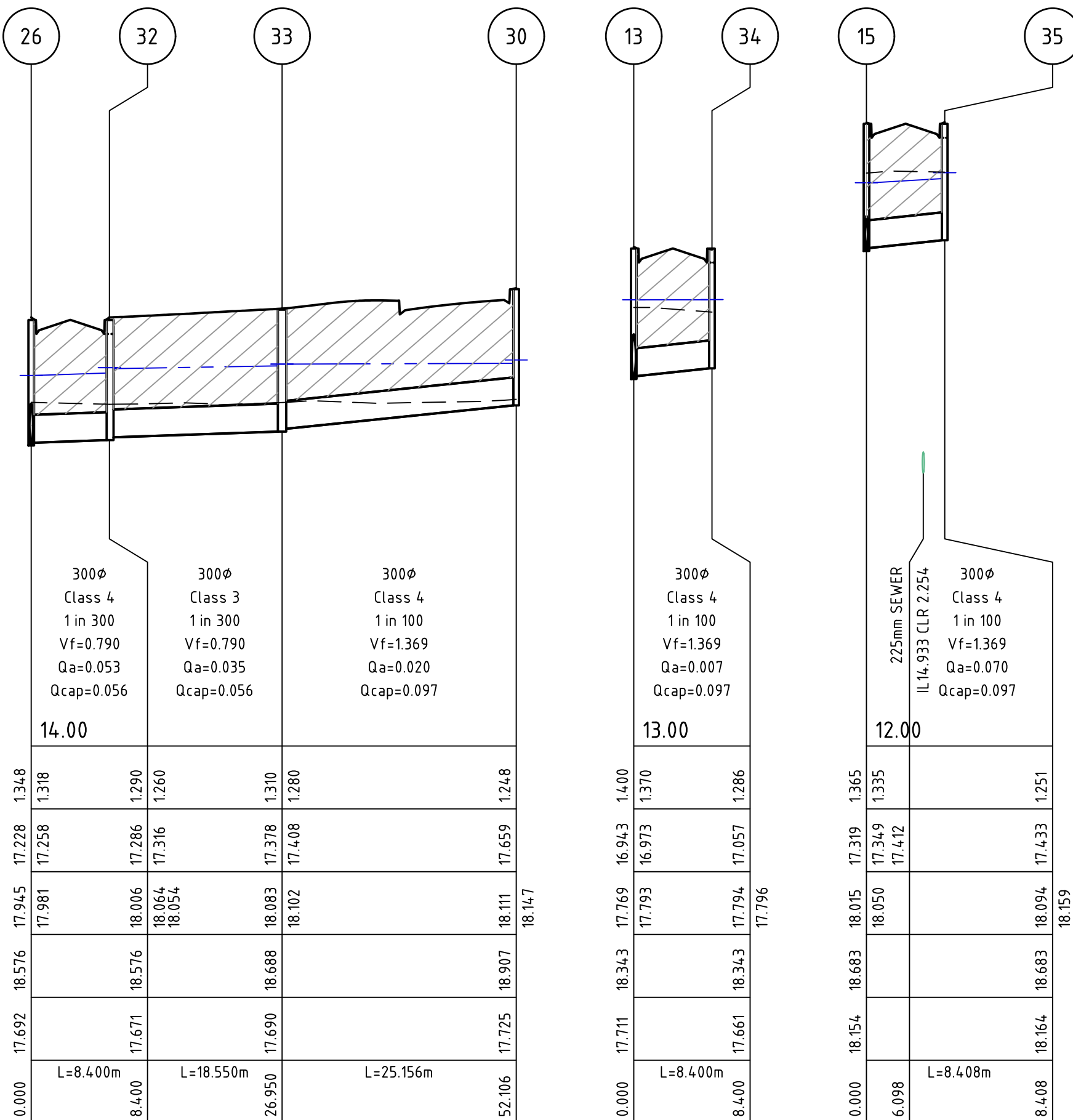
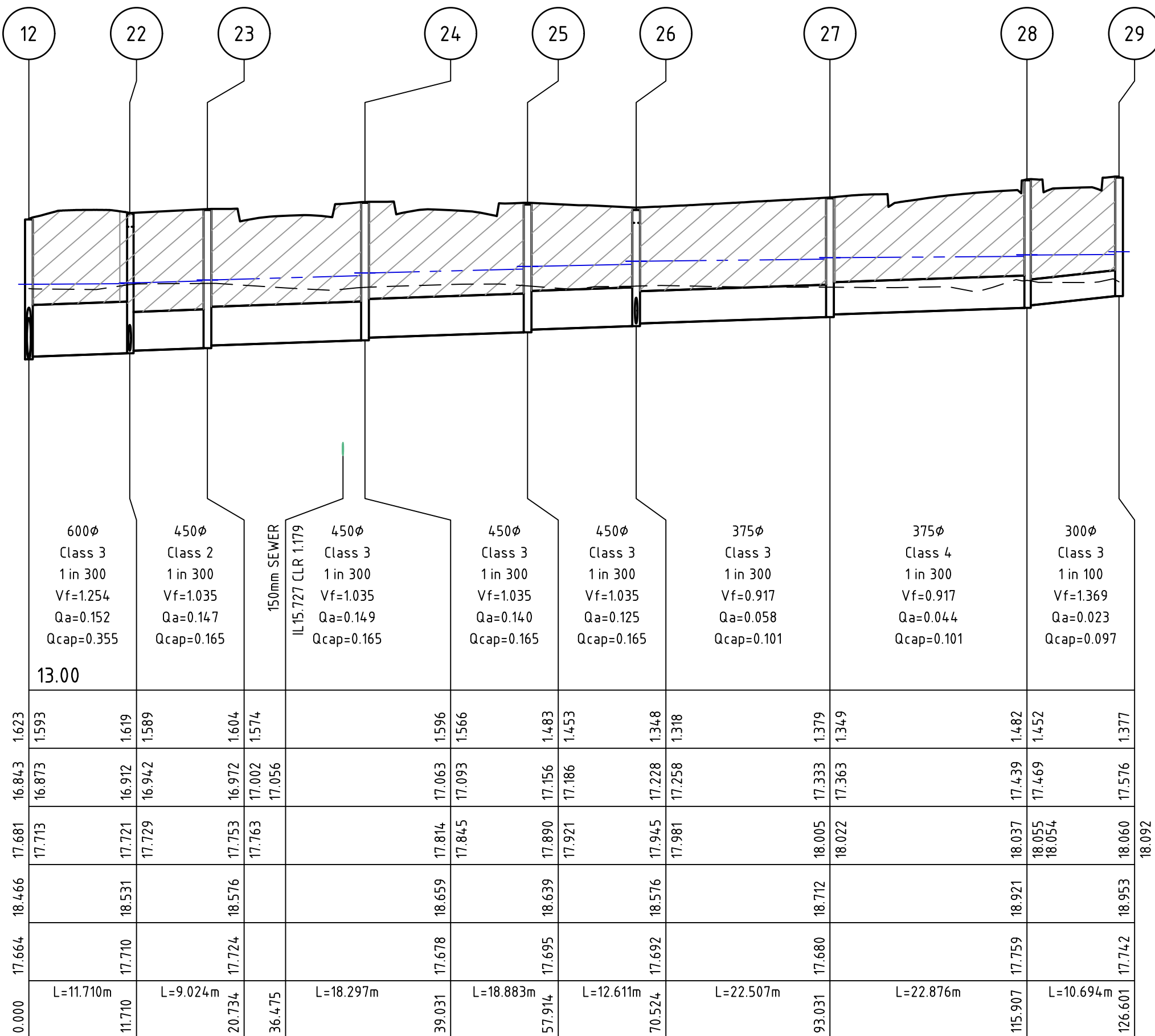
CRUSHED ROCK
BACKFILL

Pipe Diameter
Pipe Class
Pipe Grade
Velocity (m/s)
Pipe Flow (m3/s)
Pipe Capacity (m3/s)

DATUM RL	13.00
DEPTH TO INVERT	1571 1541 1438
DESIGN INVERT LEVEL	17 547 16 702 16 732 15 41
HYDRAULIC GRADE LEVEL	17 589 16 732 16 732 15 41
FINISHED SURFACE LEVEL	18 273 17 589 16 732 15 41
EXISTING SURFACE LEVEL	16 688 18 273 17 589 16 732 15 41
CHAINAGE	0.000 L=8.250m 8.250

Pipe Diameter
Pipe Class
Pipe Grade
Velocity (m/s)
Pipe Flow (m3/s)
Pipe Capacity (m3/s)

DATUM RL	13.00
DEPTH TO INVERT	17 721 16 912 16 919 15 89
DESIGN INVERT LEVEL	17 721 16 912 16 912 15 89
HYDRAULIC GRADE LEVEL	17 729 16 912 16 912 15 89
FINISHED SURFACE LEVEL	18 531 17 721 16 912 16 912 15 89
EXISTING SURFACE LEVEL	17 710 18 531 17 721 16 912 16 912 15 89
CHAINAGE	0.000 L=8.400m 8.400 17 730



DRAINAGE PIT SCHEDULE

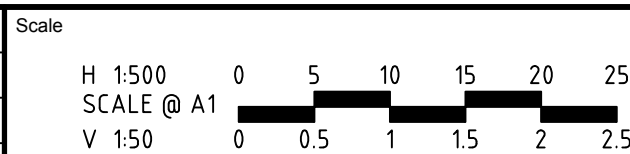
PIT	NAME	TYPE	WIDTH	LENGTH	INLET DIA	INV LEVEL	OUTLET DIA	INV LEVEL	PIT FS LEVEL	DEPTH	REMARKS
Ex A	ENDPIPE				300	16.889			18.293	1.404	CONNECT TO EXISTING 300 DIA PIPE
01	JUNCTION PIT		600	900			300	17.479	18.863	1.384	
02	ENDWALL				675	16.420			17.095	0.675	EXISTING - NOT IN CONTRACT
03	DOUBLE GRATED ENTRY PIT		600	1800	(2x) 450	16.488	675	16.488	17.981	1.493	
04	DOUBLE GRATED ENTRY PIT		900	1800	375	16.565	(2x) 450	16.535	17.981	1.446	
					600	16.535					
05	GRATED ENTRY PIT		600	900	375	16.700	375	16.670	18.227	1.557	
06	GRATED ENTRY PIT		600	900	375	16.777	375	16.747	18.227	1.479	
07	JUNCTION PIT		600	900	375	16.947	375	16.917	18.449	1.532	
08	GRATED ENTRY PIT		600	900	300	17.047	375	17.017	18.546	1.529	
					300	17.047					
09	GRATED ENTRY PIT		600	900	300	17.311	300	17.281	18.687	1.406	
					300	17.311					
10	JUNCTION PIT		600	900			300	17.661	18.935	1.274	
11	GRATED ENTRY PIT		900	900	600	16.732	600	16.702	18.273	1.571	
					300	16.732					
12	GRATED ENTRY PIT		900	900	450	16.873	600	16.843	18.466	1.623	
					600	16.873					
13	GRATED ENTRY PIT		600	900	450	16.973	450	16.943	18.343	1.400	
					300	16.973					
14	GRATED ENTRY PIT		600	900	375	17.266	450	17.236	18.737	1.502	
15	GRATED ENTRY PIT		600	900	300	17.349	375	17.319	18.683	1.365	
					300	17.349					
16	JUNCTION PIT		600	900	300	17.412	300	17.382	18.728	1.347	
17	JUNCTION PIT		600	900	300	17.506	300	17.476	18.816	1.340	
18	JUNCTION PIT		600	900			300	17.697	18.867	1.169	
19	GRATED ENTRY PIT		600	900			300	17.113	18.546	1.433	
20	GRATED ENTRY PIT		600	900			300	17.377	18.687	1.310	
21	GRATED ENTRY PIT		600	900			300	16.835	18.273	1.438	
22	GRATED ENTRY PIT		600	900	450	16.942	600	16.912	18.531	1.619	
					300	16.942					
23	JUNCTION PIT		600	900	450	17.002	450	16.972	18.576	1.604	
24	JUNCTION PIT		600	900	450	17.093	450	17.063	18.659	1.596	PROVIDE HEAVY DUTY COVER
25	JUNCTION PIT		600	900	450	17.186	450	17.156	18.639	1.483	
26	GRATED ENTRY PIT		600	900	375	17.258	450	17.228	18.576	1.348	
					300	17.258					
27	JUNCTION PIT		600	900	375	17.363	375	17.333	18.712	1.379	PROVIDE HEAVY DUTY COVER
28	JUNCTION PIT		600	900	300	17.469	375	17.439	18.921	1.482	PROVIDE HEAVY DUTY COVER
29	JUNCTION PIT		600	900			300	17.576	18.953	1.377	PROVIDE HEAVY DUTY COVER
31	GRATED ENTRY PIT		600	900			300	17.026	18.531	1.505	
32	GRATED ENTRY PIT		600	900	300	17.316	300	17.286	18.576	1.290	
33	JUNCTION PIT		600	900	300	17.408	300	17.378	18.688	1.310	PROVIDE HEAVY DUTY COVER
30	JUNCTION PIT		600	900			300	17.659	18.907	1.248	PROVIDE HEAVY DUTY COVER
34	GRATED ENTRY PIT		600	900			300	17.057	18.343	1.286	
35	GRATED ENTRY PIT		600	900			300	17.433	18.683	1.251	PROVIDE 5m LONG 300 DIA PIPE STUB @ IL17.463 (1 IN 300)

NOTES:

1. ALL SETOUT IS TO THE CENTRE POINT OF THE PIT (HAUNCH WHERE APPLICABLE)

75 / 110 / WYP 5438 / 11 - STAGE 5

Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	M.T.S.	24-03-17



© Spiire Australia Pty Ltd All Rights Reserved
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

spiire

469 La Trobe Street PO Box 16084 Melbourne
Victoria 8007 Australia T 61 3 9993 7888
spiire.com.au ABN 55 050 029 635

Designed
M.SHIRLEY

Authorised
M.TOOMER-SMITH

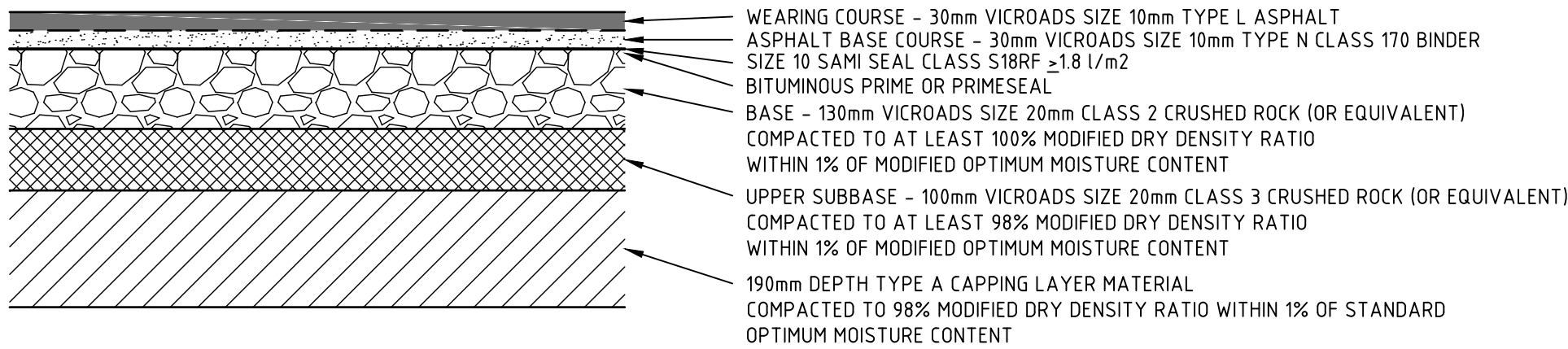
Checked
D.CAMERON

Date
22-12-16

KING'S LEIGH ESTATE, WERRIBEE
STAGE 5
DRAINAGE LONGITUDINAL SECTIONS
AND PIT SCHEDULE
WYNDHAN CITY COUNCIL
WERRIBEE PROJECT PTY LTD

CONSTRUCTION Drg No **301186CR601** Rev **0**

file name: 30186CR700.dwg, layout name: CR700, plotted by: Michael Shirley,
file location: G:\30186CR700\ACAD plot date: 24/05/2017 2:38 PM Sheet 13 of 14 Sheets



480mm PAVEMENT – GILDED ROAD, FERNTREE DRIVE & IVY COURT
SUBGRADE DESIGN CBR = 2.5%

PAVEMENT DETAILS

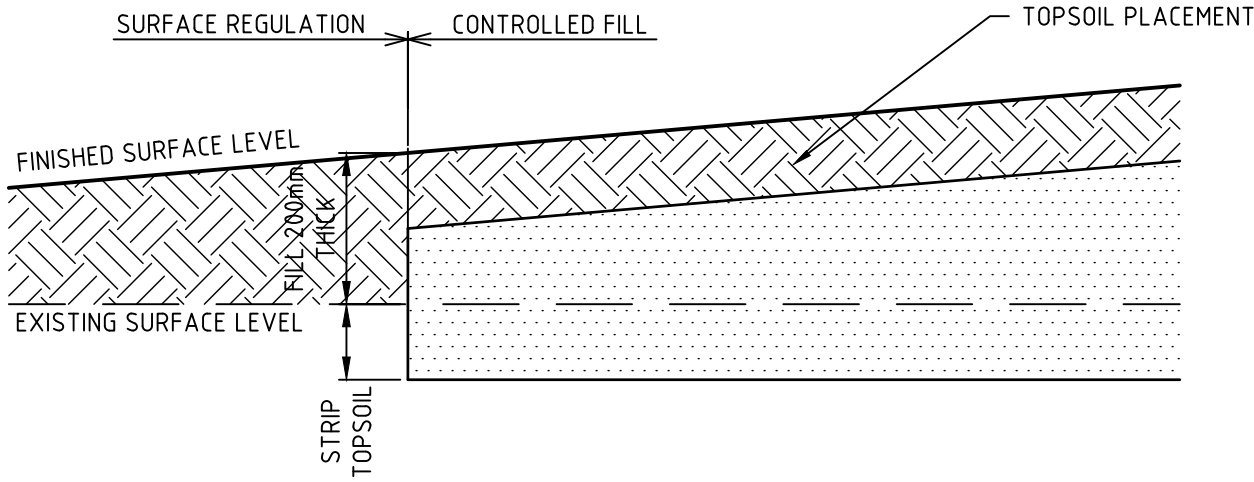
PAVEMENT DETAILS

THE PAVEMENT DESIGNS SHOWN HERE HAVE BEEN DESIGNED/PROVIDED BY COFFEY WHO ARE RESPONSIBLE FOR THE GEOTECHNICAL WORK ON THIS PROJECT. SPIIRE IS NOT RESPONSIBLE FOR THE WORK OF COFFEY.

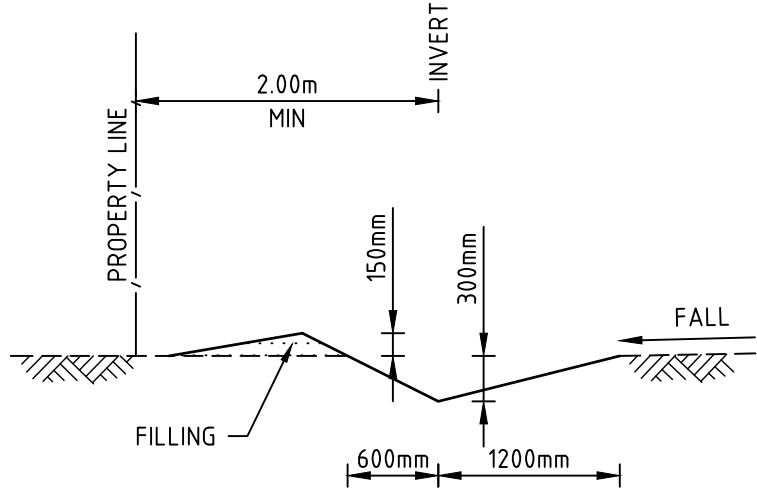
THE DESIGN HAS BEEN EXTRACTED FROM THE COFFEY REPORT ON "GEOTECHNICAL INVESTIGATION ---- " THIS DOCUMENT SHOULD BE REVIEWED TO ENSURE THAT THE DESIGN HAS BEEN ACCURATELY REPRODUCED.

A COPY OF THE DOCUMENT WILL BE PROVIDED TO YOU ON REQUEST.

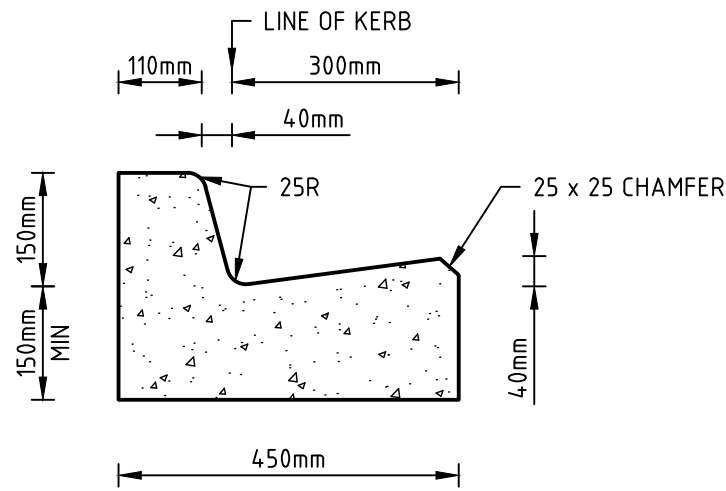
SPIIRE DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE ACCURACY, ADEQUACY OR APPROPRIATENESS OF THE GEOTECHNICAL WORK AND PAVEMENT DESIGNS.
ANY QUERIES IN RESPECT TO THE GEOTECHNICAL WORK AND PAVEMENT DESIGNS SHOULD BE ADDRESSED TO COFFEY AND SENT TO SPIIRE.



LOT REGRADING DETAIL



TYPICAL CATCH DRAIN SECTION



B2

STANDARD KERB PROFILES

NOTE: ALL KERB & CHANNEL AS PER GAA STD DRAWING FIGURE 008

Rev	Amendments	Approved	Date
0	ISSUED FOR CONSTRUCTION	M.T-S.	24-03-17

Scale
NOT TO SCALE



© Spiire Australia Pty Ltd All Rights Reserved
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

spiire

469 La Trobe Street PO Box 16084 Melbourne
Victoria 8007 Australia T 61 3 9993 7888
spiire.com.au ABN 55 050 029 635

Designed M.SHIRLEY	Checked D.CAMERON
Authorised M.TOOMER-SMITH	Date 22-12-16

**KING'S LEIGH ESTATE, WERRIBEE
STAGE 5
ROAD & DRAINAGE
STANDARD DETAILS**
WYNDHAN CITY COUNCIL
WERRIBEE PROJECT PTY LTD

CONSTRUCTION Drg No 301186CR700 Rev 0

file name: 30186CR800.dwg, layout name: CR800, plotted by: Michael Shirley,
file location: G:\30186CR800\A1.dwg, plot date: 24-03-2017 2:39 PM, Sheet 14 of 14, Sheets



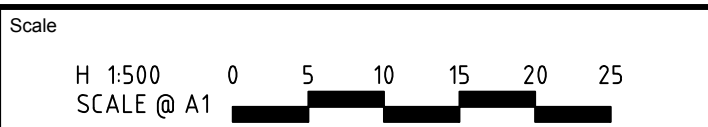
SIGNAGE SCHEDULE

#1	STREET NAME		

NOTE: STREET SIGNS ARE TO BE MOUNTED ON LIGHT POLES, WITH A COUNCIL APPROVED BRACKET, IN LIEU OF SIGN POLES WHERE THE TWO POLES ARE IN CLOSE PROXIMITY AND WHERE THE STREET SIGN WOULD NOT BE COMPROMISED IN ITS PURPOSE BY THE RELOCATION.

75 / 110 / WYP 5438 / 11 - STAGE 5

0	ISSUED FOR CONSTRUCTION	M.T-S.	24-03-17
Rev	Amendments	Approved	Date



© Spiire Australia Pty Ltd All Rights Reserved
This document is produced by Spiire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spiire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.

spiire

469 La Trobe Street PO Box 16084 Melbourne
Victoria 8007 Australia T 61 3 9993 7888
spiire.com.au ABN 55 050 029 635

KING'S LEIGH BY DACLAND

Designed
M.SHIRLEY
Authorised
M.TOOMER-SMITH

Checked
D.CAMERON
Date
22-12-16

**KING'S LEIGH ESTATE, WERRIBEE
STAGE 5
ROAD & DRAINAGE
SIGNAGE & LIGNMARKING PLAN**
WYNDHAN CITY COUNCIL
WERRIBEE PROJECT PTY LTD

CONSTRUCTION 301186CR800 0