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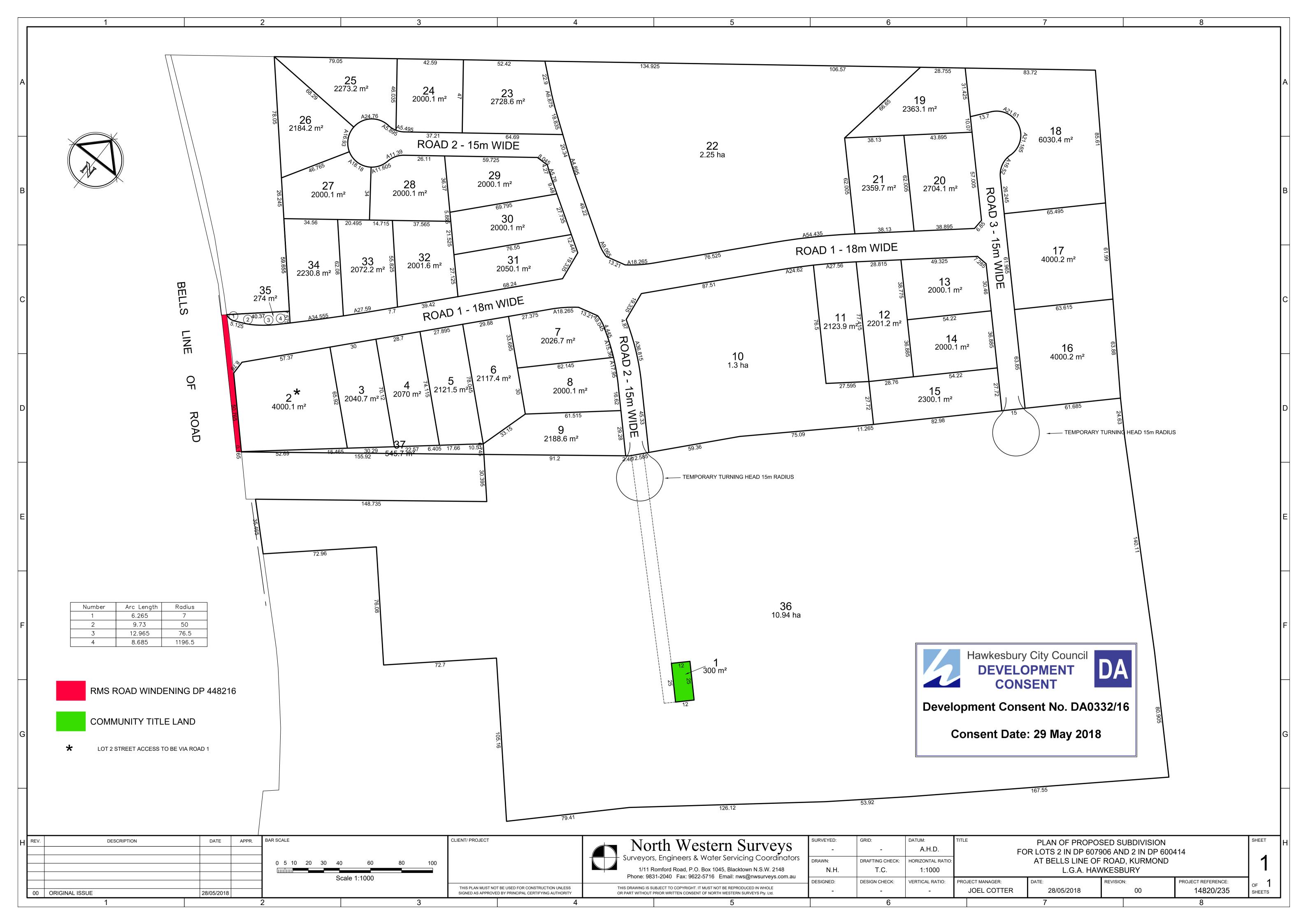
### attachment 1 to item 013

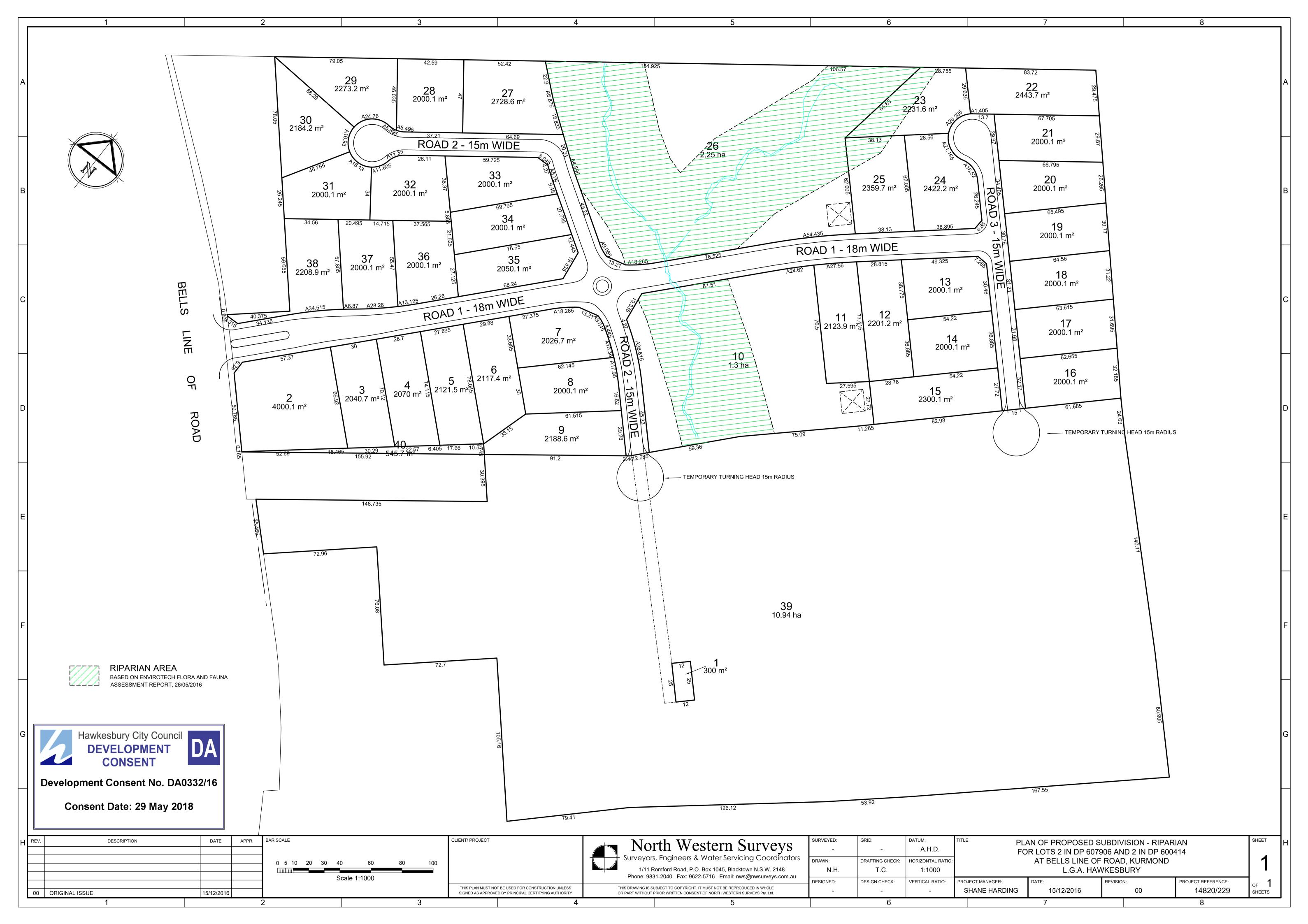
**Approved Plans** 

date of meeting: 15 November 2018

time: 2:00 p.m.

location: council chambers





# DA0332/16

## ENGINEERING PLAN FOR THE SUBDIVISION OF LOTS 2 IN DP 607906 AND 2 IN DP 600414 AT 396 BELLS LINE OF ROAD, KURMOND L.G.A. HAWKESBURY COUNCIL

	PLAN IND	EX			
Sheet Number	Sheet Title	REV	REV DATE		
1	FACE SHEET	01	16/12/2016		
2	ENGINEERING PLANS	01	16/12/2016		
3	CIVIL PLAN	01	16/12/2016		
4	CIVIL PLAN (2)	01	16/12/2016		
5	ROAD 1 LONG SECTIONS	01	16/12/2016		
6	ROAD 2 LONG SECTION	01	16/12/2016		
7	ROAD 3 LONG SECTION	01	16/12/2016		
8	ROAD 1 CROSS SECTION	01	16/12/2016		
9	ROAD 1 CROSS SECTION (2)	01	16/12/2016		
10	ROAD 1 CROSS SECTION (3)	01	16/12/2016		
11	ROAD 2 CROSS SECTIONS	01	16/12/2016		
12	ROAD 2 CROSS SECTIONS (2)	01	16/12/2016		
13	ROAD 3 CROSS SECTIONS	01	16/12/2016		
14	INTERSECTION DETAILS	01	16/12/2016		
15	LANDSCAPING PLAN	01	16/12/2016		

LEGEND OF LINES AND SYMBOLS										
PROPOSED	DESCRIPTION	EXISTING								
	KERB & GUTTER WITH VEHICULAR CROSSING									
	EDGE OF SEAL									
<u> </u>	TABLEDRAIN									
15 00	ROAD CENTRELINE, CHAINAGE									
	CONCRETE FOOTPATH/DRIVEWAY									
	ROAD PAVEMENT									
<del></del> (	DRAINAGE LINE, PIT, HEADWALL									
	COMMON DRAINAGE LINE, SLOPE JUNCTION, PIT									
62	SURFACE CONTOURS	62.00								
90.4+	SURFACE LEVEL	× 31.7								
	AREAS OF CUT									
+ + + + + + + + + + + +	AREAS OF FILL									
*********	LIMIT OF WORKS									
<b>→ +</b>	STREET SIGNS									
— E—O—E—	POWER POLE	=								
—-PW- <b>—</b> -PW- <b>X</b> -	HYDRANT / STOP VALVE	— <b>■</b> • P₩ —								
	TELECOMMUNICATION CABLE, PIT	— — <u>T</u> — — — —								
—— S—©—— S—	SEWER LINE, PIT	— s— — —								
	RETAINING WALL									

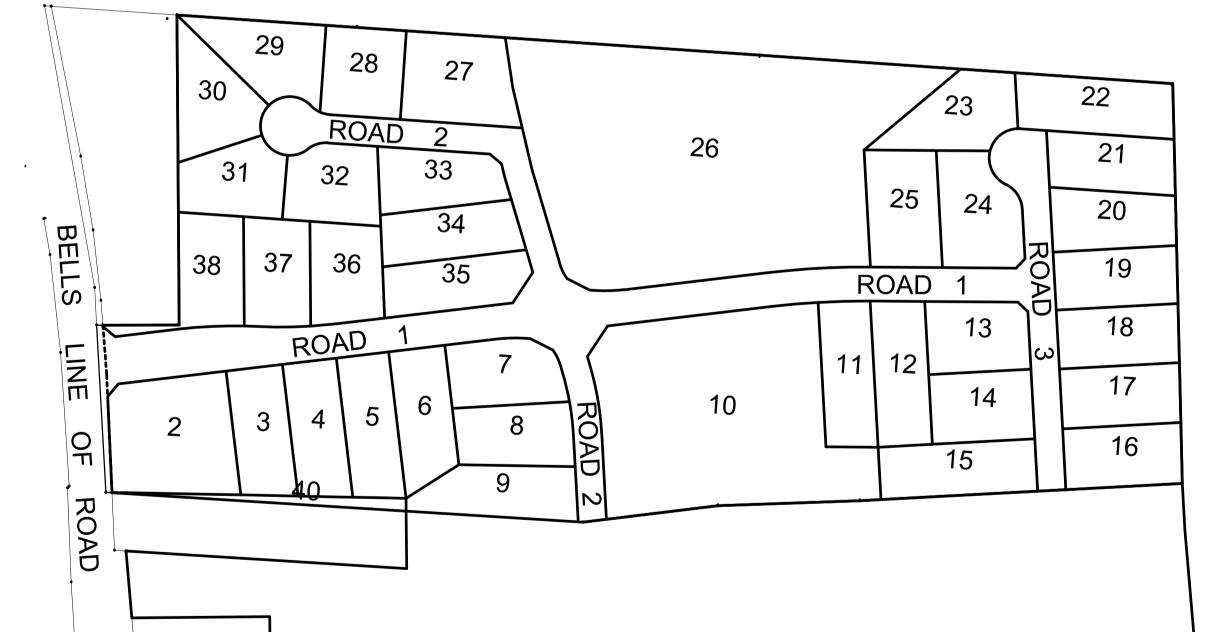
LOCALITY SKETCH

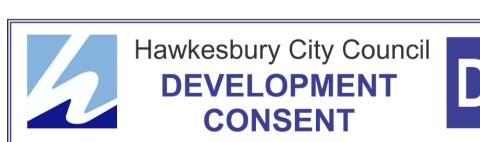
Kurmond Cottage 🙆

**UBD 34th EDITION** 

(NOT TO SCALE)







**Development Consent No. DA0332/16** 

Consent Date: 29 May 2018

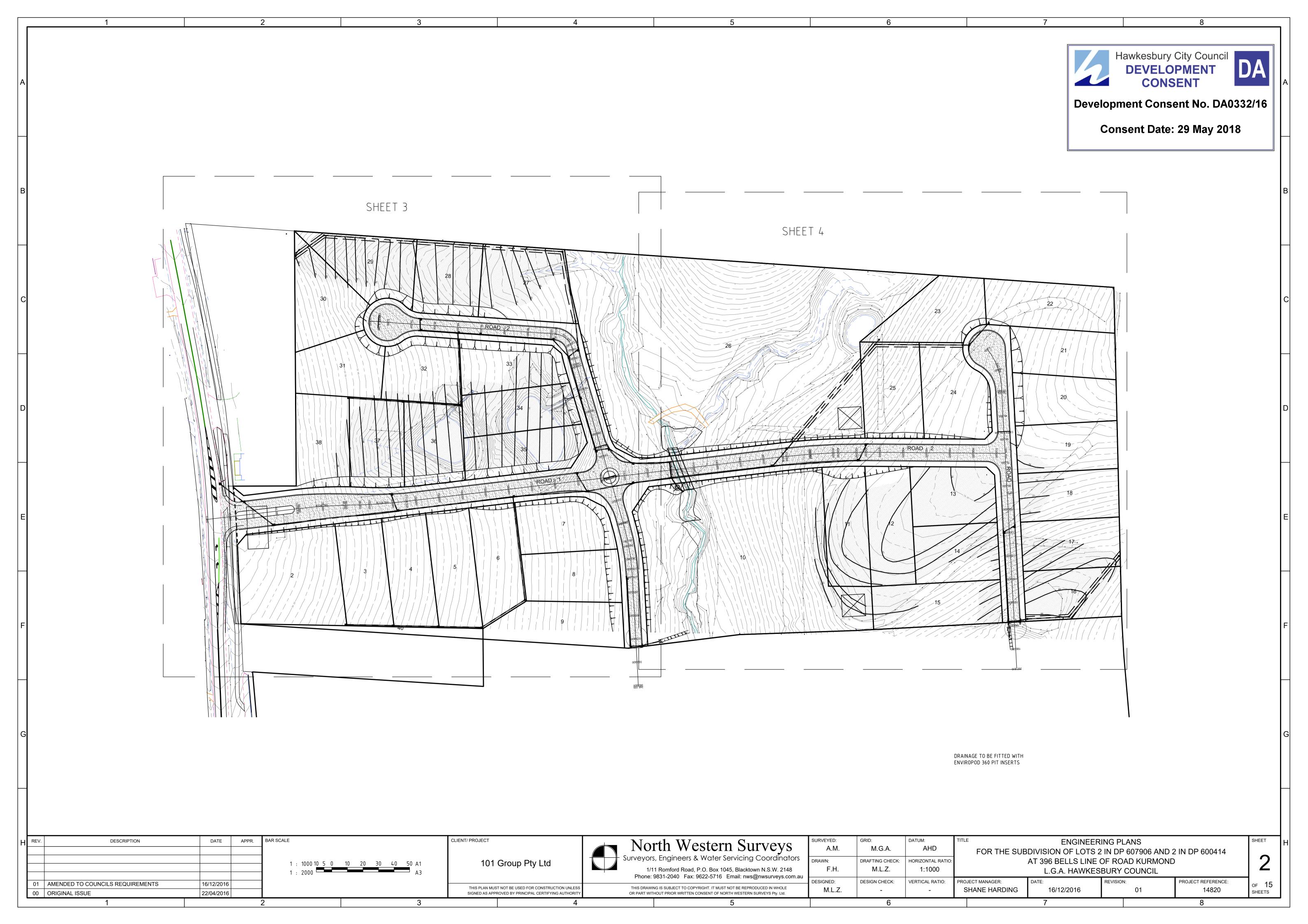
### **GENERAL NOTES**

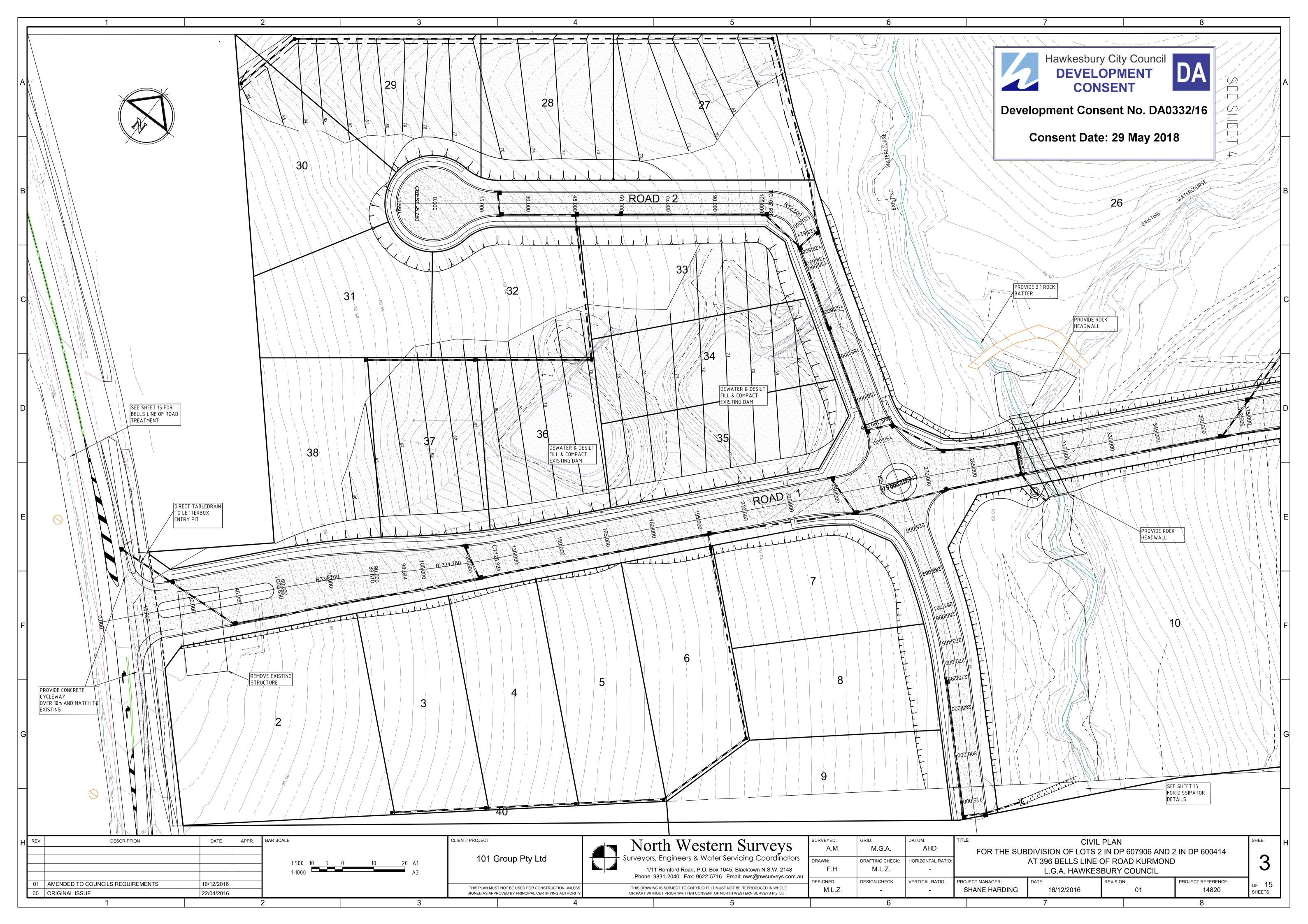
- ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL'S STANDARD SPECIFICATION AND TO THE REQUIREMENTS OF COUNCIL'S ENGINEER.

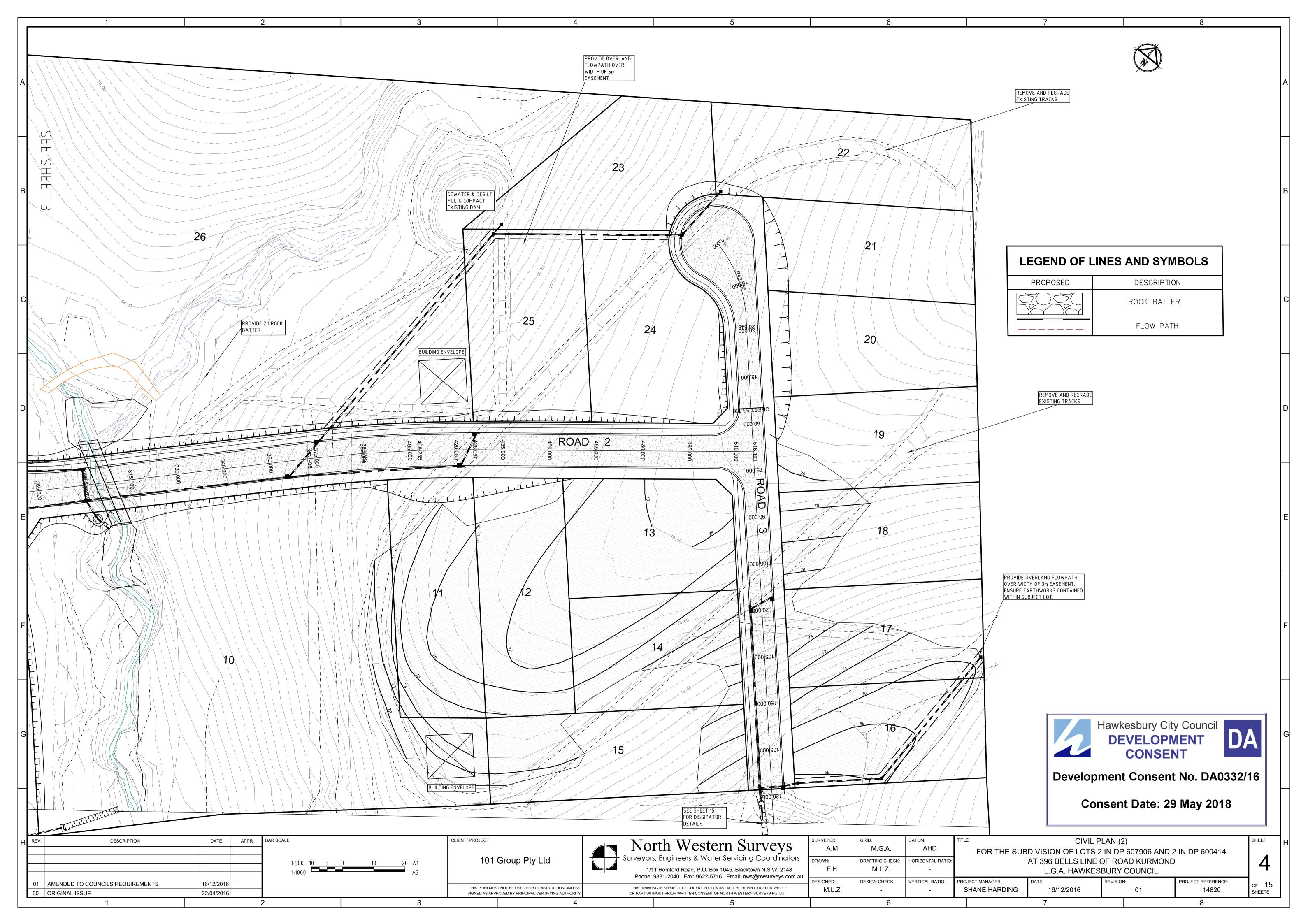
- LOTS SHALL BE EVEN GRADED AT MINIMUM 1% TO PREVENT PONDING. 100 YEAR FLOW PATHS TO BE
- ALL EXISTING SERVICES SHALL BE ADJUSTED AS NECESSARY TO THE REQUIREMENTS OF THE
- RELEVANT AUTHORITY AND AT THE DEVELOPER'S EXPENSE. CONTRACTOR SHALL TAKE ALL REASONABLE CARE TO PROTECT EXISTING SERVICES. THE COST OF
- REPAIRING ANY DAMAGE CAUSED TO SUCH ASSETS IN THE VICINITY OF THE LAND AS A RESULT OF
- 11. SUBSOIL DRAINS SHALL BE PROVIDED, GENERALLY ON THE CUT SIDE OF ROADS, ALONG THE CENTRE FLUSHING POINTS WITH COVERS MAX. 60m AND MARKED 'SS' ON KERB. A MINIMUM OF 3 METERS OF SUBSOIL DRAINAGE SHALL BE LAID INTO THE UPSTREAM SIDE OF COUNCIL PITS
- CONDUITS SHALL BE PROVIDED & LOCATED TO THE SATISFACTION OF INTEGRAL ENERGY AND TELSTRA
- PAVEMENT DEPTH IS SUBJECT TO SOIL TESTS. RESULTS AND DESIGNS SHALL BE SUBMITTED TO COUNCIL FOR APPROVAL PRIOR TO SUBGRADE INSPECTION.
- WRITTEN PERMISSION SHALL BE OBTAINED FROM ADJOINING OWNERS PRIOR TO COMMENCEMENT OF ANY RELEVANT CONSTRUCTION ON ADJOINING LANDS.
- 16. ALL AREAS DISTURBED BY EARTHWORKS, INCLUDING BERMS AND BATTERS, SHALL BE TOPSOILED ( 150mm ) AND GRASS SEEDED TO THE SATISFACTION OF COUNCIL'S ENGINEER.
- 17. THE CONTRACTOR SHALL TAKE ALL DUE CARE THAT ONLY THE ABSOLUTE MINIMUM OF AREA FOR CONSTRUCTION IS USED AND THAT NO UNDUE DAMAGE IS DONE TO THE EXISTING VEGETATION.
- 18. AT THE COMPLETION OF ROAD WORKS, ALL DRAINAGE PITS CAPTURING SURFACE WATER SHALL BE PROVIDED WITH APPROVED SILT TRAP DEVICES.
- 19. ALL INTERNAL ROAD NAMES ARE PRELIMINARY AND SHALL BE SUBJECT TO COUNCIL APPROVAL CONDUITS TO BE LAID AS DIRECTED BY THE RELEVANT AUTHORITY AND CLEAR OF VEHICULAR
- PITS ARE NOT ACCEPTABLE. COUNCIL MAY CONSIDER PRE-CAST UNITS IF THE UNITS ARE PLACED ON A SOLID BASE OF GRAVEL OR CONCRETE OF 75mm THICK AND BACKFILL UP TO HALF OF THE DEPTH OF THE PIT SURROUND WITH CONCRETE.
- 22. ALL PIPELINES ARE TO BE LAID IN TRENCH CONDITIONS (TYPE B BEDDING).
- ALL LONGITUDINAL PIPELINES IN ROADS TO BE LOCATED UNDER KERB AND GUTTER AND TO BE BACKFILLED WITH WASHED RIVER SAND.
- 24. ALL PITS TO BE BENCHED AND STREAMLINED. PROVIDE STEP IRONS FOR ALL PITS OVER 1.2m DEEP.
- GUIDE POSTS WITH ATTACHED REFLECTIONS TO BE PLACED WHERE DIRECTED.
- 26. NO WORK TO BE CARRIED OUT ON SUNDAYS.
- 27. VEHICULAR ACCESS AND ALL SERVICES TO BE MAINTAINED AT ALL TIMES TO ADJOINING PROPERTIES AFFECTED BY CONSTRUCTION WORKS.
- 28. WHERE KERB AND GUTTER IS LAID BY THE USE OF A KERB AND GUTTER MACHINE THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TAKING AND TESTING OF CORE SAMPLES, FORWARDING TEST RESULTS TO COUNCIL AND REMOVAL OF KERB AND, GUTTER ALL AT HIS OWN EXPENSE. WHERE THE
- MINIMUM STRENGTH IS NOT ACHIEVED IN ACCORDANCE WITH COUNCIL'S STANDARD SPECIFICATIONS. 29. SUBGRADE IN ROCK IS TO BE RIPPED, SCARIFIED, SPREAD AND COMPACTED TO A MINIMUM DEPTH OF
- 300mm BELOW THE FINISHED SUBGRADE LEVEL.
- ALL RUBBISH, BUILDINGS, SHEDS AND FENCES TO BE REMOVED. 31. ADEQUATE PROVISION TO BE MADE FOR SCOURING AND SEDIMENTATION TO ALL DRAINAGE WORKS AS
- 32. NO TOPSOIL TO BE REMOVED FROM THE SUBDIVISION WITHOUT PRIOR APPROVAL.
- 33. CONSTRUCTION OF DRIVEWAYS ACROSS FOOTPATHS TO BE DEFERRED UNTIL ALL SERVICES ARE LAID.
- 34. PUBLIC UTILITY STUB-MAINS TO BE INSTALLED PRIOR TO THE PREPARATION OF SUB-GRADE.
- 35. LENGTH OF LINTEL SHOWN INDICATES CLEAR LENGTH OF OPENING. 36. CONDUIT TRENCHES, SUBSOIL DRAINS AND STORMWATER DRAINAGE LINES TO BE BACKFILLED WITH APPROVED WASHED RIVER SAND, FLOODED AND VIBRATED. CONDUIT TRENCHES TO BE GRADED AT A
- MINIMUM OF ONE PERCENT (1%) GRADE TO EITHER SUBSOIL OR STORMWATER DRAINAGE LINES. 37. WHERE THE SLOPE OF THE NATURAL SURFACE EXCEEDS ONE IN FOUR (1:4) AT FILL EMBANKMENTS, BENCHES ARE TO BE CUT TO PREVENT SLIPPING OF THE FILL MATERIAL AS REQUIRED BY COUNCIL'S
- 38. ALL CHANNELS, OPEN DRAINS ETC. TO BE TURFED.
- 39. SUITABLE EROSION AND SEDIMENTATION CONTROLS ARE TO BE ESTABLISHED TO THE REQUIREMENTS OF COUNCILS ENGINEER AND MAINTAINED DURING AND AFTER WORKS ( SEE SEDIMENTATION AND EROSION CONTROL PLAN ).
- 40. SUITABLE WARNING SIGNS AND BARRICADES ARE TO BE PROVIDED TO AUSTRALIAN STANDARDS AND
- 41. PROVISION IS TO BE MADE FOR MAINTAINING TRAFFIC FLOW AT ALL TIMES. A TRAFFIC CONTROL PLAN IS TO BE CERTIFIED BY AN ACCREDITED RMS WORK SITE TRAFFIC CONTROL DESIGNER AND SUBMITTED TO COUNCIL. THIS TRAFFIC PLAN MUST THEN BE IMPLEMENTED TO THE SATISFACTION OF AN
- ACCREDITED RMS WORK SITE TRAFFIC CONTROLLER PRIOR TO COMMENCEMENT OF WORK. 42. CONTRACTORS ARE TO ENSURE STRUCTURAL CERTIFICATION FOR CONSTRUCTION OF MAJOR AND NON-STANDARD STRUCTURES. ALL STRUCTURAL WORKS ARE TO BE INSPECTED AND CERTIFIED BY A
- 43. ALL RETAINING WALLS OVER 900mm REQUIRE STRUCTURAL CERTIFICATION.
- SERVICES SHOWN ON THESE PLANS ARE NOT GUARANTEED COMPLETE OR CORRECT AND HAVE BEEN LOCATED FRO INFORMATION SUPPLIED BY THE RELEVANT AUTHORITY AND FIELD INVESTIGATION. PRIOR TO COMMENCEMENT OF EXCAVATION FOR PROPOSED AND EXISTING SERVICES CONTRACTOR MUST CONTACT 'DIAL BEFORE YOU DIG' PH. 1100.

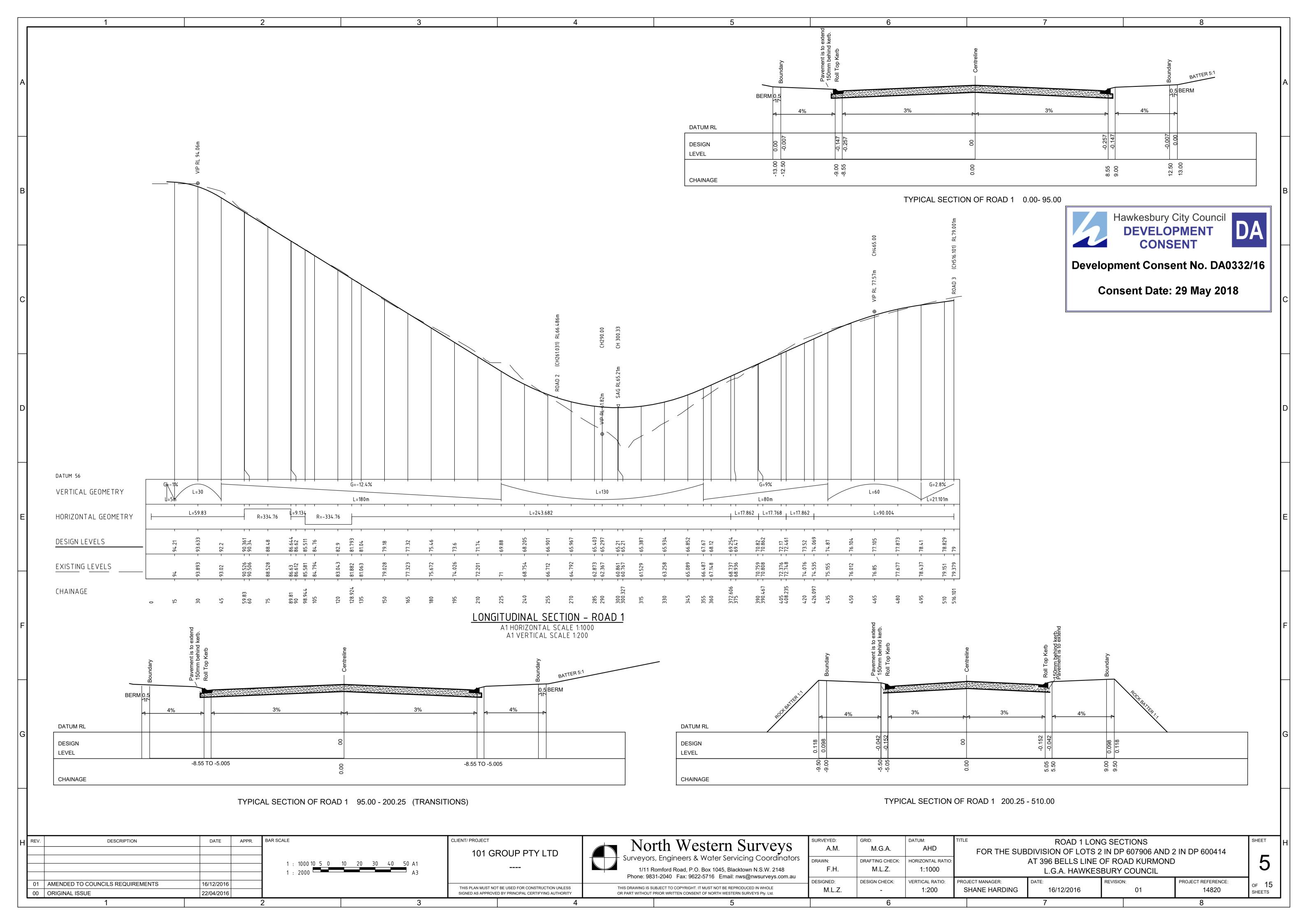


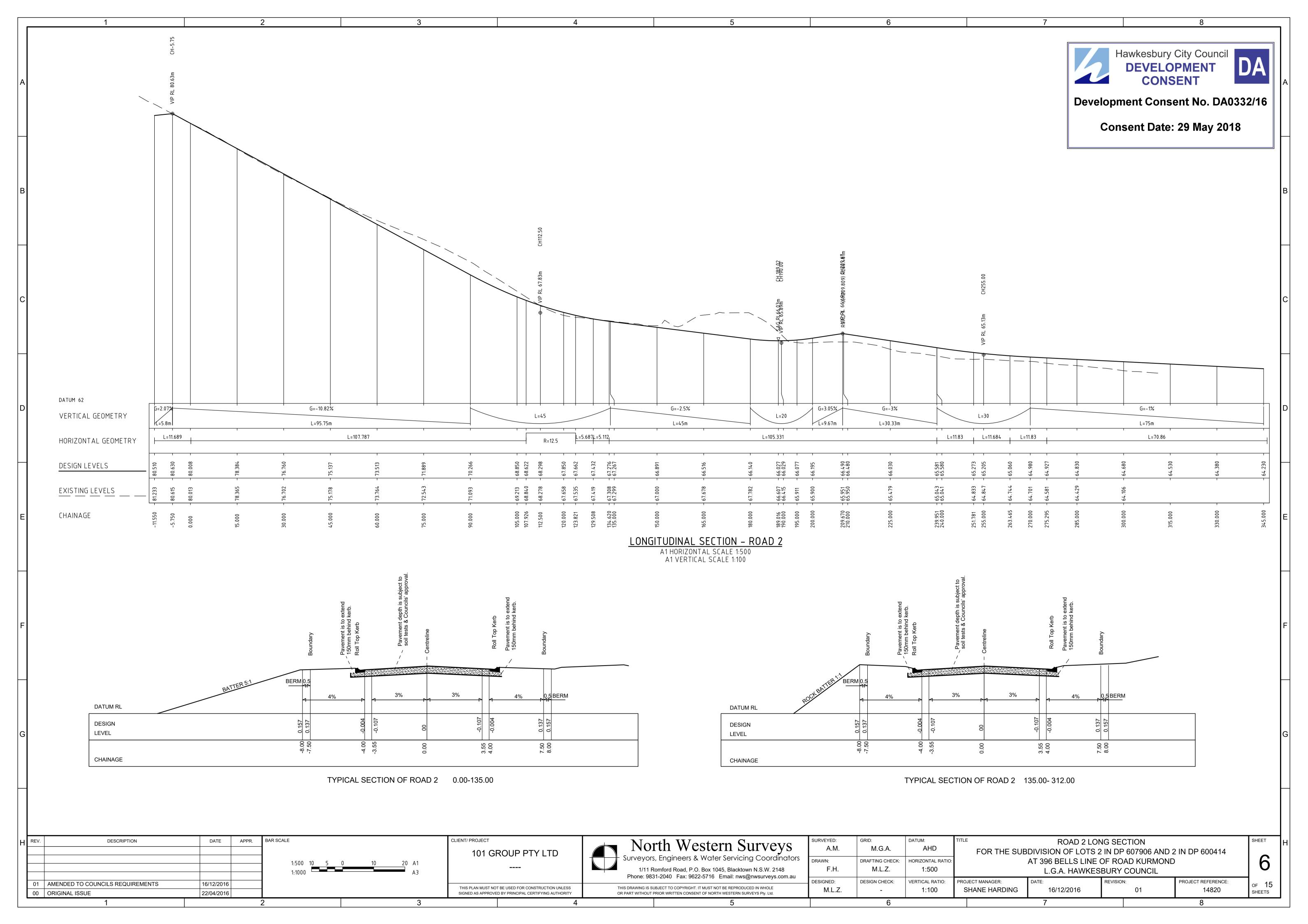
H REV.	DESCRIPTION	DATE APPR.	BAR SCALE  1 · 1000 10 5 0 10 20 30 40 50 Δ1	101 GROUP PTY LTD		North Western Surveys			M.G.A.	AHD	FOR THE SUE		SHEET 2 IN DP 607906 AND	T P 607906 AND 2 IN DP 600414		
			1 : 2000	A3			1/	rs, Engineers & Water Servicing Coordinators /11 Romford Road, P.O. Box 1045, Blacktown N.S.W. 2148 : 9831-2040 Fax: 9622-5716 Email: nws@nwsurveys.com.au	F.H.	DRAFTING CHECK: M.L.Z.	HORIZONTAL RATIO:			OF ROAD KURMON SBURY COUNCIL	)	_  1
01 AI 00 O	MENDED TO COUNCILS REQUIREMENTS DRIGINAL ISSUE	16/12/2016 22/04/2016 -	- - -			T NOT BE USED FOR CONSTRUCTION UNLESS ROVED BY PRINCIPAL CERTIFYING AUTHORITY		VING IS SUBJECT TO COPYRIGHT. IT MUST NOT BE REPRODUCED IN WHOLE ITHOUT PRIOR WRITTEN CONSENT OF NORTH WESTERN SURVEYS Pty. Ltd.	DESIGNED: M.L.Z.	DESIGN CHECK:	VERTICAL RATIO:	PROJECT MANAGER: SHANE HARDING	DATE: 04/04/2016	REVISION: 01	PROJECT REFERENCE: 14820	OF 15 SHEETS
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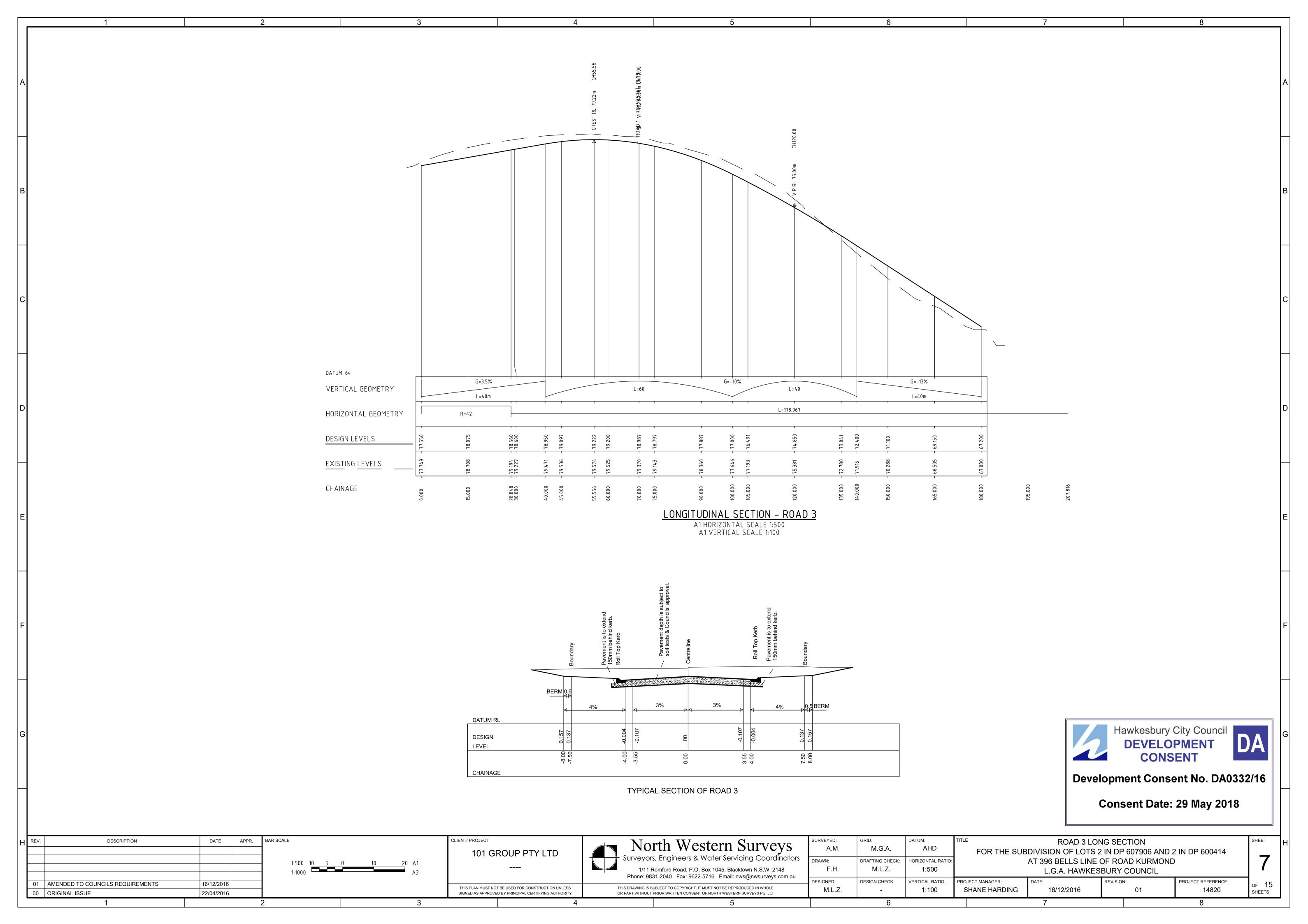


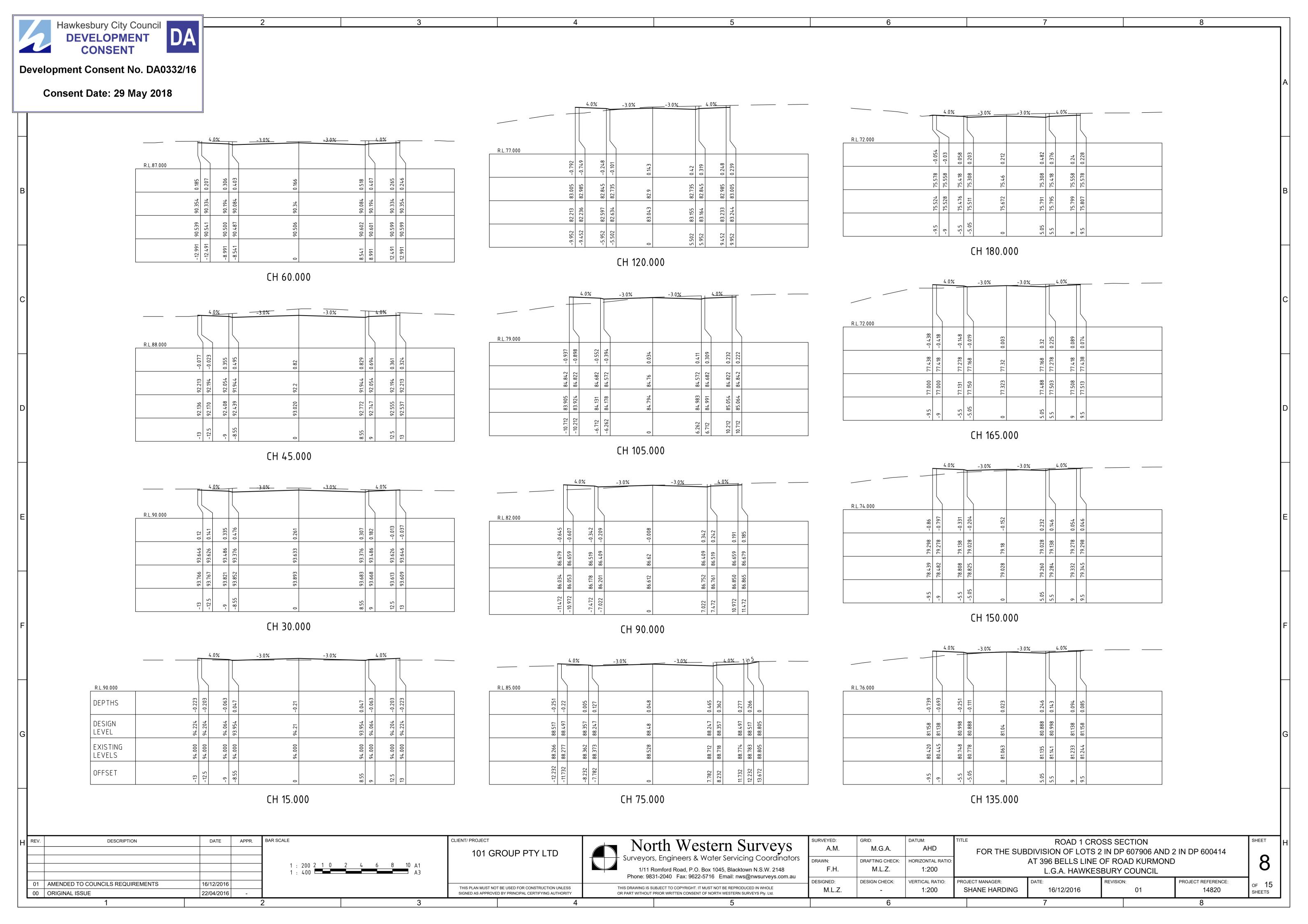


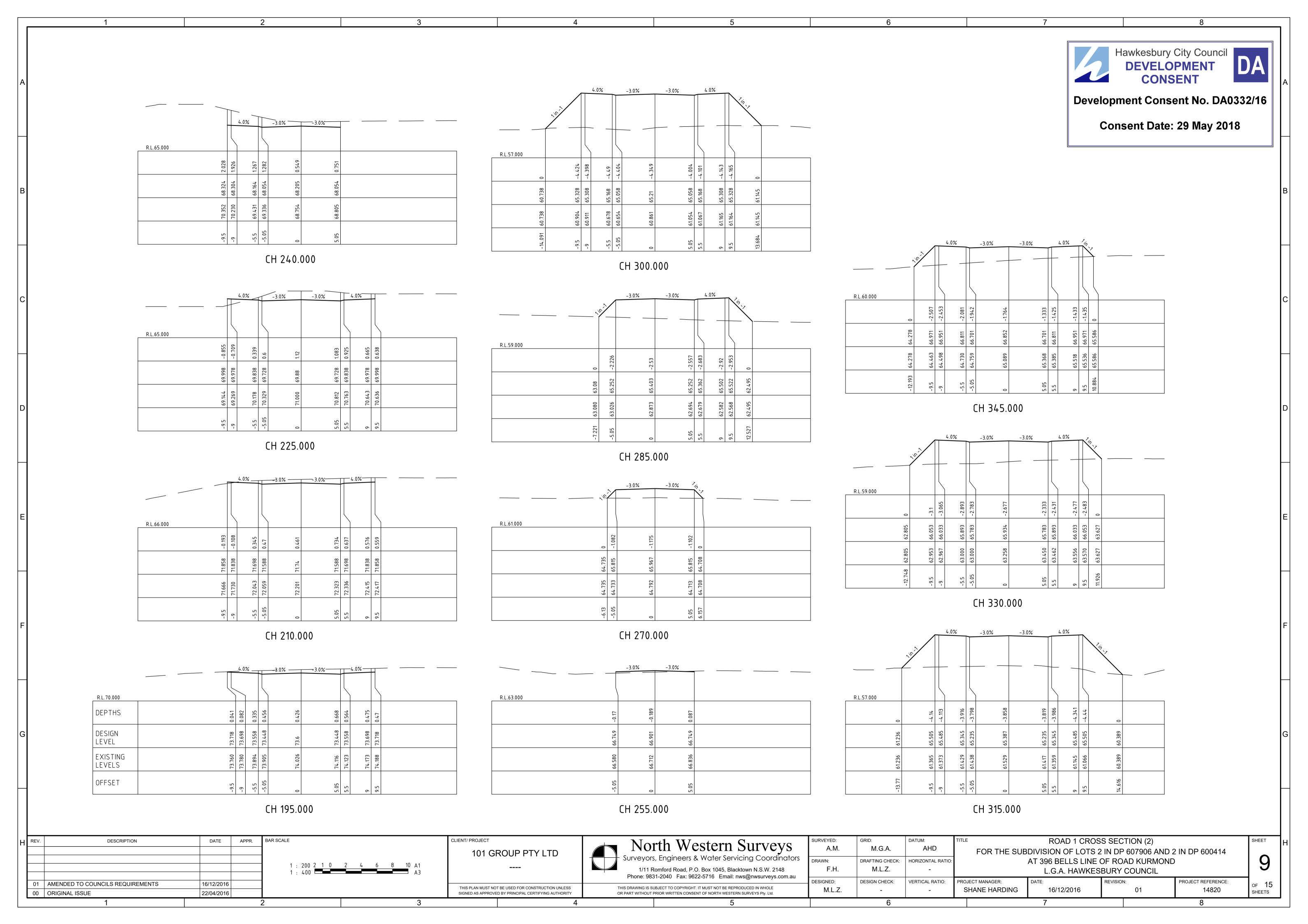


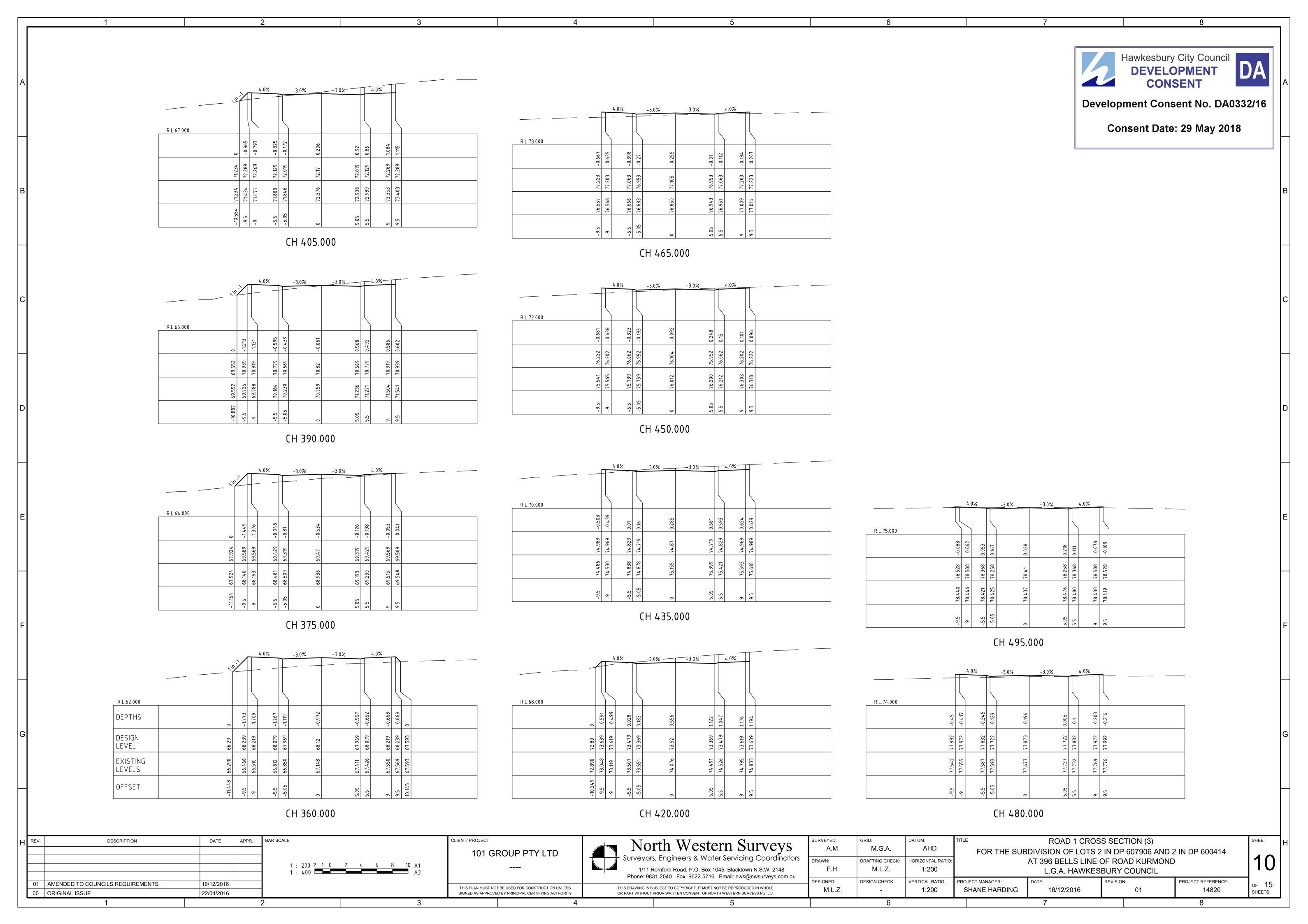


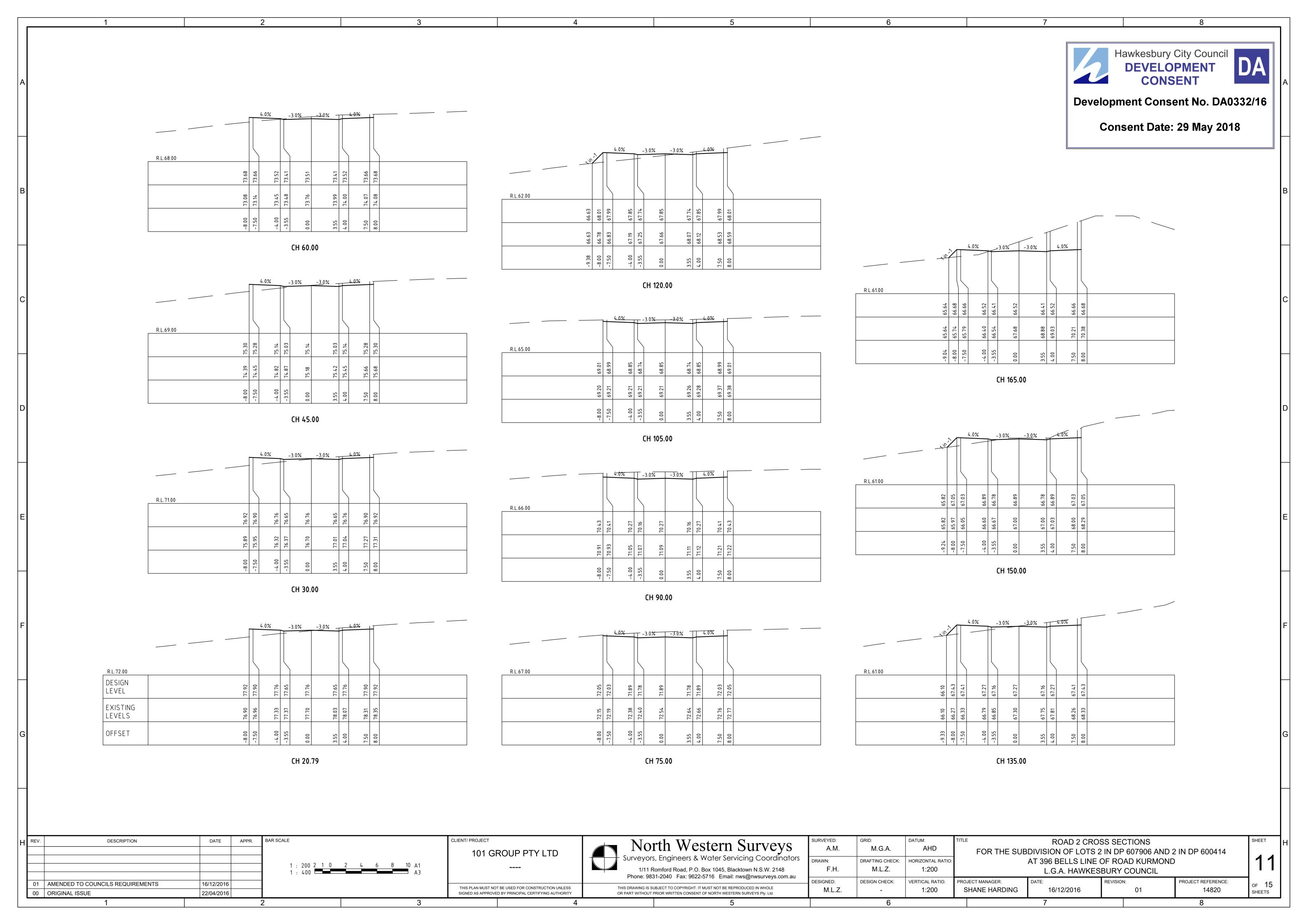


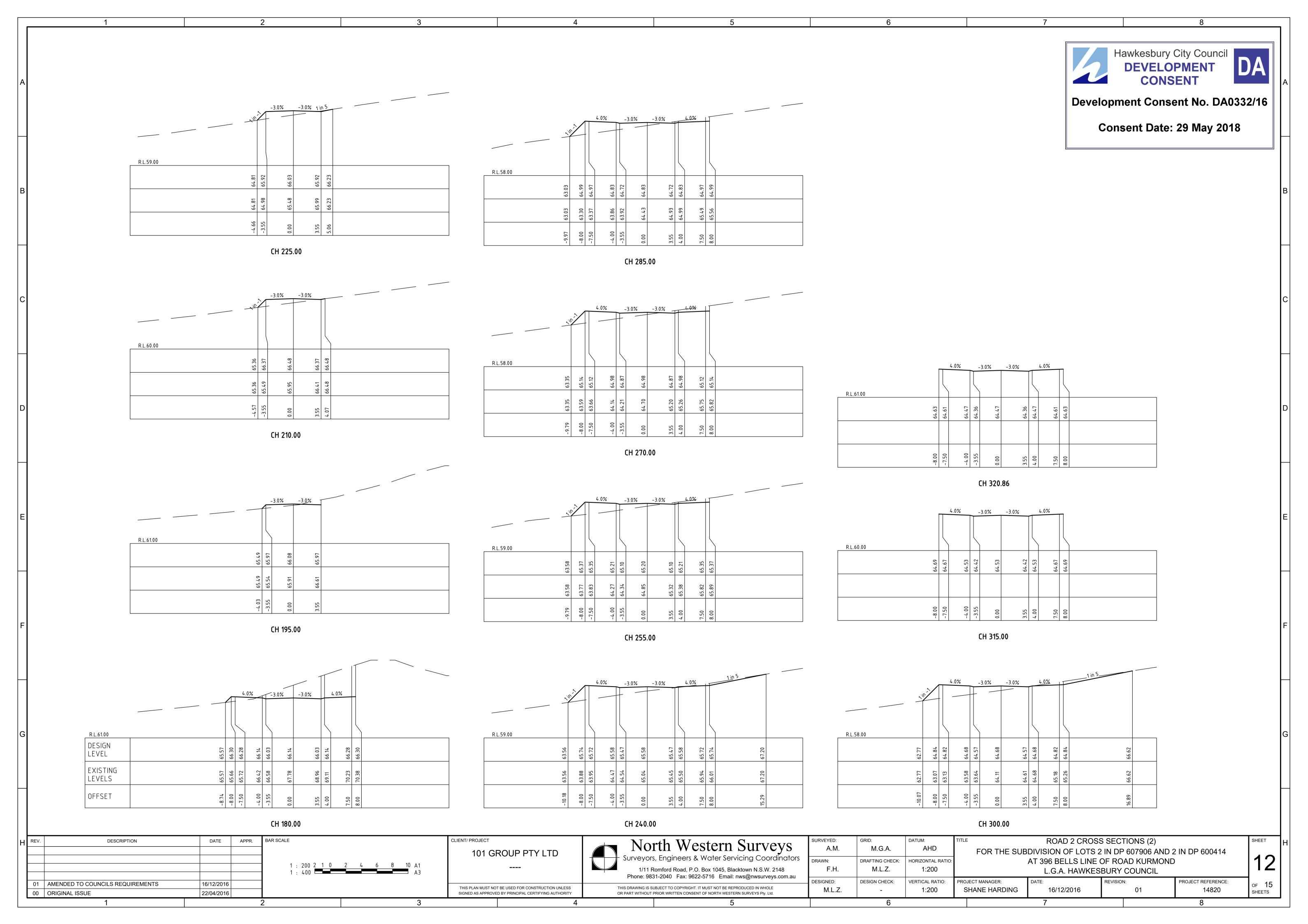


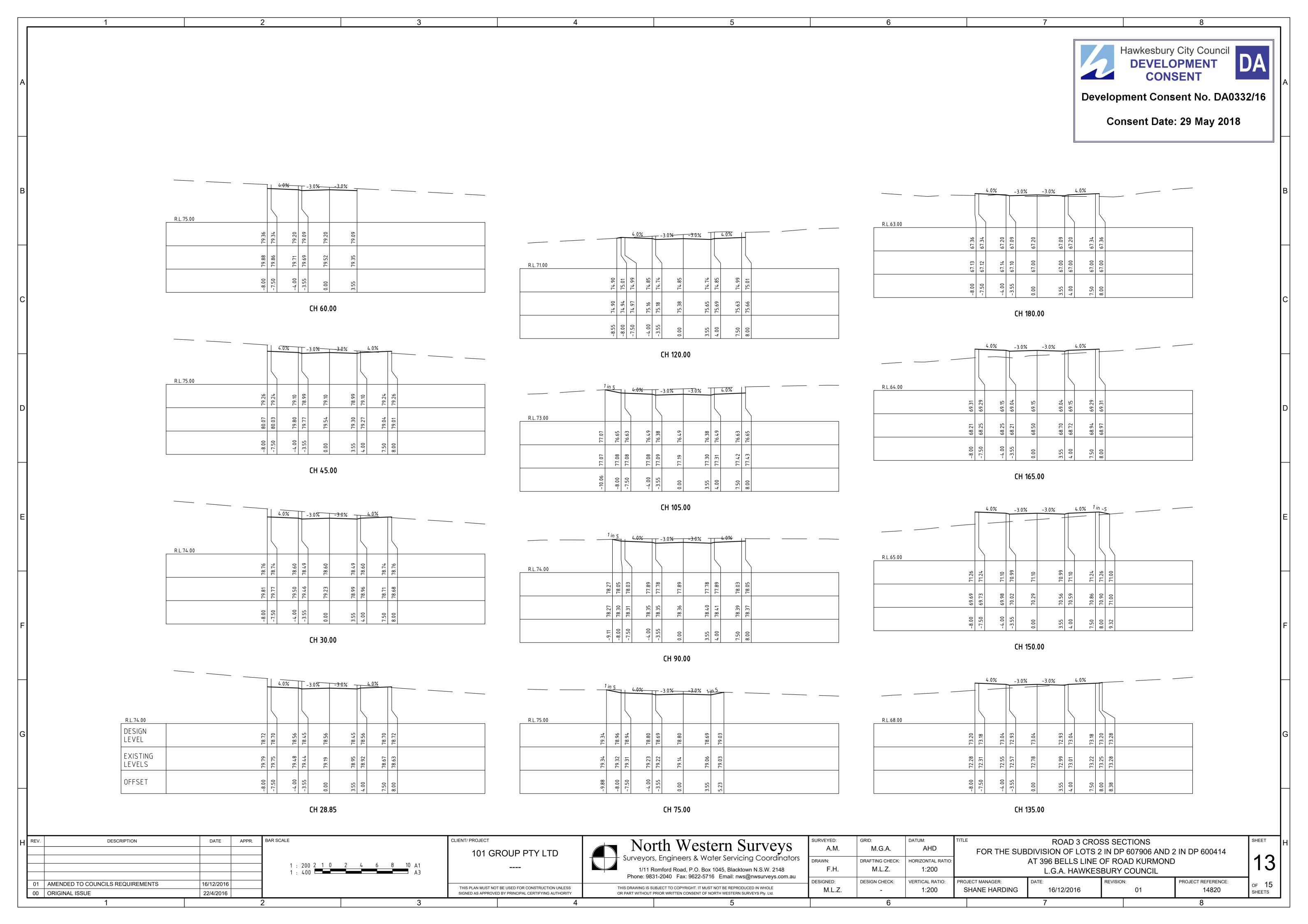


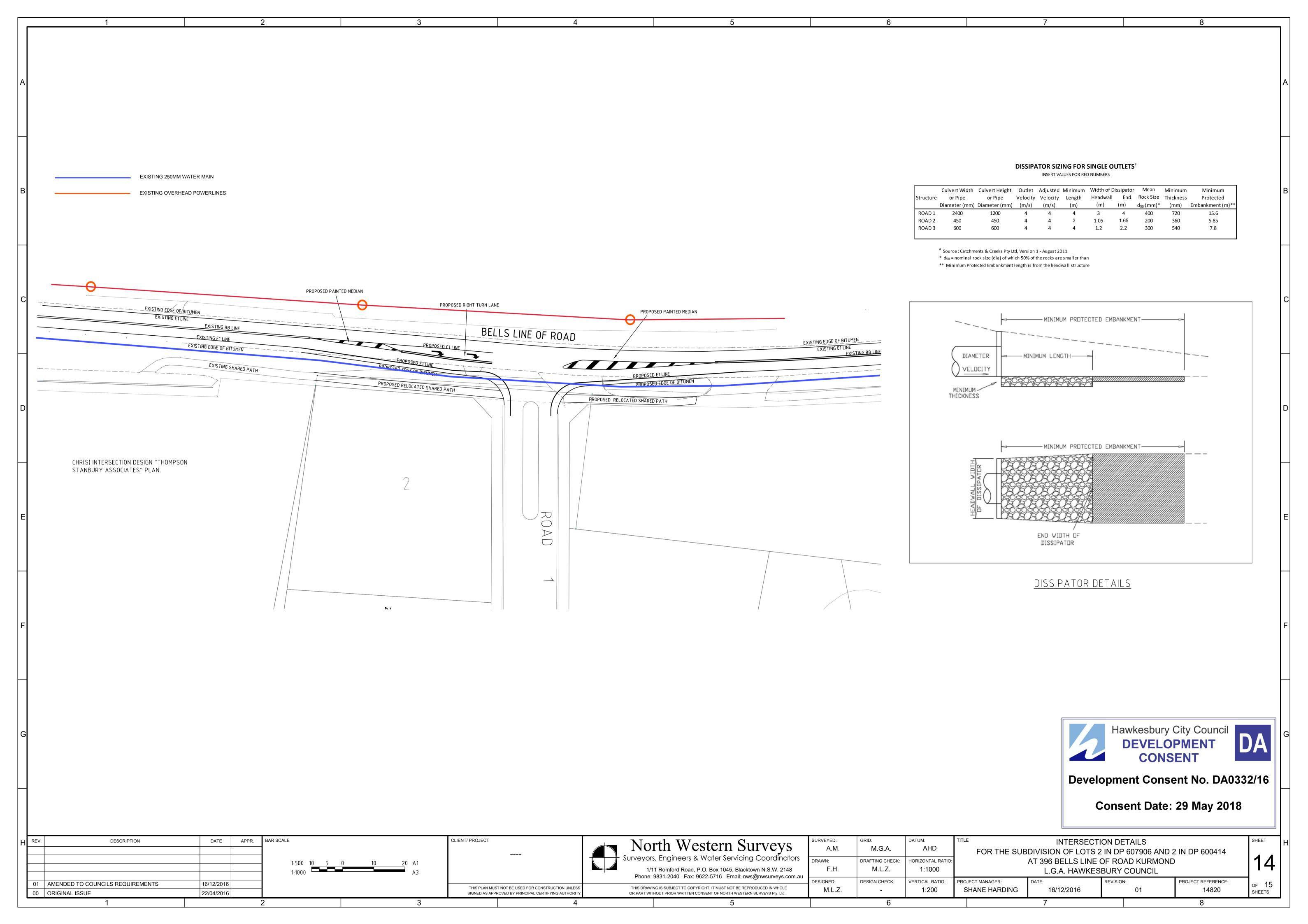


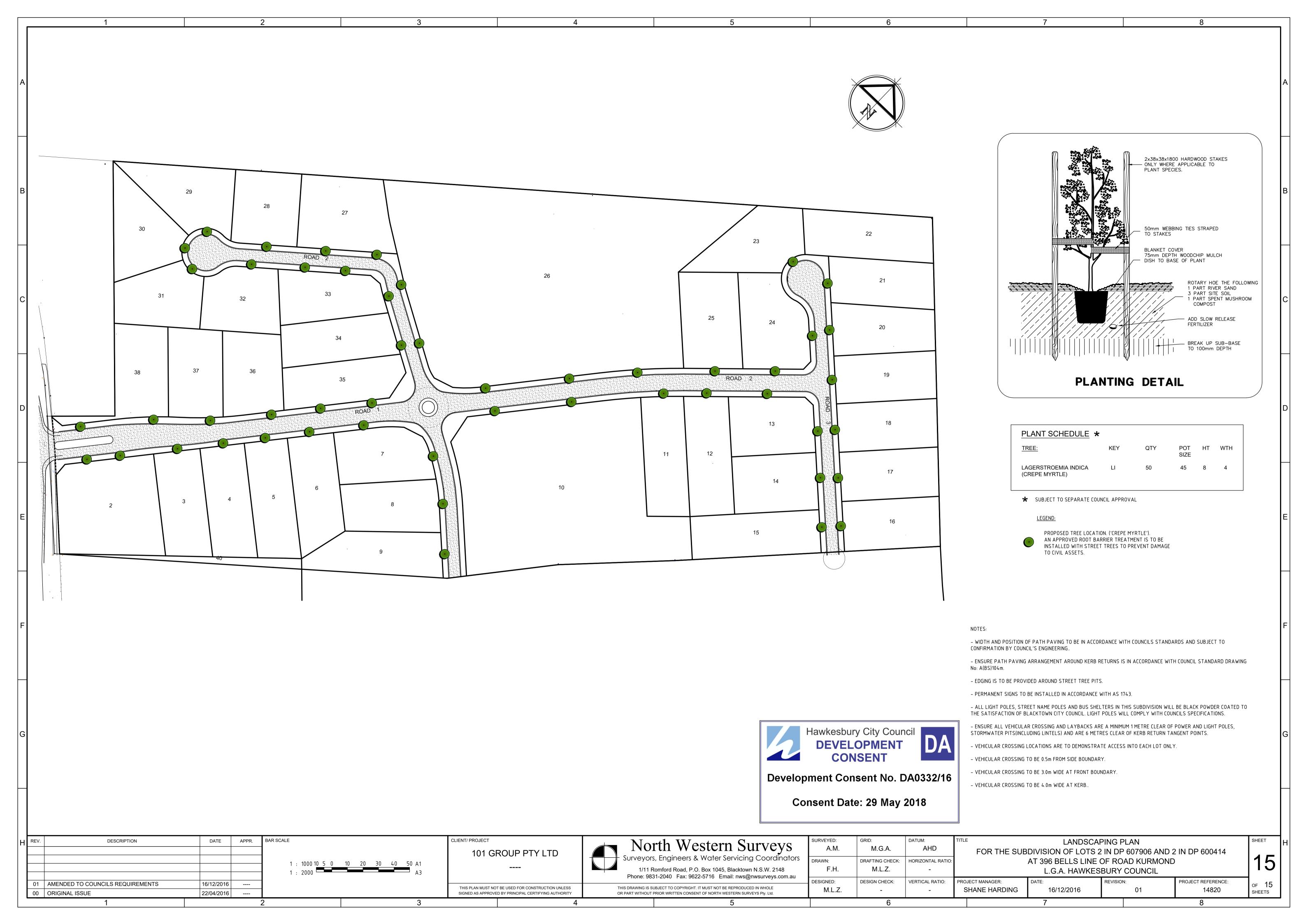


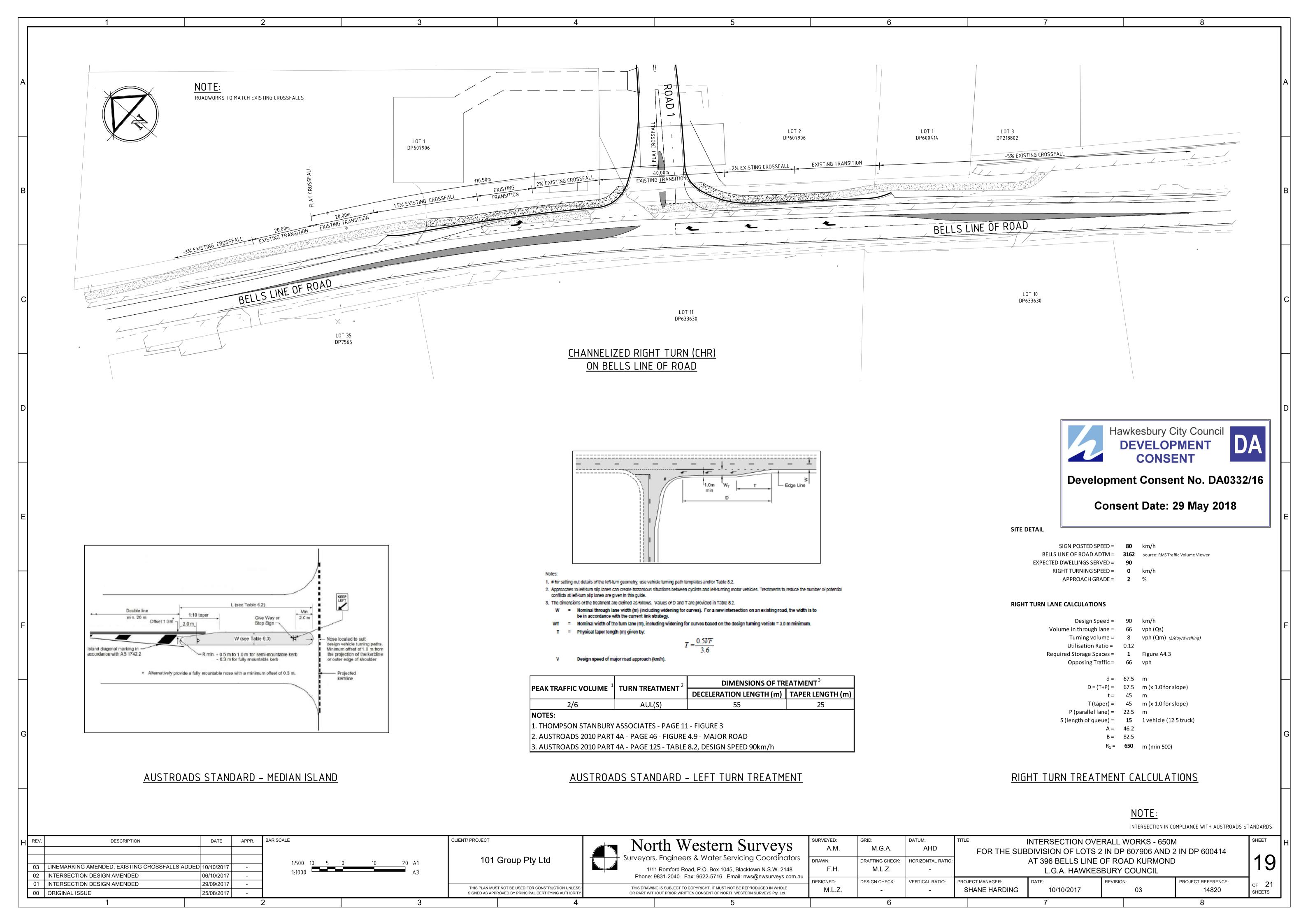


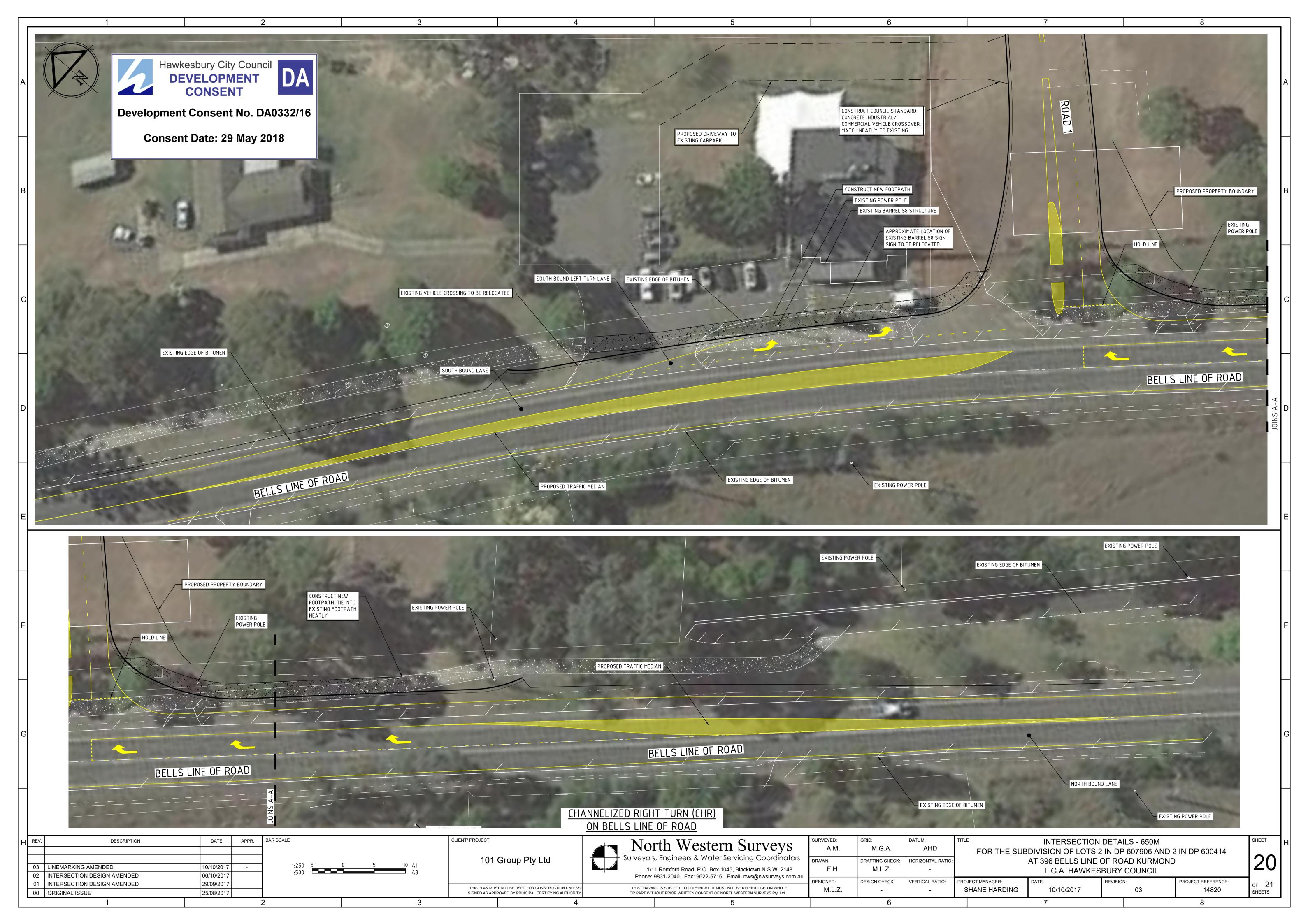


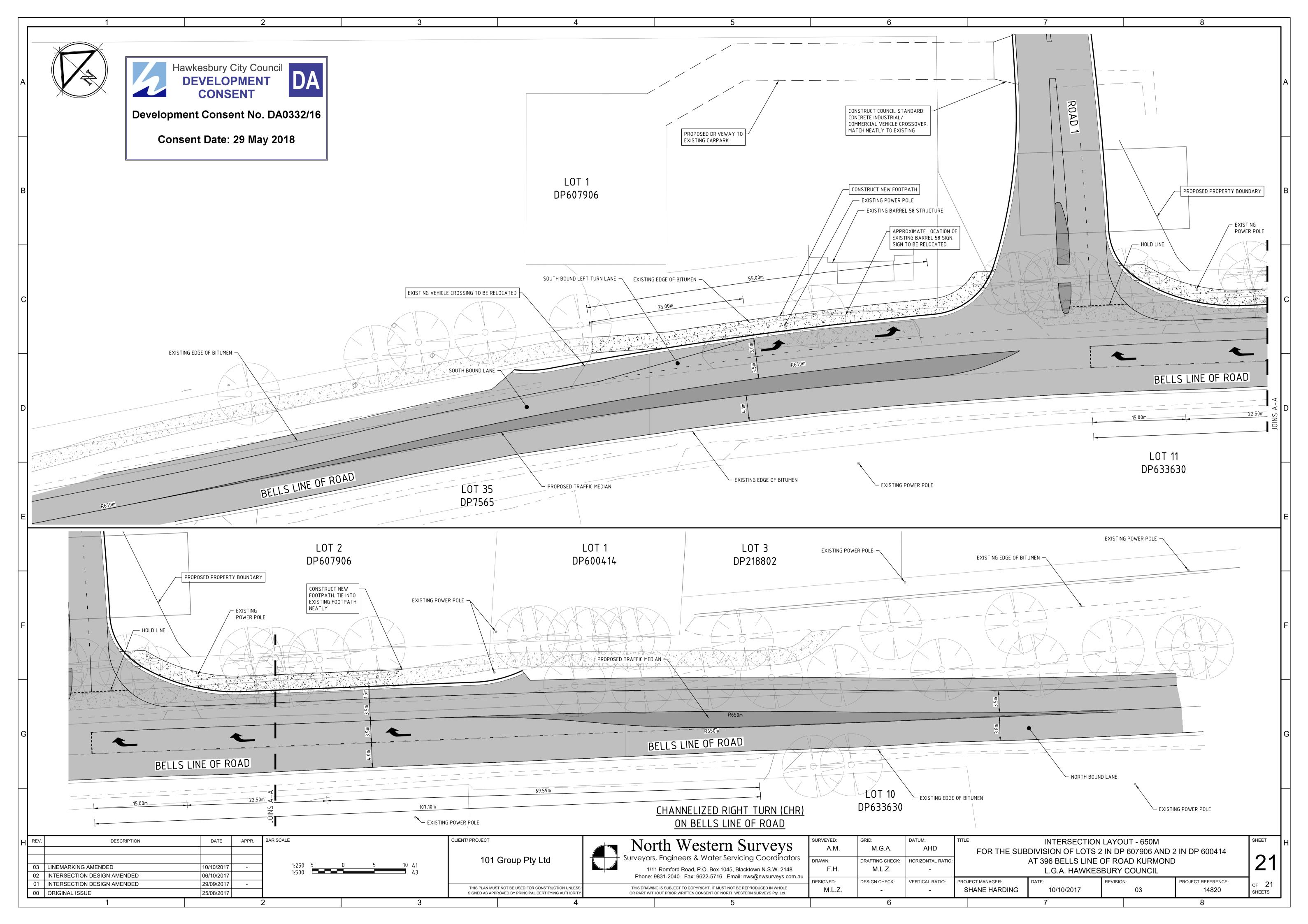


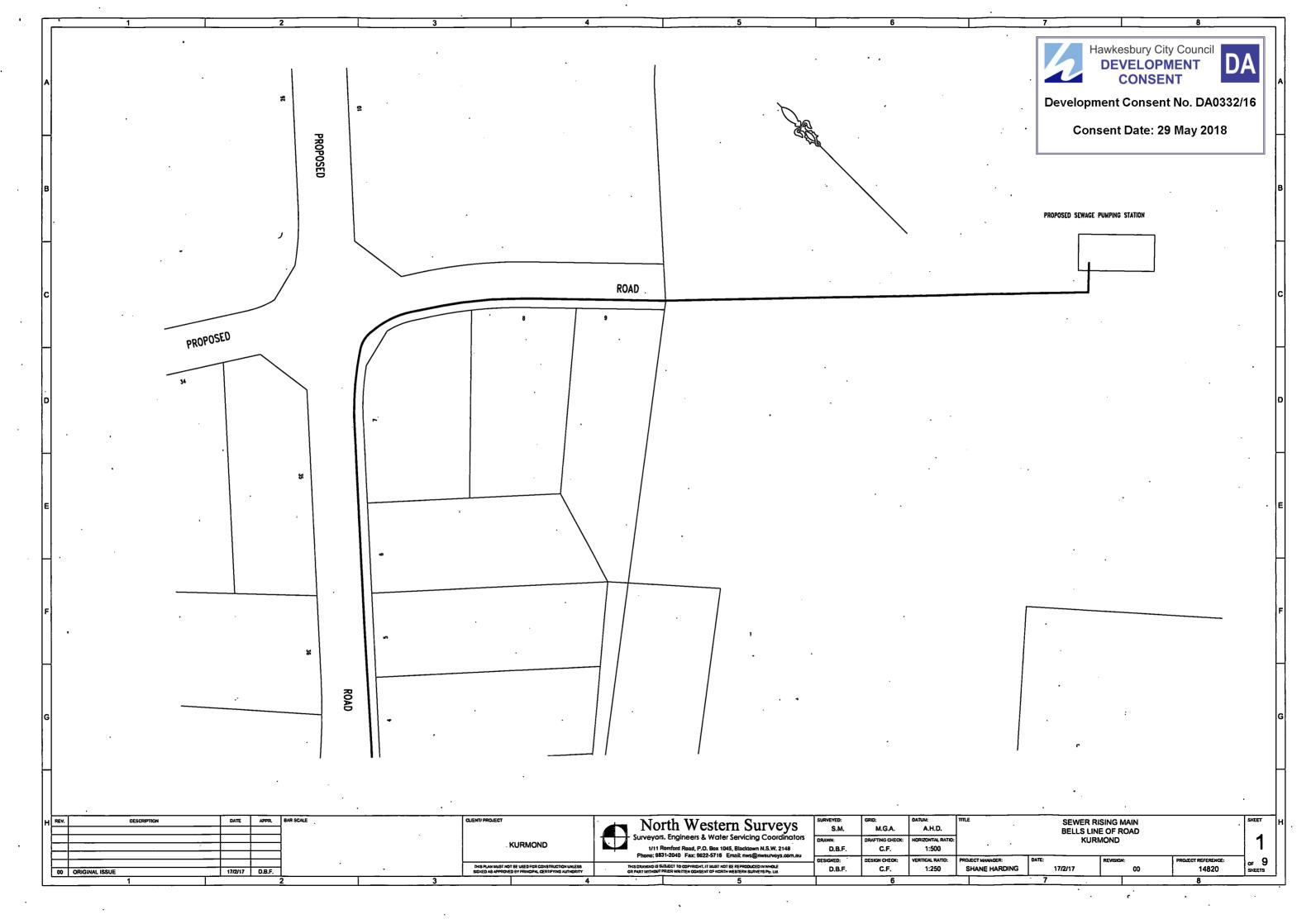


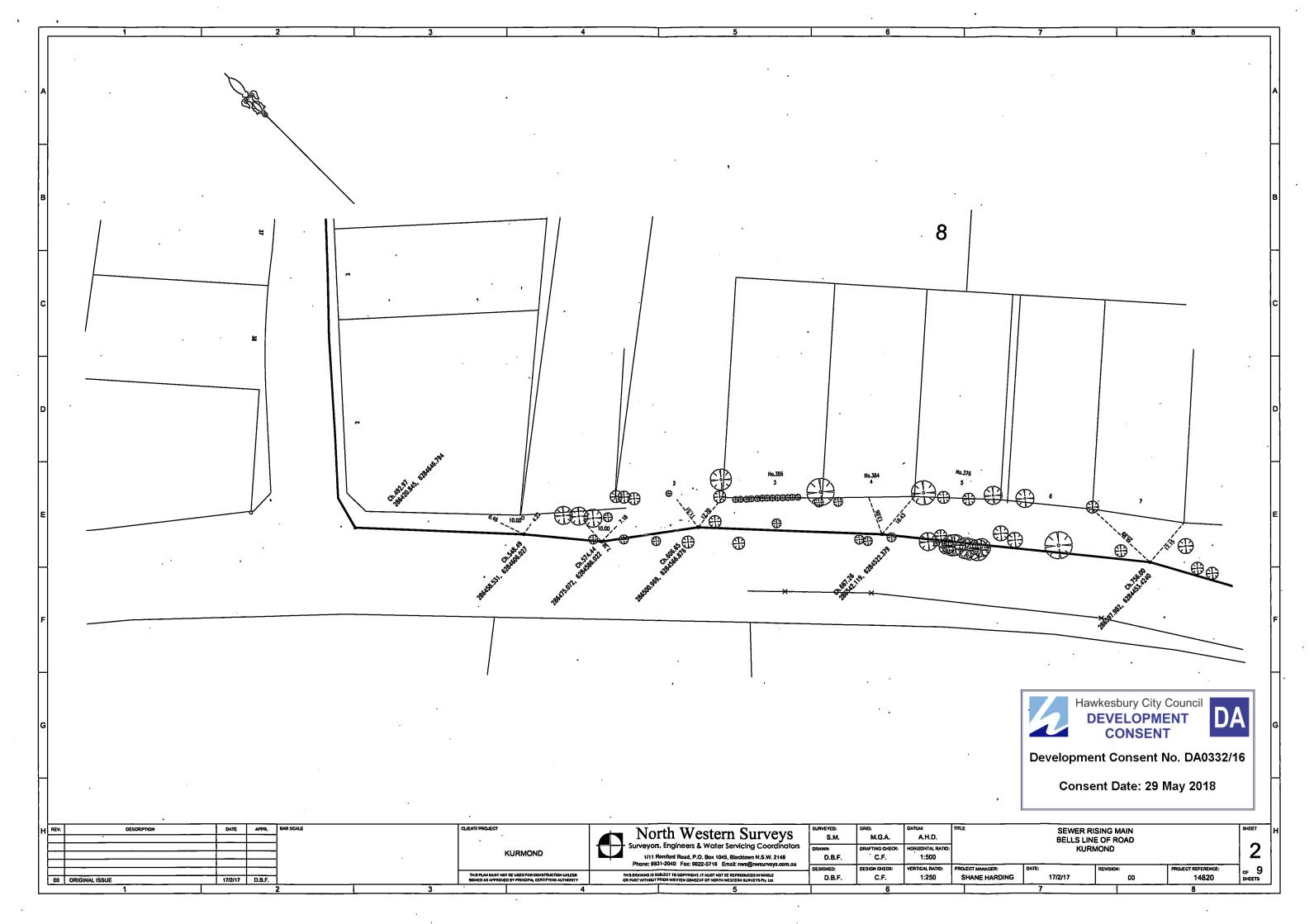


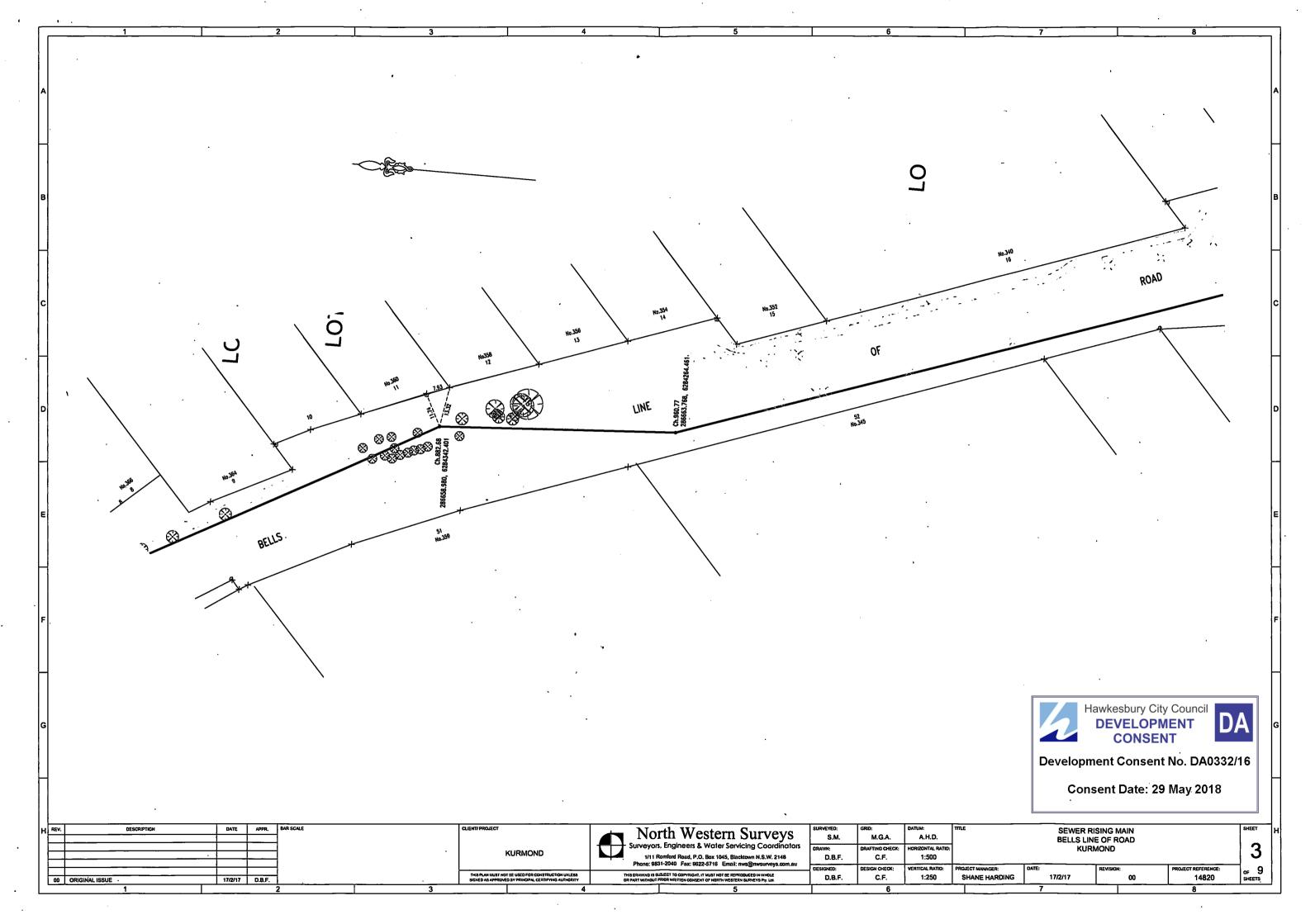


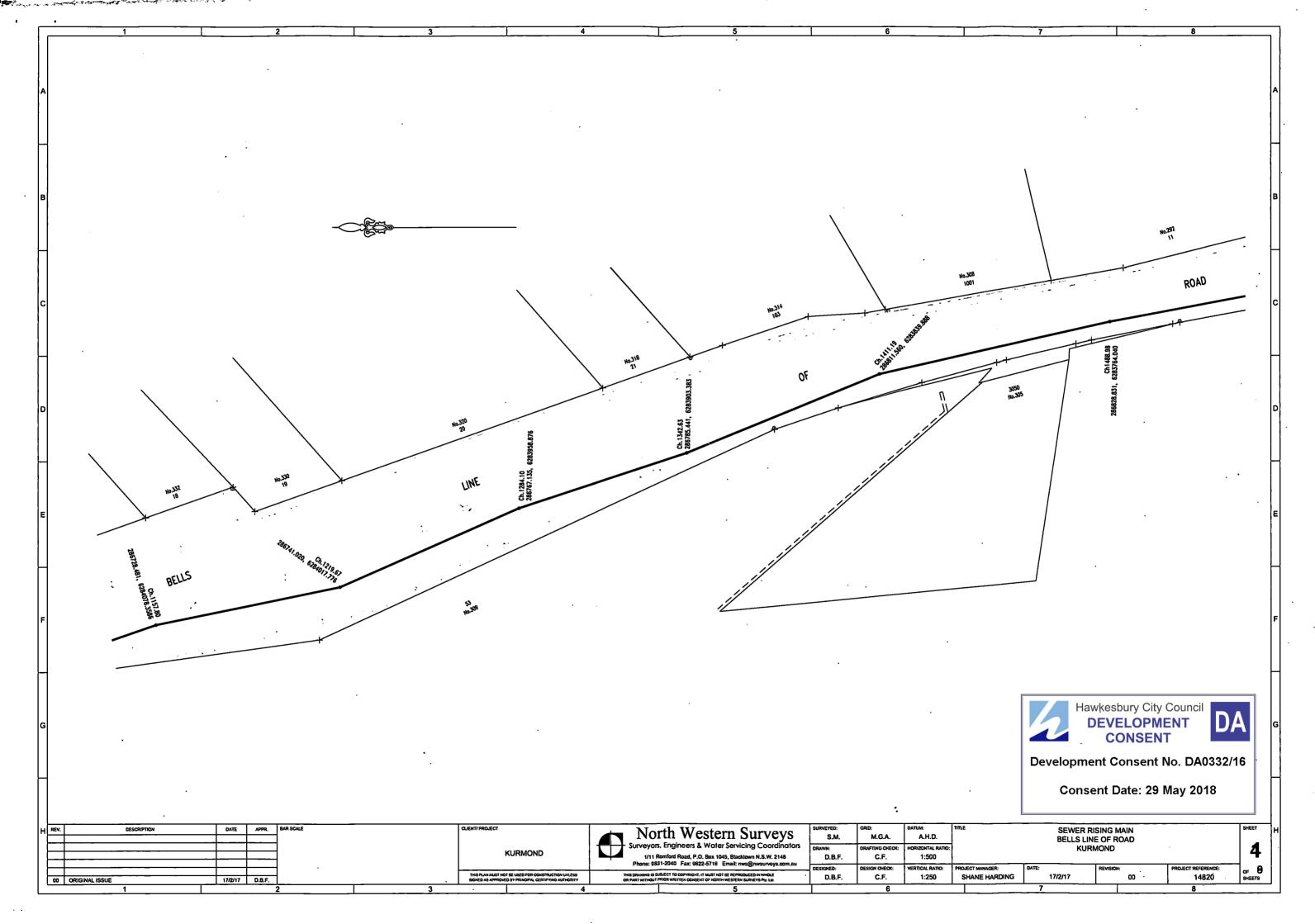


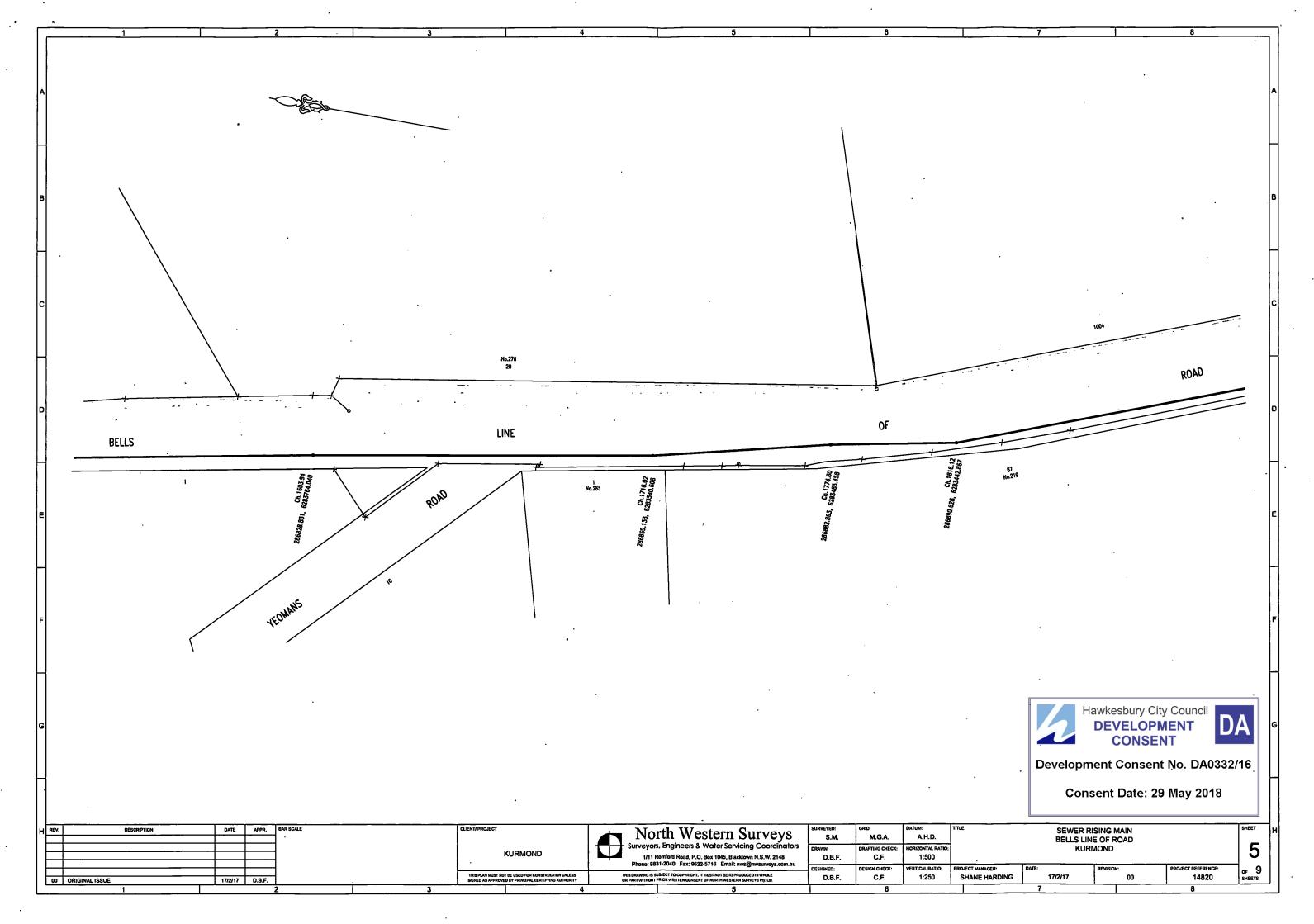




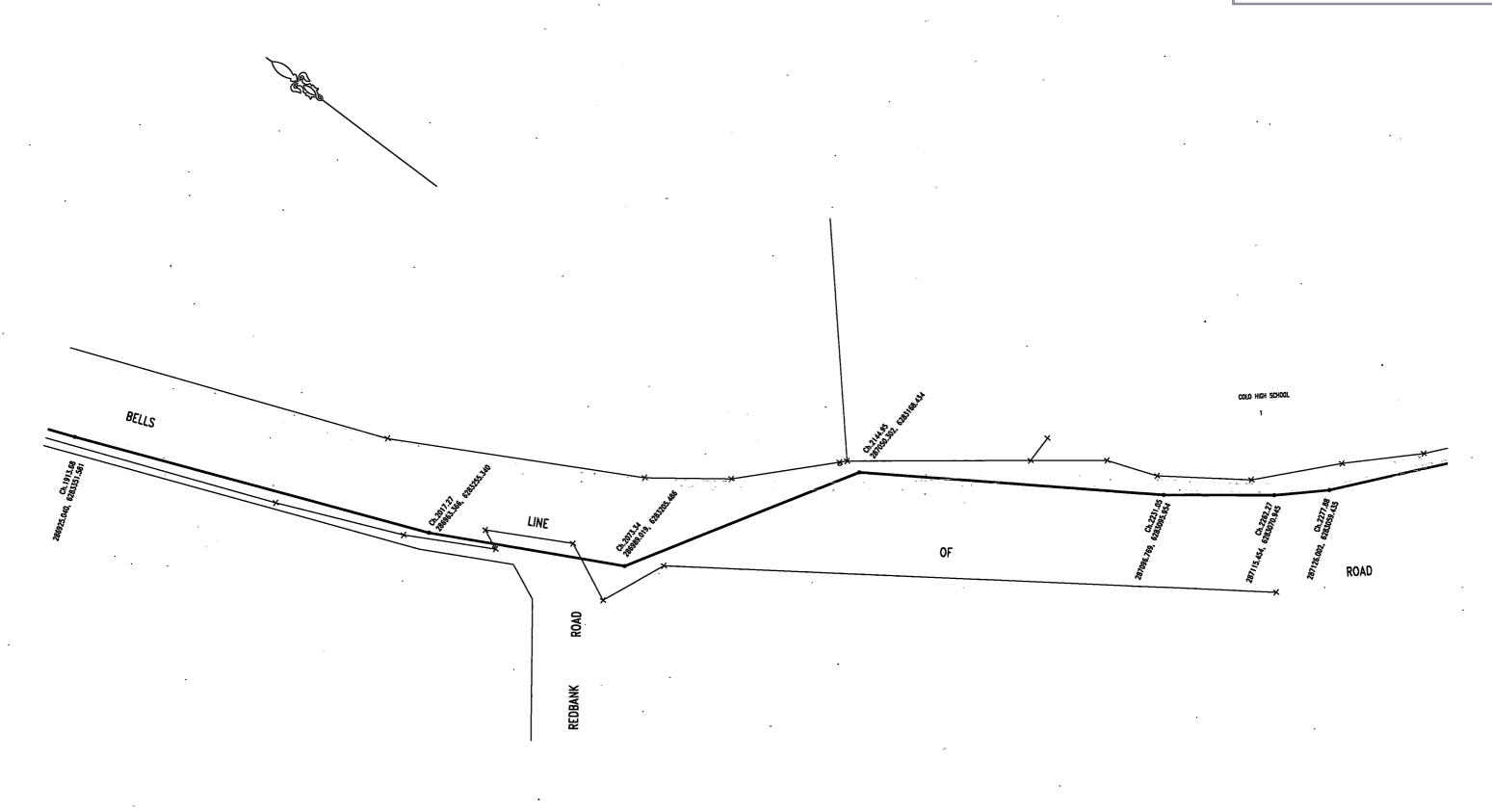








Consent Date: 29 May 2018



KURMOND

M. M.G.A: A.H.D. SEWER RISING MAIN BELLS LINE OF ROAD KURMOND

B.F. C.F. 1:500

