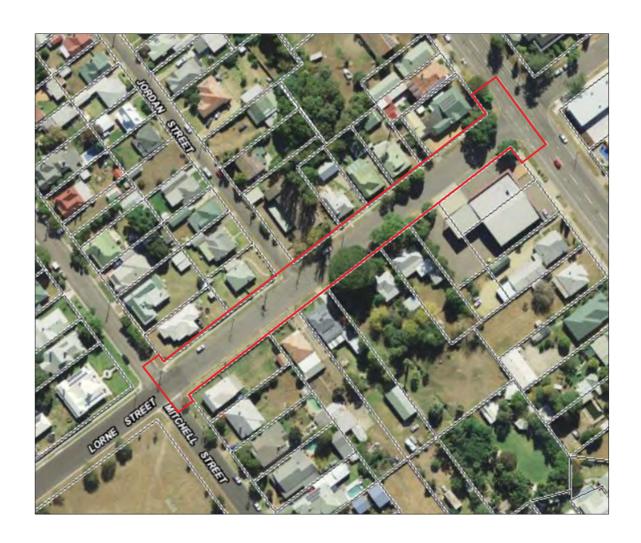
LORNE STREET, MUSWELLBROOK KERB UPGRADE

SHEET INDEX	
SHEET 0	COVER AND SHEET INDEX
SHEET 1	GENERAL NOTES
SHEET 2	EROSION AND SEDIMENT NOTES
SHEET 3	GENERAL ARRANGEMENT CH0 - CH134.7
SHEET 4	GENERAL ARRANGEMENT CH134.7 - CH216.3
SHEET 5	GENERAL ARRANGEMENT BOX CULVERT
SHEET 6	BOX CULVERT DETAIL
SHEET 7	LONGITUDINAL SECTIONS - CENTRELINE
SHEET 8	LONGITUDINAL SECTION - LEFT LIP
SHEET 9	LONGITUDINAL SECTIONS - RIGHT LIP
SHEET 10	KERB RETURNS 1 & 2
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SHEET 14	CROSS SECTIONS CH15 - 30
SHEET 15	CROSS SECTIONS CH45 - 60
SHEET 16	CROSS SECTIONS CH75 - 90
SHEET 17	CROSS SECTIONS CH105 - 120
SHEET 18	CROSS SECTIONS CH135 - 150
SHEET 19	CROSS SECTIONS CH165 - 180
SHEET 20	CROSS SECTIONS CH195 - 210
SHEET 21	DRAINAGE LINE 1



LOCALITY PLANS
N.T.S.

PLANS PREPARED BY	CLIENT	LORNE STREET KERE	3 UPGRADE	SCALE: DO NOT SCALE	Α	ISSUED TO CLIENT	20/12/2021	
MM HYNDES BAILEY & Co.				SCALE. DO NOT SCALE	В	BOX CULVERT ADDED	REV: B	
REGISTERED SURVEYORS - TOWN PLANNING - CIVIL DESIGN	CLIENT: MUSWELLBROOK SHIRE COUNCIL	LORNE STREET, MUSWELL	BROOK	LGA: MUSWELLBROOK			REV. D	
Surveying the Hunter since 1920	WIOSWELLBROOK SHIRE COUNCIL	DESIGN: M. COLE	DRAWN: M. COLE	prawing no. SHEET 0			JOB REF:	
Ph: 02 65432475 Email: office @hbsurveys.com.au PO Box 26, MUSWELLBROOK NSW 2333		WI. COLL	IVI. COLL	DIAWING NO. OTILLY 0			221259	

GENERAL

CG1. THE INFORMATION CONTAINED ON THESE DRAWINGS IS FOR CIVIL ENGINEERING PURPOSES ONLY. ALL DISCREPANCIES WITH OTHER CONSULTANTS DOCUMENTATION THAT COULD RESULT IN CHANGES TO THE CIVIL ENGINEERING DETAILS SHALL BE REFERRED TO THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.

CG2. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH MUSWELLBROOK SHIRE COUNCIL GUIDELINES AND/OR AS DIRECTED BY THE SUPERINTENDENT.

CG3. SERVICES INFORMATION SHOWN ON THESE PLANS IS FOR INFORMATION PURPOSES ONLY AND SHALL NOT BE RELIED UPON BY ANY PERSONS USING THESE PLANS. IT REMAINS THE RESPONSIBILITY OF THE CONTRACTOR OR ANY OTHER PERSONS TO LOCATE AND LEVEL ALL EXISTING SERVICES AND UTILITIES PRIOR TO COMMENCING ANY WORKS ON THE SITE AND TO PROTECT AND MAKE ARRANGEMENTS WITH THE RELEVANT AUTHORITY TO RELOCATE AND/OR ADJUST IF NECESSARY.



CG4. CONTRACTOR IS NOT TO ENTER UPON NOR DO ANY WORK WITHIN ADJACENT LANDS WITHOUT THE PERMISSION OF THE OWNER AND SUPERINTENDENT.

CG5. CONTRACTOR SHALL CLEAR THE SITE BY REMOVING ALL RUBBISH, FENCES AND DEBRIS, ETC. TO THE EXTENT SPECIFIED.

CG6. THE SITE SHALL BE KEPT CLEAN AND CLEAR OF RUBBISH AT ALL TIMES. RUBBISH STORAGE AREAS DISPOSAL AREAS SHALL BE KEPT CLEAR DRAINAGE PATHS

CG7. ALL SITE REGRADING AREAS SHALL BE FINALLY GRADED AND SEED AS SOON AS PRACTICABLE AFTER FORMATION TO THE SATISFACTION OF THE SUPERINTENDENT.

CG8. SURPLUS EXCAVATED MATERIAL SHALL BE PLACED WHERE DIRECTED OR REMOVED FROM SITE.

CG9. ALL NEW WORKS SHALL MAKE A SMOOTH JUNCTION WITH EXISTING.

EARTHWORKS

BE1. EROSION AND SEDIMENTATION CONTROL SHALL BE IN PLACE AND APPROVED PRIOR TO ANY SITE DISTURBANCE

BE2. OVER FULL AREA OF EARTHWORKS, CLEAR VEGETATION, RUBBISH, SLABS, FENCES etc. AND REMOVE FROM SITE.

BE3. STRIP TOPSOIL AVERAGE 100mm THICK WHICH SHALL BE RETAINED ON SITE AND UTILISED EFFECTIVELY TO ENCOURAGE APPROPRIATE REVEGETATION.

BE4. EXCESS FILL SHALL BE REMOVED FROM SITE TO A LOCATION AS AGREED AND APPROVED WITH COUNCIL

BE5. IN AREAS OF CUT OR IN EXISTING GROUND, PRIOR TO ANY FILLING, PROOF ROLL THE EXPOSED SURFACE IN ACCORDANCE WITH CLAUSE 5.4 OF AS 3798 ENSURING THAT ADJACENT STRUCTURES ARE NOT DAMAGED DURING WORKS.

BE6. EXCAVATE AND REMOVE ANY SOFT SPOTS ENCOUNTERED DURING PROOF ROLLING AND REPLACE WITH APPROVED FILL COMPACTED IN LAYERS. THE WHOLE OF THE EXPOSED SUBGRADE AND FILL SHALL BE COMPACTED TO 95% STANDARD MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT ± 2%.

BE7. WHERE HARD ROCK IS EXPOSED IN THE EXCAVATED SUBGRADE, THIS WILL BE INSPECTED AND A DECISION MADE ON THE LEVEL TO WHICH EXCAVATION IS TAKEN.

BE8. ALL WORK SHALL BE IN ACCORDANCE WITH AS 3798. FILL IS TO BE PLACED IN LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS. ALL FILL IS TO BE COMPACTED TO 95% STANDARD MAXIMUM DRY DENSITY. MAXIMUM PARTICLE SIZE SHALL BE 2/3 OF THE LAYER THICKNESS

BE9. ALL BATTERS AND VERGES ADJACENT TO ROADS AND ALL AREAS WHERE FILLING HAS BEEN PLACED ARE TO BE DRESSED WITH 100mm CLEAN ARABLE TOPSOIL. FERTILIZED AND SOWN

NOTE: WORK IN COUNCIL ROADS REQUIRE \$138 CERTIFICATE PRIOR TO WORKS BEING STARTED

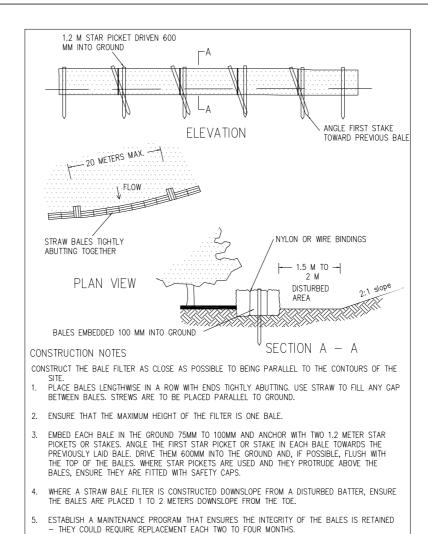
ORIGINAL DRAWINGS ARE IN COLOUR

1. ONLY USE PLANS THAT ARE IN COLOUR.

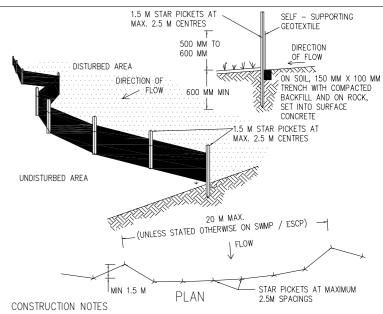
PLANS PREPARED BY 20/12/2021 CLIENT ISSUED TO CLIENT LORNE STREET KERB UPGRADE SCALE: DO NOT SCALE B BOX CULVERT ADDED **GENERAL NOTES** MM HYNDES BAILEY & Co. REV: B CLIENT: **REGISTERED SURVEYORS - TOWN PLANNING - CIVIL DESIGN** LGA: MUSWELLBROOK MUSWELLBROOK SHIRE COUNCIL DESIGN: JOB REF M. COLE M. COLE DRAWING NO. SHEET 1 Ph: 02 65432475 Email: office @hbsurveys.com.au 221259 PO Box 26, MUSWELLBROOK NSW 2333

EROSION AND SEDIMENT CONTROL

- 1. All works to be carried out in accordance with "MUSWELLBROOK DCP 2015". "Soils and Construction: Managing Urban Stormwater" (LANDCOM), "Pollution Control Manual for Urban Stormwater" (EDA), "Soil and Water Management for Urban Development" (D of H).
- 2. Erosion and sedimentation control devices are to be installed as required prior to site disturbance.
- 3. Site disturbance and vegetation removal shall be kept to the absolute minimum.
- 4. Silt is to be cleared from devices after all storm events.
- 5. All control devices are to be checked and maintained on a regular basis and adjustments made as necessary to ensure effective on going control.
- 6. All control devices are to be in place at the end of each days work.
- 7. Earthworks shall be rolled at the end of each day for stabilisation.
- 8. Topsoil shall be removed, stockpiled and stabilised for later re-use.
- 9. Excavated soil is to be mounded on the up hillside of trenches wherever
- 10. Tabledrains shall be topsoiled seeded and stabilised with jutemesh pinned down in accordance with manufactures instructions.
- 11. Cut and fill batters and table drains are to be stabilised and seeded as soon as practicable on completing the formation.
- 12. Sediment control devices and stormwater diversion are to be used to keep any new drainage lines and pits free of silt.
- 13. Denuded areas are to be topsoiled and seeded as soon as practicable. (See Landscape Plans.)
- 14. Turf strips are to be placed perpendicular to the direction flow.
- 15. Stockpile sites are to be selected such that are not in natural drainage
- 16. A sediment fence is to be place along the full length of the down stream side of any stockpile.
- 17. Staked hay bales shall be placed immediately upstream of the inlet and at the outlet of all culverts.
- 18. Batters are to be mulched and seeded IMMEDIATELY after formation. The contractor is to ensure that the area is fully vegetated and stabilised before leaving the site.

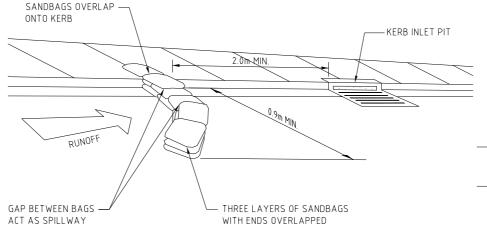


(TYPICAL)



- 1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
- 2. CUT A 150-MM DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE FABRIC TO
- 3. DRIVE 1.5 METER LONG STAR PICKETS INTO GROUND AT 2.5 METER INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY
- 4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE TO THE WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
- 5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150-MM OVERLAP.
- 6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER

SEDIMENT FENCE (TYPICAL)



STRAW BALE FILTER

SANDBAG KERB INLET SEDIMENT TRAP DETAIL - SB

TIMBER SPACER TO SUIT KERB INLET PIT GRAVEL-FILLED WIRE MESH OR GEOTEXTILE 'SAUSAGE'

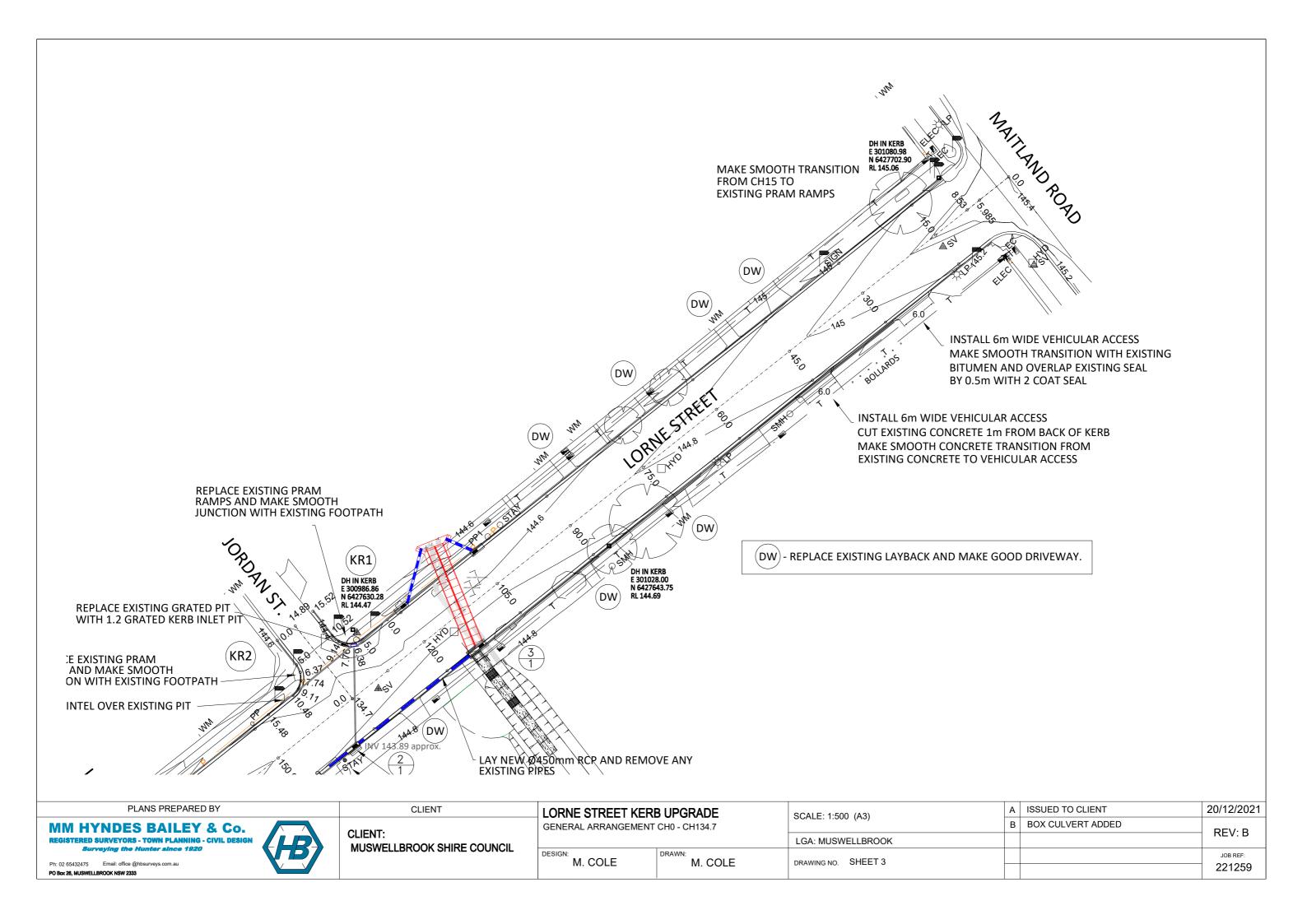
KERB INLET PIT SEDIMENT TRAP DETAIL - ST

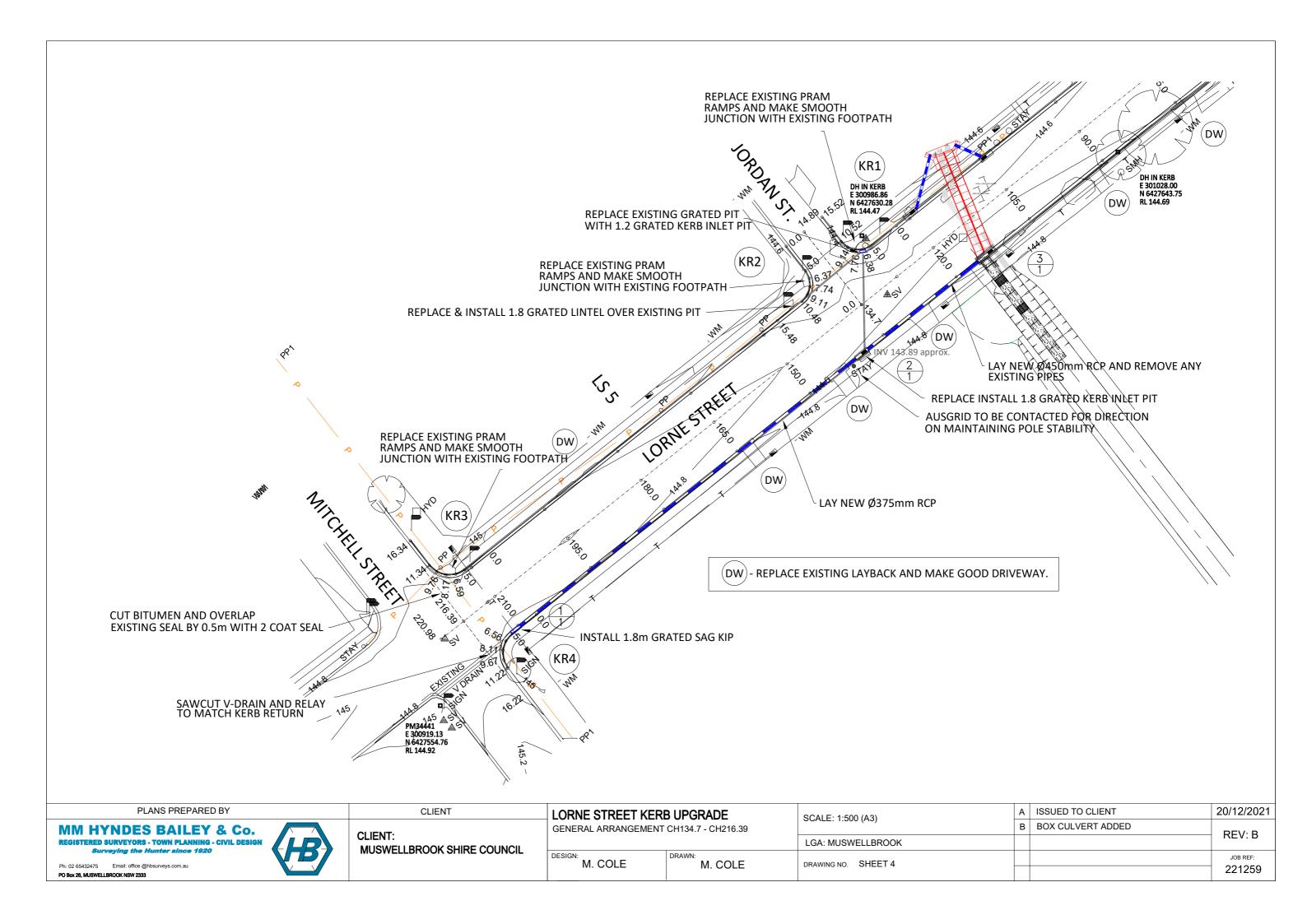
IN ACCORDANCE WITH LANDCOM 'BLUE BOOK SD6-11 MESH AND GRAVEL INLET FILTER

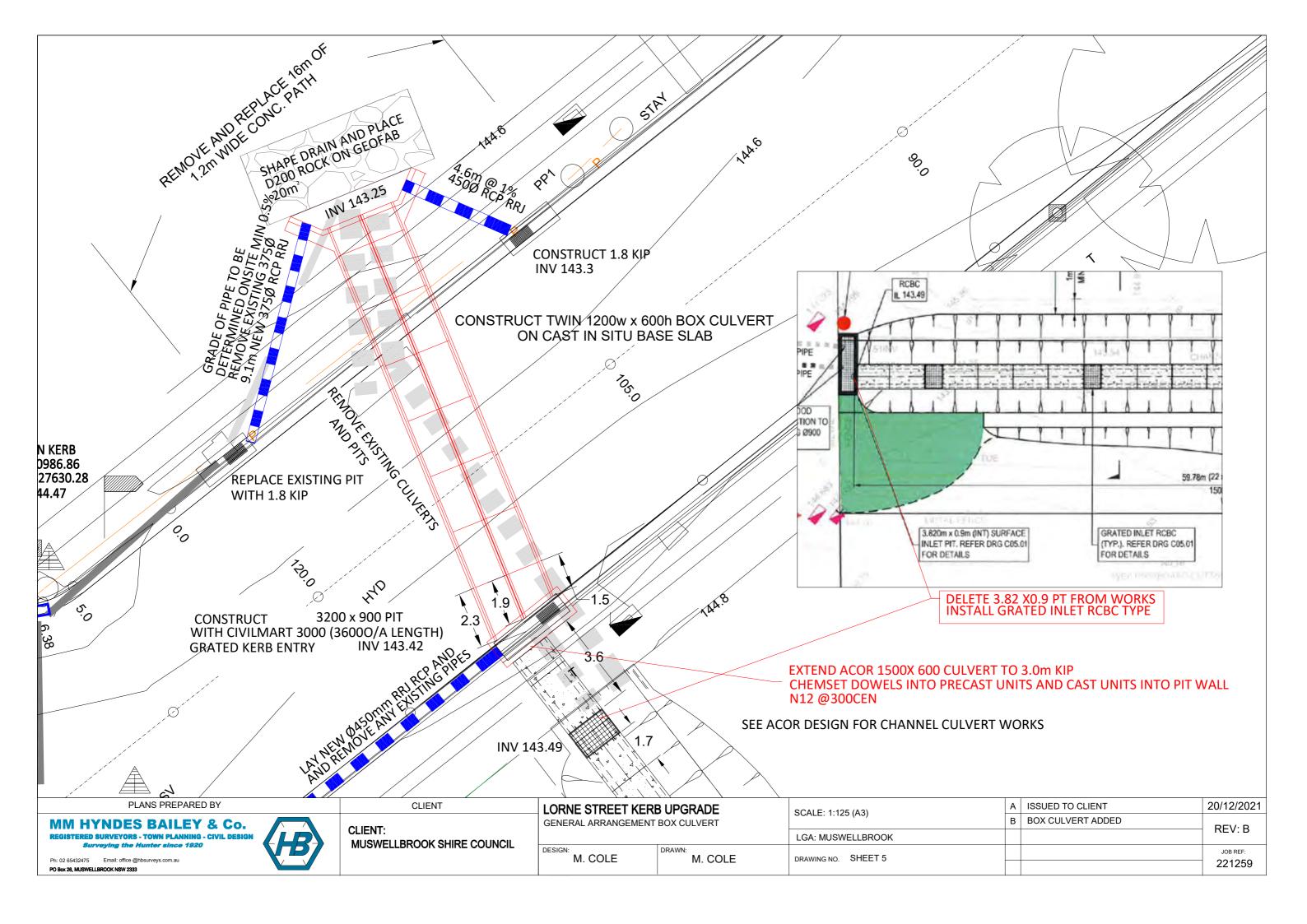
PLANS PREPARED BY CLIENT ISSUED TO CLIENT 20/12/2021 LORNE STREET KERB UPGRADE SCALE: DO NOT SCALE **BOX CULVERT ADDED EROSION AND SEDIMENT CONTROL** MM HYNDES BAILEY & Co. REV: B CLIENT: **NOTES** LGA: MUSWELLBROOK MUSWELLBROOK SHIRE COUNCIL Surveying the Hunter since 1920 JOB REF: M. COLE DRAWING NO. SHEET 2 M. COLE 221259 PO Box 26, MUSWELLBROOK NSW 2333

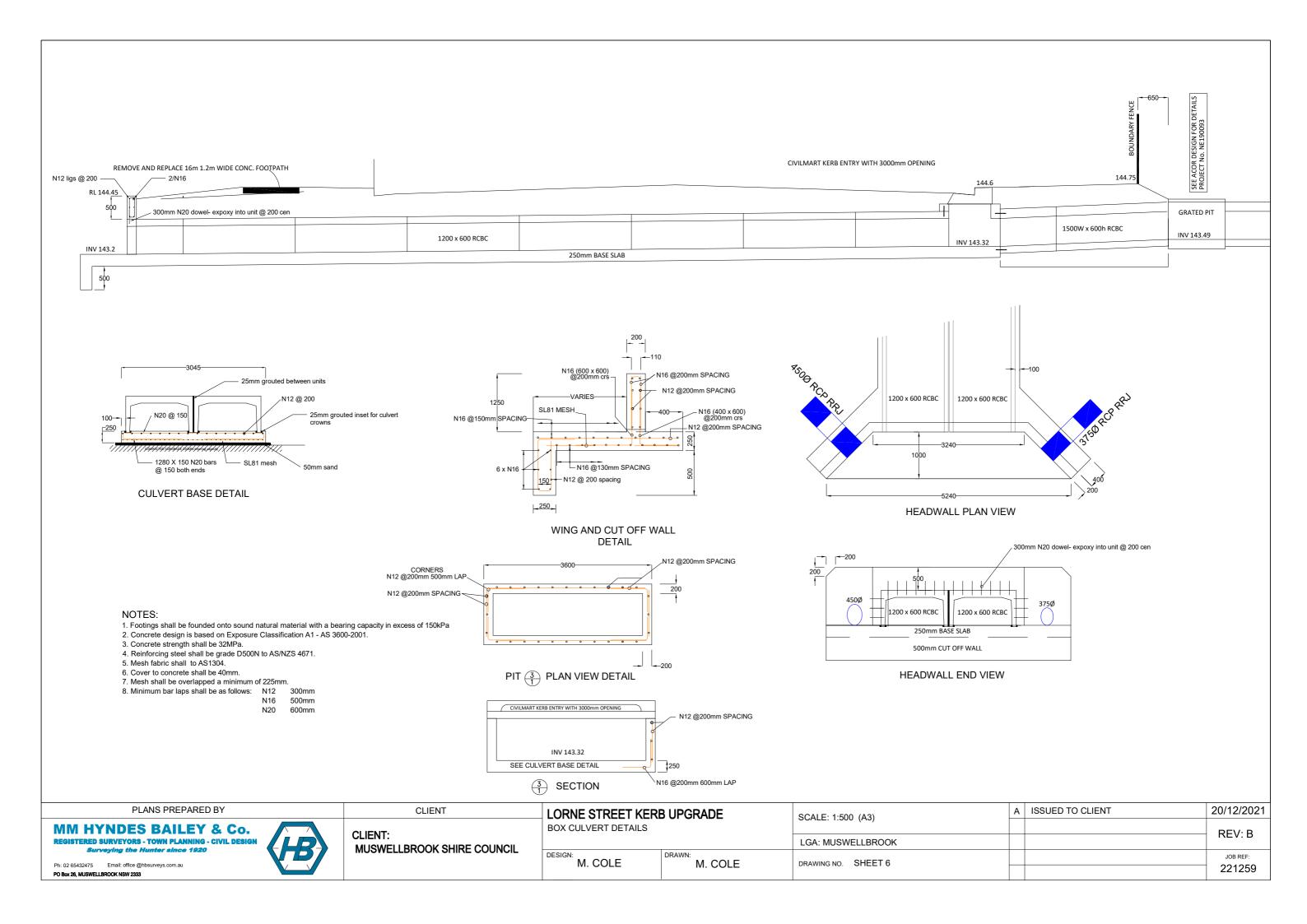
REGISTERED SURVEYORS - TOWN PLANNING - CIVIL DESIG

Ph: 02 65432475 Email: office @hbsurveys.com.au









									۵	
			0.7070/	0.7500/	0.0000/		-0.51%			0.4
	-0.773%	$\overline{}$	-0.787%	<0.753%	-0.629%	<	-0.51%	>	< 0	>
DESIGN	R.L.140		60	86	82	~	. ღ	99		99
LEVEL	145.26	145.21	145.09	144.98	144.88	144 184	144.73	144.66		144.66
EXISTING	.30	.25	.12	00:	98.	77	.72	89.		144.68
LEVEL	145.30	145.25	145.12	145.00	144.86	144 77	144.72	144.68		441
CHAINAGE	8.53	15	30	45	09	75	06	105	112.50	120

LORNE STREET

H=1:500 V=1:100

	P. 140.0		1	0.5%		>	-0.533%		0.383%
DESIGN LEVEL	8.L.140.0	144.73	144.8	144.88	144.95	145.01	!	144.93	144.97
EXISTING LEVEL	144.68	144.70	144.77	144.90	144.97	145		145.02	144.97
CHAINAGE	120	135	150	165	180	195		210	220.98

DESIGN

EXISTING

LEVEL

LEVEL

JORDAN ST.

| 2VC -3.82% | 11.29% -3% \ 0.5%

20/12/2021

REV: B

JOB REF: 221259

R.L.140.0

144.73 144.58 144.47 144.43 144.43 144.43 144.43

H=1:500 V=1:100

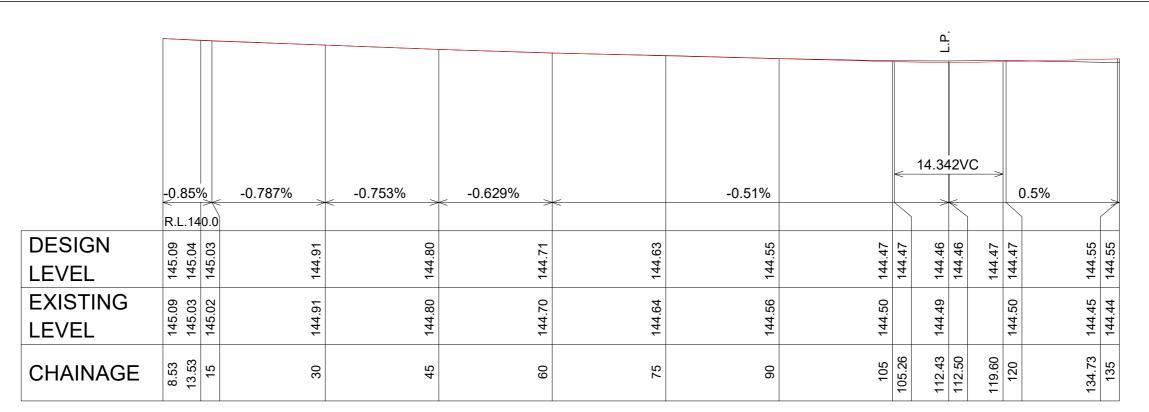
A ISSUED TO CLIENT B BOX CULVERT ADDED

LORNE STREET

H=1:500 V=1:100

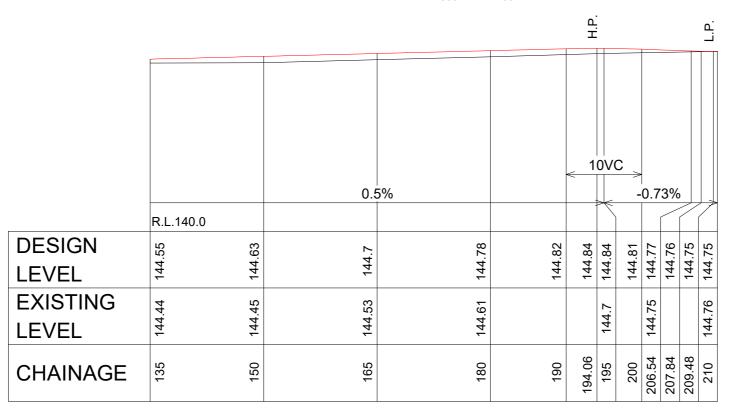
PLANS PREPARED BY		CLIENT	LORNE STREET KER	B UPGRADE	SCALE: AS SHOWN (A3)
MM HYNDES BAILEY & Co.		OLIENT.	LONGITUDINAL SECTIONS	- CENTRELINE	CONEL. NO ONOWIT (NO)
REGISTERED SURVEYORS - TOWN PLANNING - CIVIL DESIGN Surveying the Hunter since 1920		CLIENT: MUSWELLBROOK SHIRE COUNCIL			LGA: MUSWELLBROOK
Ph: 02 65432475 Email: office @hbsurveys.com.au	(P)	WIOSWELLBROOK STIINE COONCIL	DESIGN: M. COLE	DRAWN: M. COLE	DRAWING NO. SHEET 7

PO Box 28, MUSWELLBROOK NSW 2333



LORNE STREET - LEFT LIP

H=1:500 V=1:100



LORNE STREET - LEFT LIP

H=1:500 V=1:100

PLANS PREPARED BY	CLIENT	LORNE STREET KERB UPGRADE	SCALE: AS SHOWN (A3)	Α	ISSUED TO CLIENT	20/12/2021
MM HYNDES BAILEY & Co.	OLIENT	LONGITUDINAL SECTION	OOALL. AO ONOWN (AO)	В	BOX CULVERT ADDED	DEV. P
REGISTERED SURVEYORS - TOWN PLANNING - CIVIL DESIGN	CLIENT: MUSWELLBROOK SHIRE COUNCIL	LORNE STREET LEFT LIP	LGA: MUSWELLBROOK			REV: B
Surveying the Hunter since 1920	MOSWELLBROOK SHIRE COUNCIL	DESIGN: DRAWN: M. COLE M. COLE	DRAWING NO. SHEET 8			JOB REF:
Ph: 02 65432475 Email: office @hbsurveys.com.au PO Box 28, MUSWELLBROOK NSW 2333		IVI. COLL	Siderio. Sileer o			221259



LORNE STREET - RIGHT LIP

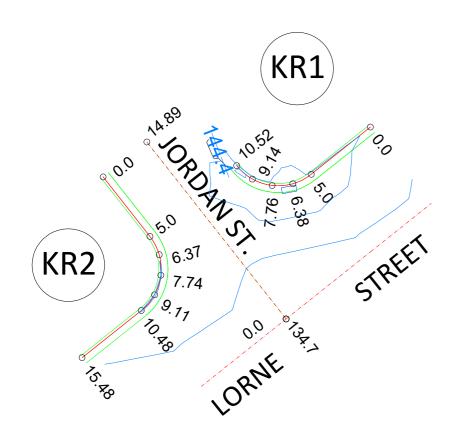
H=1:500 V=1:100

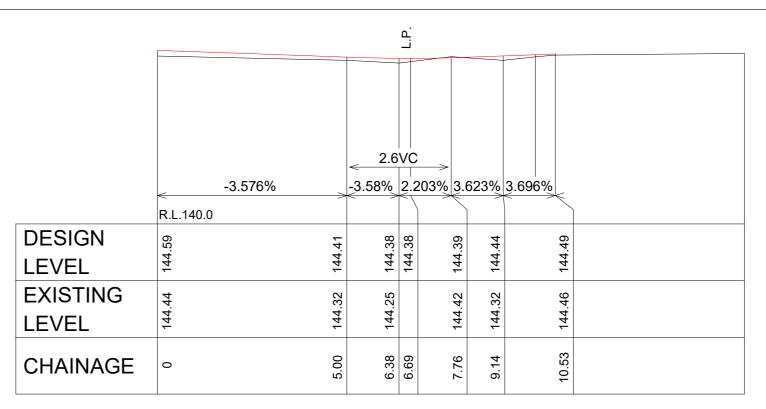
	<u></u>	0.467%	>	<	0.533%	>	0.4%	>	0.5%	-0.52	6%
	R.L.	140.0									
DESIGN	.63		7.			.78		84		84	.82
LEVEL	144.63		144.7			144.78		144.84		144.84	144.82
EXISTING	52		89			78		85		.87	88
LEVEL	144.52		144.68			144.78		144.85		144.87	144.88
CHAINAGE	150		165			180		195	201	206.13	210

LORNE STREET - RIGHT LIP

H=1:500 V=1:100

PLANS PREPARED BY	CLIENT	LORNE STREET KER	B UPGRADE	SCALE: AS SHOWN (A3)	A ISSUED TO CLIENT	20/12/2021
MM HYNDES BAILEY & Co.	OLIENT	LONGITUDINAL SECTION		SOALL. AS SHOWN (AS)	BOX CULVERT ADDED	DEV. B
REGISTERED SURVEYORS - TOWN PLANNING - CIVIL DESIGN	CLIENT: MUSWELLBROOK SHIRE COUNCIL	LORNE STREET RIGHT LIF)	LGA: MUSWELLBROOK		REV: B
Surveying the Hunter since 1920 Ph: 02 65432475 Email: office @hbsurveys.com.au	MUSWELLBROOK SHIRE COUNCIL	DESIGN: M. COLE	DRAWN: M. COLE	prawing no. SHEET 9		JOB REF:
PO Box 26, MUSWELLBROOK NSW 2333		IVI. OOLL	IVI. GOLL	Sidewine ne. Crizzi o		221259





KERB RETURN 1

H=1:100 V=1:100

MAKE SMOOTH JUNCTION WITH EXISTING KERB

	THIT EXISTING RERB								
		I.P 144.568	I.P 144.566	I.P 144.561	I.P 144.556	I.P 144.549	I.P 144.553		I.P 144.700
	-0.254% R.L.140.0	-0 .	3%· ≪≫	-0.365% <	-0.365% <	-0.511% <	0.292% <	2.94%	→
DESIGN LEVEL	17.2.140.0	144.57	144.57	144.56	144.56	144.55	144.55		144.7
EXISTING LEVEL			144.56	144.41	144.46	144.38	144.36		144.48
CHAINAGE	0	4.34	2	6.37	7.74	9.11	10.48		15.48

KERB RETURN 2

H=1:100 V=1:100

ļ								
	PLANS PREPARED BY	CLIENT	LORNE STREET KERI	B UPGRADE	SCALE: AS SHOWN (A3)	Α	ISSUED TO CLIENT	20/12/2021
	MM HYNDES BAILEY & Co.	OUTNE	KERB RETURNS 1 AND 2		COALL. AC CHOWN (AC)	В	BOX CULVERT ADDED	REV: B
	REGISTERED SURVEYORS - TOWN PLANNING - CIVIL DESIGN	CLIENT: MUSWELLBROOK SHIRE COUNCIL			LGA: MUSWELLBROOK			REV. D
	Surveying the Hunter since 1920	MOSWELLBROOK SHIRE COUNCIL	DESIGN: M. COLE	DRAWN:	DRAWING NO. SHEET 10			JOB REF:
	Ph: 02 65432475 Email: office @hbsurveys.com.au PO Box 26, MUSWELLBROOK NSW 2333		W. COLE	M. COLE	DRAWING NO. SHEET TO			221259

MAKE SMOOTH JUNCTION WITH EXISTING KERB -0.52% -0.631% -0.567% -0.567% -0.567% R.L.140.0 **DESIGN** 144.96 144.93 144.91 144.9 **LEVEL EXISTING** 144.97 **LEVEL** 34 29 CHAINAGE

KERB RETURN 3

H=1:100 V=1:100

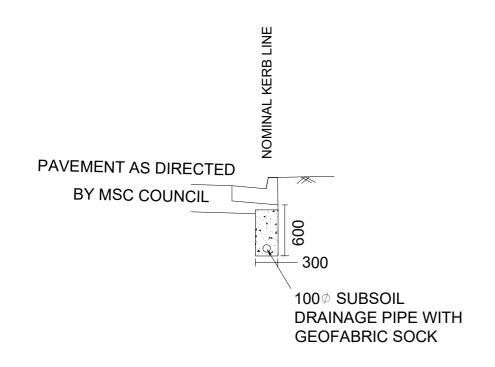
MAKE SMOOTH JUNCTION WITH EXISTING KERB -0.12% 1.414% | 2.058% | 2.121% | 2.058% R.L.140.0 **DESIGN** 144.90 145.00 144.97 **LEVEL EXISTING** 144.87 144 **LEVEL** 11.22 6.56 **CHAINAGE** 9.67

SCALE: 1:250

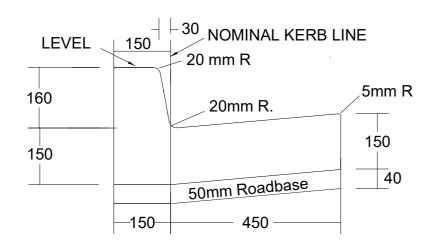
KERB RETURN 4

H=1:100 V=1:100

PLANS PREPARED BY	CLIENT	LORNE STREET KER	B UPGRADE	SCALE: AS SHOWN (A3)	Α	ISSUED TO CLIENT	20/12/2021
MM HYNDES BAILEY & Co.	OUTNIT	KERB RETURNS 3 AND 4		SCALL. AS SHOWN (AS)	В	BOX CULVERT ADDED	DEV. B
REGISTERED SURVEYORS - TOWN PLANNING - CIVIL DESIGN	CLIENT: MUSWELLBROOK SHIRE COUNCIL			LGA: MUSWELLBROOK			REV: B
Surveying the Hunter since 1920	WIOSWELLBROOK SHIRE COUNCIL	DESIGN: M. COLE	DRAWN: M. COLE	DRAWING NO. SHEET 11			JOB REF:
Ph: 02 65432475 Email: office @hbsurveys.com.au PO Box 26. MUSWFLLBROOK NSW 2333		IVI. COLL	W. COLE	DIAWING NO. GILLI II			221259

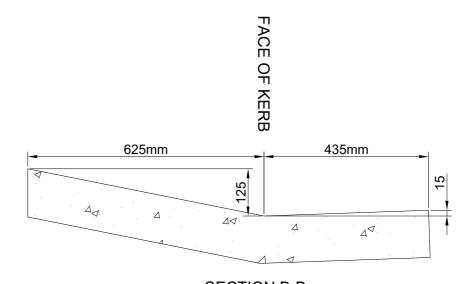


SUBSOIL DRAINAGE DETAIL RR: 1:50



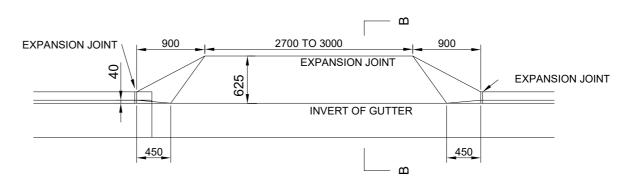
INTEGRAL KERB AND GUTTER DETAIL RR 1:10

EXPANSION JOINTS SHALL BE PLACED IN KERB AT INTERVALS NOT MORE THAN 6m AND AT JUNCTIONS WITH DRAINAGE PITS



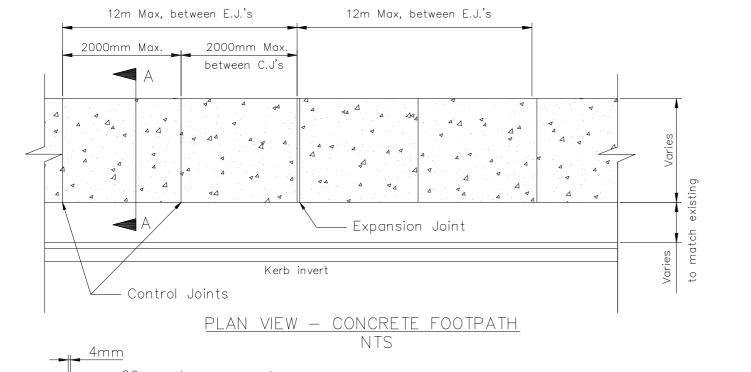
SECTION B-B R.R 1:10

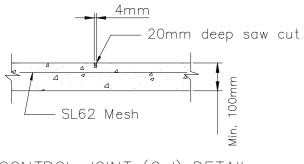
CONCRETE - MIN. OF 125mm THICK 25mpA CONCRETE REINFORCED WITH ONE LAYER OF SL62 FABRIC PLACED IN THE UPPER HALF OF CONCRETE (MIN. COVER 40mm)



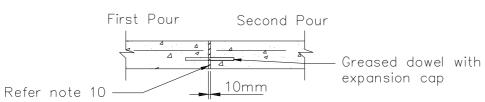
VEHICULAR CROSSING R.R 1:50

PLANS PREPARED BY	PLANS PREPARED BY CLIENT		B UPGRADE	SCALE: AS SHOWN (A3)		ISSUED TO CLIENT	20/12/2021
MM HYNDES BAILEY & Co.	OLIFAIT.	DETAILS		SCALL: AS SHOWN (AS)	В	BOX CULVERT ADDED	REV: B
REGISTERED SURVEYORS - TOWN PLANNING - CIVIL DESIGN	CLIENT: MUSWELLBROOK SHIRE COUNCIL			LGA: MUSWELLBROOK			KEV. D
Surveying the Hunter since 1920 Ph: 02 65432475 Email: office @hbsurveys.com.au	MOSWELLBROOK STIINE COUNCIL	DESIGN: M. COLE	DRAWN: M. COLE	DRAWING NO. SHEET 12			JOB REF:
PO Box 26, MUSWELLBROOK NSW 2333		IVI. JOLL	IVI. OOLL	Signature St. 21.12			221259









Install 400mm galvanised steel dowels, at 600mm crs.

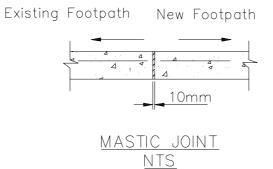
Dowels dia 12mm in slab thickness 100mm

Dowels dia 16mm in slab thickness 125mm

DOWELLED EXPANSION JOINT DETAIL (E.J)

DETAIL (E.J) NTS

MINIMUM DESIGN CRITERIA TABLE											
Features Cycleway Footpath Shared use of footpo											
Formation width		2.0m	1.2m	2.0m							
Crossfall	Min.	1:50	1:50	1:50							
	Max.	1:20*	1:20*	1: 20*							
Grade max		2% for 450m 5% for 90m 10% for 30m	NA	2% for 140m 3% for 70m 4% for 40m 5% for 30m							



SL62 Mesh Varies Shoulder width Min. SL62 Mesh Another Shoulder width Min. Mesh chairs TYPICAL SECTION (Where no K&G exist) NTS Moisture barrier on 50mm crush dust or sand bedding wetted and compacted with vibrating roller.

NOTES

GENERAL

- 1. All dimension are in millimeters. Do not scale this drawing
- 2. All discrepancies shall be reported immediately for decision before proceeding with the project.
- 3. The construction site shall conform to the requirements of the Environmental Management Plan.
- 4. All disturbed area should be topsoil and turf.

CONCRETE

- 5. Concrete to be Grade 25MPa AS1379 and AS3600
- 6. Exposed edges of formed concrete elements shall have a 20mm chamfer unless otherwise noted.
- 7. All concrete to be mechanically vibrated. Hand held vibrator must be held upright. Concrete must not be spread using vibrator.
- 8. Cover to reinforcement shall be 40mm unless otherwise noted.
- 9. Surface to be non-slip concrete finish (broom finished) to AS4586.

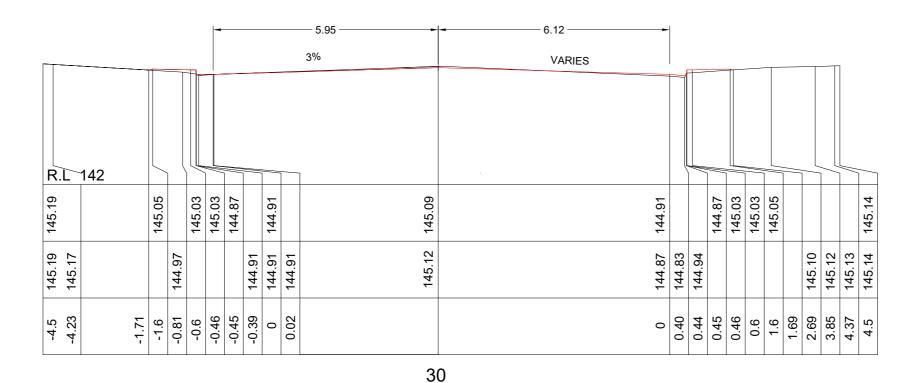
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- 10. Expansion and control joints to be sealed with a low modulus self priming sealant to the manufactures specification.
- 11. Construction joints to be provided adjacent to all concreted property crossing and any significant change in width and direction.
- 12. Saw cut joint shall be a wet cut within 24 hours of concrete pour.

13. SERVICE

- 14. All services to be located.
- 15. Locate all property drain outlets in kerb and ensure they remain in service when construction is complete.
- 16. Where concrete path is to be constructed adjacent to existing street trees, an articulated join system may be used to minimize potential damage from tree roots.

PLANS PREPARED BY	CLIENT	LORNE STREET KER	B UPGRADE	SCALE: AS SHOWN (A3)		ISSUED TO CLIENT	20/12/2021
MM HYNDES BAILEY & Co.	OLIENT.	MSC FOOTPATH STANDARD DETAILS		GOALE. AG GITOWIY (AG)		BOX CULVERT ADDED	REV: B
REGISTERED SURVEYORS - TOWN PLANNING - CIVIL DESIGN	CLIENT: MUSWELLBROOK SHIRE COUNCIL			LGA: MUSWELLBROOK			REV. D
Surveying the Hunter since 1920 Ph: 02 65432475 Email: office @hbsurveys.com.au	MOSWELLBROOK SHIRE COUNCIL	DESIGN: M. COLE	DRAWN: M. COLE	DRAWING NO. SHEET 13			JOB REF:
PO Box 26, MUSWELLBROOK NSW 2333		WI. OOLL	IVI. OOLL	Brannenc. S. 122			221259



5.95 6.14 -3% **VARIES** R.L 142 145.15 145.15 144.99 145.03 144.99 145.15 145.25 145.03 145.15 145.17 145.21 145.25 145.28 145.28 145.15 144.99 145.02 145.24 145.24 145.25 144.95 .05 145.22 144 145 -4.5 -4.03 -3.93 -1.69 -1.6 -0.6 -0.45 -0.45 -0.40 0 0 0.45 0.46 0.46 0.52 0.53 0.59 1.18 1.18 1.88 4.49 4.49

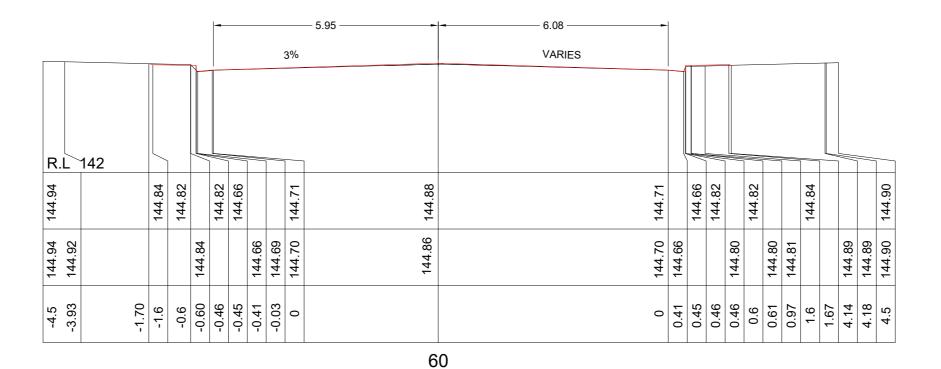
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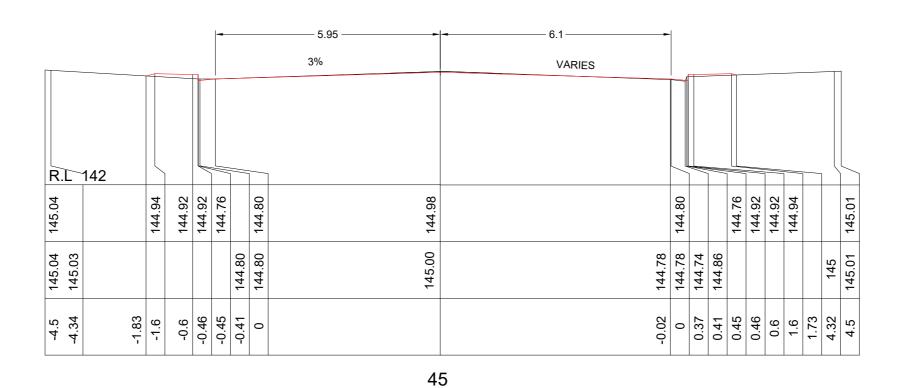
PLANS PREPARED BY CLIENT A ISSUED TO CLIENT 20/12/2021 LORNE STREET KERB UPGRADE SCALE: H=100 V=100 (A3) B BOX CULVERT ADDED **CROSS SECTIONS** MM HYNDES BAILEY & Co. REV: B CLIENT: CH 15 - 30 REGISTERED SURVEYORS - TOWN PLANNING - CIVIL DESIGN LGA: MUSWELLBROOK MUSWELLBROOK SHIRE COUNCIL DESIGN: JOB REF: M. COLE M. COLE DRAWING NO. SHEET 14

221259

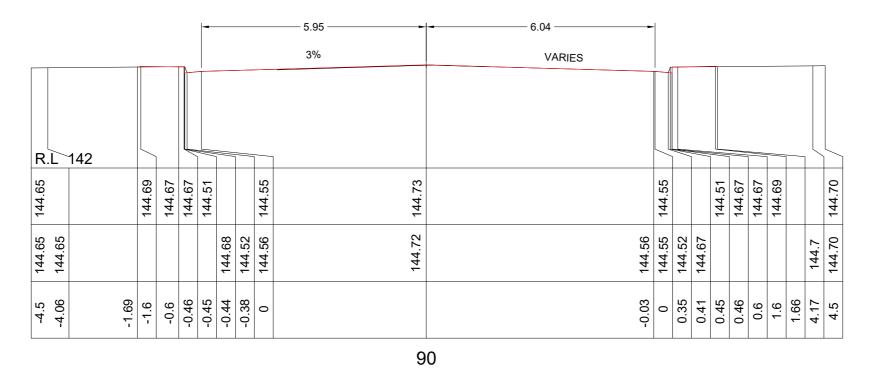
Ph: 02 65432475 Email: office @hbsurveys.com.au

PO Box 26, MUSWELLBROOK NSW 2333



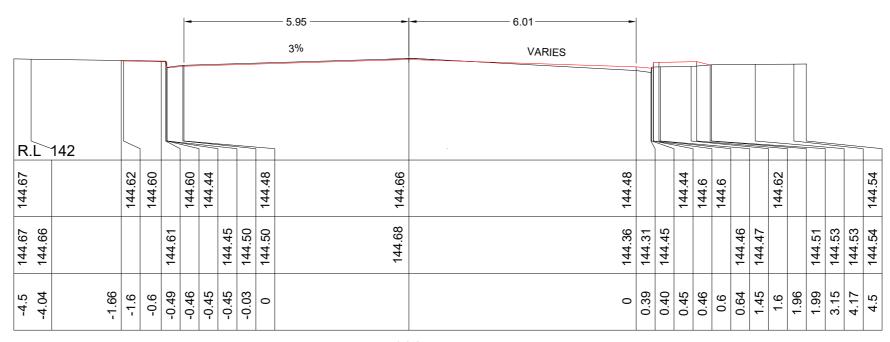


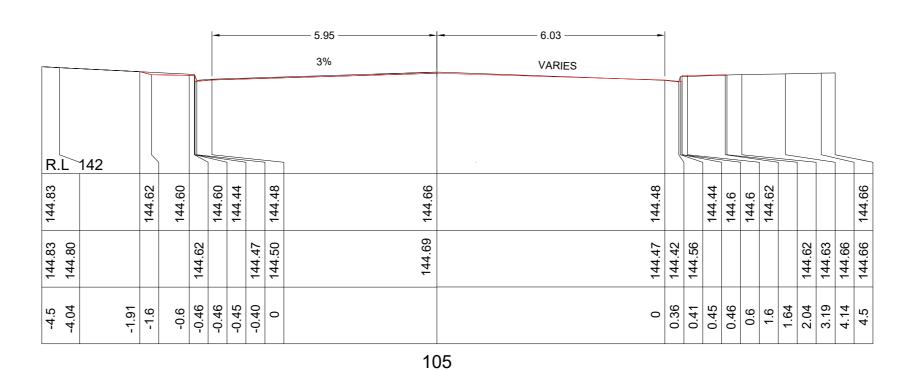
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PLANS PREPARED BY	CLIENT	LORNE STREET KERB UPGRADE	SCALE: H=100 V=100 (A3)	A	ISSUED TO CLIENT	20/12/2021
MM HYNDES BAILEY & Co.	OLIENT:	CROSS SECTIONS	00/122.11 100 1 100 (10)	В	BOX CULVERT ADDED	REV: B
REGISTERED SURVEYORS - TOWN PLANNING - CIVIL DESIGN	CLIENT: MUSWELLBROOK SHIRE COUNCIL	CH 45 - 60	LGA: MUSWELLBROOK			KEV. D
Surveying the Hunter since 1920	WOSWELLBROOK SHIRE COUNCIL	DESIGN: DRAWN:	OUEET 45			JOB REF:
Ph: 02 65432475 Email: office @hbsurveys.com.au		M. COLE M. COLE	DRAWING NO. SHEET 15	<u> </u>		221259
PO Box 26 MUSWFI I BROOK NSW 2333						



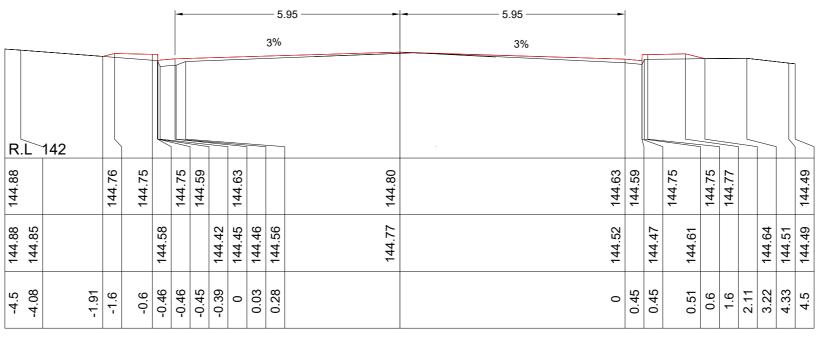
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			_							3	3%	VARIES	
R.L 142													
144.70			144.77		144.75	144.75	144.59			144.63	144.81	144.63 144.59 144.75 144.75	144.74
144.70	144.73			144.68				144.77	144.67	144.64	144.77	144.62 144.59 144.73	144.74
-4.5	-3.99	-1.88	-1.6	-0.84	9.0-	-0.46	-0.45	-0.44	-0.39	0		0 0.38 0.43 0.45 0.46 0.6 1.6 1.74	4.5

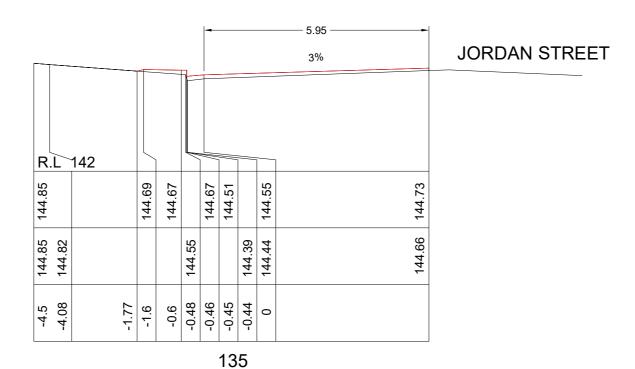
PLANS PREPARED BY	CLIENT	CLIENT LORNE STREET KERB UPGRADE		SCALE: H=100 V=100 (A3)		ISSUED TO CLIENT	20/12/2021
MM HYNDES BAILEY & Co.	OLIENT.	CROSS SECTIONS		SCALE: 11-100 V-100 (AS)		BOX CULVERT ADDED	DEV/: D
REGISTERED SURVEYORS - TOWN PLANNING - CIVIL DESIGN	CLIENT: MUSWELLBROOK SHIRE COUNCIL	CH 75 - 90		LGA: MUSWELLBROOK			REV: B
Surveying the Hunter since 1920	WIOSWELLBROOK SHIRE COUNCIL	DESIGN: M. COLE	DRAWN: M. COLE	DRAWING NO. SHEET 16			JOB REF:
Ph: 02 65432475 Email: office @hbsurveys.com.au		IVI. COLL	IVI. COLE	DRAWING NO. STIEET TO			221259
PO Box 26, MUSWELLBROOK NSW 2333							





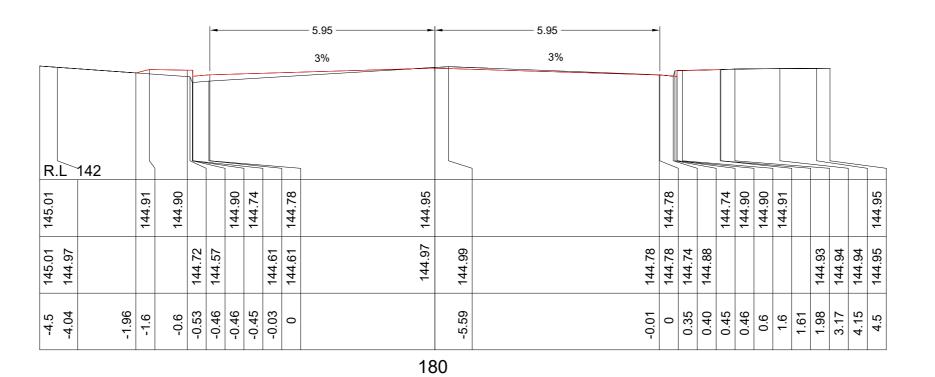
PLANS PREPARED BY	CLIENT	CROSS SECTIONS		SCALE: H=100 V=100 (A3)	ISSUED TO CLIENT	20/12/2021
MM HYNDES BAILEY & Co.	OLIENT.			BOALE: 11-100 V-100 (A0)	BOX CULVERT ADDED	REV: B
REGISTERED SURVEYORS - TOWN PLANNING - CIVIL DESIGN	CLIENT: MUSWELLBROOK SHIRE COUNCIL			LGA: MUSWELLBROOK		KEV. D
Surveying the Hunter since 1920	MOSWELLBROOK SHIRE COUNCIL	DESIGN: M. COLE	DRAWN: M. COLE	DRAWING NO. SHEET 17		JOB REF:
Ph: 02 65432475 Email: office @hbsurveys.com.au PO Box 28. MUSWELLBROOK NSW 2333		IVI. COLE		DIAWING NO. OTILL I 17		221259

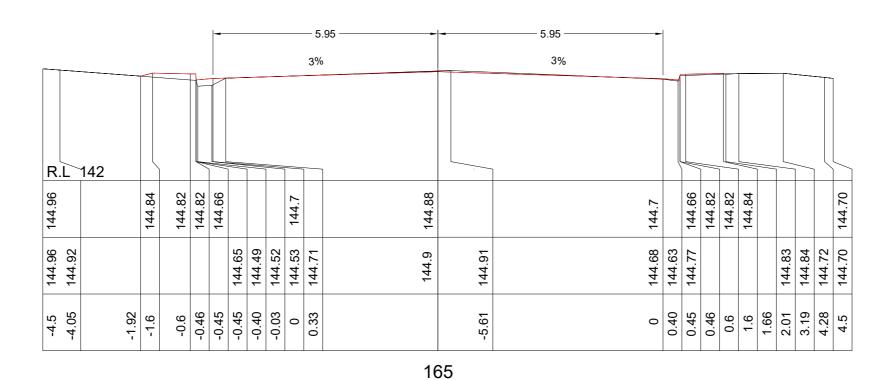




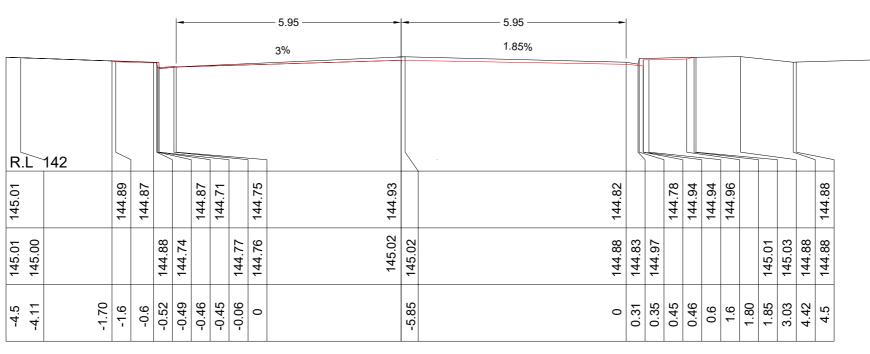
PLANS PREPARED BY	CLIENT	CROSS SECTIONS		LORNE STREET KERB UPGRADE		SCALE: H=100 V=100 (A3)	А	ISSUED TO CLIENT	20/12/2021
MM HYNDES BAILEY & Co.	OLIENT.					BOX CULVERT ADDED	REV: B		
REGISTERED SURVEYORS - TOWN PLANNING - CIVIL DESIGN	CLIENT: MUSWELLBROOK SHIRE COUNCIL			LGA: MUSWELLBROOK			TEV. B		
Surveying the Hunter since 1920	WIOSVVELLBROOK SHIRE COUNCIL	DESIGN:	DRAWN:	0.1555.40			JOB REF:		
Ph: 02 65432475 Email: office @hbsurveys.com.au		M. COLE	M. COLE	DRAWING NO. SHEET 18	-		221250		

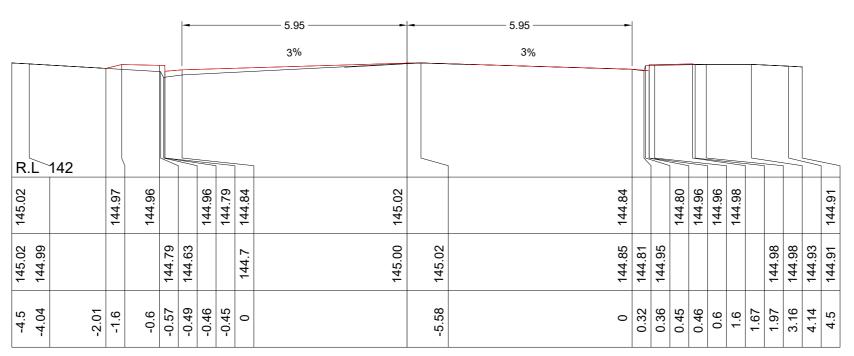
PO Box 26, MUSWELLBROOK NSW 2333



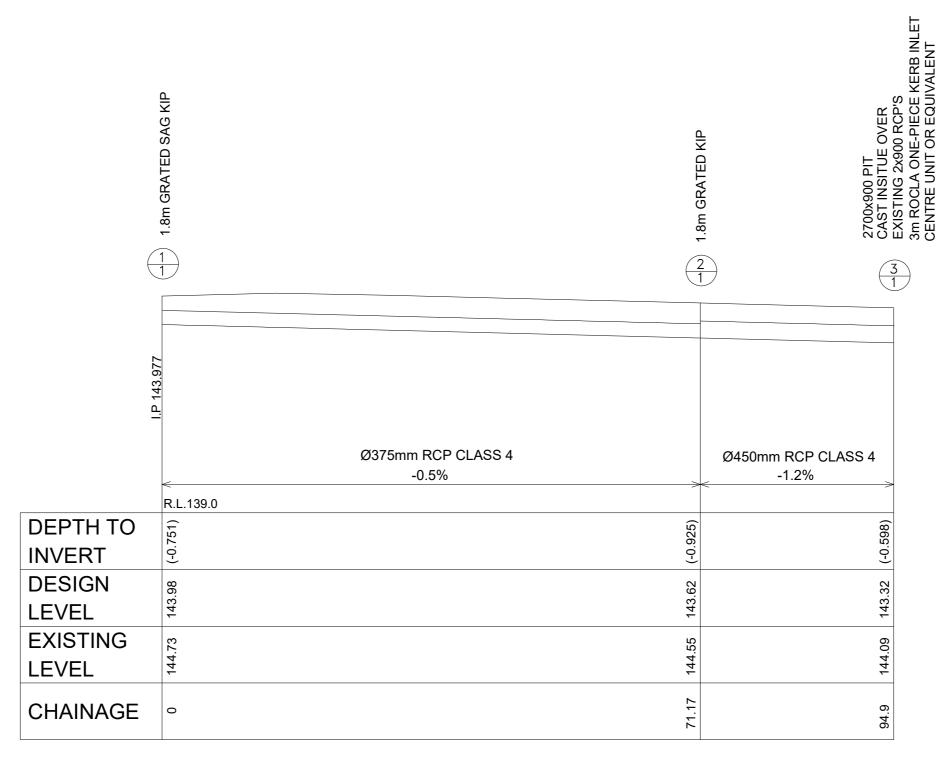


PLANS PREPARED BY ISSUED TO CLIENT 20/12/2021 CLIENT LORNE STREET KERB UPGRADE SCALE: H=100 V=100 (A3) B BOX CULVERT ADDED MM HYNDES BAILEY & Co. REGISTERED SURVEYORS - TOWN PLANNING - CIVIL DESIGN **CROSS SECTIONS** REV: B CLIENT: CH 165 - 180 LGA: MUSWELLBROOK MUSWELLBROOK SHIRE COUNCIL DESIGN: M. COLE M. COLE DRAWING NO. SHEET 19 Ph: 02 65432475 Email: office @hbsurveys.com.au 221259 PO Box 26, MUSWELLBROOK NSW 2333





PLANS PREPARED BY		CLIENT	LORNE STREET KERB UPGRADE CROSS SECTIONS CH 195 - 210		36/12E:11 100 V 100 (10)		ISSUED TO CLIENT	20/12/2021
MM HYNDES BAILEY & Co.		OLIENT.					BOX CULVERT ADDED	DEV. B
REGISTERED SURVEYORS - TOWN PLANNING - CIVIL DESIGN		CLIENT: MUSWELLBROOK SHIRE COUNCIL			LGA: MUSWELLBROOK			REV: B
Surveying the Hunter since 1920	(D)	MOSWELLBROOK SHIRE COONCIL	DESIGN: M. COLE	M. COLE	DRAWING NO. SHEET 20			JOB REF:
Ph: 02 65432475 Email: office @hbsurveys.com.au PO Box 26, MUSWELLBROOK NSW 2333			IVI. OOLL	IVI. COLL	DIAMINONO. GILLI 20			221259



DRAINAGE LINE 1

H=1:500 V=1:100

PLANS PREPARED BY	CLIENT	LORNE STREET KERB UPGRADE	SCALE: AS SHOWN (A3)	Α	ISSUED TO CLIENT	20/12/2021
MM HYNDES BAILEY & Co.	OUTNIT	DRAINAGE LINE 1	SCALE. AS STIOWN (AS)	В	BOX CULVERT ADDED	DEV. B
REGISTERED SURVEYORS - TOWN PLANNING - CIVIL DESIGN	CLIENT: MUSWELLBROOK SHIRE COUNCIL		LGA: MUSWELLBROOK			REV: B
Surveying the Hunter since 1920	WOSWELLBROOK SHIRE COUNCIL	DESIGN: DRAWN: M. COLE M. COLE	DRAWING NO. SHEET 21			JOB REF:
Ph: 02 65432475 Email: office @hbsurveys.com.au PO Box 26, MUSWELLBROOK NSW 2333		WI. GOLE	DIAWING NO. STILL 121			221259