420 - 428 CHAM BERS FLAT ROA

& 2 - 150 LOTS STAGE 1 CHANGE TO GROUND LEVEL

CONSULTANTS DRAWING INDEX:

DWG	No. DESCRIPTION
01	DRAWING INDEX & LOCALITY PLAN
-02	SAFETY IN DESIGN CHECKLIST
03	EXISTING SITE LAYOUT & TREE CLEARING PLAN
04	EARTHWORKS CUT/FILL LAYOUT PLAN — SHEET 1 OF 3
05	EARTHWORKS CUT/FILL LAYOUT PLAN - SHEET 2 OF 3
06	EARTHWORKS CUT/FILL LAYOUT PLAN - SHEET 3 OF 3
07	EARTHWORKS LAYOUT PLAN - SHEET 1 OF 3
08	EARTHWORKS LAYOUT PLAN - SHEET 2 OF 3
09	EARTHWORKS LAYOUT PLAN - SHEET 3 OF 3
10	EARTHWORKS SECTIONS - SHEET 1 OF 3
11	EARTHWORKS SECTIONS – SHEET 2 OF 3
12	EARTHWORKS SECTIONS - SHEET 3 OF 3
13	TYPICAL SECTIONS AND GENERAL DETAILS
14	ROAD 01 LONGITUDINAL SECTION
15	ROAD 02 & ROAD 03 LONGITUDINAL SECTIONS
16	ROAD 04 & ROAD 05 LONGITUDINAL SECTIONS
17	ROAD 06 & ROAD 07 LONGITUDINAL SECTIONS
18	ROAD 08 LONGITUDINAL SECTION
19	DETENTION BASIN PLAN AND DETAILS
20	DETENTION BASIN SECTIONS AND DETAILS
21	EROSION AND SEDIMENT CONTROL MANAGEMENT PLAN PHASE 1 - SHEET 1 OF 3
22 23	EROSION AND SEDIMENT CONTROL MANAGEMENT PLAN PHASE 1 - SHEET 2 OF 3 EROSION AND SEDIMENT CONTROL MANAGEMENT PLAN PHASE 1 - SHEET 3 OF 3
25 24	EROSION AND SEDIMENT CONTROL MANAGEMENT PLAN PHASE T - SHEET 3 OF 3 EROSION AND SEDIMENT CONTROL MANAGEMENT PLAN PHASE 2 - SHEET 1 OF 3
24	EROSION AND SEDIMENT CONTROL MANAGEMENT PLAN PHASE 2 - SHEET 1 OF S
25	EROSION AND SEDIMENT CONTROL MANAGEMENT FLAN FRASE 2 - SHEET 2 OF 3 EROSION AND SEDIMENT CONTROL MANAGEMENT FLAN FRASE 2 - SHEET 3 OF 3
20	EROSION AND SEDIMENT CONTROL MANAGEMENT PLAN PHASE 3 - SHEET 3 OF 3
28	EROSION AND SEDIMENT CONTROL MANAGEMENT PLAN PHASE 3 - SHEET 2 OF 3
29	EROSION AND SEDIMENT CONTROL MANAGEMENT PLAN PHASE 3 - SHEET 3 OF 3
30	EROSION AND SEDIMENT CONTROL MANAGEMENT DETAILS AND NOTES
31	EXTERNAL INTERSECTION EARTHWORKS AND CULVERT DETAILS
32	RETAINING WALL DETAILS



SITE LAYOUT

GENERAL NOTES:

- ALL DIMENSIONS ON THE JOB ARE IN METRES UNLESS SHOWN OTHERWISE.
 THE CONTRACTOR IS TO MAKE THEMSELVES FULLY AWARE OF ALL EXISTING SERVICES PRIOR TO WORKS COMMENCING INCLUDING CONFIRMATION OF LOCATION AND LEVELS TO ENSURE DESIGN LEVELS AT CONNECTION POINTS ARE APPROPRIATE AND THAT POTENTIAL CONFLICT POINTS ARE AVOIDED.
- COST OF REPAIRS OF ANY DAMAGE THERETO CAUSED BY THE CONTRACTOR'S OPERATIONS.
- 5.
- SUPERINTENDENT DURING CONSTRUCTION (REFER JOB SPECIFICATION). THE CONTRACTOR SHALL INITIALLY EXCAVATE THE PAVEMENT BOX TO THE MIN. DEPTHS NOMINATED ON 6. THE DRAWINGS.
- ANY WORK CONSTRUCTED OUTSIDE TOLERANCES WILL BE RECTIFIED AT CONTRACTORS EXPENSE IF ORDERED. 8.
- 9.
- HE OBTAINS A COPY OF THIS REPORT PRIOR TO TENDER SUBMISSION. CONSTRUCTION SAFETY:

CONSTRUCTION SAFETY REMAINS THE RESPONSIBILITY OF THE PRINCIPAL CONTRACTOR, INCLUDING (BUT NOT LIMITED TO) SATISFACTORY SAFE WORK METHOD STATEMENTS, ALL REQUIREMENTS AND RESPONSIBILITIES UNDER THE WORK HEALTH AND SAFETY ACT 2011 QLD AND ALL APPROPRIATE DUTIES OF CARE.



LOCALITY PLAN N.T.S



LOGAN CITY COUNCIL

APPROVED DOCUMENT

This is an approved document for Development Application

OW/403/2017

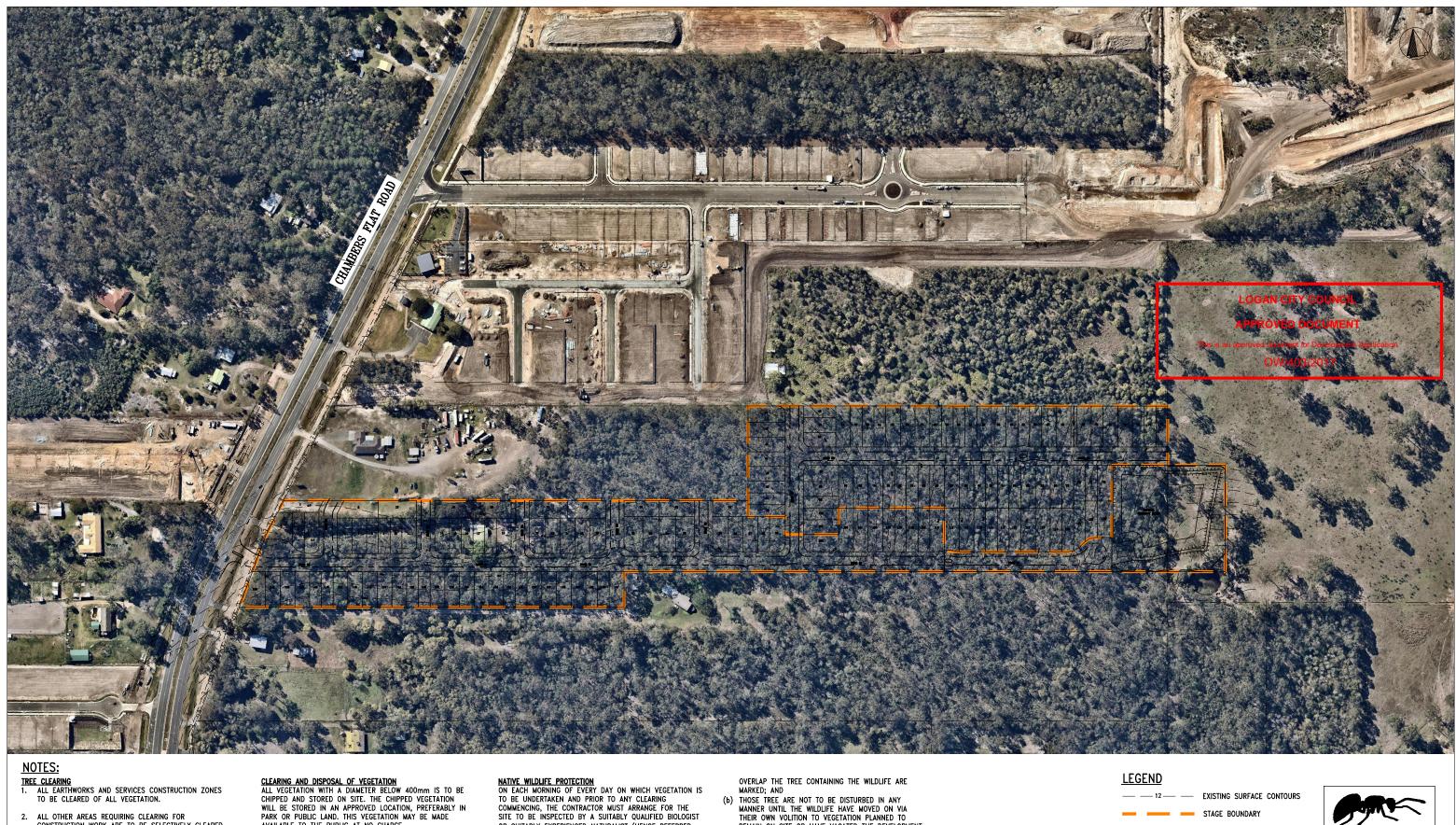
3. NOTWITSTANDING THAT EXISTING SERVICES MAY BE SHOWN ON THE DRAWINGS OR REFERRED TO IN THE CONTRACT DOCUMENTS NO RESPONSIBILITY IS TAKEN BY THE SUPERINTENDENT OR THE PRINCIPAL FOR THIS INFORMATION. THE DETAILS ARE PROVIDED FOR INFORMATION ONLY. THE CONTRACTOR SHALL LIAISE DIRECTLY WITH THE APPROPRIATE LOCAL AUTHORITIES AND SHALL ASCERTAIN THE POSITION OF ALL SERVICES AND SHALL BE RESPONSIBLE FOR THE FULL

ALL WORKS ARE TO BE CARRIED OUT TO L.C.C. UNLESS OTHERWISE DIRECTED (IN WRITING). NOTWITHSTANDING THE LIMITS OF CUTTING AND FILLING SHOWN ON THE DRAWINGS, THE ACTUAL LIMITS SHALL BE DETERMINED ON SITE BY THE SUPERINTENDENT DURING CONSTRUCTION. SIMILARLY, FINISHED SURFACE CONTOURS FOR ALLOTMENTS MAY BE ADJUSTED BY A WRITTEN DIRECTION OF THE

ALL BATTERS BETWEEN 1:4 AND 1:6 ARE TO BE FULLY TURFED TO PREVENT SCOUR AND EROSION. ANY BATTERS BETWEEN 1:4 AND 1:3 TO BE HEAVILY LANDSCAPED. BATTERS STEEPER THAN 1:3 ARE UNDESIRABLE.

LANUSCAPED. BATTER'S STEEPER THAN THE ARE UNDESTRABLE. DESIGN SAFETY: THIS DESIGN HAS BEEN REVIEWED INTERNALLY BY BRADLEES FOR DESIGN SAFETY IN ACCORDANCE WITH SECTIONS 22 AND 295 OF THE WORK HEALTH & SAFETY ACT 2011. ANY UNUSUAL OR ATYPICAL DESIGN FEATURES WHICH PRESENT HAZARDS AND RISKS DURING THE CONSTRUCTION PHASE THAT ARE UNIQUE TO THIS PARTICULAR DESIGN HAVE BEEN IDENTIFIED IN A WRITTEN REPORT PROVIDED TO THE PRINCIPAL. THE PRINCIPAL CONTRACTOR IS TO ENSURE

LOGAN CITY COUNCIL											
re ltd	420-428 CHAMBERS FLAT RC LOGAN RESERVE)AD -	CTGL								
	STATUS	DESIGNED HS	DRAWN ZTC	APPROVED JH	DATE 20.10.17	SCALE @ A1	SHEET 1 OF 1				
	ISSUE FOR APPROVAL	PROJECT №	4-CGL		1	REV	3				



- ALL OTHER AREAS REQUIRING CLEARING FOR CONSTRUCTION WORK ARE TO BE SELECTIVELY CLEARED TO REMOVE ALL DEAD TREES AND UNDERGROWTH AND RETAIN SIGNIFICANT NATIVE SPECIES.
- CONTRACTOR IS TO MINIMISE DISTURBANCE TO EXISTING GRASS VEGETATION ADJACENT TO TREES THAT ARE TO BE RETAINED.
- 4. CONTRACTOR NOT TO ALTER FENCED OFF AREA.

AVAILABLE TO THE PUBLIC AT NO CHARGE.

VEGETATION WITH A DIAMETER ABOVE 400mm MAY BE PIT BURNED. THE PREFERRED METHOD OF BURNING WILL BE A CONTINUOUS BURNING TECHNIQUE PROVIDED THAT AN APPROPRIATE APPROVED LOCATION IS OBTAINED.

SITE TO BE INSPECTED BY A SUITABLY QUALIFIED BIOLOGIST OR SUITABLY EXPERIENCED NATURALIST (HENCE REFERED TO AS A "WILDLIFE SPOTTER") NOMINATED BY THE DEVELOPER FROM A LIST AVAILABLE FROM THE CONSTRUCTION CONTRACTOR AND SHALL REMAIN ON SITE DURING ALL CLEARING ACTIVITY.

SHOULD ANY KOALAS OR OTHER NATIVE WILDLIFE BE LOCATED THE WILDLIFE SPOTTER'S RESPONSIBILITY IS TO ENSURE THAT:

(a) THE TREE OR TREES IN WHICH THE WILDLIFE BE LOCATED AND ANY ADJACENT TREES WHOSE CROWNS

MANNER UNTIL THE WILDLIFE HAVE MOVED ON VIA THEIR OWN VOLITION TO VEGETATION PLANNED TO REMAIN ON SITE OR HAVE VACATED THE DEVELOPMENT SITE ALTOGETHER.

SHOULD THE DEVELOPER OR ANY OF THE DEVELOPER'S EMPLOYEES, CONTRACTORS OR AGENTS ENCOUNTER ANY NATIVE WILDLIFE WHICH MAY BE INJURED OR SICK, THE DEVELOPER MUST FACILITATE THE TRANSPORT OF THE INJURED WILDLIFE TO EITHER THE MOGGIL KOALA HOSPITAL, OR AUSTRALIA ZOO ANIMAL HOSPITAL IN KEEPING WITH THE ADDIVICEL FOLVICIES AND REDGENDIES OF THE APPLICABLE POLICIES AND PROCEDURES OF THE ENVIRONMENTAL PROTECTION AGENCY.

DESCRIPTION	IDR DAT JH 20.10.	7 15 0 15 30 45 60 75m	SURVEYOR	JOHN HARRISON RPEQ 5023 Approved by, for and on behalf of Bradlees		Bradford Lees Pty Ltd ABN 29 064 159 191 Ph 07 5528 6411 Fax 07 5528 6422	MIDDLETON PARK SYNDICATE LTD	420-428 CHAMBERS FLAT F LOGAN RESERVE LOGAN CITY COUNCIL	ROAD - CTGL
		1 : 1500 (FULL SIZE A1) 1 : 3000 (REDUCED SIZE A3)	BREBANE PROSENNE (17) seer 4rd (16) (17) seer 4rd (17) (17) seer 4rd (17) (17) sees 17) (17) sees 17) sees 17) sees 17) (17) sees 17) sees 17) sees 17) (17) sees 17) sees 17) sees 17) sees 17) (17) sees 17) sees 17	Approved by, tot and on behavior brandees This drawing has been produced for the exclusive use of the client (nominated on this document). No third party is to rely on this document without written permission from Bradlees. This drawing is not to be constructed from unless "Issued for construction" is displayed and only where signed by an RPEQ. © Copyright	SCI CHARL INTERNATIONAL QUALITY ASSURED COMPANY AS/NZS ISO 9001:2008 REGN. NO. 233	Web www.bradlees.com.au Email mail.au@bradleesmeinhardt.com Postal PO 8x 2293, Southport QLD 4215 Gold Coast Office Level 1, 34 Thomas Drive, Chevron Island QLD 4217 Brisbane Ph 07 3018 5034 Sunshine Coast Ph 07 5451 1994	™EXISTING SITE LAYOUT AND TREE CLEARING PLAN	ISSUE FOR APPROVAL	DESIGNED DRAWN APPROVED DATE SCALE @ A1 SHEET HS ZTC JH 20.10.17 1.1500 1 0F 3 PROJECT No DRAWING No REV REV 1117584-CGL 0R3 REV

- - LIMIT OF WORKS

FIRE ANT NOTE: UNDER QUEENSLAND LEGISLATION, FIRE ANTS ARE A NOTIFIABLE PEST AND SUSPECTED SIGHTING CUST BE REPORTED TO BIOSECURITY QUEENSLAND. MOVEMENT OF FIRE ANTS IS PROHIBITED UNLESS APPROVED OTHERWISE BY THE DEPARTMENT OF PRIMARY INDUSTRIES. THE CONTRACTOR SHALL ACQUIRE THE NECESSARY PERMITS TO COMPLETE THE WORKS.

EARTHWORKS NOTES

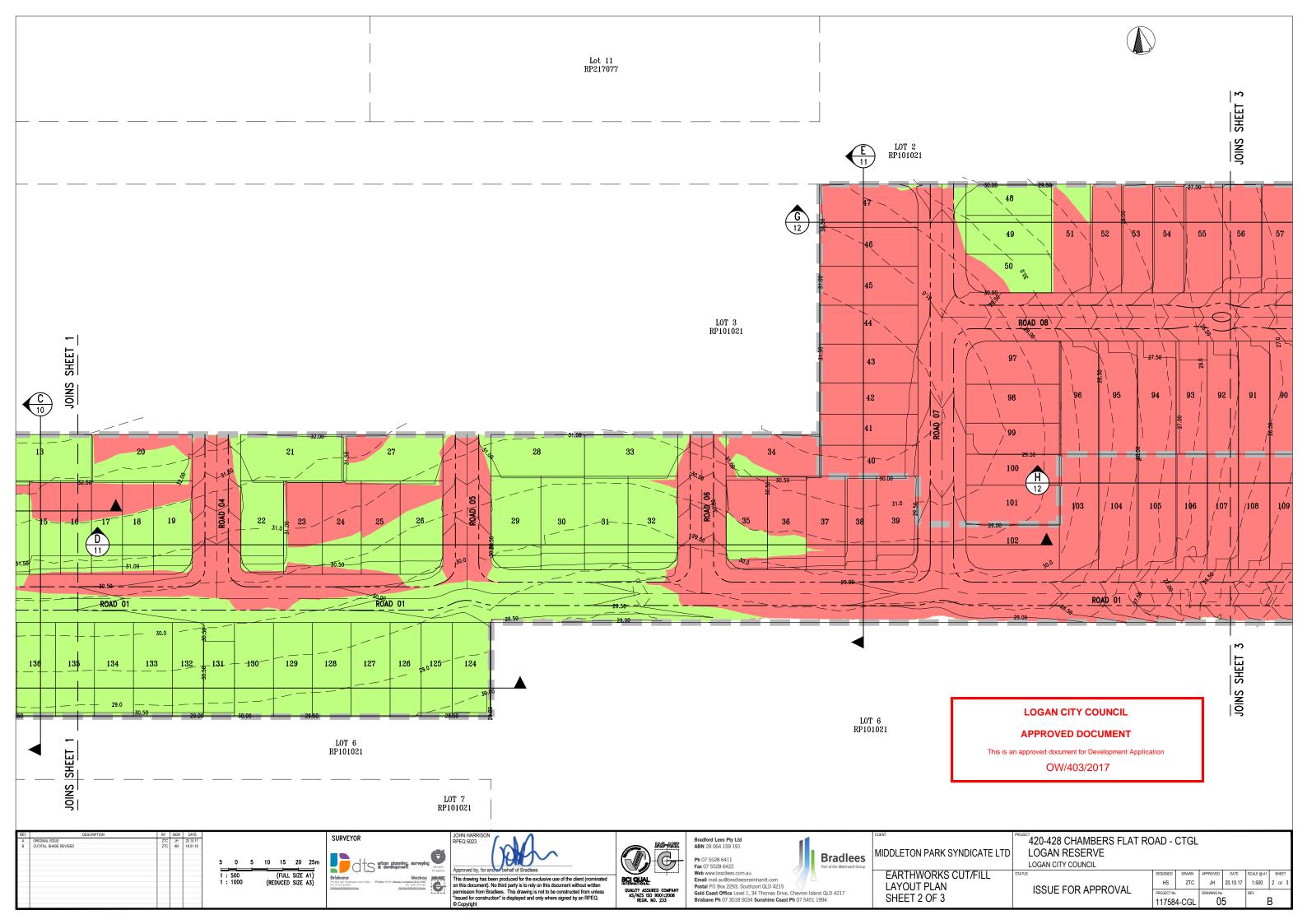
- REFER DRAWING 01 FOR GENERAL NOTES. ALL DESIGN LEVELS AND CONTOURS SHOWN ARE FINISHED SURFACE LEVELS AND INCLUDE A 150mm ALLOWANCE FOR TOPSOIL. 1. 2.
- 3. ALL DIMENSIONS ON THE JOB ARE IN METRES UNLESS SHOWN OTHERWISE.
- 4. NOTWITHSTANDING THE LIMITS OF CUTTING AND FILLING SHOWN ON THE DRAWINGS, THE ACTUAL LIMITS SHALL BE DETERMINED ON SITE BY THE SUPERINTENDENT DURING CONSTRUCTION. SIMILARLY, FINISHED SURFACE CONTOURS FOR ALLOTMENTS MAY BE ADJUSTED BY A WRITTEN DIRECTION OF THE SUPERINTENDENT DURING CONSTRUCTION (REFER JOB SPECIFICATION).
- 5. ALL STRUCTURAL FILL MATERIAL PLACED SHALL BE COMPACTED TO THE FOLLOWING MINIMUM DENSITY IN ACCORDANCE WITH THE PROJECT SPECIFICATION : 65% DENSITY INDEX FOR NON-COHESIVE MATERIAL
- 95% FOR COHESIVE MATERIALS
 6. THE CONTRACTOR IS TO ENSURE THAT NO PONDING OCCURS DURING CONSTRUCTION AND IN THE FINAL PROFILE.
- 7. SITE EARTHWORKS SHALL GENERALLY BE CARRIED OUT IN ACCORDANCE WITH AS 3798-2007.
- 8. ANY UNSUITABLE MATERIAL ENCOUNTERED DURING EARTHWORKS AS DEFINED IN AS 3798-2007 SHALL BE REMOVED & REPLACED. THE SUPERINTENDENT SHALL BE NOTIFIED PRIOR TO EXCAVATING ANY
- SUPERINTERVENT STREETE DE NOLLE DE NOLLE UNSUITABLE MATERIAL. 9. SWALE INVERTS SHALL BE GRADED TO DRAIN FREELY TO ASSOCIATED FIELD INLETS, ALL SWALES ARE TO BE TOPSOILED AND TURFED.

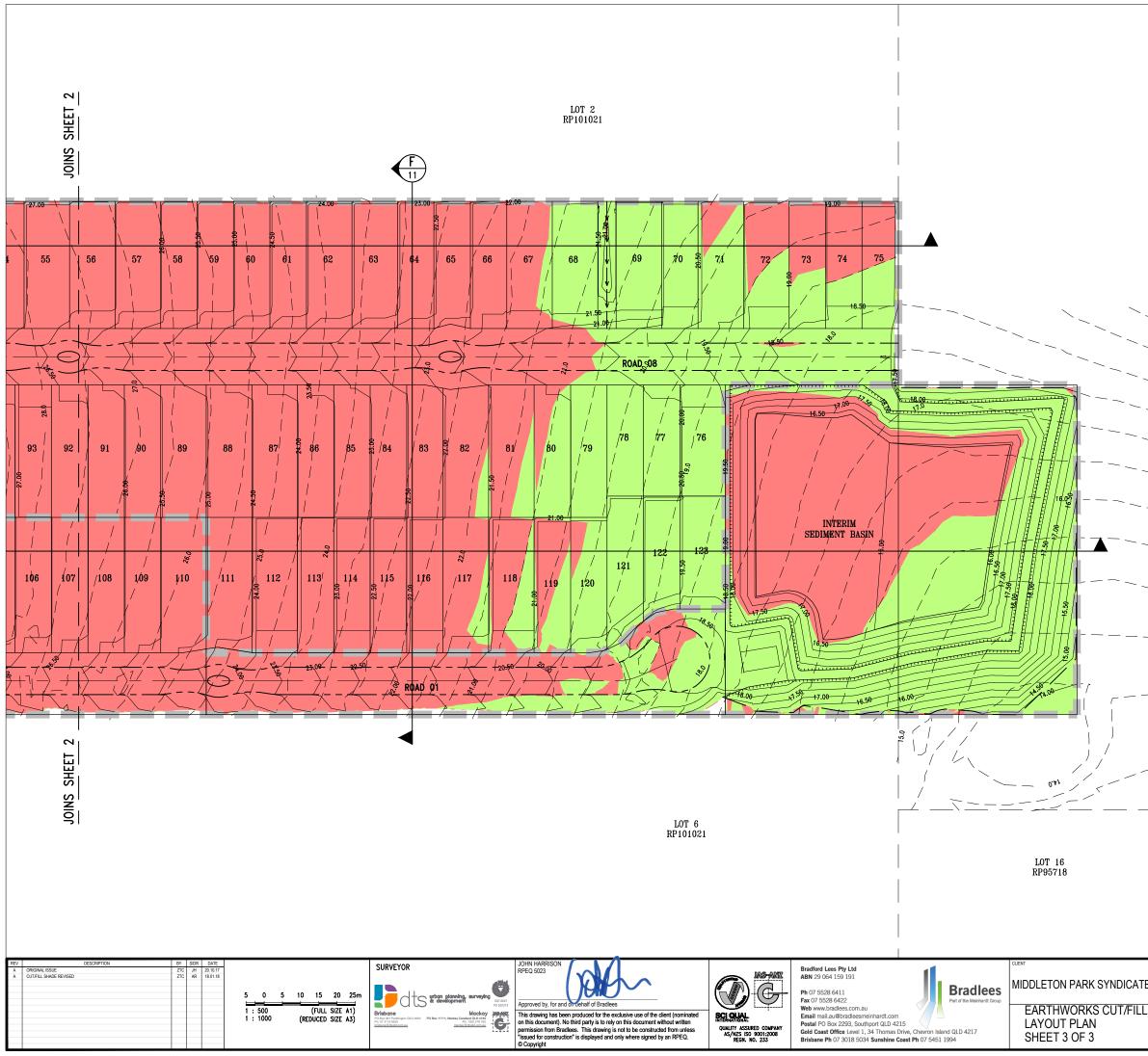
10. ALL BATTERS BETWEEN 1:4 AND 1:6 ARE TO BE FULLY TURFED TO PREVENT SCOUR AND EROSION. ANY BATTERS BETWEEN 1:4 AND 1:3 TO BE HEAVILY LANDSCAPED. BATTERS STEEPER THAN 1:3 ARE UNDESIRABLE.			
LEGEND	$-\pi - \frac{1}{2} \frac{\pi}{12} \frac{\pi}{1$	4	5
		3.00	
EXISTING KERB LINE			
TOP OF BATTER			
			— <u> </u>
$\longrightarrow \longrightarrow \longrightarrow$ swale drain			~ 7
			<u> </u>
	1 5 2 00		
FILL AREAS	÷ / / / / / / / / / / / / / / / / / / /		
CUT AREAS			
STAGE BOUNDARY		ROAD 01	
			<u> </u>
EARTHWORKS VOLUMES (UN-FACTORED): cut vol. 34,922m ³		150 149 -148 147 146 145 144	143
CUT Vol. 34,922m ³ FILL Vol. 33,270m ³ NET Vol. 1,652m ³			
NOTE:			
EARTHWORKS VOLUMES ARE SOLID MEASURES		31 50 _{20 50} 31.00 20 00 20 50	
AND SUBJECT TO VERIFICATION OF EXISTING SURFACE SURVEY PRIOR TO START OF		<u></u>	
AND SUBJECT TO VERIFICATION OF EXISTING			
AND SUBJECT TO VERIFICATION OF EXISTING SURFACE SURVEY PRIOR TO START OF		LOT 6 RP101021	
AND SUBJECT TO VERIFICATION OF EXISTING SURFACE SURVEY PRIOR TO START OF		LOT 6 RP101021	
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AND SUBJECT TO VERIFICATION OF EXISTING SURFACE SURVEY PRIOR TO START OF	$\frac{1}{1}$	RP101021	
AND SUBJECT TO VERIFICATION OF EXISTING SURFACE SURVEY PRIOR TO START OF	$+ \frac{1}{2} - \frac{1}{2} + $	RP101021	
AND SUBJECT TO VERIFICATION OF EXISTING SURFACE SURVEY PRIOR TO START OF	$\frac{1}{1}$	RP101021	
AND SUBJECT TO VERIFICATION OF EXISTING SURFACE SURVEY PRIOR TO START OF	$\frac{1}{1}$	RP101021	
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AND SUBJECT TO VERIFICATION OF EXISTING SURFACE SURVEY PRIOR TO START OF CONSTRUCTION.	SURVEYOR SURVEY	LOT 7 RP101021	ORKS (
AND SUBJECT TO VERIFICATION OF EXISTING SURFACE SURVEY PRIOR TO START OF CONSTRUCTION.	SURVEYOR SURVEY	LOT 7 RP101021	ORKS (

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LOGAN CITY COUNCIL

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	LOT 17 RP95718						
	420-428 CHAMBERS FLAT RC	DAD -	CTGL				
E LTD	LOGAN RESERVE						
	LOGAN CITY COUNCIL						
L	STATUS	DESIGNED	DRAWN	APPROVED	DATE	SCALE @ A1	SHEET
	ISSUE FOR APPROVAL	HS	ZTC	JH	20.10.17	1:500	3 OF 3
	ISSUE I SIX ALL NOVAL	PROJECT No 11758				REV	3
		1 11/00	4-0GL				, ,

<u>NOTES</u>

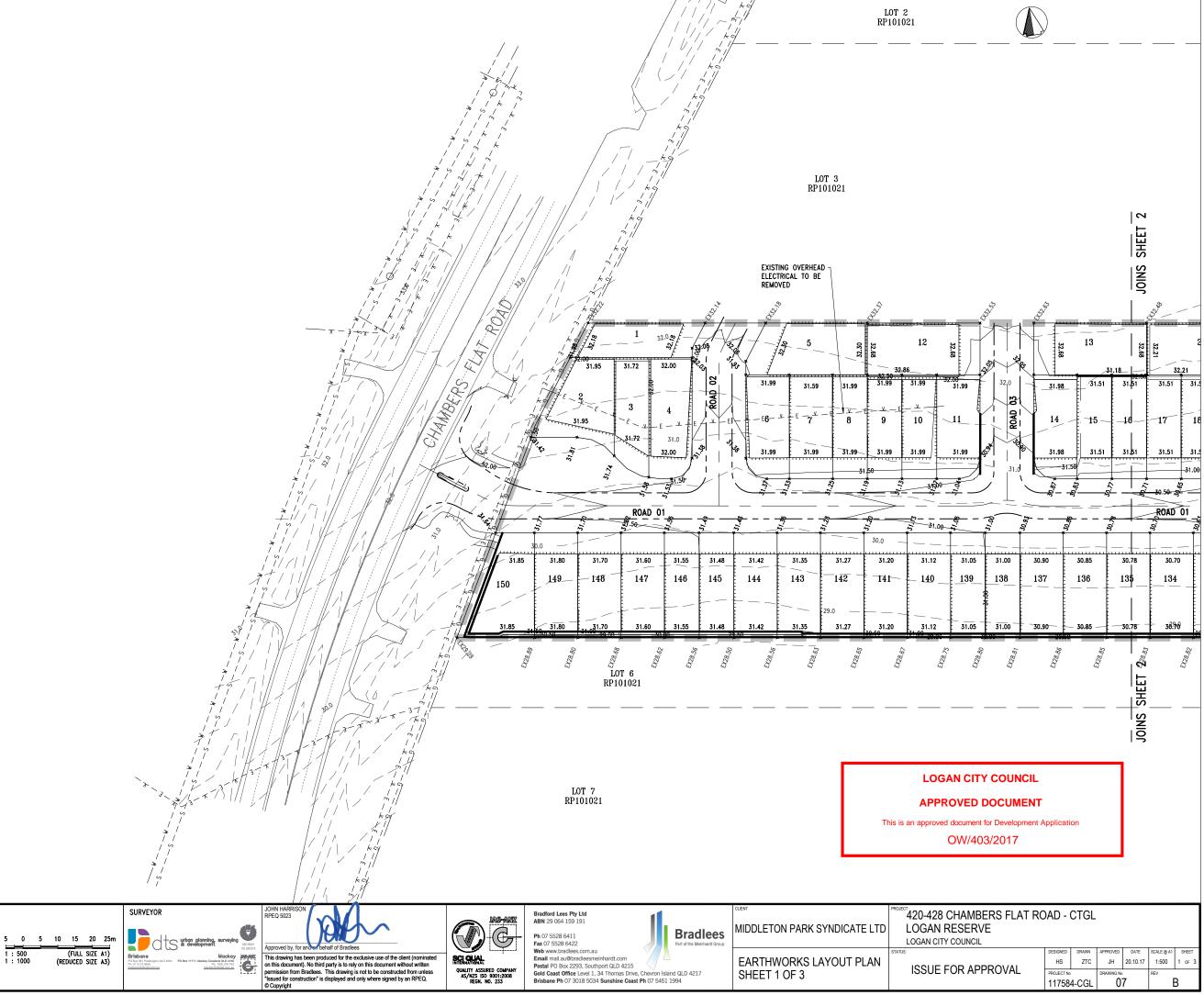
- 1. SWALE INVERTS SHALL BE GRADED TO DRAIN FREELY TO ASSOCIATED FIELD INLETS. ALL SWALES ARE TO BE TOPSOILED AND TURFED.
- 2. FOR ROAD SETOUT AND CHAINAGES REFER TO DWGS 14, 15, 16, 17 AND 18.
- ALL BATTERS BETWEEN 1:4 AND 1:6 ARE TO BE FULLY TURFED TO PREVENT SCOUR AND EROSION. 3.
- 4. BATTERS STEEPER THAN 1:4 ARE UNDESIRABLE.

<u>LEGEND</u>

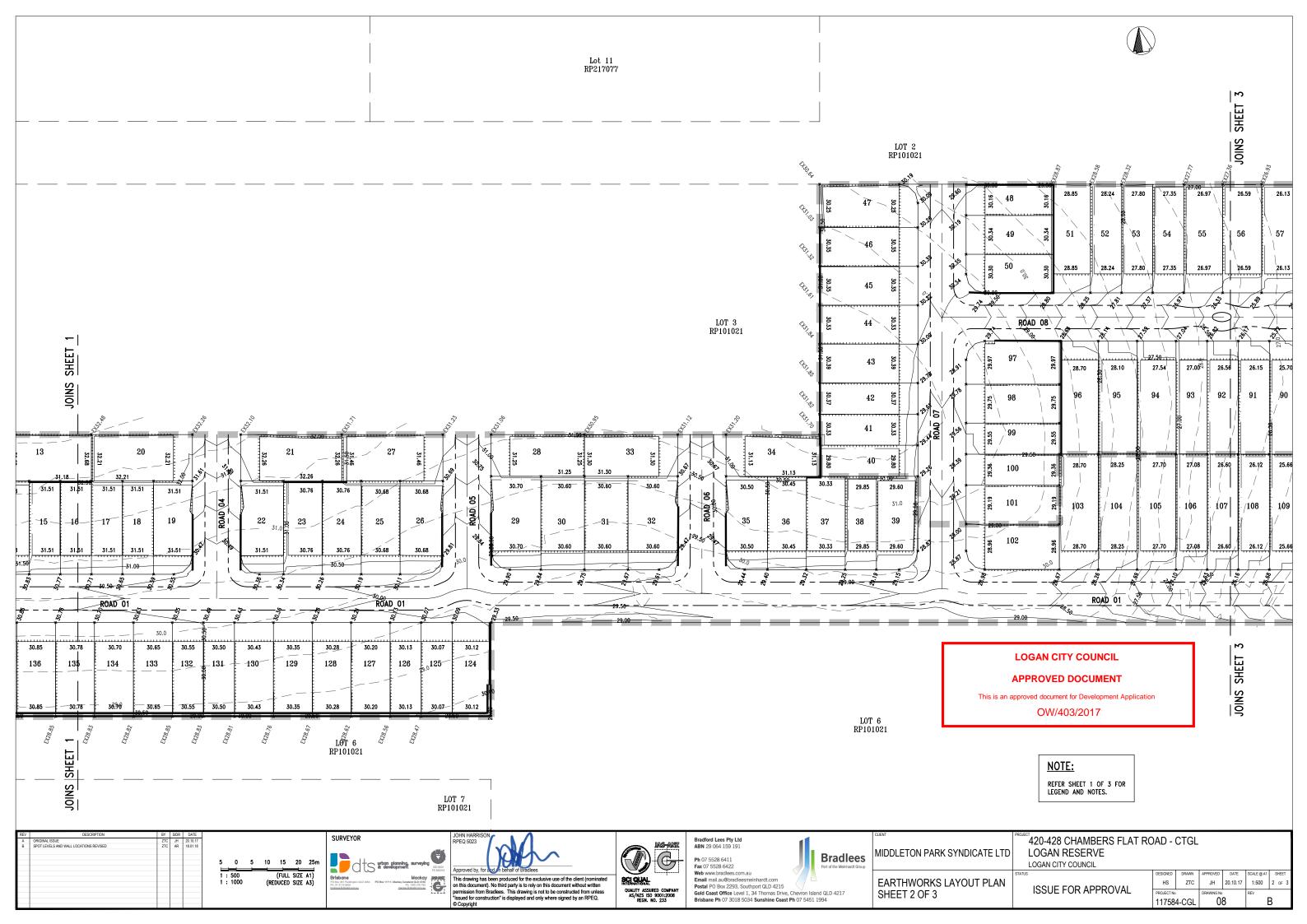
RIGINAL ISSUE

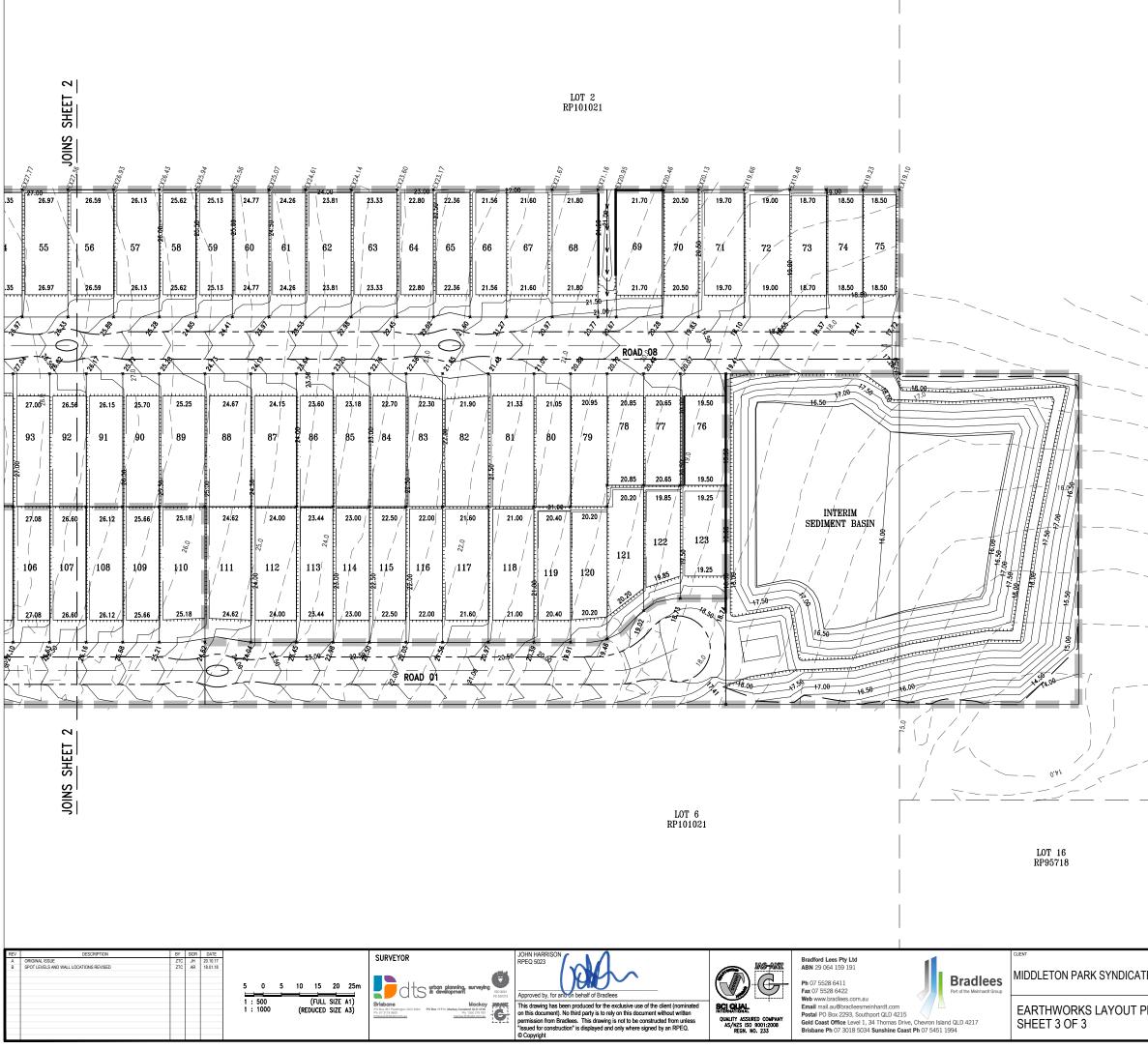
AND WALL LOCATIONS REVISED

15	FINISHED SURFACE CONTOURS
12	EXISTING SURFACE CONTOURS
	NOMINAL KERB LINE
★ 13.48	FINISHED SURFACE LEVEL
¥ EX13.48	EXISTING SURFACE LEVEL
$\rightarrow \rightarrow \rightarrow -$	EXISTING SWALE DRAIN
$\rightarrow \rightarrow \rightarrow -$	SWALE DRAIN
	TOP OF BATTER
· · · · · ·	TOE OF BATTER
- E - ¥ - E - ¥ -	EXISTING ELECTRICAL
-SW———SW———	EXISTING STORMWATER
-ss	EXISTING SEWER
-w w	EXISTING WATER
-G — — — G — — —	EXISTING GAS
	RETAINING WALL (FUTURE)
	LIMIT OF WORKS
	STAGE BOUNDARY









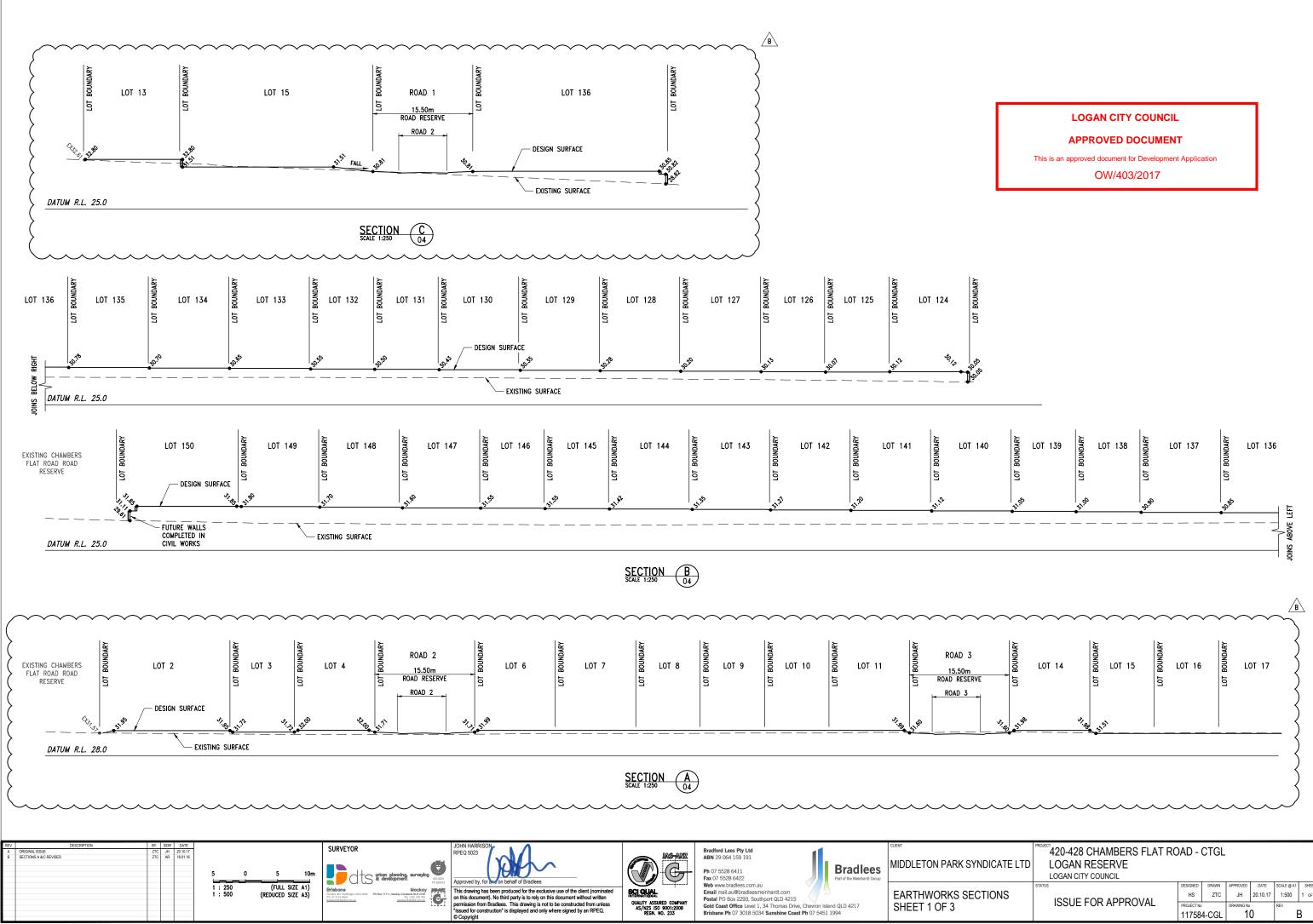


LOGAN CITY COUNCIL

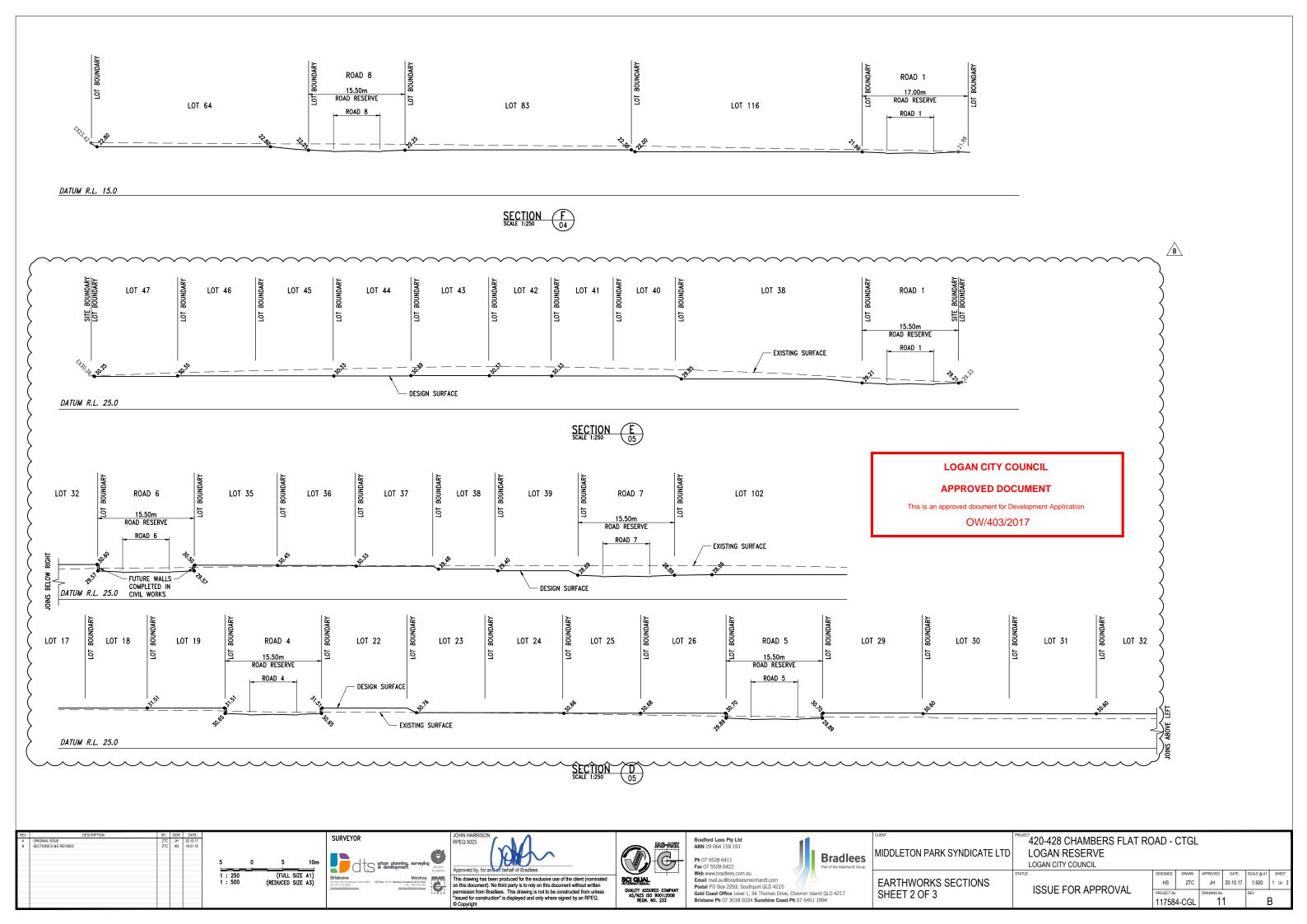
APPROVED DOCUMENT

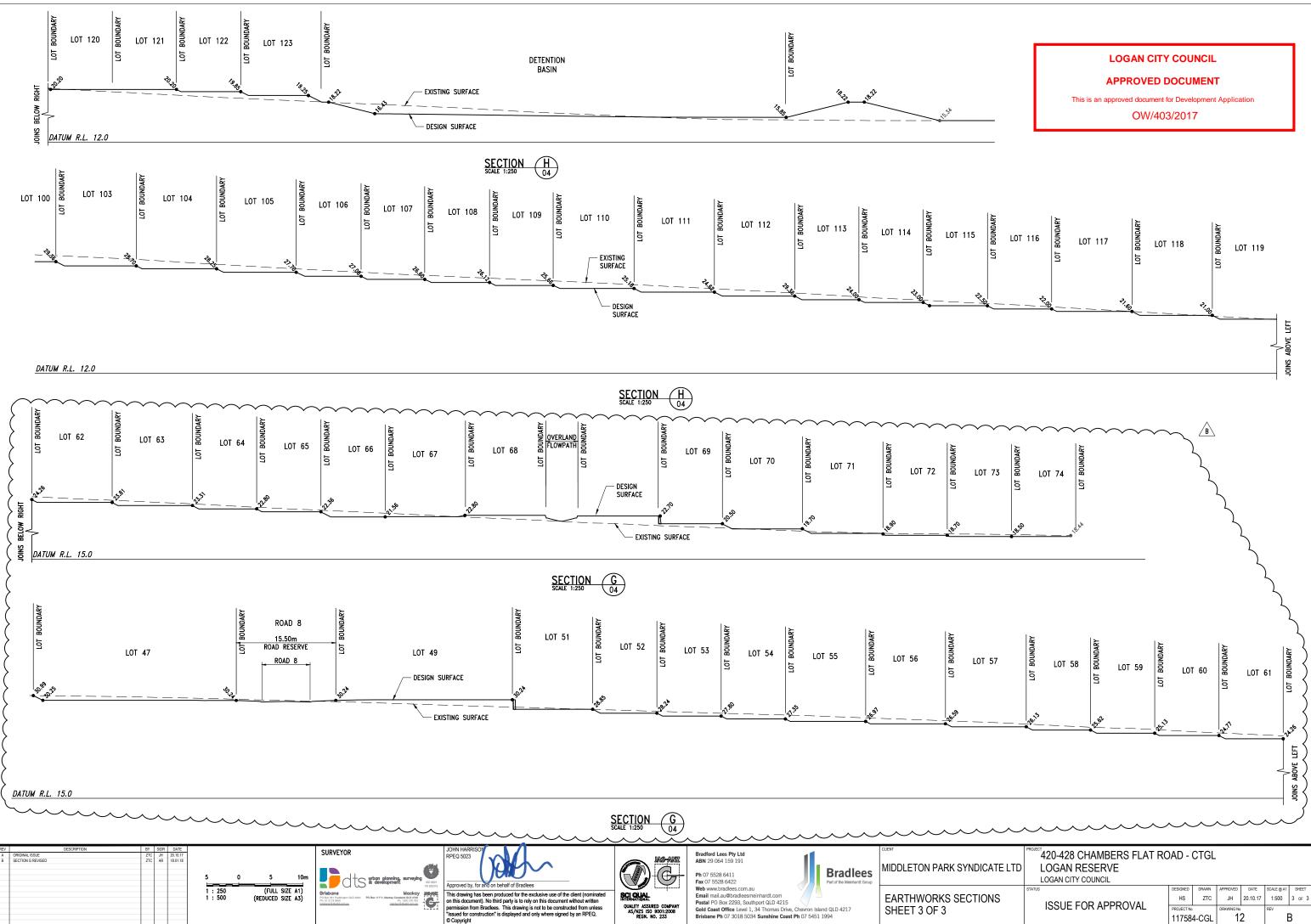
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E LTD	420-428 CHAMBERS FLAT RC LOGAN RESERVE LOGAN CITY COUNCIL)ad -	CTGL			
PLAN	ISSUE FOR APPROVAL	DESIGNED HS PROJECT NO 11758	DRAWN ZTC 4-CGL	APPROVED JH DRAWING NO	SCALE @ A1 1:500 REV	SHEET 3 OF 3

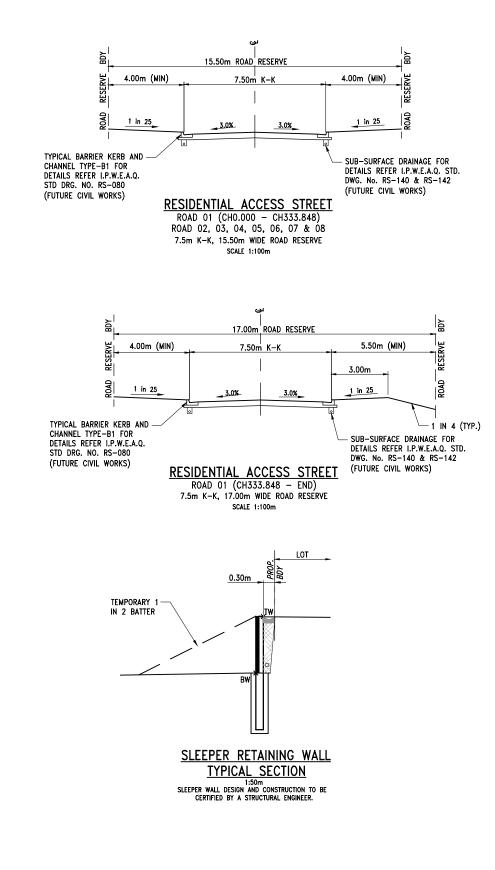


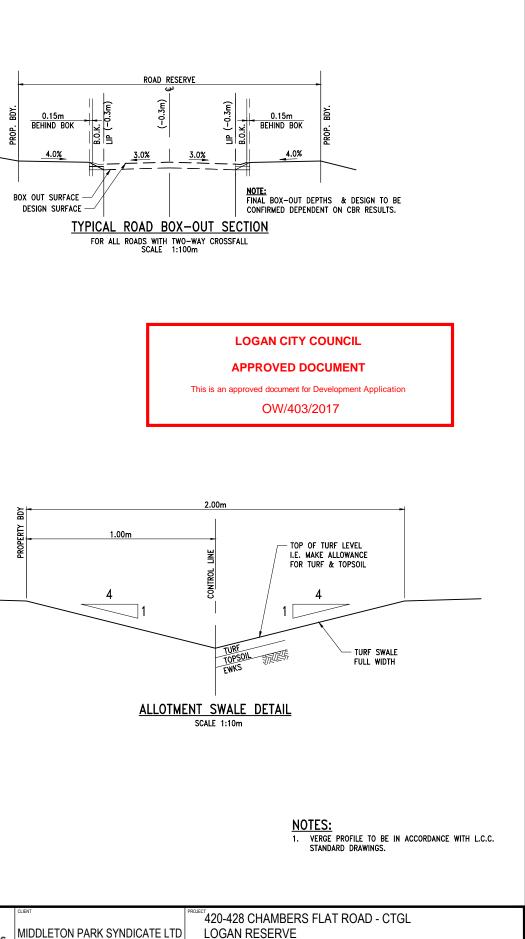
TE LTD	420-428 CHAMBERS FLAT RC LOGAN RESERVE LOGAN CITY COUNCIL)AD - (CTGL				
S	STATUS	DESIGNED HS	DRAWN ZTC	APPROVED JH	DATE 20.10.17	SCALE @ A1 1:500	SHEET 1 OF 3
-	ISSUE FOR APPROVAL	PROJECT №		DRAWING No	0	REV	3

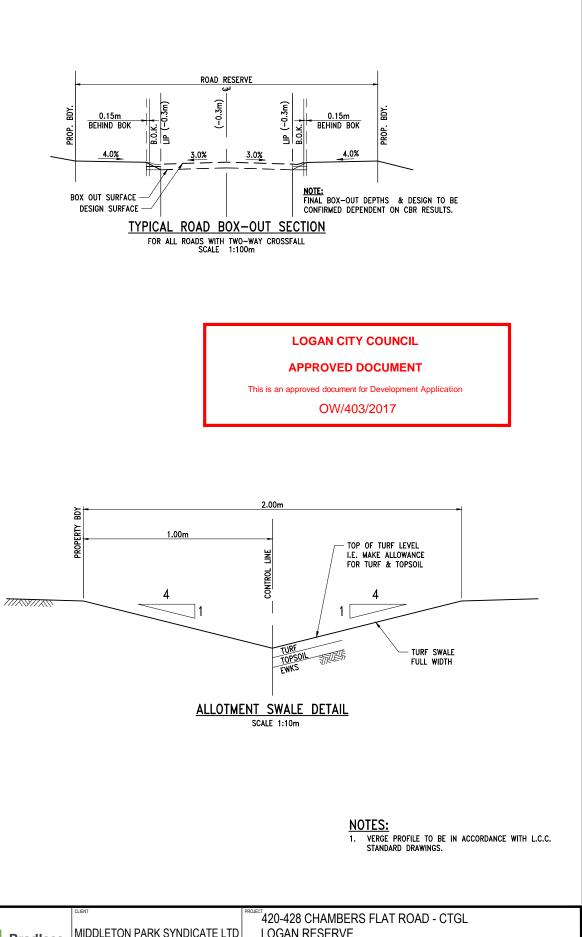










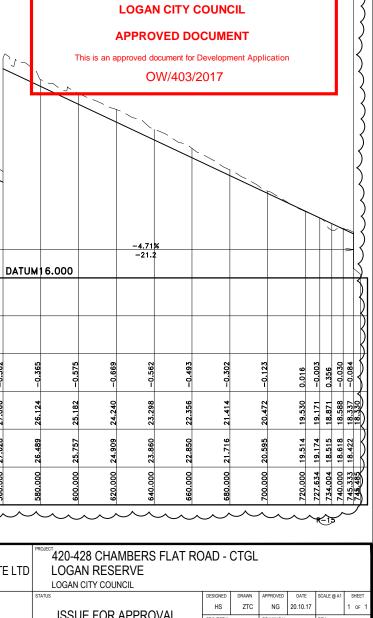


BEV DESCRIPTION BY SUR DATE A ORIGINAL ISSUE 270 # 2010.17 100 0 100 200 300 400 500mm 1 1 1 0 1 2 3 4 5mm 1 0 1 2 3 4 5mm MCKAY CARRS PROSERPINE Approved by, for and on behalf of Bradlees Approved by, for and on behalf of Bradlees This drawing has been produced for the exclusive use of the client (nominate without written permission from Bradlees. This drawing is not to be constructed from unless "Support of this document, where signed by an RPEQ. Outenature document, botto this document, where signed by an RPEQ. Outenature document, botto this document, where signed by an RPEQ.	IRTERNATIONAL	Ph 07 5528 6411 Fax 07 5528 6422 Web www.bradlees.com.au Email mail.au@bradleesmeinhardt.com Portal PO Rev 2203. Scuthood 0 ID 4215	Part of the Meinhardt Group	TUENT MIDDLETON PARK SYNDICATE I TITLE TYPICAL SECTIONS AND GENERAL DETAILS
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ISSUE FOR APPROVAL	HS	ZTC	JH	20.10.17		1 OF 1
STATUS	DESIGNED	DRAWN	APPROVED	DATE	SCALE @ A1	SHEET
LOGAN CITY COUNCIL						

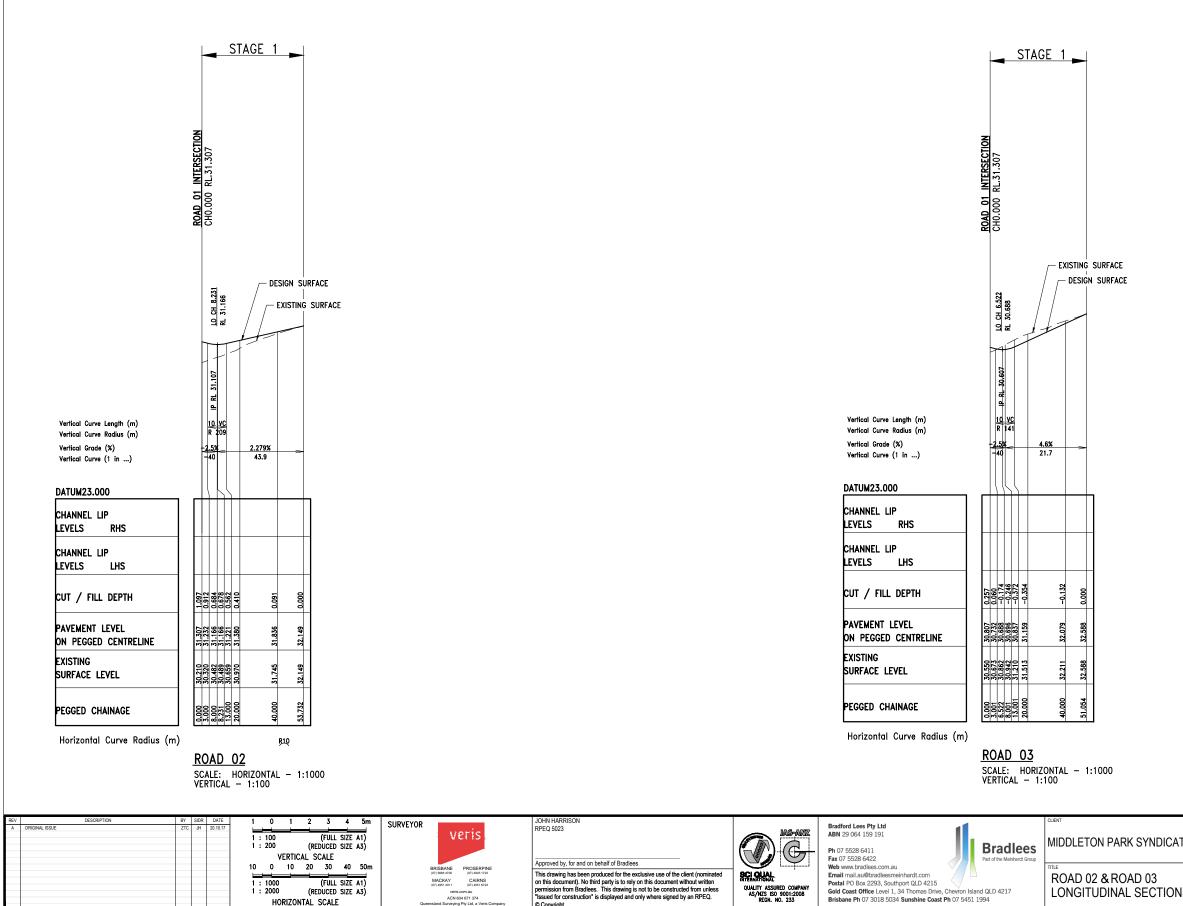
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	20.000			6935353.12			6'07.26"						260.000	509590.730			30.280	99*32'34.					TC	482.394				28.945	81*59'36.35"	45.000	0.170	
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	40.000			6935347.25 6935343.93			'34.95" '34.95"				_	TC	320.038 323.271	509649.937 509653.176			29.919 29.900	99°32'34.		5.000	6.466	24°41'58.51"	IP CT	494.656				28.871 28.857	99°32'35.00"	-15.000	4.575	17*28'37.21"<
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	100.000			6935337.30			'34.95"				_	TC	328.042	509657.830			29.871	74*50'36.		. 000	11 910	45906'78 07"		520.000				28.636	99*32'35.00"			<hr/>
	120.000			6935333.98 6935330.67	_		'34.95" '34.95"					IP IP	333.947 339.852	509663.843 509669.241			29.836 29.800		15.	5.000	11.810	45°06'38.27"		540.000				28.002 27.066	99°32'35.00" 99°32'35.00"			
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	167.641			6935327.04 6935327.67			6'49.79"	15 000	0.085	7 (8 40 20 7 5 7	- "		360.000	509688.843			29.680	99*32'35.						660.000				22.356	99*32'35.00"			<
IP (CT	172.184	_		6935327.67			B'57.32"	15.000	9.085	34°42'07.53	<u> </u>		380.000 400.000	509708.566 509728.289			29.559 29.439	99°32'35.						680.000				21.414 20.472	99°32'35.00" 99°32'35.00"			
TC	177.535			6935325.17			8'57.32"						420.000	509748.012			29.319	99*32'35.						720.000				19.530	99°32'35.00"			<
	179.818			6935324.13 6935324.24			4'04.90"	-15.000	4.566	17*26'22.38	3″		440.000 460.000	509767.736 509787.459			29.199 29.079	99°32'35.					I TC IP	727.634		037 6935234 226 6935234		19.171	99°32'35.00"	-15.000	6.370	24*19'47.93"
СТ	182.101			6935323.75			2'34.95"					TC	477.037	509804.260			28.977	99*32'35.					СТ	734.004				18.871	75°12'47.07"			<
}	200.000			6935320.78	_		°34.95"					IP	479.334	509806.543			28.963	00117'07		5.000	4.594	17*32'58.65"		740.000				18.588	75*12'47.07"			
2	220.000	<u> </u>	551.204	6935317.46	9 30.52	u 99°32	34.95"				L		480.000	509807.211	0935270	0.201	28.959	88°13'27.	+			1] ["	745.333	510068.	307 6935238	3133	18.337	75°12'47.07"			
		OAD INTERSECTI	<u> </u>			ION 20				10N								<u>STAGE</u>	1													
		CHAMBERS FLAT R RL.32.10-	V -			ROAD 02 INTERSECTION CH89.008 RL.31.307		– Design Suf ,– Existing S	RFACE SURFACE	CH172.187 RL.30.807	+	T - T	ROAD 04 INTERSECTION CH252.864 RL.30.323			ROAD 05 INTERSECTION	CH333.848 RL.29.836			ROAD 06 INTERSECTION CH409.527 RL.29.381			ROAD 07 INTERSECTION CH486.881 RL.28.918				This is	APPR s an approved	AN CITY C ROVED DO d document for E OW/403/2	CUMENT	opplication	
		R - <u>3.23</u> -30	2 VC 2 VC 0 VC 0 0% 9 9 UM22.0	00									- <u>0.6</u> -166											389.82 12 di 35 VC ₹ 852		ATUM16.00	00	-4.	<u>71%</u>			
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LEVELS	RHS																	_														+++
	LHS		+ $+$					+		+++++	+	+				+++				~			N100-100- 1						8 5	~		
	DEPTH	0.000	0.10/ 0.666 0.706		1.201	1.079	90.926	0.779		0.227 0.243 0.243 0.237 0.237	0.118	0.056	-0.03£	-00.00			0.167 0.168 0.198	0.321	0.060	-0.239	-0.465		-0.692 -0.716 -0.730 -0.730 -0.730 -0.730 -0.801 -0.801 -0.821	-1.080 -1.041 -1.103	-1.133 -0.562	-0.365	-0.575	-0.665	-0.562	-0.302	-0.123	-0.018 -0.003 -0.036 -0.030 -0.084
PAVEMENT	LEVEL CENTRELINE	32.104	31.721 31.721 31.715	31.658 31.601	31.481	31.361	51.241	31.121 31.001	30.880 30.880 30.867 30.840	30.780 30.775 30.775 30.760 30.760 30.748	30.640	30.520 30.400	30.280	30.160	30.040 70 070	29.920 29.881 29.871	29.800 29.800 29.768	29.680 29.559	29.439	29.319	29.199	29.079 28.977	28.959 28.949 28.945 28.890 28.885 28.885 28.885 28.790 28.790	28.636 28.505 28.505 28.007	27.066	26.124	25.182	24.240	23.298 22.356	21.414	20.472	19.330 19.171 18.871 18.588 18.337 18.337 18.337
EXISTING	VEL	32.104	31.055 31.055 31.010	30.642 30.472	30.280	30.282	30.285	30.342 30.396	30.469 30.467 30.495	30.539 30.539 30.517 30.517 30.511	30.522	30.464 30.358	30.318	30.163	29.988 29.735	29.693 29.693 29.702	29.634 29.631 29.570	29.359 29.198	29.379	29.559	29.664	29.668 29.636	29.650 29.655 29.655 29.691 29.680 29.680 29.660 29.694	29.716 29.546 29.105	28.994 28.994 27.628	26.489	25.757	24.909	23.860 22.850	21.716	20.595	19.174 19.174 18.515 18.618 18.422
PEGGED CH	AINAGE	0.000	20.000 20.940	30.501 40.000	60.000	80.000	100.000	120.000	160.000 162.212 166.731	167.641 176.726 177.535 180.000 182.101	200.000	220.000 240.000	260.000	280.000	300.000	320.000 326.505 328.042	339.852 340.000 345.205	360.000 380.000	400.000	420.000	440.000	460.000 477.037	480.000 481.631 481.631 491.564 491.564 492.369 492.369 500.000 500.000 508.124	520.000 525.624 540.000	543.124 543.124 560.000	580.000	600.000	620.000	640.000 660.000	680.000	700.000	727.634 734.004 740.000 745.333 745.333 745.333 745.485
Horizonta	Il-Curve Ro	īdius	<u>(m)</u> €≘	20		<u> </u>		i		RLR-J5	ROAD		E: HORIZON	TAL - 1:10		€-15 £1						, , , , , , , , , , , , , , , , , , ,]\$1\$1\$ _15									~~ <u>~</u> 15
REV A ORIGINAL ISSUE B ROAD 1 LONGIT	description	LE REVISED		BY SIDR DATE ZTC JH 20.10.1 ZTC AR 18.01.	17 18 1 : 1 1 : 2	00 00 (I VERTICAL		/E A1) /E A3)	rveyor	rban planning, survey : development		JOHN HARRISON RPEQ 5023	ICAL - 1:10	<u> </u>				ABN 2 Ph 07 Fax 07	d Lees Pty Ltd 064 159 191 528 6411 5528 6422		J	Bradlee Part of the Meinhardt Gr	5	ON PARK SY	/NDICATE I		GAN F	CHAMBER RESERVE	RS FLAT RO			
					10 1 : 1 1 : 2		(FULL SIZ REDUCED SIZ	E A1) Bris	bane (361 Paddington GLD 4084 PO all disold corn ats	Mockee Rox 11711, Maekay Canaliand OLD 474 Pin: 1302 278 78 maekay Bratada.com a		This drawing has been on this document). No permission from Brad	on benait of Bradlees en produced for the ex- lo third party is to rely o dlees. This drawing is ion" is displayed and o	on this document with not to be constructed	out written from unless	QUALITY AS/N	ASSURED CON ZS ISO 9001:2 EEGN. NO. 233	Email Postal	O Box 2293, Si ast Office Level	esmeinhardt.co Southport QLD 4 el 1, 34 Thomas	om 4215 s Drive, Chevron Is e Coast Ph 07 545		ROAD 0 LONGIT	1 Udinal se	ECTION	STATUS	SUE F	OR APPF	ROVAL	DESIGNED DRAW HS ZTI PROJECT NO 117584-CG	DRAWING No	TE SCALE @ A1 SHEET 0.17 1 of REV B



	ROAD 02 – ALIGNMENT TABLE														
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE							
IP 1	0.000	509422.454	6935339.127	31.307	9°32'35.10"										
	20.000	509425.770	6935358.851	31.380	9°32'35.10"										
	40.000	509429.086	6935378.574	31.836	9*32'35.10"										
TC	41.118	509429.271	6935379.676	31.861	9°32'35.10"										
IP 2	43.502	509429.674	6935382.073	31.916		R = 10.000	4.768	27'19'14.72'							
СТ	45.886	509431.132	6935384.017	31.970	36*51'49.82"										
IP 3	53.732	509435.839	6935390.295	32.149	36*51'49.82"										

	ROAD 03 - ALIGNMENT TABLE								
PT	PT CHAINAGE EASTING NORTHING HEIGHT BEARING								
IP 1	0.000	509504.574	6935326.965		9°32'45.21"				
	20.000	509507.890	6935346.688	31.159	9°32'45.21"				
	40.000	509511.207	6935366.411	32.079	9°32'45.21"				
IP 2	51.054	509513.040	6935377.312	32.588	9°32'45.21"				



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HORIZONTAL SCALE

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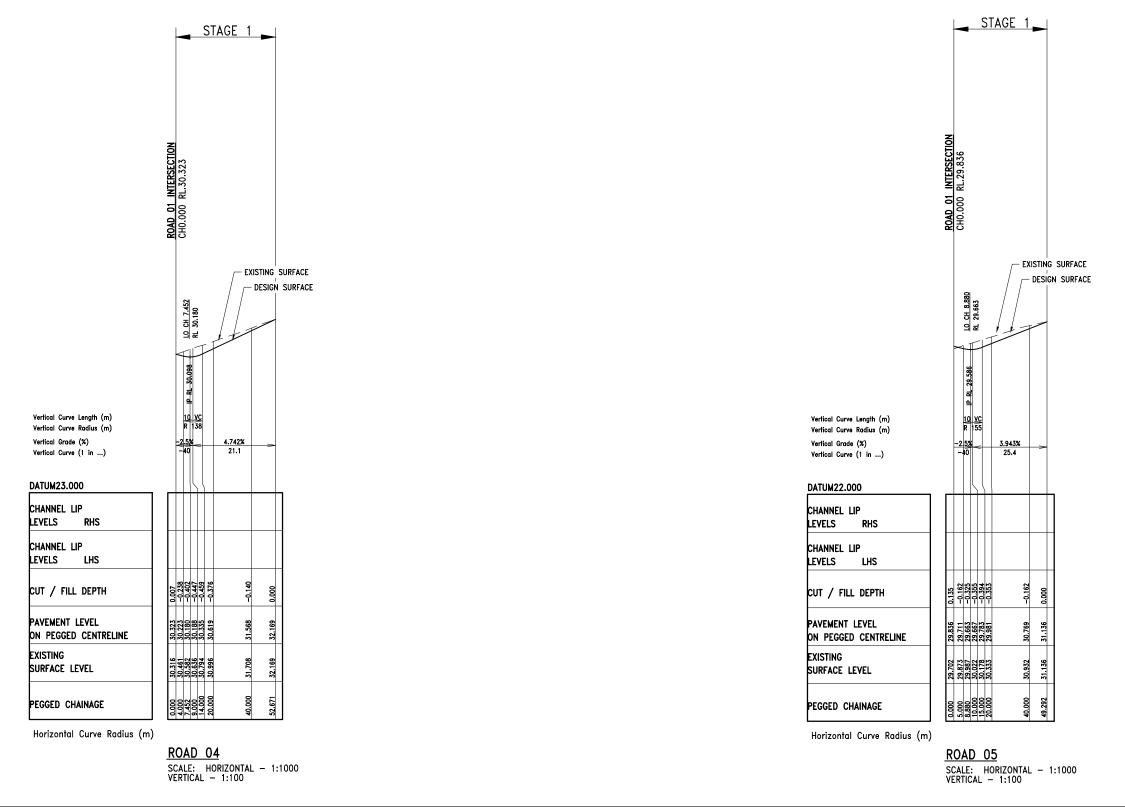
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MIDDLETON PARK SYNDICATE LTD	420-428 CHAMBERS FLAT ROAD - CTGL LOGAN RESERVE							
	LOGAN CITY COUNCIL							
TITLE	ISSUE FOR APPROVAL		DRAWN	APPROVED	DATE	SCALE @ A1	SHEET	
ROAD 02 & ROAD 03			ZTC	JH	20.10.17		1 OF 1	
LONGITUDINAL SECTIONS				DRAWING № 15		REV		
		11758	4-UGL		5		1	

ROAD 04 – ALIGNMENT TABLE								
PT CHAINAGE EASTING NORTHING HEIGHT BEARI								
IP 1	0.000	509583.689	6935312.021	30.323	9*32'44.89'			
	20.000	509587.006	6935331.744	30.619	9*32'44.89			
	40.000	509590.323	6935351.467	31.568	9*32'44.89			
IP 2	52.671	509592.424	6935363.963	32.169	9°32'44.89			

	ROAD 05 – ALIGNMENT TABLE							
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING			
IP 1	0.000	509663.637	6935302.003	29.836	9*32'35.11"			
	20.000	509666.953	6935321.726	29.981	9°32'35.11"			
	40.000	509670.269	6935341.449	30.769	9*32'35.11"			
IP 2	49.292	509671.809	6935350.613	31.136	9°32'35.11"			



2 3 4 5m 0 SURVEYOR JOHN HARRI RPEQ 5023 Bradford Lees Pty Ltd ABN 29 064 159 191 (FULL SIZE A1) (REDUCED SIZE A3) ias-anz veris 1 : 100 1 : 200 G MIDDLETON PARK SYNDICAT Bradlees Ph 07 5528 6411 Fax 07 5528 6422 Web www.bradlees.com.au Email mail.au@bradleesmeinhardt.com VERTICAL SCALE 10 0 10 20 30 40 50m Approved by, for and on behalf of Bradlees BRISBANE (07) 3686 4700 MACKAY (07) 4951 2311 (07) 4051 6722 This drawing has been produced for the exclusive use of the client (nominated on this document). No third party is to rely on this document without written permission from Bradeles. This drawing is not to be constructed from unless "Issued for construction" is displayed and only where signed by an RPEQ. 1 : 1000 1 : 2000 (FULL SIZE A1) (REDUCED SIZE A3) SCI QUAL ROAD 04 & ROAD 05 Email mail.auworableesmeinnarat.com Postal PO Box 2293, Southport QLD 4215 Gold Coast Office Level 1, 34 Thomas Drive, Chevron Island QLD 4217 Brisbane Ph 07 3018 5034 Sunshine Coast Ph 07 5451 1994 QUALITY ASSURED COMPANY AS/NZS ISO 9001:2008 REGN. NO. 233 veris.com.au ACN 604 671 374 ~ ~~wving Pty Ltd, a LONGITUDINAL SECTION HORIZONTAL SCALE Copyright

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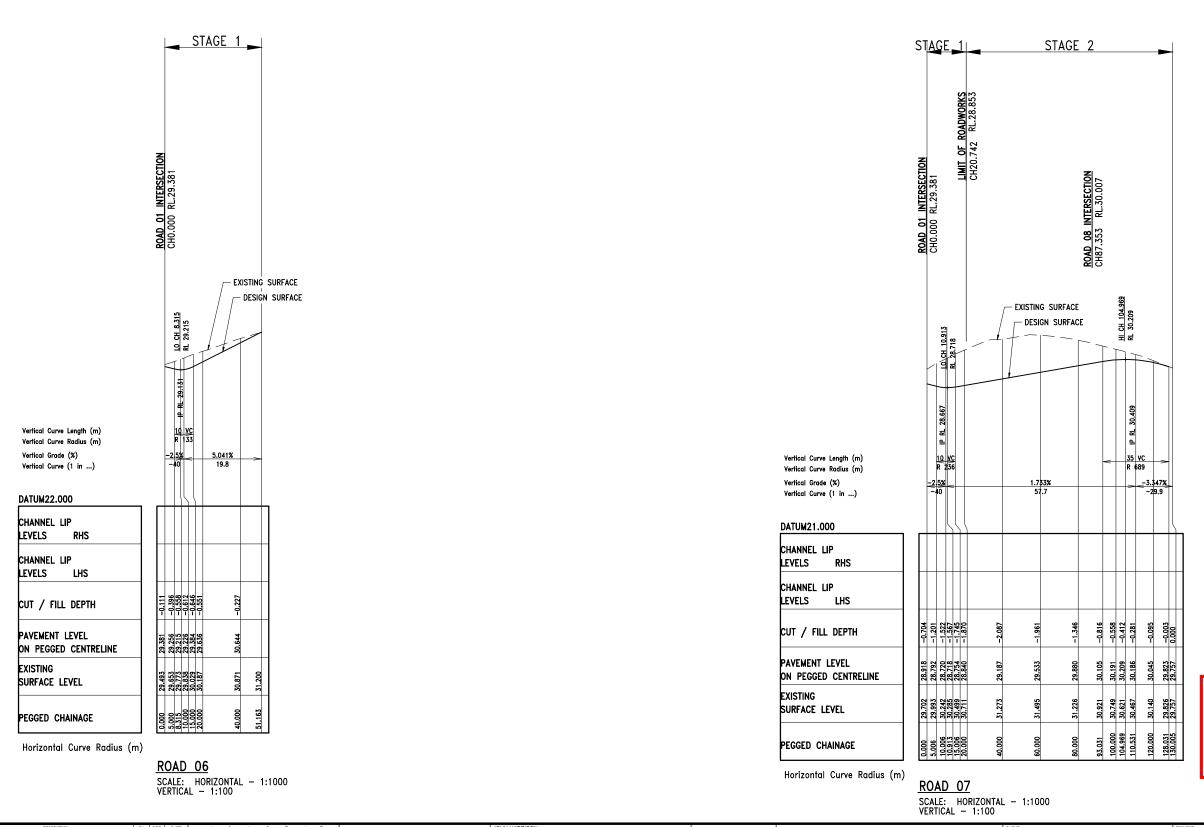
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١S	ISSUE FOR APPROVAL	PROJECT № 11758		DRAWING NO		REV	Ą		
	ISSUE FOR APPROVAL	DESIGNED HS	DRAWN ZTC	APPROVED JH	DATE 20.10.17	SCALE @ A1	SHEET 1 OF 1		
	LOGAN CITY COUNCIL								
TE LTD									

	ROAD 06 - ALIGNMENT TABLE								
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING				
IP 1	0.000	509737.782	6935287.637	29.381	9°32'34.85"				
	20.000	509741.097	6935307.360	29.636	9°32'34.85"				
	40.000	509744.413	6935327.084	30.644	9*32'34.85"				
IP 2	51.163	509746.264	6935338.092		9*32'34.85"				

	RC)AD 07 - AL	IGNMENT TAE	BLE
PT	CHAINAGE	EASTING	NORTHING	HEIGHT
IP 1	0.000	509814.157	6935276.440	
	20.000	509817.473	6935296.163	28.840
	40.000	509820.788	6935315.887	29.187
	60.000	509824.104	6935335.610	29.533
	80.000	509827.420	6935355.333	29.880
	100.000	509830.736	6935375.056	30.191
	120.000	509834.052	6935394.780	30.045
IP 2	130.005	509835.710	6935404.646	29.757

BEARING 9°32'35.00" 9°32'35.00" 9*32'35.00" 9*32'35.00" 9°32'35.00" 9*32'35.00" 9*32'35.00" 9°32'35.00"





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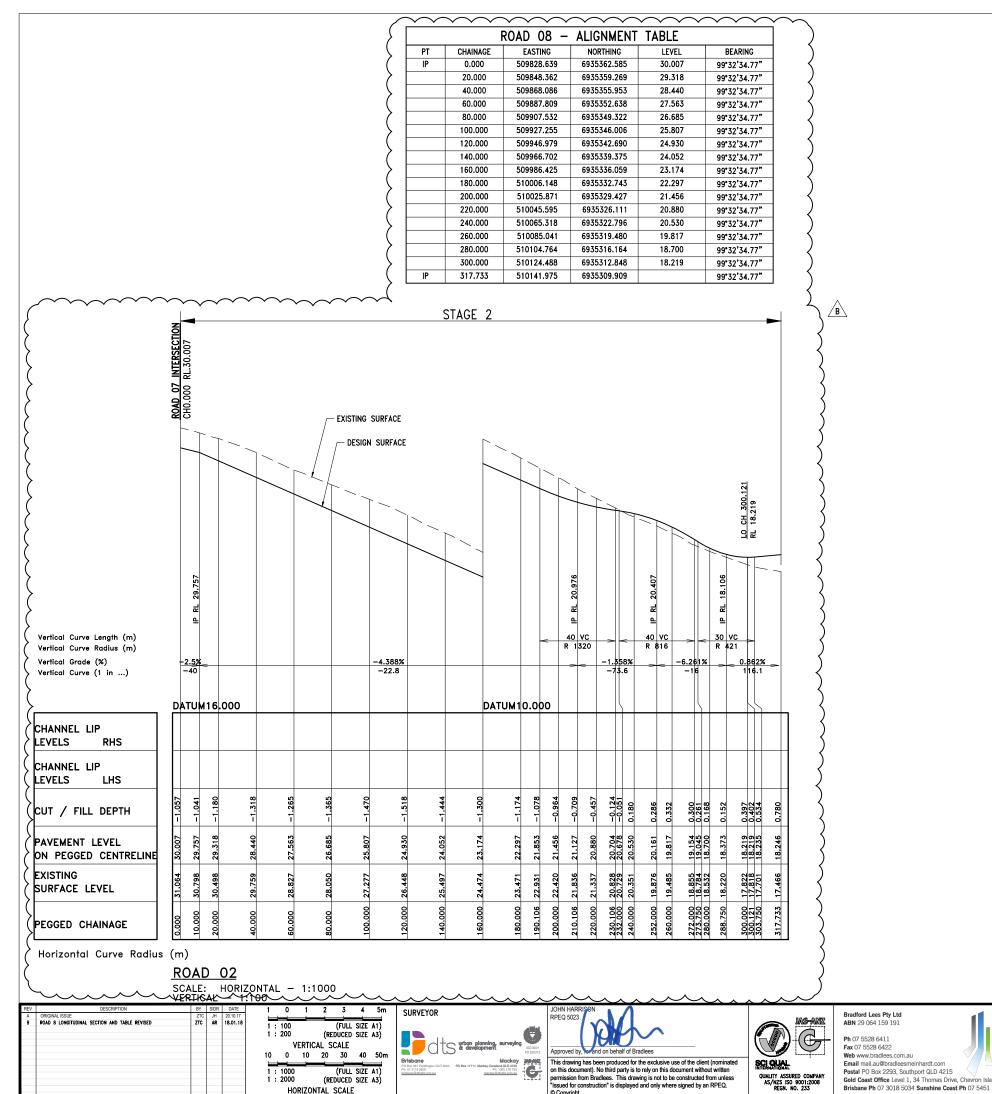
TE LTD	420-428 CHAMBERS FLAT RC LOGAN RESERVE LOGAN CITY COUNCIL)AD - (CTGL				
		DESIGNED HS	DRAWN ZTC	APPROVED JH	DATE 20.10.17	SCALE @ A1	SHEET 1 OF 1
IS	ISSUE FOR APPROVAL		PROJECT No 117584-CGL		DRAWING No 17		٩

MIDDLETON PARK SYNDICAT

LONGITUDINAL SECTION

ROAD 06 & ROAD 07

Bradlees



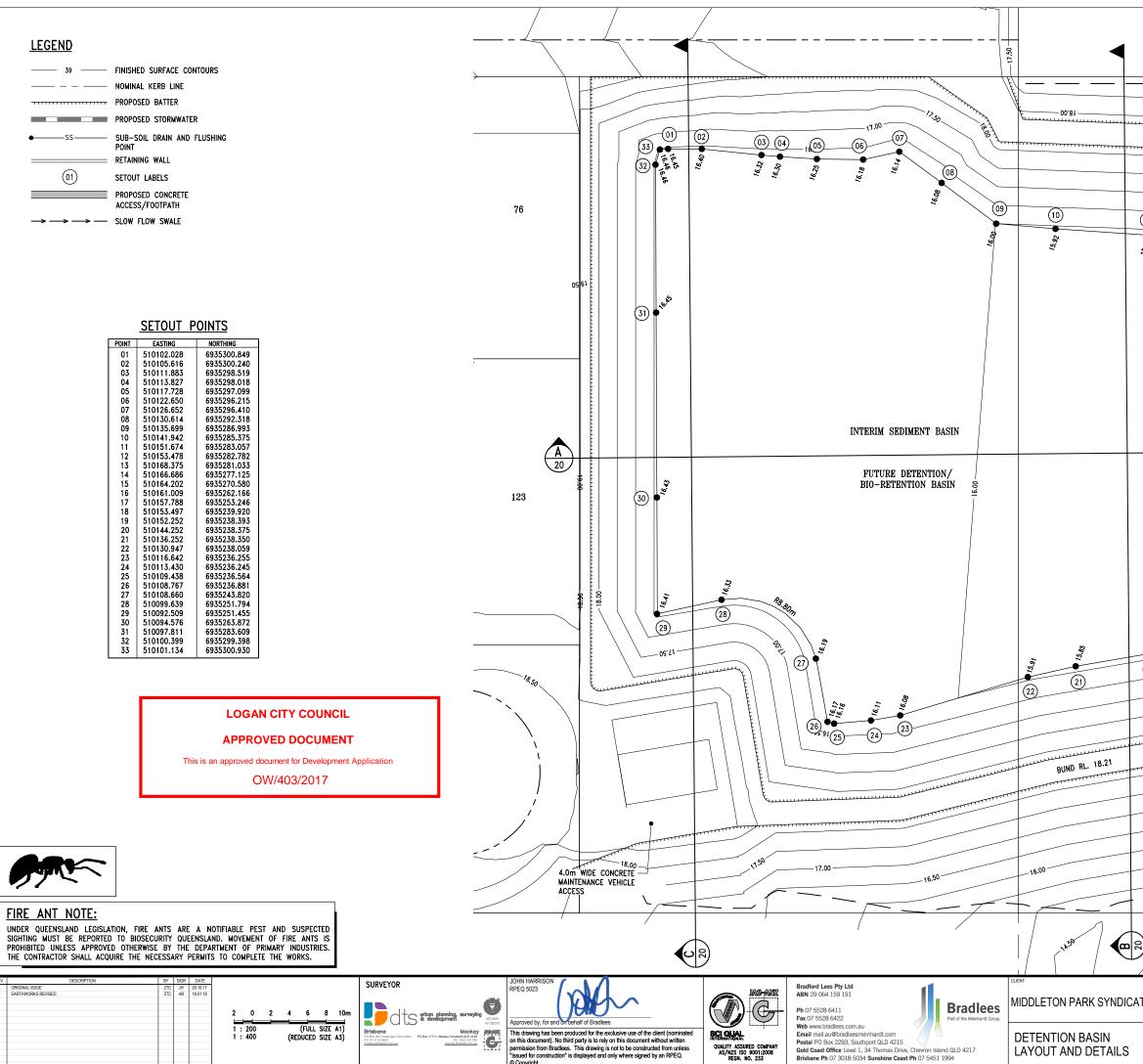
HORIZONTAL SCALE

Bradlees Part of the Meinhardt Group	MIDDLETON PARK SYNDICATE LTD	420-428 CHAMBERS FLAT RC LOGAN RESERVE LOGAN CITY COUNCIL						
	ROAD 08		DESIGNED HS	DRAWN ZTC	APPROVED JH	DATE 20.10.17	SCALE @ A1	SHEET 1 OF 1
and QLD 4217 1994	LONGITUDINAL SECTION	ISSUE FOR APPROVAL	PROJECT № 11758	4-CGL	DRAWING No		REV	3

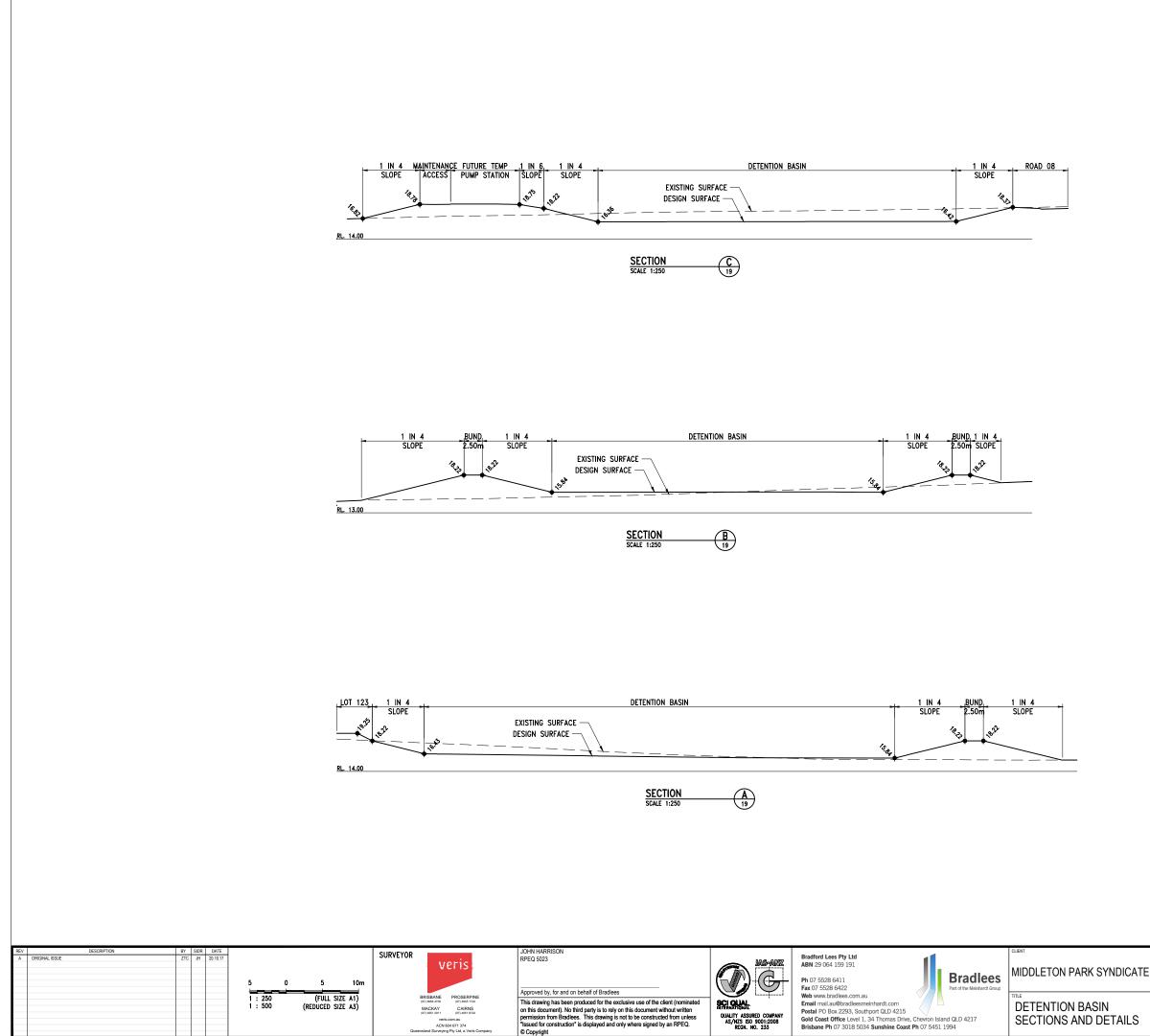
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TE LTD	420-428 CHAMBERS FLAT RC LOGAN RESERVE LOGAN CITY COUNCIL			
	ISSUE FOR APPROVAL	DESIGNED DRAWN HS ZTC PROJECT № 117584-CGL	APPROVED DATE JH 20.10.17 DRAWING NO 19	SCALE @ A1 SHEET 1 OF 1 REV B



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NOTE: LEVELS SHOWN REFER TO FINISHED SURFACE LEVELS - CONTRACTOR TO MAKE ALLOWANCE FOR LANDSCAPING (IE. TURF, TOPSOIL ETC)

ELTD	420-428 CHAMBERS FLAT RC LOGAN RESERVE LOGAN CITY COUNCIL)AD -	CTGL				
	STATUS	DESIGNED	DRAWN	APPROVED	DATE	SCALE @ A1	SHEET
			ZTC	JH	20.10.17	1:250	1 OF 1
	ISSUE FOR APPROVAL	PROJECT №	4-CGI		0	REV	4

DETENTION BASIN

SECTIONS AND DETAILS

PHASING NOTES:

PHASE 1 - PRIOR TO PRE-START THE CONTRACTOR WILL BE PAID FOR SCHEDULED QUANTITIES FOR THIS PHASE

PHASE 2 - DURING CONSTRUCTION THIS PHASE IS TO BE IN ACCORDANCE WITH THE CONTRACTOR'S SEDIMENT AND EROSION CONTROL PLAN. THE CONTRACTOR IS TO ENGAGE A STORMWATER QUALITY CONSULTANT TO UNDERTAKE STORMWATER QUALITY AND EVENT MONITORING DURING THE "CONSTRUCTION" PHASE. INCLUDING BUT NOT LIMITED TO REMEDIAL ACTION FOLLOWING EVENT MONITORING RESULTS.

THE MONTHLY ALLOWANCE IN THE SCHEDULE WILL NOT BE CLAIMABLE IF TESTS SHOW A RELEASE OF GREATER THAN 50mg/L OF SUSPENDED SOLIDS AND THE RAIN EVENTS DO NOT EXCEED 75TH PERCENTILE OF A 5 DAY EVENT (ON THIS SITE 40mm OVER 5 DAYS). ALL OTHER COSTINGS NOT SCHEDULED ARE DEEMED INCLUDED.

PHASE 3 - PRACTICAL COMPLETION INSPECTION THE CONTRACTOR IS TO ENGAGE A STORMWATER QUALITY CONSULTANT TO UNDERTAKE STORMWATER QUALITY AND EVENT MONITORING DURING THE "MAINTENANCE" PHASE, INCLUDING BUT NOT LIMITED TO REMEDIAL ACTION FOLLOWING EVENT MONITORING RESULTS.

THE CONTRACTOR WILL BE PAID FOR SCHEDULED QUANTITIES FOR THIS PHASE.

STOCKPILE NOTES:

ALL STOCKPILES MUST BE SURROUNDED BY A SILT FENCE. STOCKPIES MUST BE COVERD, IF NECESSARY, TO PREVENT DUST OR CONTAMINATION OF WATERS.

STABILISATION NOTES:

- TOP SOIL AND SEED MUST BE PLACED ON COMPLETED AREAS WITHIN 7 DAYS OF THAT AREA BEING COMPLETED. HYDROMULCHING MAY BE ORDERED BY THE SUPERINTENDENT.
- ALL BATTERS GREATER THAN 1 IN 4 TO BE MULCHED WITH ONSITE 3
- MULCH. 90% STRIKE MUST OCCUR WITHIN 4 WEEKS. AFTER THIS PERIOD 4. RE-SEEDING MAY BE ORDERED AT THE CONTRACTOR'S COST.

GENERAL NOTES:

- 1. THE MEASURES SHOWN ON THE ESC PLANS ARE INDICATIVE ONLY. THE CONTRACTOR SHALL CARRY OUT ALL WORKS IN ACCORDANCE WITH THE CONTRACTORS SEDIMENT AND EROSION CONTROL PLAN. ALL RESPONSIBILITY FOR SEDIMENT AND EROSION CONTROL IS DELEGATED TO THE CONTRACTOR BY THE APPLICANT AND THE LAND OWNERS UNTIL THE ON MAINTENANCE INSPECTION.
- 2. THE CONTRACTOR AT A MINIMUM IS TO COMPLY WITH HEALTHY WATERWAYS "CONTROLLING STORMWATER POLLUTION ON YOUR BUILDING SITE" AND ALL ASSOCIATED DOCUMENTATION AND CHECKLISTS. SEDIMENT CONTROLS ARE NOT TO BE REMOVED PRIOR TO SATISFACTORY ESTABLISHMENT OF GROUND COVER/WRITTEN DIRECTION FROM THE SUPERINTENDENT.
- 3. ALL FENCING AND SILT FENCING TO BE INSTALLED PRIOR TO PRE-START MEETING.
- 4. THE CONTRACTOR SHALL PROVIDE AN EROSION AND SEDIMENT CONTROL PLAN FOR APPROVAL BY SUPERINTENDENT PRIOR TO POSSESSION OF SITE BEING GRANTED.
- 5. ALL COARSE SEDIMENTS ARE TO BE TREATED AND SHALL NOT ENTER THE DOWNSTREAM INFRASTRUCTURE. THE TARGET FOR THIS IS 50mg/L OF SUSPENDED SOLIDS 90% OF THE TIME.
- ALL FINE SEDIMENTS (DISPERSIVE SOILS) ARE TO BE TREATED IN TEMPORARY BASINS ON SITE. THE CONTRACTOR MUST TREAT AND RELEASE THE WATER AT COUNCIL STANDARDS, AS SOON AS POSSIBLE AFTER FACH EVENT.
- ONCE HYDRO MULCH IS DEEMED TO BE SUFFICIENTLY ESTABLISHED, SILT 7. FENCES CAN BE REMOVED IF INSTRUCTED BY THE PRINCIPLE.

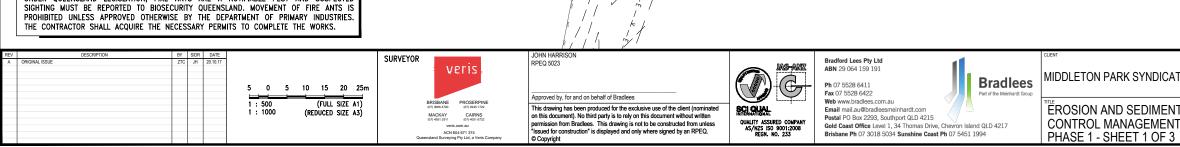
MEASURES SHOWN ON THIS PLAN ARE TO BE IMPLEMENTED PRIOR TO PRE-START MEETING WITH

THE CONTRACTOR MUST INFORM THEMSELVES OF AND COMPLY WITH THE "STATE PLANNING POLICY FOR HEALTHY WATERS".



FIRE ANT NOTE:

UNDER QUEENSLAND LEGISLATION, FIRE ANTS ARE A NOTIFIABLE PEST AND SUSPECTED SIGHTING MUST BE REPORTED TO BIOSECURITY QUEENSLAND. MOVEMENT OF FIRE ANTS IS



LEGEND

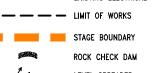


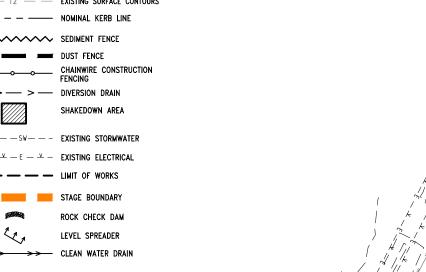


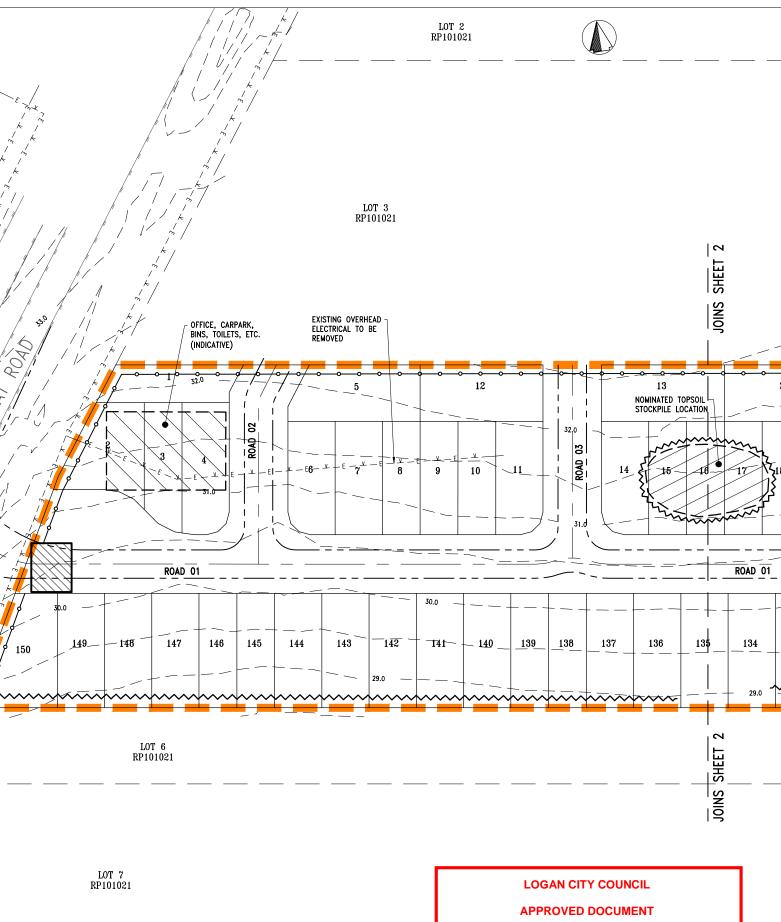
DUST FENCE FENCING



-SW---SW--- EXISTING STORMWATER -E - - E - E - E EXISTING ELECTRICAL







LOT 3

RP101021

EXISTING OVERHEAD

ELECTRICAL TO BE

5

-7

143

142

29.0

- E**6**-

REMOVED

OFFICE, CARPARK,

(INDICATIVE)

ROAD 01

147

LOT 6

RP101021

149_

150

148

LOT 7

RP101021

146

145

144

ROAD

FLAT

CHAMBERS

*

BINS, TOILETS, ETC.

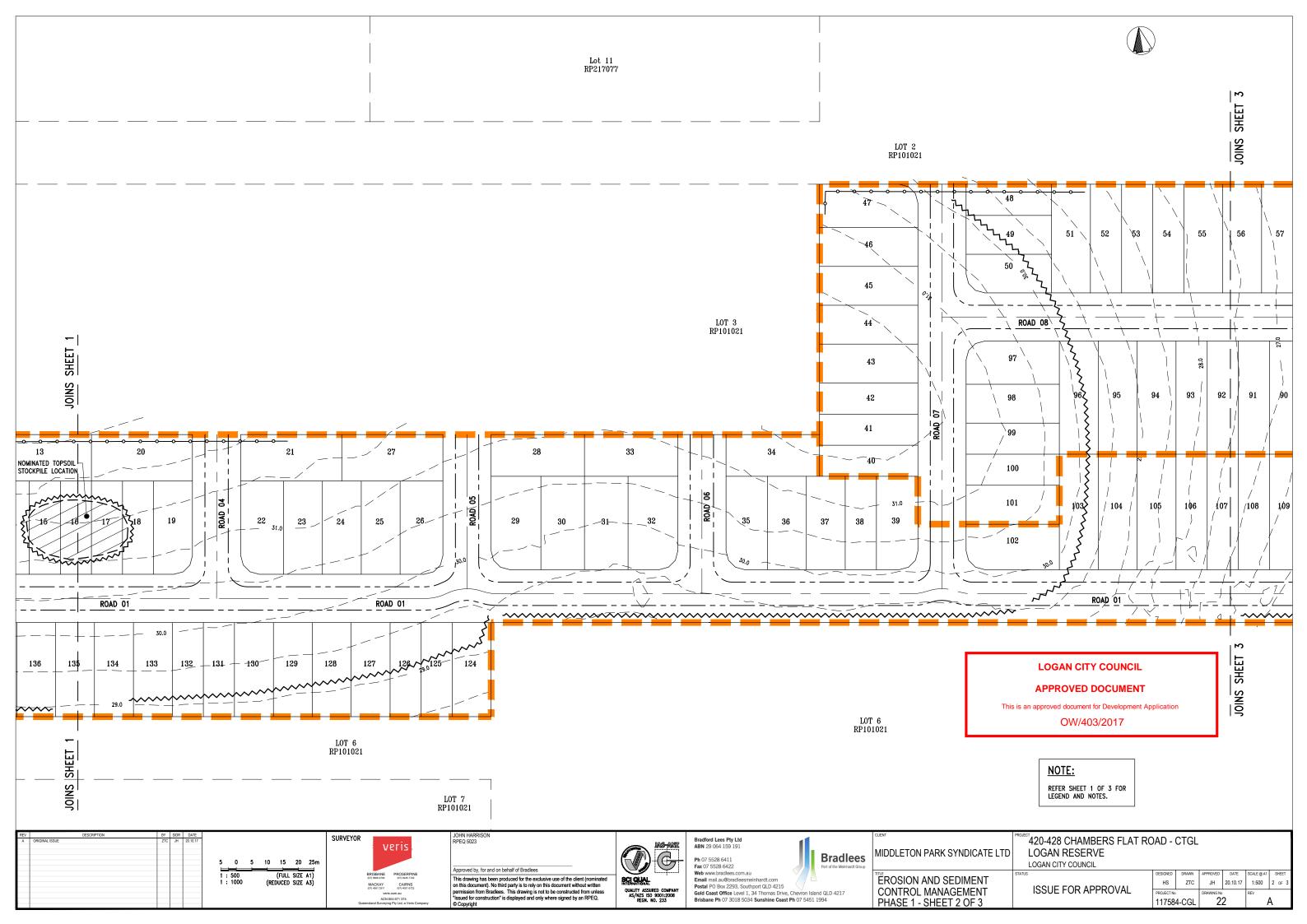
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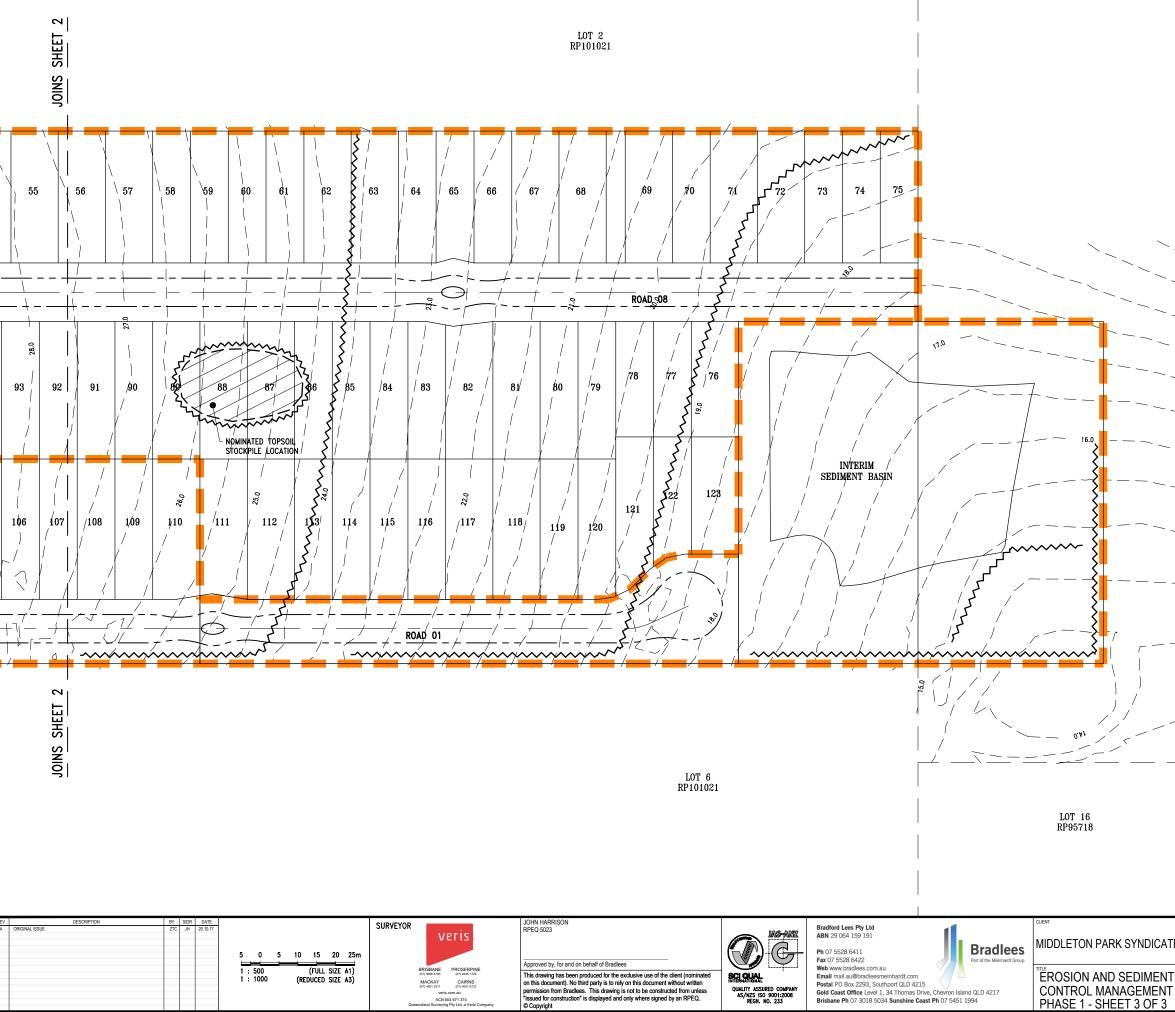
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TE LTD	420-428 CHAMBERS FLAT RC LOGAN RESERVE LOGAN CITY COUNCIL)AD -	CTGL				
IT	ISSUE FOR APPROVAL	DESIGNED HS	DRAWN ZTC	APPROVED JH	DATE 20.10.17	SCALE @ A1 1:500	SHEET 1 OF 3
	1550E FOR APPROVAL	PROJECT No 11758		DRAWING NO	1	REV	٩







LOGAN CITY COUNCIL

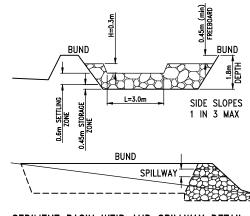
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		LOT 17 RP95718			SHEET 1		FOR	
E LTD	420-428 CHAMBE LOGAN RESERV LOGAN CITY COUNCIL		AD -	CTGL				
-	STATUS	_	DESIGNED HS	DRAWN ZTC	APPROVED JH	DATE 20.10.17	SCALE @ A1 1:500	SHEET 3 OF 3
•	ISSUE FOR APP	OR APPROVAL		4-CGL	DRAWING No 23		REV	

SEDIMENT BASIN NOTES:

- 1. THE CONTRACTOR SHALL CONDUCT MAIN CONSTRUCTION TO DETERMINE WHETHER OR CONSTRUCTION ACTIVITY HAS DAMAGE BASINS. IF DAMAGE HAS OCCURRED THE THE BASIN/BASINS TO THEIR ORIGINAL SHALL ALSO BE CARRIED OUT BY THE RAINFALL EVENT AND REPAIR BASINS W
- 2. THE CONTRACTOR SHALL PLACE A POST TO INDICATE THE DEPTH AT WHICH ACC REMOVED TO RESTORE THE ORIGINAL ST
- 3. DURING ANY INSPECTIONS THE CONTRACT PIPE CONNECTIONS FOR LEAKS, CHECK SETTLEMENT, AND CHECK SUBMERGED II REPAIR AS NECESSARY. ALL TRASH AND REMOVED FROM BASIN AND RISER.
- 4. CONTRACTOR TO CONFIRM FINAL LOCATION SITE.
- 5. ALL FINE SEDIMENTS (DISPERSIVE SOILS TEMPORARY BASINS ON SITE. THE CONT DECANT THE WATER AT COUNCIL AND S STANDARDS USUALLY 50mg/L, AS SOO EVENT.
- 6. ALL COMMERCIAL FLOCCULANTS SHOULD ACCORDANCE WITH SITE SPECIFIC SOIL IN ACCORDANCE WITH THE MANUFACTUR SPECIFIC TESTING HAS NOT OCCURRED. BE SPREAD EVENLY OVER THE ENTIRE FINCORPORATED UNIFORMLY THROUGHOUT
- 7. GYPSUM MAY BE PLACED THROUGHOUT FACILITATE FLOCCULATION AND REDUCE WATER QUALITY CRITERIA FOR DISCHARG



SEDIMENT BASIN WEIR AND N.T.S

- NOTE: 1. THE MEASURES SHOWN ON THIS PL ONLY. THE CONTRACTOR SHALL CAR WORKS IN ACCORDANCE WITH THE SEDIMENT AND EROSION CONTROL RESPONSIBILITY FOR SEDIMENT AND IS DELEGATED TO THE CONTRACTOR APPLICANT AND THE LAND OWNER MAINTENANCE INSPECTION.
- 2. THE CONTRACTOR AT A MINIMUM IS HEALTHY WATERWAYS "CONTROLLING POLLUTION ON YOUR BUILDING SITE ASSOCIATED DOCUMENTATION AND

THE CONTRACTOR MUST INFORM THEM COMPLY WITH THE "STATE PLANNING HEALTHY WATERS".

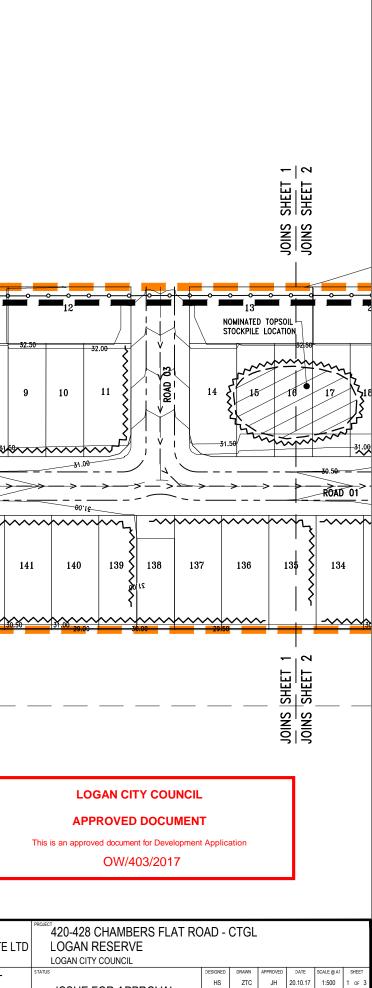


FIRE ANT NOTE:

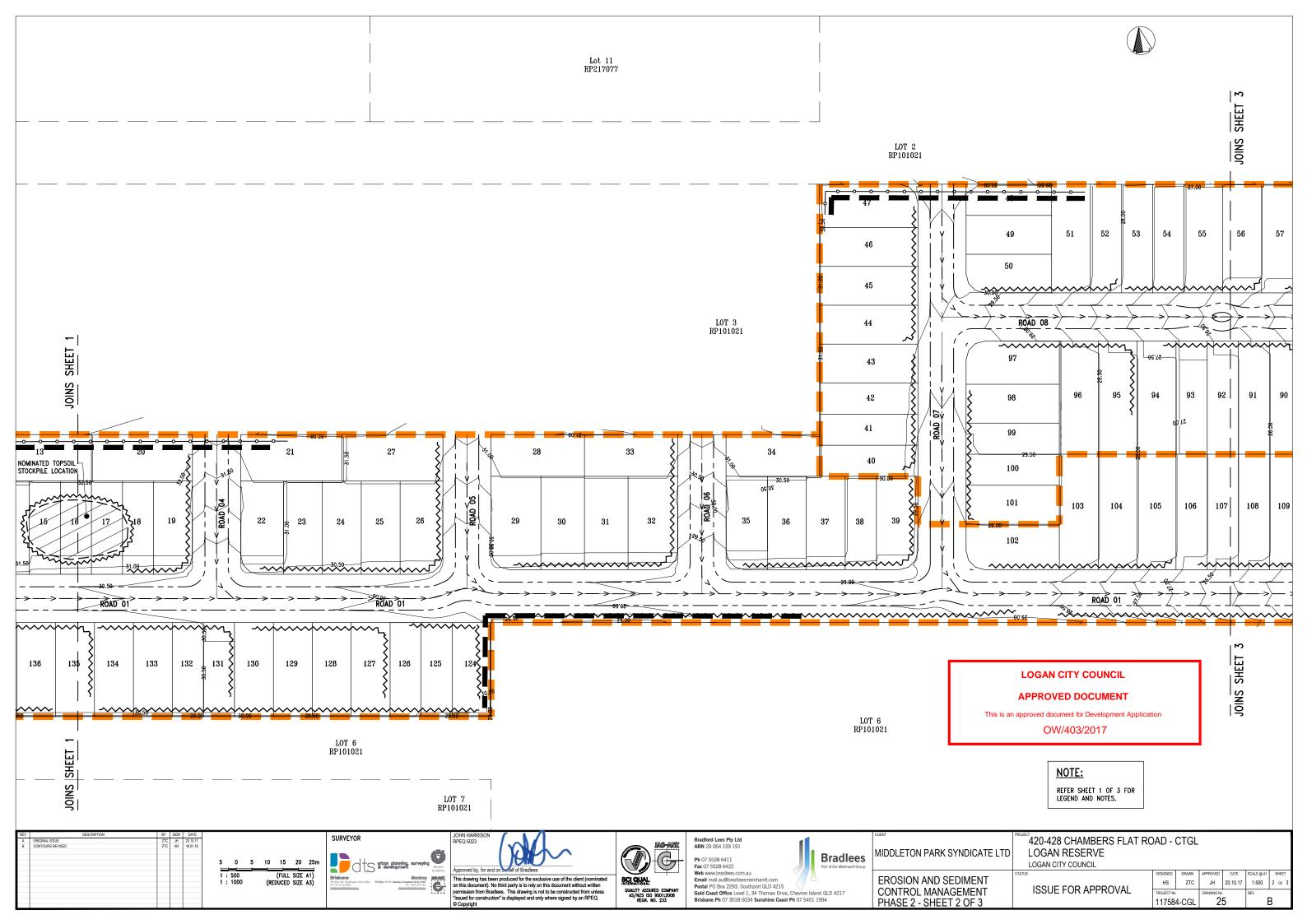
RIGINAL ISSUE

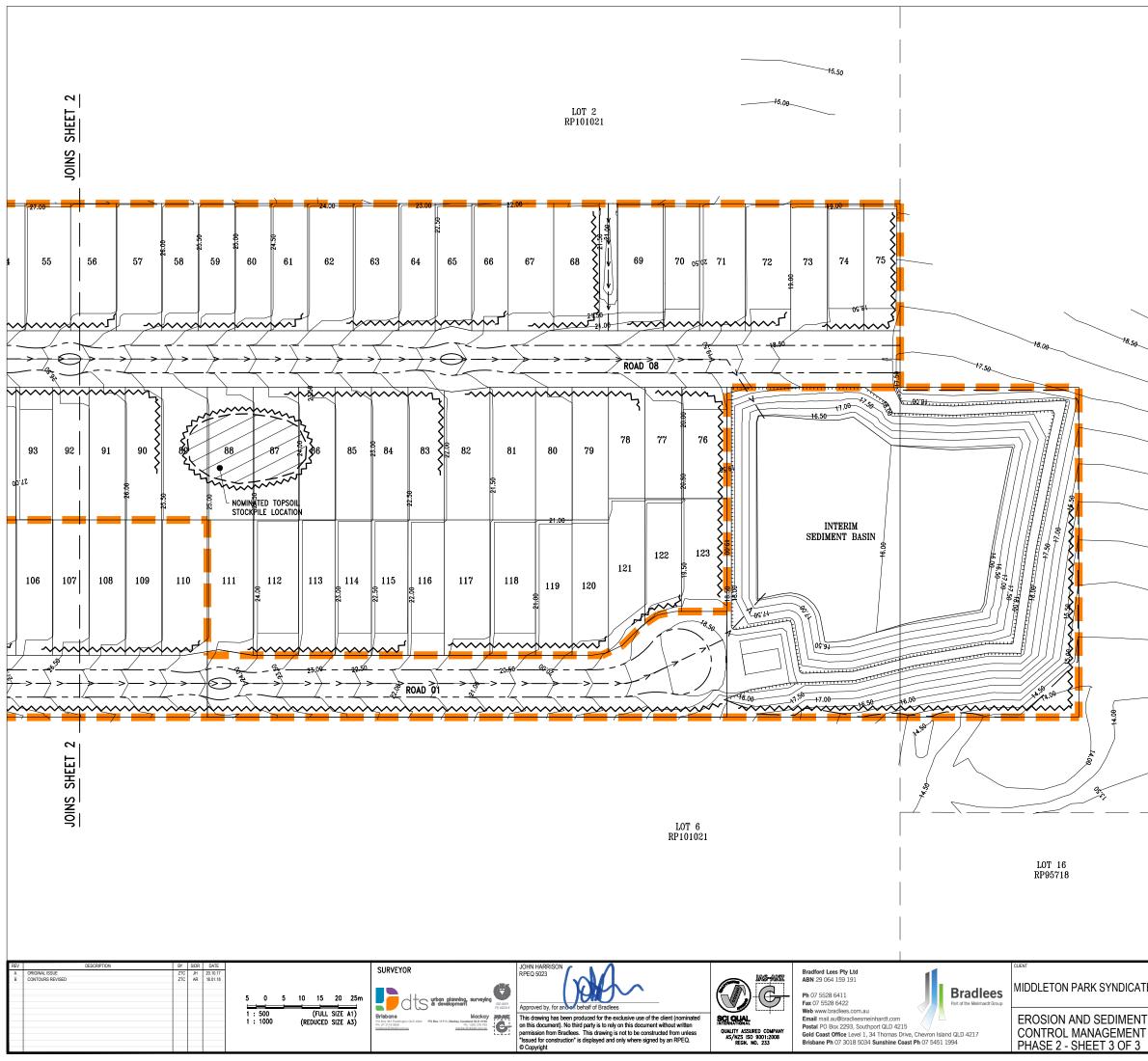
UNDER QUEENSLAND LEGISLATION, FIRE SIGHTING MUST BE REPORTED TO BIOSI PROHIBITED UNLESS APPROVED OTHERW THE CONTRACTOR SHALL ACQUIRE THE 1

S: MAINTENANCE INSPECTIONS DURING HER MACHINERY, FALLING TREES, MAGED ANY COMPONENTS OF THE THE CONTRACTOR SHALL REPAIR IAL REQUIREMENTS. INSPECTIONS HE CONTRACTOR AFTER EACH S WERE NECESSARY. POST OR STAKE WITHIN EACH BASIN ACCUMULATED SEDIMENT MUST BE L STORGE VOLUME. TRACTOR SHALL CHECK ALL VISIBLE ECK EMBANKMENTS FOR EXCESSIVE ED INFLOW PIPES FOR SILT AND AND OTHER DEBRIS SHALL BE	LEGEND 12 	DUST FENCE - Chainwire Construction Fencing		/ ,	0120				F
CATION OF SEDIMENT BASIN ON OILS) ARE TO BE TREATED IN CONTRACTOR MUST TREAT AND ND SPECIFIED WATER QUALITY SOON AS POSSIBLE AFTER EACH OULD BE INITIALLY BE APPLIED IN OIL INVESTIGATIONS, OR OTHERWISE TOTURERS SPECIFICATIONS IF SITE YED. FLOCCULATING AGENTS MUST RE POND SURFACE OR OTHERWISE IOUT THE SEDIMENT BASIN. DUT THE DRAINAGE LINES TO UCE THE TIME TO ACHIEVE THE HARGE.	-SWSW	LEVEL SPREADER - SWALE DRAIN - CLEAN WATER DRAIN - EXISTING STORMWATER - LIMIT OF WORKS STAGE BOUNDARY	5	and the second sec	′ // / BIN	TICE, CARPARK, S, TOILETS, ETC. DICATIVE)		LOT 3 RP101021	_
SIDE SLOPES 1 IN 3 MAX			No. 14 No. 14 No				6	7 8	
D SPILLWAY DETAIL S S PLAN ARE INDICATIVE CARRY OUT ALL THE CONTRACTORS OL PLAN. ALL AND EROSION CONTROL TOR BY THE IERS UNTIL THE ON		31.5	98 00 10 10 10 10 10 10 10 10 10 10 10 10 10 1	150	ROAD 01 05'12 149 148 147	146 145	144 1	143	
M IS TO COMPLY WITH LING STORMWATER SITE" AND ALL ND CHECKLISTS. THEMSELVES OF AND ING POLICY FOR		29.50 29.50 50.00 19.50	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	/ ´	LOT 6 RP101021				
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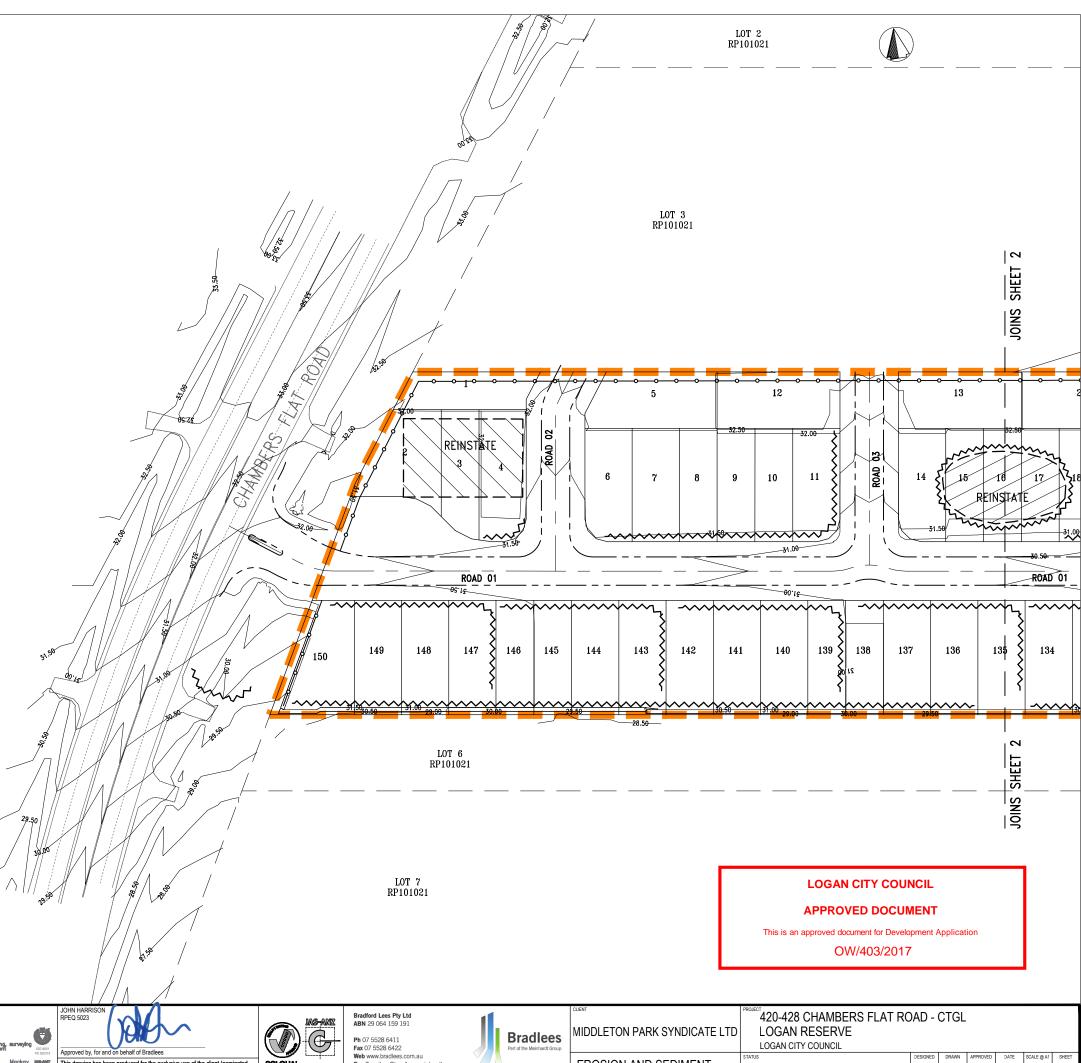
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420-428 CHAMBERS FLAT RC LOGAN RESERVE LOGAN CITY COUNCIL)AD -	CTGL				
ISSUE FOR APPROVAL		-			SCALE @ A1 1:500 REV	SHEET 3 OF 3
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- NOTE: 1. THE MEASURES SHOWN ON THIS PLAN ARE INDICATIVE ONLY. THE CONTRACTOR SHALL CARRY OUT ALL WORKS IN ACCORDANCE WITH THE CONTRACTORS SEDIMENT AND EROSION CONTROL PLAN. ALL RESPONSIBILITY FOR SEDIMENT AND EROSION CONTROL IS DELEGATED TO THE CONTRACTOR BY THE APPLICANT AND THE LAND OWNERS UNTIL THE ON MAINTENANCE INSPECTION.
- 2. THE CONTRACTOR AT A MINIMUM IS TO COMPLY WITH HEALTHY WATERWAYS "CONTROLLING STORMWATER POLLUTION ON YOUR BUILDING SITE" AND ALL ASSOCIATED DOCUMENTATION AND CHECKLISTS. SEDIMENT CONTROLS ARE NOT TO BE REMOVED PRIOR TO SATISFACTORY ESTABLISHMENT OF GROUND COVER/WRITTEN DIRECTION FROM THE SUPERINTENDENT.
- 3. ONCE HYDRO MULCH IS DEEMED TO BE SUFFICIENTLY ESTABLISHED, SILT FENCES CAN BE REMOVED IF INSTRUCTED BY THE PRINCIPLE.

<u>LEGEND</u>

12	FINISHED SURFACE CONTOURS
	NOMINAL KERB LINE
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	SEDIMENT FENCE
<b></b>	CHAINWIRE CONSTRUCTION FENCING
$\rightarrow \rightarrow \rightarrow -$	SWALE DRAIN
-SW————————————————————————————————————	EXISTING STORMWATER
	LIMIT OF WORKS
	STAGE BOUNDARY





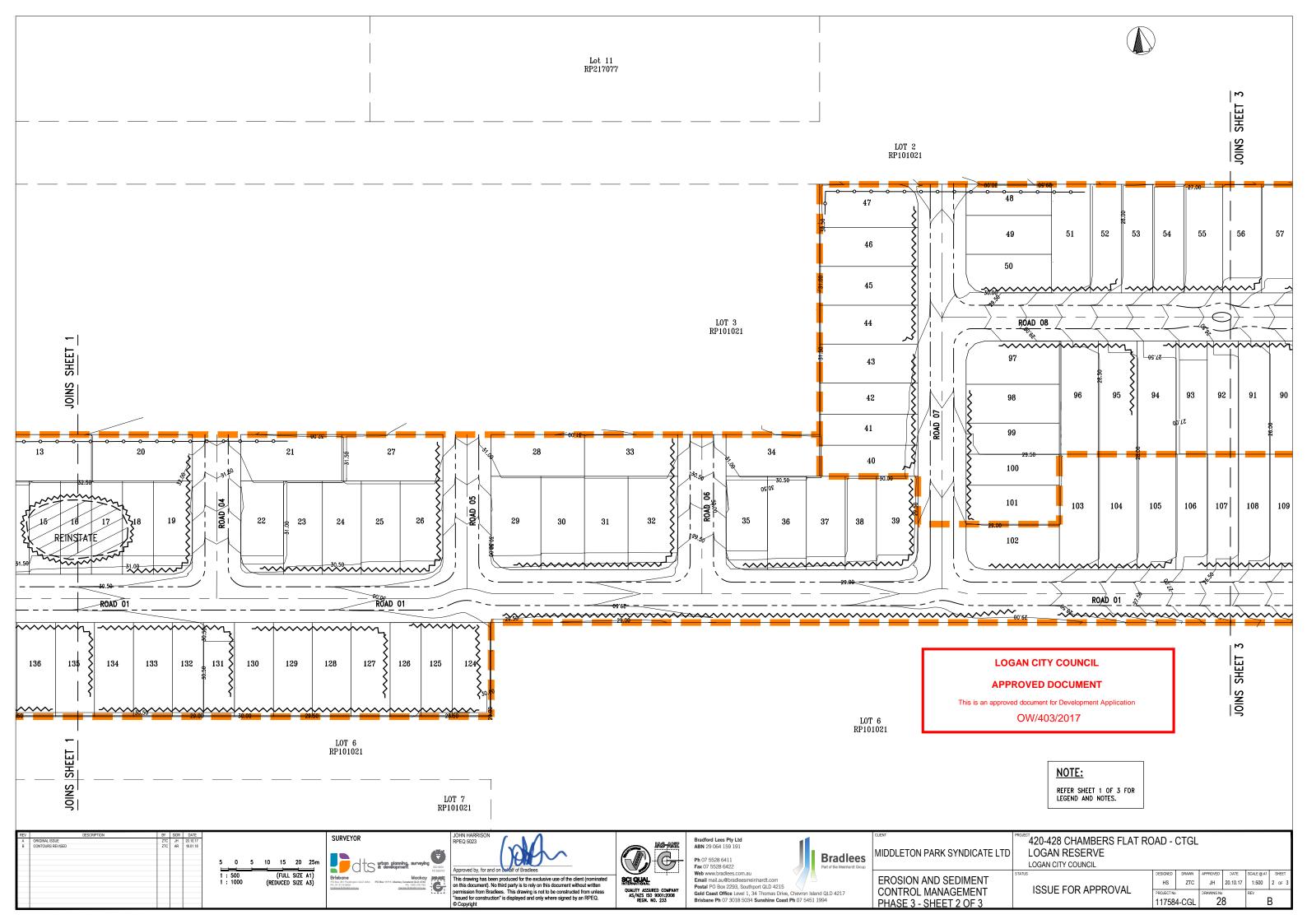


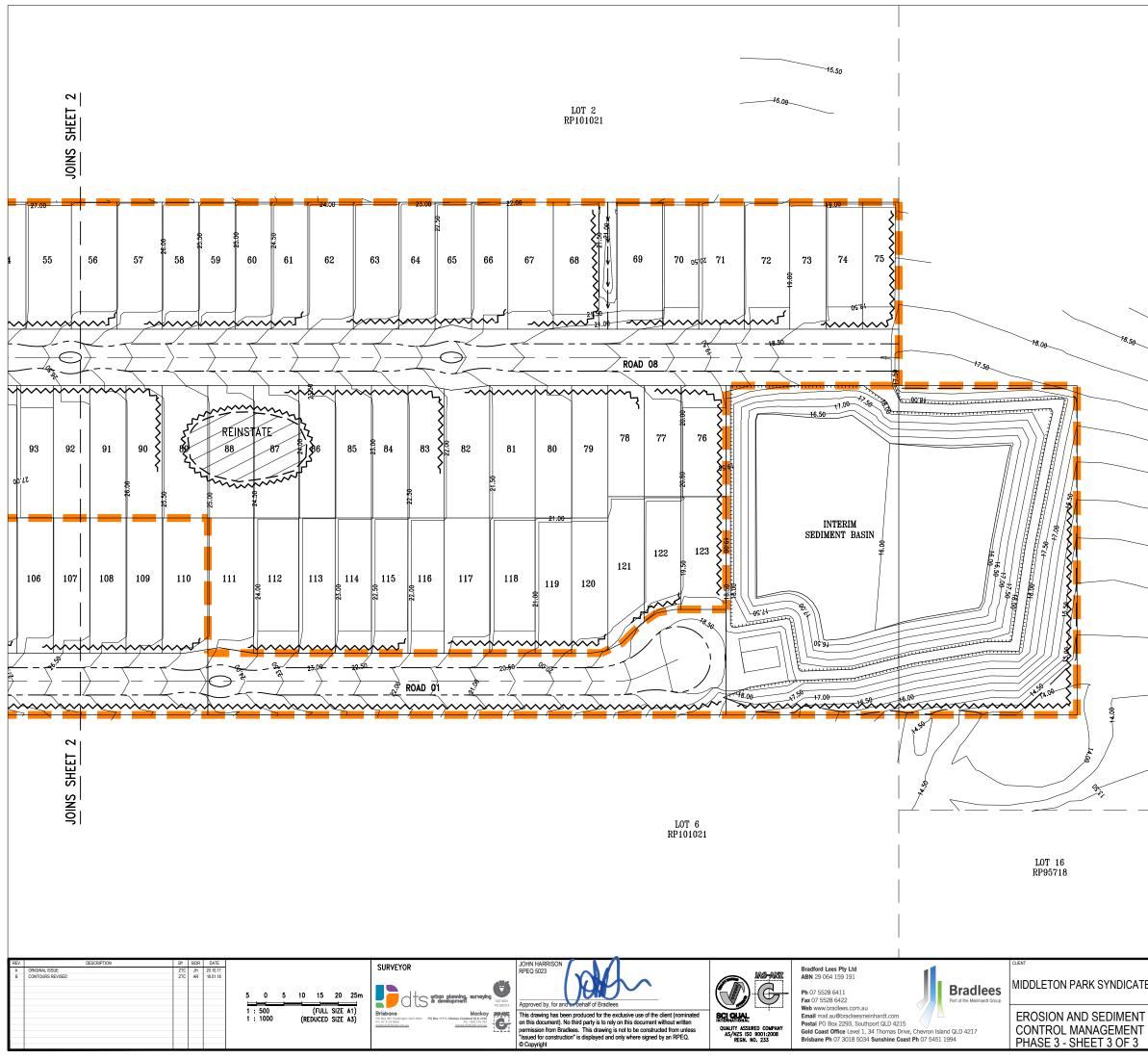
# FIRE ANT NOTE:

UNDER QUEENSLAND LEGISLATION, FIRE ANTS ARE A NOTIFIABLE PEST AND SUSPECTED SIGHTING MUST BE REPORTED TO BIOSECURITY QUEENSLAND. MOVEMENT OF FIRE ANTS IS PROHIBITED UNLESS APPROVED OTHERWISE BY THE DEPARTMENT OF PRIMARY INDUSTRIES. THE CONTRACTOR SHALL ACQUIRE THE NECESSARY PERMITS TO COMPLETE THE WORKS.

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- F	REV	DESCRIPTION	BY S	IDR DAT	E	SURVEYOR	JOHN HARRISON				CLIENT
		GINAL ISSUE TOURS REVISED	ZTC ZTC	JH 20.10 AR 18.01					Fax 07 5528 6422	Bradlees	MIDDLETON PARK SYNDICATE
					1 : 500 (FULL SIZE A1) 1 : 1000 (REDUCED SIZE A3)	PO Box 381 Pladsington QLD 4064 PO Box 11711, Mackay Canaland QLD 4740 Pb: 030 278 733 0000 Pb: 1000		QUALITY ASSURED COMPANY AS/NZS ISO 9001:2008 REGN. NO. 233	Web www.bradlees.com.au Email mail.au@bradleesmeinhardt.com Postal PO Box 2293, Southport QLD 4215 Gold Coast Office Level 1, 34 Thomas Drive, Chevron Island G Brisbane Ph 07 3018 5034 Sunshine Coast Ph 07 5451 1994	QLD 4217	EROSION AND SEDIMENT CONTROL MANAGEMENT PHASE 3 - SHEET 1 OF 3

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# LOGAN CITY COUNCIL

#### APPROVED DOCUMENT

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	LOT 17 RP95718		NOTE REFER S LEGEND	HEET 1	OR	
E LTD	420-428 CHAMBERS FLAT RC LOGAN RESERVE LOGAN CITY COUNCIL	)AD -	CTGL			
•	ISSUE FOR APPROVAL	DESIGNED HS PROJECT No 11758		APPROVED JH DRAWING No 2	SCALE @ A1 1:500 REV	SHEET 3 OF 3

#### **GENERAL NOTES:**

- 1. THE MEASURES SHOWN ON THE ESC PLANS ARE INDICATIVE ONLY. THE CONTRACTOR SHALL CARRY OUT ALL WORKS IN ACCORDANCE WITH THE CONTRACTORS SEDIMENT AND EROSION CONTROL PLAN. ALL RESPONSIBILITY FOR SEDIMENT AND EROSION CONTROL IS DELEGATED TO THE CONTRACTOR BY THE APPLICANT AND THE LAND OWNERS UNTIL THE ON MAINTENANCE INSPECTION.
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- 3. ALL FENCING AND SILT FENCING TO BE INSTALLED PRIOR TO PRE-START MEETING.
- 4. THE CONTRACTOR SHALL PROVIDE AN EROSION AND SEDIMENT CONTROL PLAN FOR APPROVAL BY SUPERINTENDENT PRIOR TO POSSESSION OF SITE BEING GRANTED.
- 5. ALL COARSE SEDIMENTS ARE TO BE TREATED AND SHALL NOT ENTER THE DOWNSTREAM INFRASTRUCTURE. THE TARGET FOR THIS IS 50mg/L OF SUSPENDED SOLIDS 90% OF THE TIME.
- 6. ALL FINE SEDIMENTS (DISPERSIVE SOILS) ARE TO BE TREATED IN TEMPORARY BASINS ON SITE. THE CONTRACTOR MUST TREAT AND RELEASE THE WATER AT COUNCIL STANDARDS, AS SOON AS POSSIBLE AFTER EACH EVENT.
- 7. ONCE HYDRO MULCH IS DEEMED TO BE SUFFICIENTLY ESTABLISHED, SILT FENCES CAN BE REMOVED IF INSTRUCTED BY THE PRINCIPLE.



#### **PHASING NOTES:**

PHASE 1 - PRIOR TO PRE-START THE CONTRACTOR WILL BE PAID FOR SCHEDULED QUANTITIES FOR THIS PHASE

PHASE 2 - DURING CONSTRUCTION

THIS PHASE IS TO BE IN ACCORDANCE WITH THE CONTRACTOR'S SEDIMENT AND EROSION CONTROL PLAN. THE CONTRACTOR IS TO ENGAGE A STORWWATER QUALITY CONSULTANT TO UNDERTAKE STORWWATER QUALITY AND EVENT MONITORING DURING THE "CONSTRUCTION" PHASE, INCLUDING BUT NOT LIMITED TO REMEDIAL ACTION FOLLOWING EVENT MONITORING RESULTS.

THE MONTHLY ALLOWANCE IN THE SCHEDULE WILL NOT BE CLAIMABLE IF TESTS SHOW A RELEASE OF GREATER THAN 50mg/L OF SUSPENDED SOLIDS AND THE RAIN EVENTS DO NOT EXCEED 75TH PERCENTILE OF A 5 DAY EVENT (ON THIS SITE 40mm OVER 5 DAYS). ALL OTHER COSTINGS NOT SCHEDULED ARE DEEMED INCLUDED.

PHASE 3 - PRACTICAL COMPLETION INSPECTION THE CONTRACTOR IS TO ENGAGE A STORMWATER QUALITY CONSULTANT TO UNDERTAKE STORMWATER QUALITY AND EVENT MONITORING DURING THE "MAINTENANCE" PHASE, INCLUDING BUT NOT LIMITED TO REMEDIAL ACTION FOLLOWING EVENT MONITORING RESULTS.

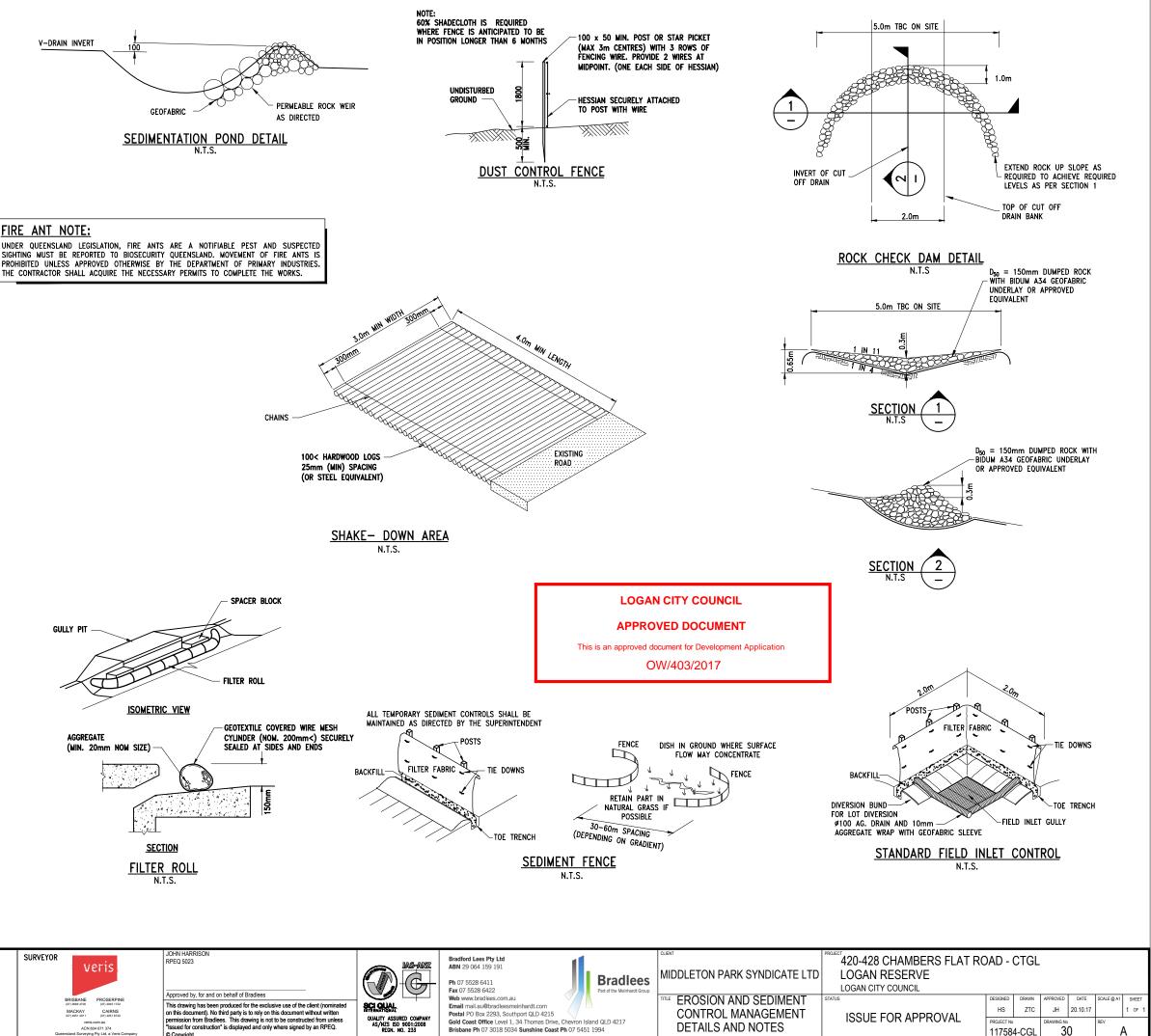
THE CONTRACTOR WILL BE PAID FOR SCHEDULED QUANTITIES FOR THIS

#### STOCKPILE NOTES:

ALL STOCKPILES MUST BE SURROUNDED BY A SILT FENCE. STOCKPILES MUST BE COVERED, IF NECESSARY, TO PREVENT DUST 2. OR CONTAMINATION OF WATERS.

#### **STABILISATION NOTES:**

- TOP SOIL AND SEED MUST BE PLACED ON COMPLETED AREAS WITHIN 7 DAYS OF THAT AREA BEING COMPLETED.
- HYDROMULCHING MAY BE ORDERED BY THE SUPERINTENDENT
- 3. ALL BATTERS GREATER THAN 1 IN 4 TO BE MULCHED WITH ONSITE MULCH.
- 4. 90% STRIKE MUST OCCUR WITHIN 4 WEEKS. AFTER THIS PERIOD RE-SEEDING MAY BE ORDERED AT THE CONTRACTOR'S COST.



DESCRIPTION RIGINAL ISSUE	BY SIDR DATE ZTC JH 20.10.17	SURVE	Veris	JOHN HARRISON RPEQ 5023 Approved by, for and on behalf of Bradlees		Bradford Lees Pty Ltd           ABN 29 064 159 191           Ph 07 5528 6411           Fax 07 5528 6422           When we are an and the second seco	irdt Group
			BRISBANE         PROSERPINE           (0) 366 4700         (0) 9495 1722           MACKAY         CAIRNS           (07) 461 2011         (07) 405 16722           veris.com au         veris.com au	This drawing has been produced for the exclusive use of the client (nominated on this document). No third party is to rely on this document without written permission from Bradlees. This drawing is not to be constructed from unless "Issued for construction" is displayed and only where signed by an RPEQ. © Copyright	QUALITY ASSURED COMPANY AS/NZS ISO 9001:2008 REGN. NO. 233	Web www.bradlees.com.au Email mail.au@bradleesmeinhardt.com Postal P0 80x 2293, Southport QLD 4215 Gold Coast Office Level 1, 34 Thomas Drive, Chevron Island QLD 4217 Brisbane Ph 07 3018 5034 Sunshine Coast Ph 07 5451 1994	TILE EROSION AND SEDIMENT CONTROL MANAGEMENT DETAILS AND NOTES

#### EARTHWORKS NOTES

- REFER DRAWING 01 FOR GENERAL NOTES.
- ALL DESIGN LEVELS AND CONTOURS SHOWN ARE FINISHED SURFACE 2. LEVELS AND INCLUDE A 150mm ALLOWANCE FOR TOPSOIL.
- ALL DIMENSIONS ON THE JOB ARE IN METRES UNLESS SHOWN 3. OTHERWISE.
- 4. NOTWITHSTANDING THE LIMITS OF CUTTING AND FILLING SHOWN ON THE DRAWINGS, THE ACTUAL LIMITS SHALL BE DETERMINED ON SITE BY THE SUPERINTENDENT DURING CONSTRUCTION. SIMILARLY, FINISHED SURFACE CONTOURS FOR ALLOTMENTS MAY BE ADJUSTED BY A WRITTEN DIRECTION OF THE SUPERINTENDENT DURING CONSTRUCTION (REFER JOB SPECIFICATION).
- ALL STRUCTURAL FILL MATERIAL PLACED SHALL BE COMPACTED TO THE 5. FOLLOWING MINIMUM DENSITY IN ACCORDANCE WITH THE PROJECT SPECIFICATION : 65% DENSITY INDEX FOR NON-COHESIVE MATERIAL

: 95% FOR COHESIVE MATERIALS

- THE CONTRACTOR IS TO ENSURE THAT NO PONDING OCCURS DURING CONSTRUCTION AND IN THE FINAL PROFILE. 6. SITE EARTHWORKS SHALL GENERALLY BE CARRIED OUT IN ACCORDANCE
- 7. WITH AS 3798-2007.
- 8. ANY UNSUITABLE MATERIAL ENCOUNTERED DURING EARTHWORKS AS DEFINED IN AS 3798-2007 SHALL BE REMOVED & REPLACED. THE SUPERINTENDENT SHALL BE NOTIFIED PRIOR TO EXCAVATING ANY UNSUITABLE MATERIAL.
- SWALE INVERTS SHALL BE GRADED TO DRAIN FREELY TO ASSOCIATED FIELD INLETS, ALL SWALES ARE TO BE TOPSOILED AND TURFED. 9.
- 10. ALL BATTERS BETWEEN 1:4 AND 1:6 ARE TO BE FULLY TURFED TO PREVENT SCOUR AND EROSION. ANY BATTERS BETWEEN 1:4 AND 1:3 TO BE HEAVILY LANDSCAPED. BATTERS STEEPER THAN 1:3 ARE UNDESIRABLE.

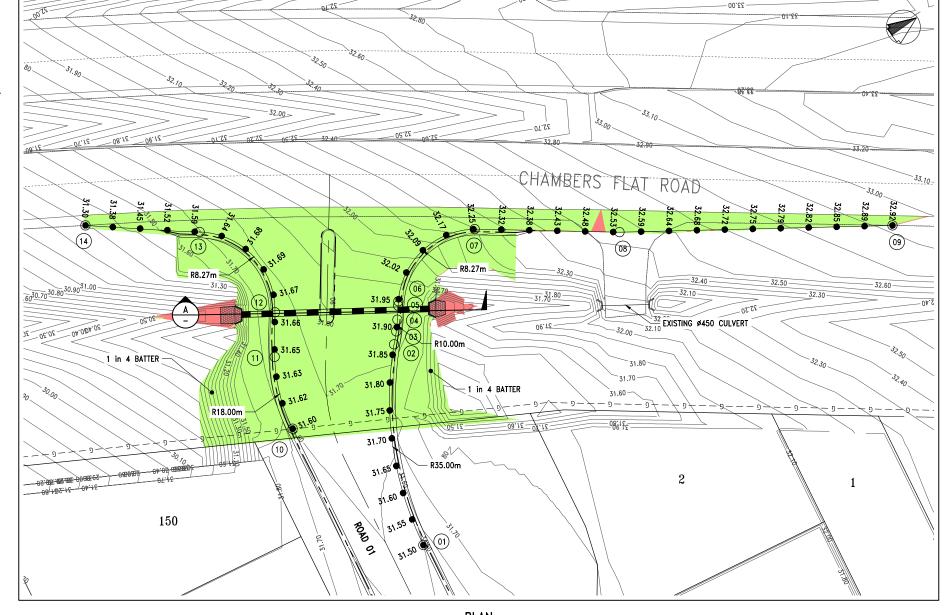
# EARTHWORKS VOLUMES (UN-FACTORED):

CUT Vol. 236m³ 6,490m³

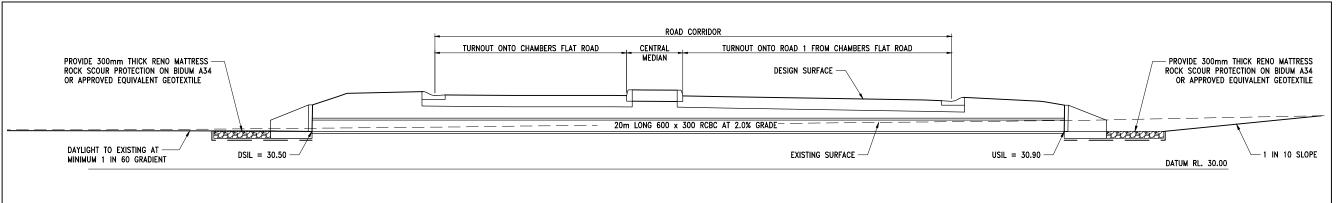
FILL Vol.

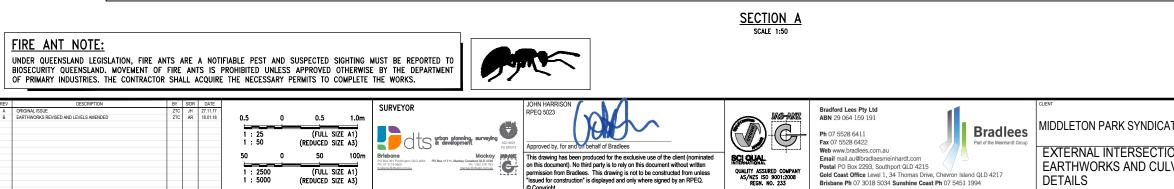
#### NOTE:

EARTHWORKS VOLUMES ARE SOLID MEASURES AND SUBJECT TO VERIFICATION OF EXISTING SURFACE SURVEY PRIOR TO START OF CONSTRUCTION.



<u>PLAN</u> SCALE 1:200





# SETOUT POINTS

POINT	EASTING	NORTHING
01	509376.937	6935350.308
02	509357.889	6935360.177
03	509356.911	6935361.163
04	509355.983	6935361.990
05	509354.806	6935362.913
06	509354.458	6935363.206
07	509352.972	6935374.212
08	509362.171	6935386.471
09	509378.455	6935410.338
10	509358.866	6935346.253
11	509351.594	6935349.145
12	509347.786	6935351.924
13	509336.239	6935350.414
14	509328.613	6935341.007

NOTES

- 1. NOMINATED LEVELS ARE LIP LEVELS AND ARE EQUAL DISTANT.
- 2. ALL KERB RADII AND SETOUT ARE TO LIP OF KERB.
- 3. TRANSITIONS IN CHANNEL PROFILES SHALL OCCUR OVER 2.0m UNLESS NOTED OTHERWISE.
- 4. CONSTRUCT PRAM RAMPS AT INTERSECTIONS WHERE REQUIRED IN ACCORDANCE WITH L.C.C. STD DWG 8-00412.
- 5. ALL SIGNS, LINEMARKING & PAVEMENT MARKERS TO BE IN ACCORDANCE WITH MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

## LEGEND

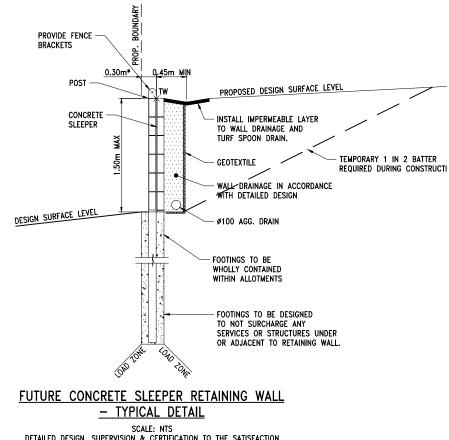
29	FINISHED CONTOURS
	NOMINAL KERB LINE
45.588	LIP LEVEL
$\bigcirc$ (08)	CURVE SETOUT POINT
R10.25	CURVE RADIUS TO LIP
*	KERB TRANSITION OVER 2.0m
M3	TYPE M3 KERB & CHANNEL
B2	TYPE B2 BARRIER KERB
B1	TYPE B1 BARRIER KERB & CHANNEL

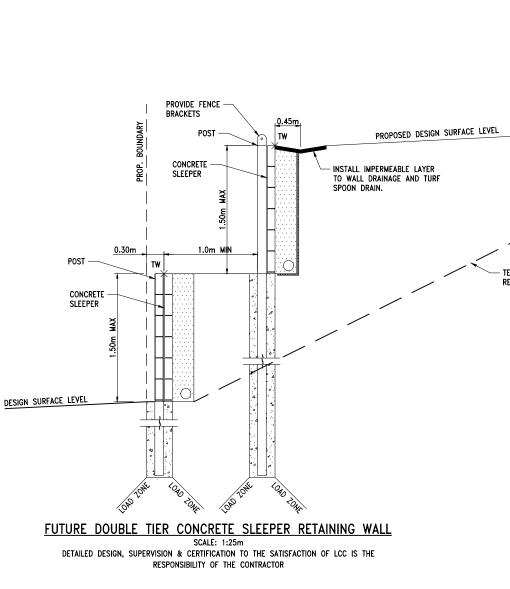
#### LOGAN CITY COUNCIL

#### **APPROVED DOCUMENT**

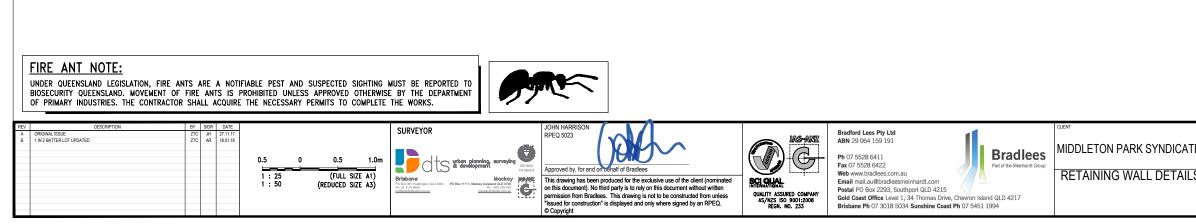
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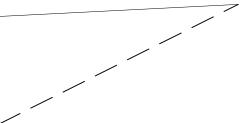
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TE LTD	LOGAN RESERVE							
	LOGAN CITY COUNCIL							
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		11758	4-CGL	3	1	В		





SCALE: NTS DETAILED DESIGN, SUPERVISION & CERTIFICATION TO THE SATISFACTION OF LCC IS THE RESPONSIBILITY OF THE CONTRACTOR





- TEMPORARY 1 IN 2 BATTER REQUIRED DURING CONSTRUCTION

# LOGAN CITY COUNCIL

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TE LTD	420-428 CHAMBERS FLAT ROAD - CTGL LOGAN RESERVE LOGAN CITY COUNCIL						
LS		DESIGNED HS	DRAWN ZTC	APPROVED JH	DATE 27.11.17	SCALE @ A1	SHEET 1 OF 1
	ISSUE FOR APPROVAL	PROJECT № 117584-CGL		DRAWING № 32		B	