

24 January 2024

Todd Wood McDonald's Australia Limited 18 Lyall Street ASCOT WA 6104

Dear Todd

# McDonald's Two Rocks - Civil DA Design Certification

We confirm that we have carried out the Civil Development Application design for the above project.

The stormwater drainage design for the civil development has been undertaken in accordance with the City of Wanneroo and UWMP requirements to store a 1:1 ARI of 1 hour duration storm event (15mm) and the relevant Australian Standards. With a development area of 2,311m<sup>2</sup>, the City of Wanneroo and UWMP will require that the development contain a minimum of 32.93m<sup>3</sup>.

It is proposed that all stormwater be contained on site via 15 soakwells of dia 1800mm by 900mm depth, which will provide an on-site detention of 34.35m<sup>3</sup>.

The civil drawings adequately convey the intent of the civil design and are numbered as follows:

Drawing No.	Drawing Title	Rev
24012-C8-DG-01	Civil Development Application Drawings	А

Please contact our office should you require further information.

Yours sincerely

JAMIE DE PALMA Principal – Property Perth



	TWO ROCKS W.A.								
PMENT GROUP	TITLE : PRO	TITLE: PROPOSED SITE PLAN							
	SCALE	DRAWN	CHECKED	DWG. NO.					
	1:400	NR	AJJ						





TABLE A						
DF	AINAGE PIT LINER SI	ZE				
NOM. LINER SIZE	PIPE SIZE MAX.	LINER TYPE				
Ø1050	Ø450	CONCRETE				
Ø1200	Ø600	CONCRETE				
Ø1500	Ø750	CONCRETE				
Ø1800	Ø900	CONCRETE				
Ø2250	Ø1050	CONCRETE				
N/A	N/A	CUSTOM				
FOR PIPES Ø1200 AND LARGER INSTALL A CUSTOM CHAMBER TO SUIT.						

TABLE B					
DRAINAGE PIT BASE SOAKAGE HOLE SIZE					
LINER SIZE MIN.	SOAKHOLE DIAMETER				
(mm)	(mm)				
1050	600				
1200	600				
1500	900				
1800	1200				

	"H" AND "HS" PIPE TRENCH DETAILS										
MINIMUM BED ZONE DEPTHS "x"		ONE DEPTHS "x"		mm		MINIMUM SIDE CLEARANCE "Ic"					
	SUPPORT TYPE	DEPTH (mm)	HAUNCH ZONE " y" = 0.1D	HAUNCH ZONE "y" = 0.3D	BEDDING "z" ≥ 0.5D	PIPE DIAMETER	lc				
			37	109	185						
	H / HS < (1500	≤Ø1500 100	45	134	225	≤600	150				
	H / HS \$ 01500		54	161	270						
			62	185	310						
			70	210	350	>600 - ≤1200	200				
			87	260	435						
	H/HS> (1500	150	105	313	525						
H / HS > Ø1500	150	122	366	610	>1200	D/6					
			138	412	690						
L	ONLY BE US	ED WHERE N	ECESSARY (	COMPACTION	VALUES CA	N BE ASSUR	ED.				





# PERPENDICULAR ACCESSIBLE CAR PARKING SPACES



## LIMESTONE RETAINING WALL AND FENCE NOTES

- 1. COMPACT GROUND UNDER FOOTING TO RESIST 8 BLOWS PER 300mm OF A STANDARD 16mm DIA PENETROMETER OVER A DEPTH OF 600mm
- LIMESTONE BLOCKS TO BE A MINIMUM DENSITY OF 1500kg/m² (DRY). RECONSTITUTED LIMESTONE BLOCKS TO BE A MINIMUM DENSITY OF 1500kg/m² (DRY).
   MORTAR MIX SHALL COMPRISE 1 PART WHITE CEMENT, 1 PART LIME PUTTY, AND 6 PARTS CLEAN YELLOW SAND OR 1 PART WHITE CEMENT, 0.5 PART LIME PUTTY AND 4.5 PARTS YELLOW SAND IF LESS THAN 1km FROM THE COAST. ALL BLOCK WORK SHALL BE FULLY
- 4. THESE WALLS ARE APPLICABLE FOR CLASS 'A' CONDITIONS ONLY TO AS 2870. ALL OTHER CONDITIONS TO BE REFERRED TO ENGINEER.
- 5. ALL RETAINING WALLS HAVE BEEN CALCULATED WITH A HORIZONTAL BACKFILL. ANY OTHER CIRCUMSTANCES TO BE ASSESSED INDIVIDUALLY. 6. THE RETAINING WALL HAS BEEN DESIGNED TO SUPPORT A 5kPa SURCHARGE.

- STRUCTURE: 9. WALLS SHALL HAVE VERTICAL CONTROL JOINTS AT INTERVALS OF NO MORE THAN 10 METRES FOR TYPE 1 WALLS, 15 METRES FOR TYPE 2 AND 3 WALLS, PREFERABLY LOCATED AT PROPERTY BOUNDARIES. JOINTS REQUIRED ALSO ON CORNERS AS PER ATTACHED DETAIL. JOINTS SHALL BE 20mm NUES, BE FILLED WITH A 25mm CLOSED CELL FOAM AND SEALED WITH AN APPROVED POLYURETHANE JOINT FILLER.
- 10. NO BACKFILLING UNTIL 7 DAYS AFTER WALLS HAVE BEEN BUILT. COMPACT USING LIGHT EQUIPMENT TO DISTANCE BACK FROM THE FACE OF WALL EQUAL TO THE EFFECTIVE HEIGHT. 11. FENCE TO BE PROPRIETARY SYSTEM BY OTHERS - WALL DESIGNED FOR WIND REGION A
- 12. FENCE POSTS SHALL BE AT 2400mm MAXIMUM CENTRES. 13. A NON SACRIFICIAL ANTI GRAFFITI COATING IS TO BE APPLIED TO WALLS FACING A ROAD,
- 14. WEEPHOLES TO BE CONSTRUCTED IN WALLS WHERE FOOTINGS ARE IN CLAY, ROCK, CAPSTONE OR LESS THAN 600mm OF SAND AND/OR IN AREAS OF HIGH GROUND WATER (TYP.).

	TOTAL	EFFECTIVE	BASE	MIN. TOE				
COUNSES	HEIGHT	HEIGHT RANGE	WIDTH	DEPTH				
4	1460	790 - 1110	1090	350				
5	1830	1111 - 1480	1460	350				
6	2200	1481 - 1850	1460	350				
7	2570	1851 - 2170	1830	400				
8	2940	2171 - 2540	2200	400				
9	3310	2541 - 2810	2200	500				
10	3680	2811 - 3180	2570	500				
11	4050	3181 - 3550	2940	500				



THE CONTRACTOR SHALL INSTALL ADDITIONAL FOOTING BLOCKS AS NECESSARY AT THE END OF EACH TAPERED WALL TO ALLOW FOR INSTALLATION OF CORED FENCING AND/OR TO ACHIEVE REQUIRED TOE DEPTH (TYP.).

# TYPICAL LIMESTONE RETAINING WALL FRONT TAPER TO SIDE BOUNDARY DETAIL

Date:

Lot 703, Lisford Avenue, Two Rocks



### NOTES

- 1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE CONTRACT DRAWINGS AND SPECIFICATION.
- SETOUT OF ROAD CENTERLINE, FACE OF KERB AND EDGE OF SEAL FOR UN-KERBED ROADS SHALL BE BASED ON SUPPLIED AUTOCAD DATA. ALL OTHER WORKS SHALL BE SETOUT BASED ON INFORMATION CONTAINED ON THE CONTRACT DRAWINGS.
- 3. THE CONTRACTOR SHALL ENSURE THAT ALL INTERCONNECTING WALL COURSES MATCH.
- 4. FOR DETAILS REFER DRAWING C950-C951 OF THIS SET.
- BOUNDING WALLS BETWEEN LOTS TO BE TAPERED TO SUIT PAD LEVEL AND VERGE LEVEL OVER 2.5m TO 1 COURSE HEIGHT AT 1500 SETBACK, UNLESS NOTED OTHERWISE.
- 6. ALL LEVELS AND SETOUT BENCHMARKS TO BE BY LICENSED SURVEYOR.
- CONTROL JOINT LOCATIONS ARE DEPENDENT ON CONSTRUCTION METHODOLOGY. THE CONTRACTOR SHALL REFER TO STANDARD RETAINING WALL DRAWINGS FOR JOINT LOCATIONS.
- 8. CONTRACTOR TO INSTALL ALL CONDUITS REQUIRED UNDER WALLS AS PER THE RELEVANT AUTHORITY STANDARDS PRIOR TO CONSTRUCTION OF WALLS.
- SHADING FOR RETAINED FILL AND FOOTING DEPTH IS FOR INFORMATION ONLY. ALL WALLS SHALL BE BUILT IN ACCORDANCE WITH THE STANDARD DETAILS AND APPROVED BUILDING LICENCE.
- 10. BASE OF WALL SHOWN INDICATIVELY ONLY.
- 11. CONTRACTOR TO NOTIFY SUPERINTENDENT OF ANY LEVEL DISCREPANCY.
- 12. DEEPENED WALL FOOTINGS NOT SHOWN.

### LEGEND

	LIMIT OF WORKS
2	LOT NUMBER
	PROPOSED LIMESTONE RETAINING WALL CREAM COLOUR FACING BLOCK
	EXISTING RETAINING WALL
	FUTURE RETAINING WALL
43.15	PROPOSED LOT LEVEL
43.15	FUTURE LOT LEVEL
43.15	EXISTING LOT LEVEL
WALL B	WALL ELEVATION REFERENCE
TOW 24.00	TOP OF WALL LEVEL
	STAIRWELL LOCATION
$\bowtie$	GARAGE LOCATION
	DEEPENED EDUTING LOCATION REFER C952



N CENTRE		DRAWN J.JONES	wapc №. 155078 & 158390				
		DESIGNED J.JONES		SCALE @ A1 1:500			Н
PLAN		PROJECT MANAGER D.HELLMUTH		DATUM AHD	CO-ORE PCG94	S	
IS		JDSI PROJECT No. JDS171365.02	DRAWING No. 2 C110				
10	11			12			$\langle$



10				11		12		
		NOTES						
		1. ALL S WITH	EWERAGE I	RETICULATION WO	RKS SHALL BE CO DESIGN STANDAR	NSTRUCTED IN ACCORDANCE D DS 50, THE CONTRACT,		
		2. CONS	INGS.	OF SEWERS IN LOT	'S WITH FILL SHAL	LL NOT PROCEED UNTIL FILL	А	
		3. THE C	ONTRACTO	R SHALL DETERMI	NE AND BE RESPO REQUIREMENTS O	INSIBLE FOR THE BEDDING F THE WATER		
		4. DX =	DUPLEX (R	(ATION'S DESIGN STANDARD SU. UPLEX (REQUIRES TWO BOUNDARY CONNECTIONS) GH = GROUP HOUSING				
5. CENTR 1.0m Fi DIMENS			JIRES Ø150 LUNNELTIUN). RES OF ALL ACCESS CHAMBERS TO BE 3.1m FROM FRONT BOUNDARIES AND FROM SIDE AND REAR BOUNDARIES OF LOT UNLESS OTHERWISE					
		6. CONTI PRIOR NOTIF	SIUNED. RACTOR TO TO COMME Y SUPERINT	CONFIRM EXISTIN NCEMENT. LEVELS	IG SEWER INVERTS S SHOWN MAY NOT DISCREPANCIES EXI	AT CONNECTION POINTS T BE ASCONSTRUCTED. ST.	В	
		7. EXIST RELA	ING SERVIC FE TO EXIS	ES – INFORMATIO TING SERVICES IS	N ON THESE DRAW INDICATIVE ONLY	VINGS PURPORTING TO AND MAY NOT BE		
		8. THE C STRU SHAL WORK THAT	CONTRACTO CTURES AN L TAKE AD S AND SHA SUCH STR	R SHALL NOTE TH D/OR VOIDS (SOA EQUATE MEASURE ALL ADOPT SAFE UCTURES MAY PR	IAT NON-TRAFFIC/ KWELLS, ETC.) MA S TO LOCATE THE WORK PRACTICES ESENT.	ABLE SUBTERANEAN Y EXIST ON THE SITE AND ISE PRIOR TO COMMENCING THAT OBVIATE ANY RISK	_	
		9. THE S REPRI CONTI THE S	UPERINTEN ESENTATION RACTOR SH SUBSURFACI	IDENT HAS NOT IN N AS TO WHAT M IALL MAKE THEIR E CONDITIONS OF	IVESTIGATED THE AY EXIST ON OR E OWN INVESTIGATIO THE SITE.	SITE & MAKES NO BELOW THE SITE. THE DNS AS TO THE NATURE OF	С	
		10. ACCES ONLY	S CHAMBE	R DEPTHS ARE SI TO BE USED FOR	HOWN FOR WATER CONSTRUCTION.	CORPORATION INFORMATION		
		11. ALL L BY TI	EVELS SHA HE SURVEY	ALL BE LOCATED I OR.	FROM ESTABLISHEI	D BENCHMARKS AS SUPPLIED		
CONFIRM INVERT CONSTRUCTION AND ATION OF 225 SPI	) GOT.	12. CONTI CORPI	RACTOR SH DRATION.	ALL PROVIDE SAF	E AND DRY ACCES	SS FOR WATER	Η	
PIGOT BY WATER CONTRACTORS EXI	PENSE	LEGEN	D					
		PIP <u>E DIA-I</u> GRAD I.L. LENGTH	E I.L. (m)	PROPOSED SEWE	RS WITH NOTATIO	N	D	
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		x000 0 0.0		EXISTING ACCESS ACCESS CHAMBE	S CHAMBER R NUMBER			
				PROPOSED GRAV	ITY SEWERS WITH	ACCESS CHAMBERS	E	
		O·		EXISTING GRAVIT	TY SEWERS TY SEWER TO BE I	REMOVED		
			··	FUTURE GRAVITY	Y SEWERS			
		-		PROPOSED PARA	LLEL SEWER WITH	ACCESS CHAMBERS		
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	NOTES	5				
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	5. ALL PROJ	EEVELS SHALL BE	E DETERMINED FROM BENLF	IMARKS ESTABLISH	IED BY THE	
	6. ALL AS37	TRENCHING, PIPE   25	BEDDING AND BACKFILLING	SHALL BE IN ACC	ORDANCE WITH	
	7. ALL LENG	DRAINAGE PITS S THS SHOWN ON T	HALL BE LOCATED AS SHO THE DRAWINGS	OWN IRRESPECTIVE	OF PIPE	В
	8. AT L THE	OW POINTS THE E ROAD PAVEMENT	ENTRY PITS SHALL BE LOO	ATED AT THE LOV	V POINT OF	
	9. THE 2% U	DRAINAGE PIT LID PWARDS FROM T	IS SHALL BE SET TO SUIT HE TOP OF BACK OF KERB	THE VERGE SLOPE	, NOMINALLY	
	10. WHEF SEWE AND SEWE	RE A SEWER LINE R PASSES OVER KEEL PROVIDED F R DURING EXCAV	INTERSECTS WITH STORM THE DRAIN THEN THE SEV OR THE FULL EXTENT NEC ATION FOR THE DRAIN	WATER DRAINAGE VER SHALL HAVE A ESSARY TO SUPPO	LINE AND THE A TIMBER PILE DRT THE	
BASE	11. THE WITH	CONTRACTOR SHA OTHER SERVICES	ALL IMMEDIATELY REPORT	ANY DISCREPANCY	OR CLASH	
-CHASED	12. ALL TRAF	JUNCTION PITS LO FICABLE LIDS	CATED IN THE ROAD PAVI	EMENT SHALL HAV	E	C
TOR TO	13. IRRIG	ATION DUCTS TO	BE DETERMINED ON SITE V	WITH SUPERINTEND	ENT	
TREE	14. FOR	PAVEMENT TYP	LEVELS REFER TO DRAIN	NAGE LONGITUDINAL	L SECTIONS Y - REFER TO	
	PAVE 16. IN CIE OF T	MENT DRAWING F RCUMSTANCES WH HE LINER SHALL F	OR DETAILS IERE MULTIPLE PIPES ENTE REMAIN IN ANY HORIZONTA	er a liner a minim Al plane	1UM OF 40%	
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