AMENDMENT

GRANTED 29/01/2019

HUTT CITY COUNCIL

2. DRAWINGS

HUTT CITY

These documents must be retained on site. Inspections may not be carried out if they are not.



Email: trishn@macroventures.co.nz Phone: +64224875171 Page 4



SCHEDULE OF DRAWINGS SHEET # TITLE REV COVER COVER SHEET A NOTES GENERAL NOTES A 1 SITE PLAN A

STAGE 1 RETAINING WALL DESIGN

GENESIS RESIDENTIAL LIMITED
64 WAIPOUNAMU DRIVE

PROJECT REF:18-016

AMENDMENT

GRANTED 29/01/2019

HUTT CITY COUNCIL

HUTT CITY

FOR BUILDING CONSENT



GENESIS RESIDENTIAL LIMITED
64 WAIPOUNAMU DRIVE
COVER PAGE

SURVEYE	ED	REVISION DATE		SHEET		
		B-FFL ADDED		07/06/18	COVER	
DESIGNE	D TSN	311270323		01700710		
	1011	C-WATER MAIN		26/07/18		
DRAWN	TSN					
		D-ROAD SECTION		06/11/18	SERIES 100	
CHECKE	J	DATE SCALE AS SHOWN				
APPROVE	-D			NWOH	REF 18-016	
AFFROVE		9/12/18	AS SHOWN		10 0 10	
CAD FILE	17-016-BC STG	1 RTW	PLOT D	ATE 12/9	18 ORIG. SIZE A3	

THIS DESIGN AND DRAWING SHALL NOT BE USED OR REPRODUCED WITHOUT WRITTEN AUTHORITY

GENERAL NOTES:

- ALL WORKS SHALL COMPLY WITH ALL RELEVANT NZ STANDARDS, THE NZ BUILDING CODE & TERRITORIAL AUTHORITY REGULATION INCLUDING THE CURRENT VERSIONS OF NZS 3604 AND NZS 4404, ANY CONFLICTS TO BE DISCUSSED WITH THE ENGINEER PRIOR TO
- IF MAXIMUM HEIGHT DIMENSIONS VARY FROM THAT SHOWN CONTACT ENGINEER IMMEDIATELY. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR THE SET OUT SITE AND DETERMINING ACTUAL WALL HEIGHTS AS THESE MAY VARY FROM THAT SHOWN.
- ENGINEERING DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATIONS, WITH ARCHITECTURAL, CIVIL AND ENGINEERING SERVICES
- UNLESS OTHERWISE NOTED ALL LEVELS ARE IN METERS. AND ALL DIMENSIONS ARE METRIC, AND SHALL BE CHECKED BY CONTRACTOR PRIOR TO CONSTRUCTION.
- DIMENSIONS SHALL NOT BE OBTAINED BY SCALING FROM DRAWINGS
- ALL DISCREPANCIES SHALL BE REFERRED TO THE ARCHITECT OR ENGINEER FOR RESOLUTION BEFORE PROCEEDING
- ALL MATERIAL AND WORKMANSHIP SHALL BE ON ACCORDANCE WITH THE CURRENT CODES OF PRACTICE EXCEPT WHERE VARIED BY THE SPECIFICATION AND/OR
- WHERE PROPRIETY PRODUCTS ARE SPECIFIED IN THE DOCUMENTS THE CONTRACTOR MAY SUBMIT AN ALTERNATIVE PRODUCT OF APPROVAL.
- THE CONTRACTOR IS TO DISCUSS THE REQUIREMENTS OF ALL THE SITE INSPECTION FOR THE ISSUE OF THE PS4 PRIOR TO CONSTRUCTION.
- 10.ENGINEER REQUIRES 24 HOURS NOTICE BEFORE ANY INSPECTION (REFER TO CALCULATIONS FOR SCHEDULE OF NSPECTIONS)
- 11. ALL DIMENSIONS AND LEVELS ARE SUBJECT TO FINAL
- 12.ALL WORKS SHALL COMPLY UNDER THE CURRENT HEALTH AND SAFETY WORK ACT.
- 13. THESE NOTES APPLY TO THE ENTIRETY OF THE DRAWING SET

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- 1. SITE TO BE CLEARED OF ALL TOPSOIL AND ANY ORGANIC MATERIAL THEN CUT TO A SERIES OF LEVEL BENCHES.
- 2. ENGINEER TO INSPECT PRIOR TO ANY FILL PLACEMENT.
- 3. FILL MATERIAL TO BE CRUSHED ROCK TOPCOURSE MATERIAL FREE OF ORGANIC MATERIAL FULLY COMPACTED TO 90% OF MAXIMUM DENSITY TO BS1377 TEST 9
- 4. COMPACT IN MAXIMUM LAYERS OF 150mm THICK WITH A 2 TONNE ROLLER - TRACK ROLLING WITH A DIGGER IS NOT ACCEPTABLE.
- 5. ENGINEER TO INSPECT AND TEST EVERY 2ND LAYER PLACED

EXISTING SERVICES:

- 1. THE LOCATIONS OF UNDERGROUND SERVICES SHOWN ON THESE DRAWINGS ARE APPROXIMATE ONLY AND BASED ON INFORMATION PROVIDED BY TERRITORIAL AUTHORITIES AND NETWORK UTILITY OPERATORS. WE ACCEPT NO LIABILITY FOR THE INACCURACIES.
- 2. CONTRACTOR SHALL LOCATE AND PROTECT EXISTING SERVICES PRIOR TO CONSTRUCTION.

ROADING:

- 1. ALL PAVEMENT MATERIALS AND WORK STANDARDS TO BE IN ACCORDANCE WITH ALL RELEVANT NZ STANDARDS, TERRITORIAL AUTHORITY REGULATION INCLUDING THE CURRENT VERSION OF 3. CONCRETE SHALL HAVE A 28 DAY STRENGTH OF:
- 2. THE CONTRACTOR SHALL UNDERTAKE BENKELMAN BEAM TESTS ON THE FINISHED BASECOURSE ON ALL PAVEMENT AREAS AND 4. MAXIMUM SLUMP TO BE 100mm UNLESS NOTED OTHERWISE
- 3. REINSTATE ALL DAMAGE TO ADJACENT FEATURES CAUSED BY THE 5. CONCRETE FINISHES SHALL BE:
- 4. ROAD MARKINGS AND SIGNAGES SHALL BE IN ACCORDANCE WITH 6. ALL REINFORCEMENT SHALL COMPLY WITH AS/NZS4671:2001 (HD BARS SHALL NOT BE REBENT) CURRENT NZTA MANUAL OF TRAFFIC SIGNS AND MARKINGS (MOTSAM). ALL SIGNS TO BE VIP GRADE REFLECTIVITY.

TIMBER:

- 1. ALL BOLTED TIMBER CONNECTIONS TO HAVE 50x50x3 WASHERS.
- 2. ALL TIMBER TO BE MSG8 UNLESS SPECIFIED OTHERWISE
- 3. TIMBER CONNECTIONS NOT SHOWN TO BE IN ACCORDANCE WITH NZS3604. TIMBER SIZES NOT SHOWN REFER ARCHITECT.
- 4. ALL FIXINGS ARE TO BE 304 STAINLESS STEEL

	TIMBER HAZARD CLASSIFICATIONS					
	HAZARD CLASS	SERVICE CONDITIONS	TYPICAL USERS			
	H1.2	PROTECTED FROM WEATHER, BUT WITH A RISK OF MOISTURE CONTENT CONDUCTIVE TO DECAY	WALL FRAMING - SEE NZS3604			
	H3.2 CONTACT WITH THE GROUND, MORE		DECKS, PERGOLAS, EXTERNAL BEAMS, POST NOT IN GROUND			
	H4	GROUND CONTACT, OR CONDITIONS OF SEVERE OR CONTINUOUS WETTING	FENCE POSTS, LANDSCAPING TIMBER NOT REQUIRING A BUILDING CONSENT			
ı	H5	GROUND CONTACT, OR CONDITIONS OF SEVERE OR CONTINUOUS WETTING, WHERE USES ARE CRITICAL AND WHERE A HIGHER LEVEL OF PROTECTION THAN H4 IS REQUIRED	HOUSE PILES AND POLES, CRIB WALLING, POSTS IN GROUND FOR DECKS VERANDAS, PERGOLAS			

CONCRETE:

- 1. ALL CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF NZS3109:1997
- 2. IF MAXIMUM HEIGHT DIMENSIONS VARY FROM THAT SHOWN CONTACT ENGINEER IMMEDIATELY. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR THE SET OUT ON SITE AND DETERMINING ACTUAL WALL HEIGHTS AS THESE MAY VARY FROM THAT SHOWN
- 25MPa - SLABS & FOOTINGS 20MPa
- TIDY SLABS 10MPa

- EXPOSED FOOTINGS
- 7. THE CONCRETE SHALL BE KEPT CONTINUOUSLY WET FOR A PERIOD OF AT LEAST 4 DAYS. FROM 4-10 DAYS AFTER POURING IT SHALL BE KEPT DAMP BY OCCASIONAL HOSING.
- 8. ALL HOLD DOWN BOLTS SPECIFIED AS CHEMICAL ANCHORS TO BE DRILLED AND EPOXY GROUTED AFTER SLAB HAS CURED.
- 9. ALL CHEMICAL ANCHOR HOLES TO BE CLEANED OUT IN ACCORDANCE WITH MANUFACTURES INSTRUCTIONS

- 1. ALL WELDS TO BE 6 FILLET WELDS ALL ROUND UNLESS NOTED
- 2. ALL M12 BOLTS TO BE GRADE 4.6. ALL M16 BOLTS TO BE GRADE 8.8 UNLESS NOTED
- 3. ALL PLATES TO BE 10 THICK UNLESS NOTED OTHERWISE
- 4. STEEL GRADES:
- PLATES
- HOT ROLLED SECTIONS 300MPa - HOLLOW SECTIONS 350MPa
- 5. ALL WELD ELECTRODES ARE E48XX OR W50X.
- 6. ALL INTERNAL STRUCTURAL STEEL TO BE PAINTED IN ACCORDANCE WITH SYSTEM DESIGNATION AS/NZS2312/AKL1 BEFORE DELIVERY TO SITE. ANY AREAS DAMAGED TO BE MADE GOOD UPON INSTALLATION.
- ALL EXTERNAL STRUCTURAL STEEL TO BE HOT DIP GALVANIZED IN ACCORDANCE WITH SYSTEM DESIGNATION AS/NZS2312/HDG600. ANY AREAS DAMAGED TO BE MADE GOOD UPON INSTALLATION.

MASONRY:

- 1. ALL MASONRY IS LAID IN RUNNING BOND CONFIGURATION UNLESS NOTED OTHERWISE.
- 2. ALL MASONRY WITHIN THE BUILDING STRUCTURE IS GRADE B AS DEFINED IN NZS4230.
- 3. ALL CONCRETE MASONRY BLOCKS SHALL CONFORM TO NZS3012 UNLESS NOTED OTHERWISE. DENSITY SHALL BE >1750kg/m2

- 4. ALL MASONRY WORK SHALL COMPLY WITH THE REQUIREMENTS OF NZS4210:2001 AND NZS4229:2013. LINTELS WHERE NOT SPECIFICALLY DETAILED SHALL COMPLY WITH THE PROVISIONS OF NZS4229:2013. USE 800G/M³ OF SIKA 'CAVEX' EXPANSION AGENT, OR APPROVED ALTERNATIVE, FOR MASONRY BLOCK INFILL.
- 5. IF MAXIMUM HEIGHT DIMENSIONS VARY FROM THAT SHOWN CONTACT ENGINEER IMMEDIATELY. IT IS THE CONTRACTOR'S ACTUAL WALL HEIGHTS AS THESE MAY VARY FROM THAT SHOWN.
- 6. CONCRETE SHALL BE: B1 B2 17.5MPa 25MPa - BLOCK FILL
- 7. ALL REINFORCEMENT SHALL COMPLY WITH AS/NZS4671:2001 (HD BARS SHALL NOT BE REBENT).
- 8. CHASING OF LOAD BEARING MASONRY UNITS IS NOT PERMITTED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.

	REINFORCING LAP LENGTHS						
	MASONRY	(17.5MPa)	CONCRETE (25MPa)				
BAR SIZE	300	300 500 400 700		500			
10	400			1			
12	480	840	360	600			
16	640	1120	480	800			
20	800	1400	600	1000			
25			750	1250			

	REINFORCEMENT COVER					
	MASONRY	CONCRETE				
ICATION	17.5MPa	25MPa	30MPa			
A1	35	25	25			
B1	50	40	35			
B2	60 (25MPa)	-	45			
	-	75	75			
	A1 B1	ICATION 17.5MPa A1 35 B1 50	ICATION 17.5MPa 25MPa A1 35 25 B1 50 40 B2 60 (25MPa) -			

HEALTH AND SAFETY:

1 PROPPING

EXISTING LOAD BEARING STRUCTURAL ELEMENTS SHALL BE ADEQUATELY PROPPED PRIOR TO REMOVING ANY SUPPORTING STRUCTURE. PROPPING SHALL REMAIN UNTIL NEW SUPPORTING STRUCTURE IS INSTALLED AS PER THE ENGINEER'S DRAWINGS AND REQUIREMENTS.

THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE BUILDER.

TEMPORARY WORK AND PROPPING IS THE RESPONSIBILITY OF THE BUILDER.

2. ASBESTOS CONTAINING MATERIAL (ACM)

THE BUILDER IS RESPONSIBLE FOR IDENTIFYING ANY EXISTING ACM THAT MAY BE PRESENT PRIOR TO COMMENCING ANY WORKS. IDENTIFICATION. ASBESTOS MANAGEMENT PLAN, REMOVAL AND DEMOLITION SHALL BE CARRIED OUT AS PER:

HEALTH AND SAFETY AT WORK (ASBESTOS) REGULATIONS 2016

3. PRECAST WALL

THE PRE-CAST PANEL MANUFACTURER AND BUILDER SHALL

APPROVED CODE OF PRACTICE FOR THE SAFE HANDING. TRANSPORTATION AND ERECTION OF PRECAST CONCRETE, AND

ANY REQUIREMENTS SPECIFIED BY THE HEALTH AND SAFETY AT WORK REGULATIONS

www.business.govt.nz/worksafe/information-guidance/all-guidance-items/scaffolding-best-practice-guideline-for-scaffolding-in-new-zealand/ section-6-particular-scaffolds-and-scaffolding-structures/ 6.13-falsework-or-propping

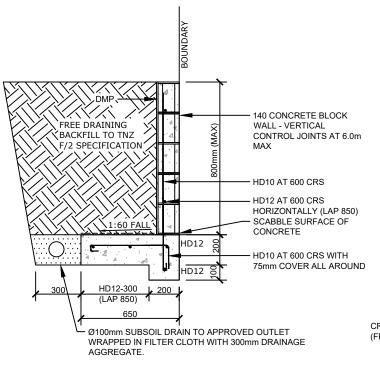


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GENESIS RESIDENTIAL LIMITED 64 WAIPOUNAMU DRIVE COVER PAGE

SURVEYED		REVISION DATE		JOHEE I		
		B-FFL ADDED		07/06/18	NOTES	
DESIGNED	TSN	BITENBBLB		01700/10	NOTES	
	1011	C-WATER MAIN		26/07/18		
DRAWN	TSN	O VIX (1 ETC IVI) (III)		20/01/10		
	1011	D-ROAD SECTION		06/11/18	SERIES 100	
CHECKED		B North GEOTION		00/11/10	100	
011201125		DATE	SCALE	10 010		
APPROVED		9/12/18	1 ACCHOMMIRE IN III		REF 18-016	
		9/12/10				
CAD FILE	17-016-BC STG	1 RTW	PLOT D	ATE 12/9	/18 ORIG. SIZE A3	

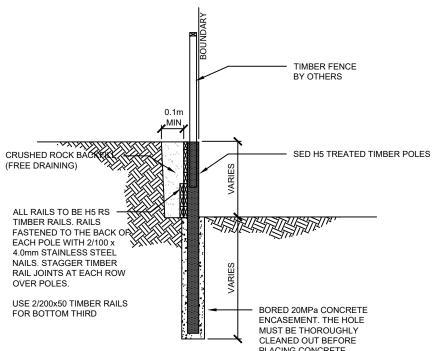




BLOCK WALL (WALL 1 & 2) SCALE: 1:50

RETAINING WALL SPECIFICATION

HEIGHT	POLE Ø (mm)	BORE Ø (mm)	SPACING (m)	EMBEDMENT (m)
1.0m	Ø150 SED	450	1.2	1.7
1.5m	Ø200 SED	450	1.2	2.1
2.0m	Ø275 SED	450	1.2	2.2
2.5m	Ø325SED	600	1.2	3.0
3.0m	Ø400 SED	600	1.2	4.0
3.5m	Ø425 SED	600	1.2	4.5



TIMBER WALL (WALL 2-15)
SCALE: 1:50



DATE SHEE

macroVentures

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SITE PLAN SCALE: 1:750

> GENESIS RESIDENTIAL LIMITED 64 WAIPOUNAMU DRIVE SITE PLAN

B-FFL ADDED 07/06/18 01 DESIGNED TSN C-WATER MAIN 26/07/18 DRAWN TSN D-ROAD SECTION 06/11/18 SERIES 100 CHECKED AS SHOWN REF 18-016 APPROVED 9/12/18 PLOT DATE 12/9/18 ORIG. SIZE A3 CAD FILE 17-016-BC STG1 RTW

REVISION

SURVEYED

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