

GENERAL NOTES

THESE DRAWINGS ARE FOR STRUCTURAL PURPOSES ONLY, TO BE READ IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AND THE SPECIFICATION. DO NOT SCALE. ALL DIMENSIONS ARE IN MILLIMETERS AND SHALL BE OBTAINED FROM THE ARCHITECT'S DRAWINGS UNLESS SPECIFICALLY SHOWN HEREON.

NOTES WITHIN THE DETAIL DRAWING SET GOVERN OVER NOTES ON THIS SHEET.

CERTIFICATION OF THESE DETAILS RELY ON THE ENGINEER INSPECTING THE PHYSICAL CONSTRUCTION WORKS IN ACCORDANCE WITH THE INSPECTION SCHEDULE.

SHOULD ANY AMBIGUITY, ERROR, OMISSION, DISCREPANCY, INCONSISTENCY OR OTHER FAULT EXIST IN DOCUMENTATION, IMMEDIATELY NOTIFY THE ENGINEER.

DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION, TEMPORARY BRACING/SHORING SHALL BE PROVIDED BY THE CONTRACTOR TO KEEP THE STRUCTURE AND EXCAVATIONS STABLE AT ALL TIMES, ENSURING NO PART OF THE STRUCTURE BECOMES OVERSTRESSED. FOR ALL TEMPORARY BATTERS, OBTAIN ENGINEERS ADVISE.

PROPRIETARY ITEMS SPECIFIED SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS WRITTEN RECOMMENDATIONS. DO NOT VARY SPECIFIED PRODUCTS WITHOUT WRITTEN APPROVAL FROM THE ENGINEER.

THE APPROVAL OF A SUBSTITUTION SHALL BE SOUGHT FROM THE ENGINEER BUT IS NOT AN AUTHORIZATION FOR AN EXTRA. ANY EXTRAS INVOLVED MUST BE TAKEN UP WITH THE ARCHITECT /OWNER BEFORE THE WORK COMMENCES.

THE TERMITE PROTECTION AND WATERPROOFING OF THIS STRUCTURE IS THE BUILDERS RESPONSIBILITY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL SERVICES IN THE VICINITY OF THE WORKS. ANY SERVICES SHOWN ARE PROVIDED DIAGRAMMATICALLY ONLY. THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL SERVICES PRIOR TO COMMENCING AND SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE CAUSED TO SERVICES, AS WELL AS ANY LOSS INCURRED AS A RESULT OF THE DAMAGE TO ANY SERVICE.

ALL WORKMANSHIP AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITIONS, INCLUDING AMENDMENTS, OF RELEVANT AUSTRALIAN STANDARDS & CODES OF PRACTICE, THE BUILDING CODE OF AUSTRALIA AND THE BY-LAWS AND POLICIES OF THE LOCAL GOVERNMENT AUTHORITY, EXCEPT AS VARIED BY THE CONTRACT DOCUMENTS AND APPROVED BY THE CERTIFYING AUTHORITY.

ALL FRAMING ELEMENTS TO BE CHECKED FOR BUSHFIRE CODE COMPLIANCE.

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DESIGN LOADS

THE STRUCTURAL COMPONENTS DETAILED ON THESE DRAWINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARDS, BUILDING CODES OF AUSTRALIA AND LOCAL GOVERNMENT ORDINANCES.

U.N.O. DESIGN LIVE LOADS ARE AS FOLLOWS:-

LIVE LOADS		STATIC LOADS	
ROOF:	0.25 kPa	INTERNAL TIMBER FLOOR:	0.5 kPa
INTERNAL FLOOR:	1.5 kPa	TILED ROOF + CEILING :	0.9kPa
EXTERNAL FLOOR:	2 kPa	SHEET METAL ROOF + CEILING:	0.4kPa
GARAGE:	2.5kPa		

DESIGN WIND CATEGORY - N3

FOUNDATION NOTES

FOOTINGS HAVE BEEN DESIGNED FOR A 'WEATHERED ROCK' FOUNDATION MATERIAL FOR AN ALLOWABLE BEARING CAPACITY OF 600 kPa .THIS FOUNDATION MATERIAL SHALL BE UNIFORM AND BE APPROVED FOR THIS PRESSURE BEFORE PLACING CONCRETE. PIERS SHALL BE USED TO ACHIEVE UNIFORM BEARING WHERE NECESSARY.

THE SITE IS CLASSIFIED AS CLASS 'P' , AND A 'BP' FOOTING SYSTEM IN ACCORDANCE WITH AS2870-2011.

STRIP ALL TOPSOIL FROM THE CONSTRUCTION AREA & PREPARE IN ACCORDANCE WITH AS2870-2011.

ALL FOOTING/PIER BASES ARE TO BE CLEAN AND FIRM PRIOR TO CONCRETE PLACEMENT.

PROVIDE DAMP PROOFING MEMBRANE UNDER ALL SLABS U.N.O.

PROVIDE 50mm MINIMUM THICK LAYER OF WELL COMPACTED GRANULAR MATERIAL UNDER EACH SLAB.

TREE REMOVAL

IF TREES HAVE BEEN REMOVED FROM THE SITE WITHIN 12 MONTHS, THE ENGINEER MUST BE INFORMED.

IF TREES ARE PROPOSED TO BE REMOVED FROM THE CONSTRUCTION ZONE, ALL DISTURBED SOIL IS TO BE REMOVED AND REPLACED TO AN EQUIVALENT NATURAL CONDITION UNLESS PIERING IS PROVIDED.

CONCRETE NOTES

UNLESS NOTED OTHERWISE CONCRETE IS TO HAVE THE FOLLOWING QUALITIES  
MAX AGGREGATE SIZE - 20mm  
SLUMP - 80mm

CONCRETE STRENGTH GUIDE (F'c)		
SLABS ON GROUND	25 MPa	U.N.O
PIERS AND FOOTINGS	25 MPa	U.N.O
SUSPENDED SLABS	32 MPa	U.N.O
COLUMNS	32 MPa	U.N.O
BLOCK CORE FILLING	20 MPa (10mm aggregate)	

ALL CEMENT TO BE TYPE 'GP' UNLESS NOTED OTHERWISE.

ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600 AND OTHER RELEVANT CURRENT STANDARDS.

ALL CONCRETE SHALL BE PLACED IN A MANNER THAT AVOIDS SEGREGATION.



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PROPOSED ALTERATIONS & ADDITIONS AT

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MARIKA JARV

CONCRETE NOTES (CONTINUED)

CONSTRUCTION JOINTS OTHER THAN THOSE SHOWN SHALL BE TO ENGINEERS APPROVAL

COLD CONCRETE JOINTS WHERE APPROVED SHALL BE PROPERLY FORMED, WHERE VERTICAL.

THE FIRST POUR SHALL BE THOROUGHLY SCABBLED AND CLEANED OF ALL POORLY COMPACTED MATERIAL AND LAITANCE. THOROUGHLY SOAKED AND PAINTED WITH A 2:1 SAND CEMENT SLURRY IMMEDIATELY BEFORE PLACING THE SECOND POUR. THOROUGHLY COMPACT THE SECOND POUR AGAINST THE FIRST POUR.

THE FINISHED CONCRETE SHALL BE FULLY MECHANICALLY VIBRATED TO ACHIEVE FULL COMPACTION, COMPLETELY FILLING FORMWORK, THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE STONE POCKETS. ALL CONCRETE, INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE FULLY MECHANICALLY VIBRATED USING A HIGH FREQUENCY MECHANICAL VIBRATOR.

CONCRETE COVERS MUST BE MAINTAINED THROUGH ALL CHAMFERS, DRIP GROOVES, PENETRATIONS, ETC.

ALL PENETRATIONS IN SUSPENDED CONCRETE TO BE APPROVED BY THE ENGINEER.

REPAIRS TO CONCRETE SHALL NOT BE ATTEMPTED WITHOUT INSPECTION AND PERMISSION OF THE ENGINEER.

WHERE A DAMP-PROOFING MEMBRANE (HIGH IMPACT) IS SPECIFIED BENEATH SLABS ON GROUND PROVIDE 0.2mm POLYTHENE MEMBRANE THROUGHOUT. LAP SHEETS 300mm AND SEAL WITH A 50mm WIDE PRESSURE SENSITIVE WATERPROOF TAPE.

ALL LOAD BEARING WALLS ARE TO BE FINISHED WITH SMOOTH TROWELLED MORTAR AND A DURABLE SLIP JOINT.

SLAB THICKNESS DENOTED ON PLAN AS - (XXX)

NO ADDITIVES ARE TO BE ADDED TO THE CONCRETE WITHOUT THE APPROVAL OF THE ENGINEER.  
ALL CONCRETE SIZES SHOWN ARE MINIMUM AND DO NOT INCLUDE THICKNESS OF APPLIED FINISHES. DO NOT MAKE UNSPECIFIED CONSTRUCTION JOINTS WITHOUT THE APPROVAL OF THE ENGINEER.

DO NOT PLACE CONDUITS, PIPES, ETC, WITHIN THE CONCRETE COVER.

U.N.O. SUSPENDED FLOORS, BEAMS, ETC, ARE TO REMAIN PROPPED FOR A MINIMUM OF 21 DAYS AFTER THE COMPLETION OF POURING. DO NO CONSTRUCT MASONRY ON SUSPENDED SLABS OR BEAMS UNTIL SEVEN DAYS AFTER ALL PROPS HAVE BEEN REMOVED.

IT IS IMPORTANT THAT ALL REINFORCEMENT BE KEPT IN CORRECT POSITION DURING CONCRETE PLACEMENT. PROVIDE SUFFICIENT SUPPORTS UNDER REINFORCEMENT TO ACHIEVE CORRECT COVERS AS NOTES ON THESE DETAILS.

REINFORCEMENT

N - DENOTES GRADE 500 DEFORMED BARS TO AS 1302.  
R - DENOTES GRADE 250 HOT ROLLED PLAIN BARS TO AS 1302.  
SL - DENOTES GRADE 450 HARD-DRAWN WIRE REINFORCING FABRIC TO AS 1304.  
W - DENOTES GRADE 450 W HARD-DRAWN PLAIN WIRE TO AS 1303.  
S - DENOTED GRADE 250 DEFORMED POOL BAR

REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION.

DO NOT WELD REINFORCEMENT UNLESS SHOWN ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE ENGINEER.

FABRIC SHALL BE LAPPED 2 TRANSVERSE WIRES PLUS 25mm. BUNDLED BARS SHALL BE TIED TOGETHER AT 30 BAR DIAMETER CENTRES WITH 3 WRAPS OF TIE WIRE.

ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TIPPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1 METER CENTRES BOTH WAYS, AND 800 EACH WAY FOR FABRIC. WHEN POURED ON GROUND AS FORM WORK PROVIDE PLATES UNDER ALL BAR CHAIRS. PLASTIC TIPPED STEEL CHAIRS SHALL NOT BE USED ON EXPOSED FACES IN EXPOSURE CLASSIFICATION B1 AND B2.

SITE BENDING OF REINFORCEMENT SHALL BE AVOIDED IF POSSIBLE. WHERE SITE BENDING IS UNAVOIDABLE IT SHALL BE CARRIED OUT COLD, WITHOUT THE APPLICATION OF HEAT, AND IN ACCORDANCE WITH THE PRACTICE NOTE RPN1 OF THE STEEL REINFORCEMENT INSTITUTE OF AUSTRALIA.

REINFORCEMENT (CONTINUED)

LAP JOINT ONLY AT LOCATIONS SHOWN ON THE DRAWINGS OR AS APPROVED, UNLESS OTHERWISE NOTED, LAP ALL BARS AS TABULATED BELOW.

LAP LENGTH FOR DEFORMED BARS IN SLABS & WALLS						
N12	N16	N20	N24	N28	N32	N36
600	600	900	1600	-	-	-
LAP LENGTH FOR DEFORMED BARS IN BEAMS & COLUMNS						
N12	N16	N20	N24	N28	N32	N36
600	700	1050	1600	2000	2300	2700
COG LENGTH FOR DEFORMED BARS IN BEAMS & COLUMNS						
N12	N16	N20	N24	N28	N32	N36
200	225	275	325	375	425	475

FORMWORK

THE DESIGN, CONSTRUCTION AND PERFORMANCE OF THE FORMWORK AND FRAMEWORK IS THE RESPONSIBILITY OF THE BUILDER.

DESIGN, CONSTRUCTION AND STRIPPING TIMES SHALL COMPLY WITH AS 3610 AND AS 3600 UNLESS OTHERWISE APPROVED BY THE ENGINEER.

DURING CONSTRUCTION TEMPORARY SUPPORT PROPPING SHALL BE PROVIDED WHERE LOADS FROM STACKED MATERIALS, SCAFFOLDING, FORMWORK & ANY OTHER CONSTRUCTION ACTIVITY INDUCE LOADS IN A SLAB, BEAM OR RETAINING WALL.

THE FORMWORK SHALL NOT RELY ON ANY RESTRAINT OR SUPPORT FROM THE PERMANENT STRUCTURE WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

DESIGN INFORMATION CONCERNING THE FOUNDATION FORMWORK SHALL BE DETERMINED FROM CONDITIONS EXISTING ON SITE AT THE TIME OF CONSTRUCTION. REFER ALSO TO THE GEOTECHNICAL REPORT WHERE AVAILABLE.

BRICKWORK AND BLOCKWORK

ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3700.

MASONRY UNITS SHALL BE RESISTANCE GRADE SUITABLE FOR THE SITE EXPOSURE CONDITIONS IN ACCORDANCE WITH AS3700.

MINIMUM DURABILITY CLASSIFICATION OF WALL TIES AND LINTELS IS TO BE 'R4', A CERTIFICATE OF COMPLIANCE SHOULD BE SOUGHT FROM THE SUPPLIER.

STRENGTHS OF MASONRY UNITS AND TYPE OF MORTAR SHALL BE AS FOLLOWS:

ELEMENT	MATERIAL	CHARACTERISTIC UNCONFINED COMPRESSIVE STRENGTH (f'uc)	MORTAR (CEMENT: LIME :SAND)	CLASSIFICATION
BRICK	BRICK	20 MPa	1:1:6	M3
BRICK	BRICK	20 MPa	1: 0.5: 4.5	M4
BLOCKS	BLOCKS	15 MPa	1:1:6	M3
BLOCKS	BLOCKS	15 MPa	1: 0.25 :3	M4

ONLY LOAD BEARING MASONRY WALLS ARE SHOWN UNDER CONCRETE SLABS.

MASONRY SUPPORTING SLABS AND BEAMS SHALL BE TROWELLED SMOOTH WITH MORTAR FILLING ALL VOIDS. TWO LAYERS OF MALTHOID SHALL BE PLACED FULL WIDTH ACROSS SUCH LOAD BEARING SURFACES EXCEPT WHERE PROPRIETARY BEARING STRIPS IS NOTED OR ALTERNATIVE DETAIL IS DOCUMENTED. THE HEADS OF LOAD BEARING WALLS SHALL NOT EXTEND ABOVE THE SOFFIT OF THE CONCRETE SLAB ABOVE.

NON LOAD BEARING WALLS SHALL BE SEPARATED FROM CONCRETE ABOVE BY 12mm THICK CLOSED CELL POLYSTYRENE STRIP.

NO CHASES OR RECESSES ARE PERMITTED IN LOAD BEARING MASONRY WITHOUT THE APPROVAL OF THE ENGINEER.

PROVIDE VERTICAL CONTROL JOINTS IN ACCORDANCE WITH THE BCA AT 6m MAX. CENTRES GENERALLY, AND 6m MAX. FROM CORNERS FOR BRICKWORK AND BLOCKWORK OR AS SPECIFIED IN AS 3700 AND THE BUILDING CODE OF AUSTRALIA.

BRICKWORK AND BLOCKWORK (CONTINUED)

PROVIDE CLEAN OUT HOLES 100mm SQUARE MINIMUM AT BASE OF BLOCKWORK WALLS AND ROD CORE HOLES TO REMOVE PROTRUDING MORTAR FINIS PRIOR TO GROUTING.

GROUT ALL CORES IN REINFORCED BLOCKWORK UNLESS OTHERWISE NOTED.

MAXIMUM HEIGHT OF BLOCKWORK TO BE GROUTED ON ONE DAY SHALL BE 2400mm. GROUT SHALL BE PLACED IN LIFTS OF 1200mm MAXIMUM AND COMPACTED BY POKER VIBRATOR. A SHORT TIME SHOULD ELAPSE BETWEEN SUCCESSIVE LIFTS TO ALLOW PLASTIC SETTLEMENT TO OCCUR.

PROVIDE 50mm COVER FROM THE OUTSIDE OF THE BLOCK UNLESS NOTED OTHERWISE.

BACKFILL TO RETAINING WALLS SHALL BE FREE DRAINING GRANULAR MATERIAL. PROVIDE SUBSOIL DRAIN AT BASE OF WALL. DO NOT BACKFILL UNTIL 14 DAYS AFTER GROUTING U.N.O, OR IF APPLICABLE, AFTER RESTRAINING SLAB OVER HAS BEEN POURED AND CURED FOR 7 DAYS. BACKFILL SHALL BE COMPACTED TO 98% STANDARD MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT = ± 2%.

STEP STRIP FOOTINGS IN BRICK OR BLOCK COURSES TO SUIT FALLS IN NATURAL GROUND. REINFORCEMENT TO BE CARRIED ACROSS FULL WIDTH OF ADJOINING FOOTINGS AT ALL CORNERS AND INTERSECTIONS.

BRICK TIES SHALL BE STAINLESS STEEL (GRADE TYPE 316) OR COUNCIL APPROVED NON-METALLIC TIES PLACED AT THE RATE OF 5 TIES PER SQUARE METRE OF WALL SURFACE AREA PLUS ADDITIONAL TIES AT 300mm CENTRES ADJACENT TO OPENINGS AND CONTROL JOINTS. WHERE NON-METALLIC TIES ARE USED THE BUILDER SHALL ENSURE THAT MORTAR IS PROVIDED TOP TO BOTTOM BEFORE PLACING BRICKS. BRICK TIES SHALL COMPLY WITH AS 2699.

AT CONCRETE / STEEL COLUMN JUNCTIONS MET 5-3 EXPANSION TIES TO BE USED. (INTERNAL SKIN OF CAVITY WALL OR INTERNAL WALL)

ALL STEELWORK BUILT INTO BRICKWORK TO BE CORROSION PROTECTED IN ACCORDANCE WITH THE BCA AND AS3700.

ALL BLOCK RETAINING WALLS TO BE WATERPROOFED TO ARCHITECTS AND/OR BUILDERS DETAILS.

ALL EXCAVATIONS TO BE TEMPORARILY SUPPORTED.

STRUCTURAL STEELWORK NOTES

UNLESS NOTED OTHERWISE -  
USE 10mm THICK GUSSET, FIN AND END PLATES WELDED ALL ROUND.  
ALL WELDS 6mm CONTINUOUS FILLET MADE WITH E48XX ELECTRODE OR W50X TO BE CATEGORY GP.  
ALL BOLTS 16mm DIAMETER.  
ALL BOLTS ARE GRADE 8.8/S.  
ALL BOLTS, INCLUDING HOLDING DOWN BOLTS ARE TO BE HOT DIP GALVANIZED.  
BUTT WELD ALL FLANGES AT END PLATES AND ALL MITRE CUTS. GUSSETS TO END PLATES TO BE BUTT WELDED. ALL BUTT WELDS SHALL BE FULL PENETRATION, GRADE SP.  
ALL CONNECTIONS TO HAVE MINIMUM OF 2 BOLTS.  
STUDS FABRICATED TO AS1554.2. ALL SHEAR STUDS (COMPOSITE SLAB TO STEEL) GRADE 410MPa. ALL THREADED STUDS (STEEL TO STEEL) GRADE 380 MPa.  
TURNBUCKLES TO BE QUALITY GRADE 'S' TO AS2319.

CHIP ALL WELDS FREE OF SLAG.

CONTRACTOR IS TO CONFIRM WITH ARCHITECT AS TO WHERE EXPOSED WELDS ARE TO BE GROUND FLUSH / SMOOTH.

PROVIDE TEMPORARY BRACING TO MAINTAIN STABILITY OF STEELWORK DURING CONSTRUCTION.

DO NOT GROUT UNDER BASE PLATES UNTIL FIRST LEVEL STEELWORK IS PLUMB AND FIXED BY WELDING OR BOLTING.

SUBMIT ALL SHOP DRAWINGS TO THE ENGINEER BEFORE COMMENCING FABRICATION.

UNLESS NOTED OTHERWISE, THE FIXING OF PURLINS, GIRTS, BRIDGING, SHEETING AND ANY OTHER COMPONENT SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS. ROD BRIDGING IS NOT ACCEPTABLE UNLESS APPROVED IN WRITING.

ALL STRUCTURAL STEEL TO BE A MINIMUM GRADE OF 300 MPa.

STEELWORK FINISHED - COMPLYING WITH AS/NZS 2312.1

ALL PAINT THICKNESS ARE DRY FILM THICKNESS. FIGURES IN BRACKETS REFER TO AS/NZS 2312 SYSTEM DESIGNATION.

ALL SURFACE PREPARATIONS TO AS/NZS 2312, AS1627 AND IN STRICT ACCORDANCE WITH PAINT MANUFACTURERS SPECIFICATIONS AND REQUIREMENTS, WHERE DECORATIVE FINISHED ARE REQUIRED REFER TO ARCHITECTS SPECIFICATION.

ALL STEELWORK TO BE CORROSION PROTECTED IN ACCORDANCE WITH THE BCA OR THE CONTRACT DOCUMENTS WHICHEVER IS GREATER. REFER TO AS/NZS 2312.

INSPECTIONS

AS THE ENGINEERING DESIGNERS, IT IS THE PREFERENCE OF GZ CONSULTING ENGINEERS TO INSPECT ALL STAGES OF THE DETAILED WORKS. INSPECTIONS WHICH WOULD BE REQUIRED TO CERTIFY THE WORKS ARE:

- FOOTINGS
- FRAMING

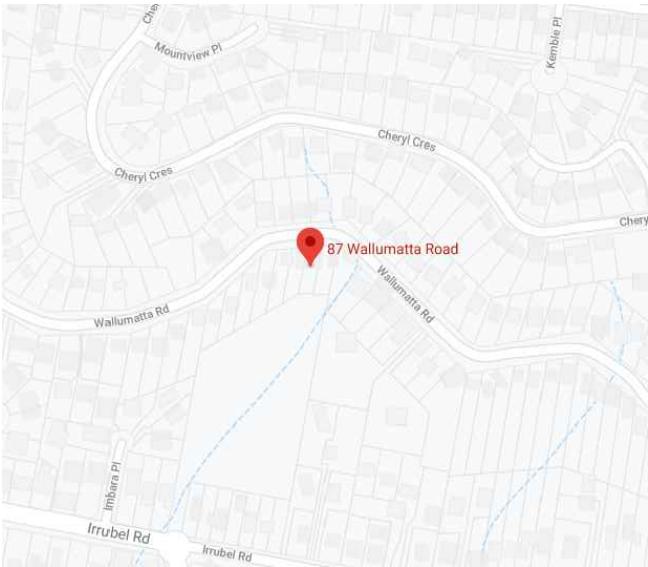
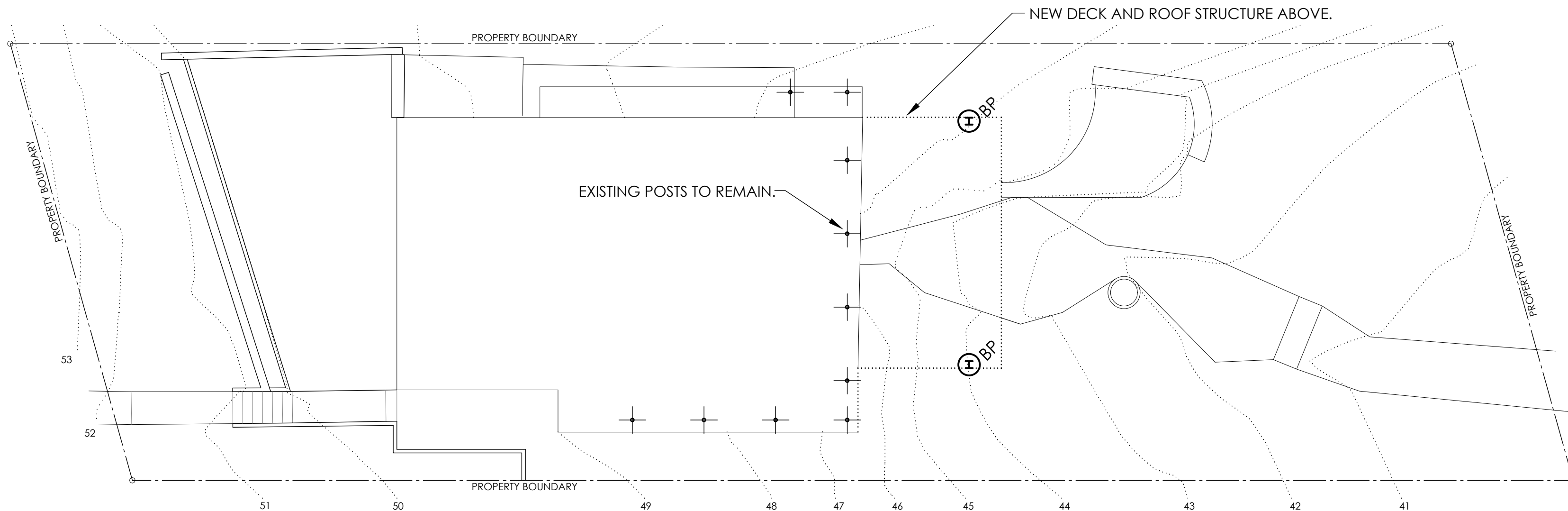
ALL INSPECTIONS MUST BE CLEARLY VISIBLE, BEFORE VAPOUR BARRIER, CONCRETE OR LINING PLACEMENT.

PLEASE NOTE  
ANY ELEMENTS NOT INSPECTED BY THE ENGINEER CANNOT BE CERTIFIED BY THE ENGINEER. THE ENGINEER IS TO BE GIVEN 24 HOURS MINIMUM NOTICE FOR INSPECTIONS.

STATUS

PRELIMINARY

SHEETS IN SET	DATE	DRAWN	DESIGN	SIGNED
04	21.04.20	J.J	J.J	
PROJECT No.		DRAWING No.		SHEET SIZE
19128		S1		A2



LOCATION MAP (N.T.S)



FOOTING PLAN (1:100)

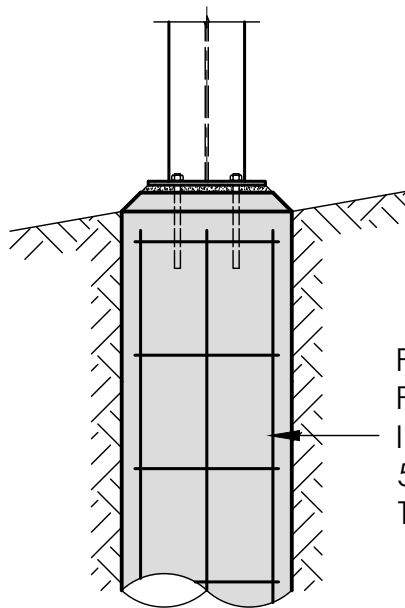
SITE CLASSIFICATION  
THE SITE IS CLASSIFIED AS CLASS 'P.' FOOTINGS HAVE BEEN DESIGNED FOR A WEATHERED ROCK FOUNDATION.

FOOTING SCHEDULE

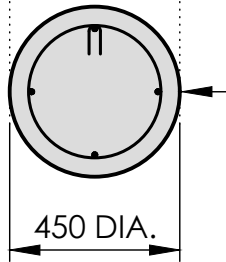
BORED PIER SCHEDULE

BP ..... 450Ø BORED PIER WITH UC POST.

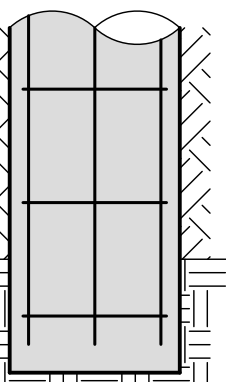
CONTOURS SHOWN DEPICT THE TOPOGRAPHY, SPOT LEVELS SHOULD BE TAKEN IN PREFERENCE TO CONTOURS AS PER THE SURVEYORS DRAWING. CONTOURS DO NOT REPRESENT THE EXACT LEVEL AT ANY POINT.



PROVIDE 4N12 BARS. LAP 600 INTO PIER REINFORCEMENT. COG 300 INTO FOOTING REINFORCEMENT. 50mm COVER ALL AROUND TYPICAL.



4N16 VERTICAL BARS. R10 TIES AT 300 CRS. TYPICAL

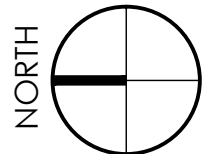


NOTE  
BASE OF PIER HOLES TO BE CLEAN AND FIRM PRIOR TO POURING CONCRETE. ALL LOOSE MATERIAL TO BE REMOVED.

300mm MIN. SOCKETTED INTO ROCK. TYPICAL

WEATHERED SANDSTONE

BP - TYPICAL PIERING DETAIL (1:20)



0	21.04.20	FOR DA APPLICATION	
REV	DATE	REVISIONS	SIGNED

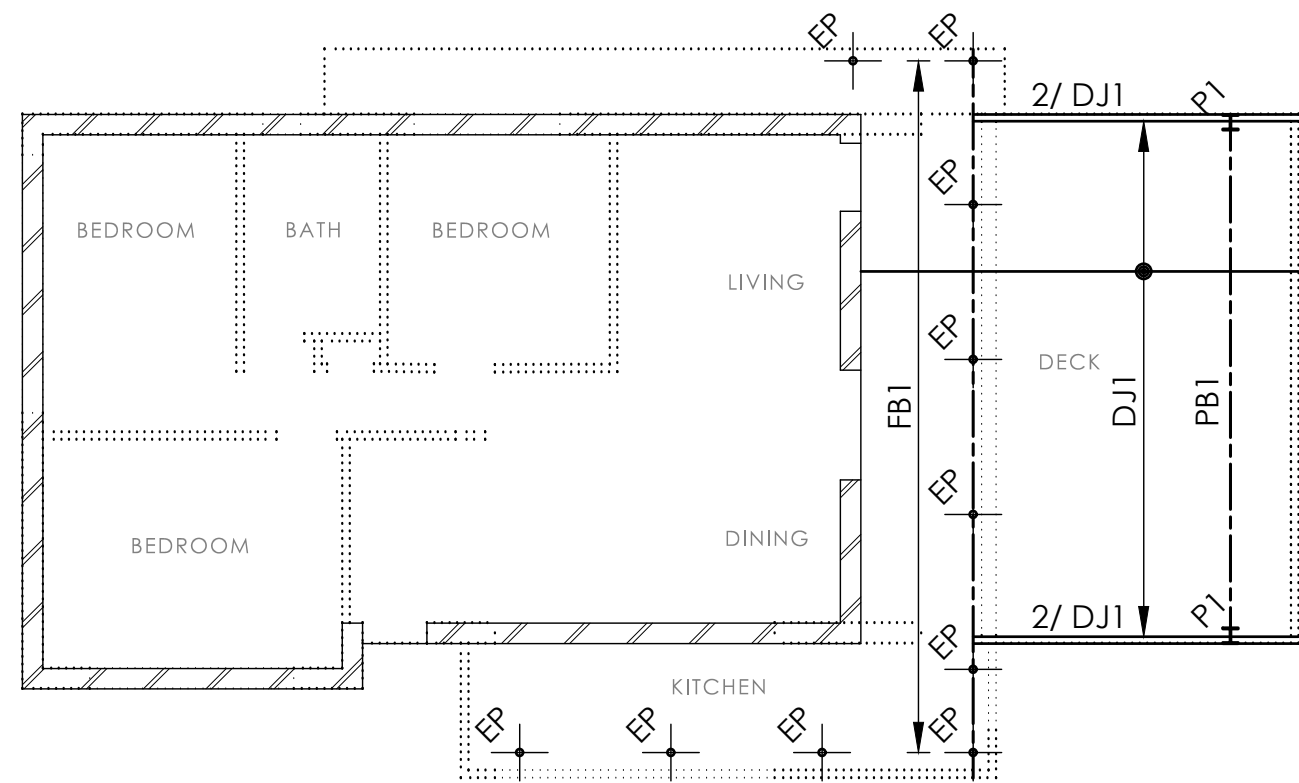
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PROJECT & SITE ALTERATIONS & ADDITIONS AT 87 WALLUMATTA ROAD, NEWPORT 2106

TITLE <b>FOOTING PLAN</b>
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STATUS <b>PRELIMINARY</b>				
SCALE AS SHOWN	DATE 00.00.00	DRAWN J.J	DESIGN J.J	SIGNED 
PROJECT No. <b>19128</b>		DRAWING No. <b>S2</b>		SHEET SIZE <b>A2</b>



DECK FLOOR FRAMING PLAN (1:100)

WALL IDENTIFICATION KEY

- GROUND FLOOR MASONRY WALL
- DOTTED LINES DENOTE FLOOR OVER

FRAMING SCHEDULE

POSTS

- P1 200 UC 59 PORTAL FRAME POST.
- EP EXISTING STEEL CHS POSTS.

BEAMS

- FB1 200 PFC.
- PB1 200 UC 59.

JOISTS

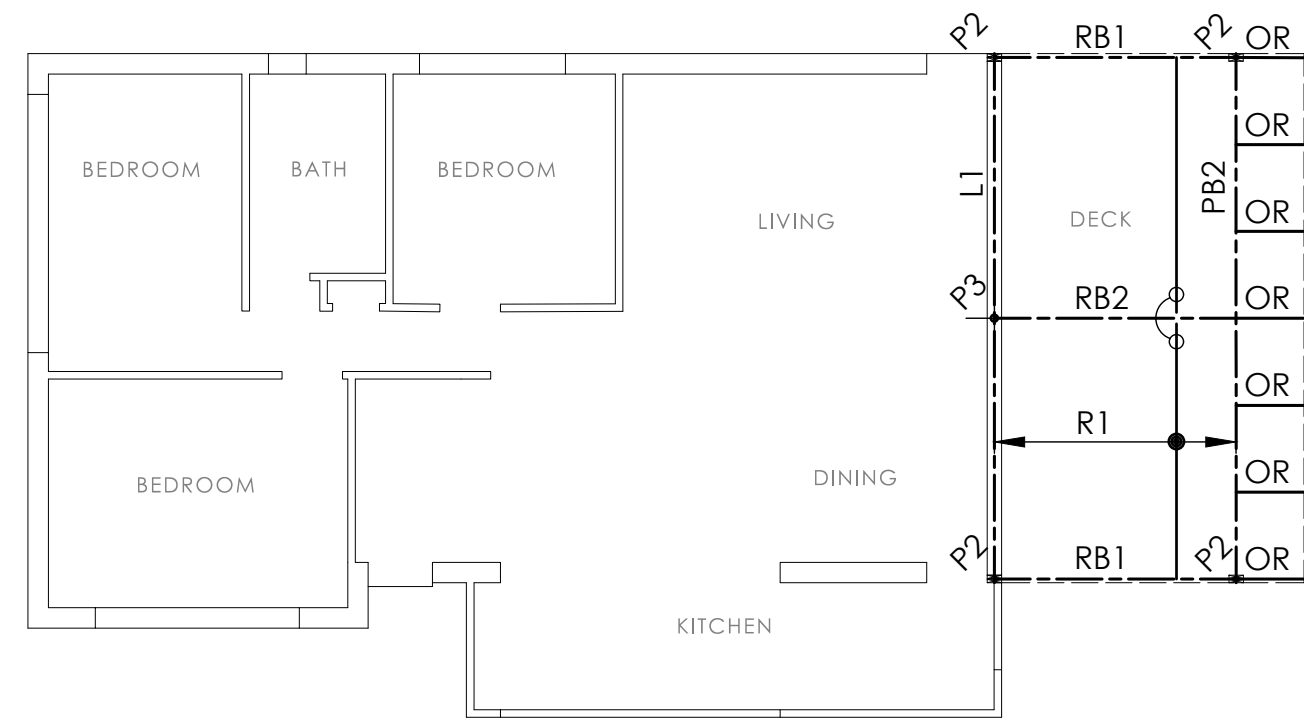
- DJ1 190 x 45 MGP10 AT 450mm CRS (CONTINUOUS SPAN).

STEELWORK CONNECTION NOTE

ALL CONNECTIONS 2M16 BOLTS THROUGH 10mm FIN, CAP, END OR BASE PLATES UNLESS NOTED OTHERWISE.

ADDITIONAL FRAMING NOTES

ALL BEAMS AND BRACING NOT SHOWN ON PLAN ARE TO BE DETERMINED IN ACCORDANCE WITH AS1684 "RESIDENTIAL TIMBER FRAMING CONSTRUCTION.



DECK ROOF FRAMING PLAN (1:100)

DASHED LINES DENOTE ROOF LINE OVER.

FRAMING SCHEDULE

POSTS

- P2 2/ 190 x 45 MGP10 WITH 10mm STEEL PLATE FLITCH POST.
- P3 89 x 89 x 6 SHS POST.

BEAMS

- L1 2/ 240 x 45 LVL.
- PB2 250 UB 37.
- RB1 200 PFC.
- RB2 200 UB 29.

OUTRIGGERS

- OR 10mm x 150mm STEEL PLATE.

RAFTERS

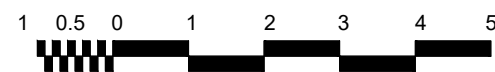
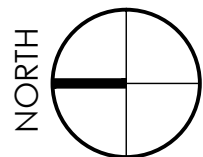
- R1 190 x 45 MGP10 AT 450mm CRS.

TIMBER NOTES

- ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH AS1684 AND AS1720.
- SOFTWOOD TO BE A MINIMUM OF F7 AND HARDWOOD TO BE MINIMUM OF F14 UNLESS NOTED OTHERWISE.
- SOFTWOOD TIMBER FRAMING TO HAVE A MINIMUM PROTECTIVE TREATMENT OF H2 OR T2.
- EXTERNAL TIMBER TO BE EITHER HARDWOOD DURABILITY CLASS I OR II AS PER AS1720 OR IMPREGNATED PINE, PRESSURE TREATED TO AS1604. SUPPLEMENTARY TREATMENT TO BE APPLIED TO ALL SITE CUT SURFACES.
- ROOF TRUSSES DESIGNED BY THE MANUFACTURER SHALL BE TO THE RELEVANT STANDARDS. DRAWINGS TO BE SUBMITTED TO THE ENGINEER CLEARLY INDICATING THE LOADS THAT ARE IMPOSED ON THE STRUCTURE.

TIMBER NOTES CONT'D

- ALL BOLTS TO BE MINIMUM M16 4.6/S, WITH WASHER AT LEAST 2.5 x BOLT DIAMETER.
- ALL FASTENERS TO BE HOT DIP GALVANISED.
- ALL CONNECTIONS AND BRACING TO BE CARRIED OUT IN ACCORDANCE WITH AS1684 AND AS1720.
- ALL WALLS SHALL BE 90 x 45 F7 AT 450mm CENTRES UNLESS NOTED OTHERWISE. PROVIDE DOUBLE STUDS OR 90 x 90 MGP10 POSTS UNDER THE ENDS OF ALL BEAMS, LINTELS, STRUTS AND TRUSSES UNLESS NOTED OTHERWISE.
- ALL LVL'S USED SHALL COMPLY WITH AS4357 AND BE INSTALLED AS PER THE MANUFACTURERS SPECIFICATIONS.
- ALL JOISTS WITH A DEPTH GREATER THAN 150mm SHALL HAVE BLOCKING OVER SUPPORT BEARERS AND AT A MAXIMUM OF 3M CENTRES.



0	21.04.20	FOR DA APPLICATION		<div><div>GZCONSULTINGENGINEERS</div><div>PTY LTD</div><div>A.B.N. 69 168 996 585 SUITE 3,1725 PITTWATER ROAD, MONA VALE 2103 P.O. BOX 121, NARRABEEN NSW 2101 PHONE - (02) 9979 5329 EMAIL - info@gzengineers.com.au GREG ZACCONE BEng MIEAust CPEng NER</div></div>	CLIENT	MARIKA JARV	TITLE	FRAMING PLANS	STATUS	PRELIMINARY			
					PROJECT & SITE	ALTERATIONS & ADDITIONS AT 87 WALLUMATTA ROAD, NEWPORT 2106			SCALE	DATE	DRAWN	DESIGN	SIGNED
									AS SHOWN	00.00.00	J.J	J.J	
									PROJECT No.		DRAWING No.		SHEET SIZE
									19128		S3		A2
REV	DATE	REVISIONS	SIGNED										