DRAWING TITLE

608881-S100 GENERAL NOTES SHEET 608881-S101 GROUND FLOOR SLAB PLAN AND DETAILS

ALTERATIONS AND ADDITIONS AT 25 MARETIMO STREET, BALGOWLAH

CONSTRUCTION NOTES

GENERAL NOTES

- Q1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS THAT MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCIES IN THESE DOCUMENTS SHALL BE REFERRED TO THE SUPERINTENDENT FOR A DECISION BEFORE PROCEEDING WITH THE WORK.
- G2. THE CONTRACTOR SHALL CHECK AND BE RESPONSIBLE FOR THE CORRECTNESS OF ALL DIMENSIONS AND ANY DISCREPANCY SHALL BE REPORTED IMMEDIATELY TO THE SUPERINTENDENT. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING FROM THE DRAWINGS.
- G3. STABILITY OF THE BUILDING DURING CONSTRUCTION AND EXCAVATION IN THE VICINITY OF ADJACENT BUILDINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, NO PART OF THE STRUCTURE SHALL BE OVER STRESSED, APPROVAL OF ALL PROPOSALS MUST BE GRANTED BY THE ARCHITECT PRIOR TO THE COMMENCEMENT OF WORK.
- BEFORE THE REINFORCEMENT IS COMPLETED. THE CONTRACTOR SHALL ALLOW TWO (2) HOURS AFTER THE COMPLETION OF THE REINFORCEMENT FOR THE ENGINEER'S INSPECTION, CONCRETE SHALL NOT BE ORDERED UNTIL THE REINFORGEMENT IS APPROVED BY THE ENGINEER. G6. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE

G4. THE CONTRACTOR SHALL NOTIFY THE ENGINEER FORTY EIGHT (48) HOURS

- requirements of the current saa codes, the by-laws and ORDINANCES OF THE RELEVANT BUILDING AUTHORITY AND THE
- G8. NO CHANGES SHALL BE MADE WITHOUT THE WRITTEN CONSENT OF THE
- GT. U.H.O. DENOTES UNLESS NOTED OTHERWISE ON THE DRAWINGS. G8. DESIGN LIVE LOADS:

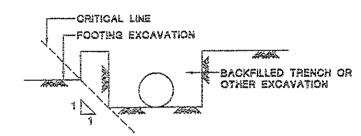
IN ACCORDANCE WITH AS/NZ1170.1 2002 NON-TRAFFICABLE ROOF FLOORS

0.25 kPa t.S kPa 2.6 kPs

FOUNDATIONS

GARAGE

- F1. FOUNDATIONS HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 160 kPs.
- F2. THE SITE HAS BEEN ASSUMED AS CLASS M IN ACCORDANCE WITH AS2870 TO BE CONFIRMED ON SITE.
- F3. UNLESS OTHERWISE APPROVED BY THE ENGINEER, NO EXCAVATION SHALL BE CARRIED OUT CLOSER TO FOOTINGS THAN A LINE EXTENDING DOWN FROM THEIR EDGE AT 45 DEGREES.



SITE PREPARATION

- SP1. REMOVE TOP SOIL, ROOT AFFECTED SOIL, FILL AND OTHER DELETERIOUS MATERIAL TO EXPOSE NATURAL SUBGRADE.
- SP2. THE EXPOSED SUBGRADE SHOULD THEN BE PROOF ROLLED WITH AT LEAST EIGHT (8) PASSES OF A 6 TONNE MINIMUM DEAD WEIGHT ROLLER. ANY SOFT OR HEAVING AREAS SHOULD BE REMOVED TO A MAXIMUM DEPTH OF 300mm AND REPLACED WITH CLEAN WELL GRADED MATERIAL SUCH AS RIPPED OR CRUSHED SANDSTONE COMPACTED TO AT LEAST 98% OF STANDARD MAXIMUM DRY DENSITY (SMDD) AT 22% OPTIMUM
- MOISTURE CONTENT IN ACCORDANCE WITH AS1289. SP3. COMPACTED FILL SHOULD BE PLACED IN LAYERS NOT EXCEEDING 150mm THICK AND COMPACTED TO AT LEAST 88% SMDD. FILL SHALL CONSIST OF CLEAN WELL GRADED MATERIAL SUCH AS RIPPED OR CRUSHED

C1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT SAA CODE AS3600, WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.

ELEMENT	SLUMP (MAX)	MAX AGG. SIZE	CEMENT TYPE	ADMIX.	CONCRETE GRADE
PAD FOOTINGS / PIERS	80	20mm	A	N/A	25 MPa
SLABS ON GROUND (INTERNAL	eo	20mm	A	N/A	25 MPa
SLABS ON GROUND (EXTERNAL)	80	20mm	A	N/A	26 MPa

SUSPENDED CONCRETE FLOORS AND GROUT FILLING OF REINFORCED BLOCK WALLS :-MIN. CEMENT CONTENT - 300 kg/m3

MAX. PERMISSIBLE DRYING SHRINKAGE = 600 MICROSTRAIN AT 58

C3. CLEAR CONCRETE COVER IN mm TO REINFORCEMENT U.N.O. SHALL BE AS FOLLOWS:-

	REINFORCEMENT COVER				
STRUCTURAL ELEMENT	INTERNAL		EXTERNAL		
	ТОР	втм.	ТОР	ВТМ.	
FOOTINGS	-	_	50	50	
SLABS ON GROUND	30	30	40	40	

- 1. CONCRETE POURED OVER A MEMBRANE ON THE GROUND IS INCLUDED AS INTERNAL
- 2. CONCRETE EXPOSED TO CORROSIVE VAPOURS, CORROSIVE GROUND WATER, SEA WATER OR SPRAY IS TO HAVE REINFORCEMENT COVER AS NOTED ON THE DRAWINGS.
- 3. CONCRETE REQUIRING A FIRE RESISTANCE RATING SHALL HAVE REINFORCEMENT COVER AS NOTED ON THE DRAWINGS.
- EXTERNAL ABOVE GROUND ELEMENTS ARE CLASSIFIED IN NEAR
- C4. CONDUITS, PIPES, ETC., SHALL NOT BE PLACED IN THE CONCRETE COVER TO REINFORCEMENT AND NO HOLES OR CHASES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE ALLOWED WITHOUT THE PRIOR APPROVAL OF THE SUPERINTENDENT.
- C5. CONCRETE SIZES DO NOT INCLUDE THE THICKNESS OF APPLIED FINISHES. THE DEPTH OF BEAMS IS GIVEN FIRST AND INCLUDES THE SLAB
- CONSTRUCTION JOINTS, WHERE NOT SHOWN, SHALL BE LOCATED TO THE
- APPROVAL OF THE SUPERINTENDENT. CO. FORMWORK SHALL REMAIN IN POSITION FOR THE TIME SPECIFIED. WHERE SLABS AND BEAMS ARE TO SUPPORT MASONRY OVER, FORMWORK AND PROPS MUST BE REMOVED PRIOR TO THE CONSTRUCTION OF MASONRY.
- NOT BE USED TO SPREAD CONCRETE. C10. CONCRETE SHALL BE CURED IN ACCORDANCE WITH AS3800 WITH A PRODUCT COMPATIBLE WITH THE APPLIED FINISHES, CURING COMPOUNDS SHALL COMPLY WITH AS3799. PVA BASED CURING COMPOUNDS ARE NOT

C9. ALL CONCRETE SHALL BE MECHANICALLY VIBRATED, THE VIBRATOR SHALL

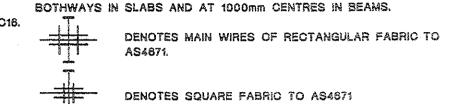
ACCEPTABLE C11. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY, IT IS NOT

ON THE STRUCTURAL DRAWINGS.

- NECESSARILY SHOWN IN TRUE PROJECTION. C12. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS SHOWN
- C13. SPLICES IN THE MAIN REINFORCEMENT SHALL BE MADE ONLY IN THE POSITIONS SHOWN. SPLICES IN THE DISTRIBUTION REINFORCEMENT MAY BE POSITIONED AS NECESSARY WITH SPLICES OF SUFFICIENT LENGTH TO DEVELOP THE FULL STRENGTH OF THE BARS. MINIMUM LAPS TO FABRIC SHALL BE TO OVER LAP TWO CROSS WIRES PLUS 50mm U.N.O. REINFORCEMENT SHALL BE SECURELY TIED AT ALL LAPS AND INTERSECTIONS WITH 1.25mm BLACK ANNEALED WIRE. THE WRITTEN APPROVAL OF THE SUPERINTENDENT SHALL BE OBTAINED FOR OTHER SPLICES WHERE THE LAP LENGTH IS NOT SHOWN, IT SHALL DEVELOP THE FULL STRENGTH OF THE REINFORCEMENT.

CONCRETE CONT'D

- C14. ALL UNSUPPORTED BARS SHALL BE TIED IN A TRANSVERSE DIRECTION WITH N12-300 U.N.O.
- C15. REINFORCEMENT SHALL BE SUPPORTED ON APPROVED PLASTIC OR PLASTIC TIPPED WIRE STOOLS AT NOT MORE THAN SOOMM CENTRES



- SL..... DENOTES GRADE 500 DEFORMED WIRE REINFORCING SQUARE FABRIC OF DUCTILITY CLASS L TO AS4671.
- RL..... DENOTES GRADE 500 DEFORMED WIRE REINFORCING RECTANGULAR FABRIC OF DUCTILITY CLASS L TO AS4671.
- R DENOTES GRADE 250 ROUND BARS OF DUCTILITY CLASS N TO
- N DENOTES GRADE 500 DEFORMED BARS OF DUCTILITY CLASS N 70
- S DENOTES GRADE 250 DEFORMED BARS OF DUCTILITY CLASS N TO
- C17. FABRIC SHALL BE SUPPLIED IN FLAT SHEETS, ROLLS WILL NOT BE
- ACCEPTED C18. TYPICAL REINFORCEMENT NOTATION:-
- 6N24-200 INDICATES
- 5 DENOTES NUMBER OF BARS REQUIRED N DENOTES GRADE OF REINFORCEMENT
- 24 DENOTES BAR DIAMETER IN MILLIMETRES 200 ... DENOTES BAR SPACING IN MILLIMETRES
- TYPICAL ABBREVIATIONS:-
- B DENOTES BARS IN BOTTOM LAYER T DENOTES BARS IN TOP LAYER
- ALT ... DENOTES BARS ALTERNATING
- NF ... DENOTES BARS IN NEAR FACE

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150mm A1 ON ORIGINAL

- FF DENOTES BARS IN FAR FACE EF DENOTES BARS IN EACH FACE C19. FOR SLAB FALLS, CHAMFERS, REGLETS, DRIP GROOVES, ETC., REFER TO
- THE ARCHITECT'S DRAWINGS.
- C20. LAP LENGTHS FOR DEFORMED BARS AS FOLLOWS:

BAR TYPE AND SIZE	VERTICAL BARS	HORIZONTAL BARS WITH MORE THAN 300mm OF CONCRETE BELOW BAR	OTHER LOCATIONS	TENGTH
N12	500	650	500	200
N16	700	800	700	200
N20	1000	1250	1000	250
N24	1200	1500	1200	300
N28	1400	1750	1400	350
N32	1600	1900	1600	400
N38	1700	2200	1700	450

BRICKWORK AND BLOCKWORK

- B1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT CODE ASSTOR EXCEPT WHERE VARIED BY THE CONTRACT
- B2. STRENGTHS OF BRICKS, CLASS OF BLOCKS AND TYPE OF MORTAR IPORTLAND CEMENT : HYDRATED LIME : SAND) SHALL BE AS FOLLOWS:-

ELEMENT	MATERIAL	STRENGTH OR CLASS (C)	MORTAR TYPE CEMENT:LIME:SAND
BUILDING BRICKWALLS • BRICK RETAINING WALLS	GLAY BRICKS	COMPRESSIVE STRENGTH 1'u0 = 20 MPa CONFORMING TO AS/NZS 4455	1:1:6

- the Characteristic Expansion of Brickwork Shall Not
- B3. THE TOP TWO (2) COURSES OF BRICKS SHALL BE LAID WITH BRICK
- REINFORCEMENT IN THE JOINTS. B4. WHEREVER BRICKWALLS ARE BUILT OFF CONCRETE SLABS, WITH THE EXCEPTION OF THE EXTERNAL OUTER SKIN OF CAVITY WALLS, THEY SHALL BE LAID ON A LIGHT GAUGE BUILDING PAPER TO PERMIT FREE
- MOVEMENT OF THE SLAB IN RELATION TO THE BRICKWORK. 86. WHERE WALLS ARE NON-LOAD BEARING, AT EITHER HORIZONTAL OR VERTICAL FACES, THEY SHALL BE SEPARATED AS SPECIFIED BY THE
- BS. NO HOLES OR CHASES SHALL BE CUT INTO LOADBEARING BRICKWORK OR BLOCKWORK WITHOUT THE PRIOR APPROVAL OF THE ARCHITECT'S
- REPRESENTATIVE. 87. WHEREVER INTERNAL BRICK OR BLOCK WALLS ABUT STEEL COLUMNS. PROVIDE GALVANISED CRIMPED FRAME TIES AT FOUR (4) COURSE
- VERTICAL CENTRES FOR BRICKWORK AND 2 COURSE VERTICAL CENTRES FOR BLOCKWORK, USE MASONRY EXPANSION TIE (M.E.T.) 1-6 300 LONG, POWER FIXED WITH 3.8 DIA. DRIVE PINS. BB. EXTERNAL CAVITY TIES SHALL BE PROVIDED AT SPACINGS IN
- ACCORDANCE WITH THE SAA CODE AND SHALL BE M.E.T. 2-1 HEAVY DUTY HOT DIPPED GALVANISED CAVITY TIES IN FULL BRICK CONSTRUCTION AND M.E.T. 1-5 HEAVY DUTY HOT DIPPED GALVANISED CAVITY TIES IN BRICK VENEER CONSTRUCTION, TIE LENGTH TO SUIT CAVITY WIDTH.
- BS. VERTICAL CONTROL JOINTS IN CLAY AND SILICATE BRICK WALLS TO BE 12000mm MAXIMUM APART. WALL TIES, LINTELS, SHELF ANGLES, CONNECTIONS AND ACCESSORIES TO AS2689.

This is the plan/spec, referred to in Fitzgerald Certifiers Certificate Cert. No: cc 2009 1710

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