

DO NOT SCALE FROM DRAWINGS - USE ONLY FIGURED DIMENSIONS

1.0 GENERAL

- 1.1 These drawings shall be read in conjunction with the architectural and other consultants' drawings / specifications and with other such written instructions as may be issued during the construction. Any discrepancy shall be referred to the Engineer before commencing the work.
- 1.2 All dimensions are in millimeters, UNO (unless noted otherwise).
- 1.3 These drawings shall not be scaled, refer to dimensions given only or refer to the Architectural drawings.
- 1.4 All levels and setting out dimensions shown on the drawings shall be checked on site prior to the commencement of the work.
- 1.5 During construction the structure shall be maintained in a stable condition with no part being overstressed with temporary bracing installed as required.
- 1.6 The engineer shall approve any proposed substitution prior to the commencement of work.

2.0 LOADING

- 2.1 Superimposed loads are in accordance with AS 1170.1 or as shown in note L4.
- 2.2 Wind loads are in accordance with AS 1170.2 as follows:  
Region : A Basic Wind Velocity, Vp : 41 m/s Category : N2 (W33)
- 2.3 Earthquake loads are in accordance with AS 1170.4 as follows:  
a = 0.08 S = 1.0 I = 1.0
- 2.4 Element superimposed loading:

Element	Live Load (kPa)	Dead Load (kPa)
Floors - Internal	1.50	-
Floors - External & Garage	3.00	-
Roof Areas	0.25	-

- 2.5 Assumed site soil classification is: Class M (Moderately Reactive Clay)

3.0 EARTHWORKS

- 3.1 The earthworks shall be carried out in accordance with the geotechnical report reference by
- 3.2 The site shall be stripped a minimum depth of 150 mm under pavements and buildings to remove the topsoil. Any remaining uncontrolled fill material, organic material, refuse or roots shall be removed.
- 3.3 The subgrade shall be inspected and approved by the geotechnical engineer.
- 3.4 The excavated subgrade shall be proof rolled a minimum of six (6) passes using a vibrating drum roller with a minimum deadweight of 10 tonnes. Any soft, wet and unsuitable spots shall be removed and reinstated using approved material.
- 3.5 The subgrade shall be compacted to not less than 100% standard dry density ratio within ±2% of the optimum moisture content in accordance with AS1289.
- 3.6 Where fill is required to achieve subgrade level it shall be approved ripped sandstone having a maximum particle size of 75 mm. It shall be placed in loose layers no thicker than 300 mm and compacted to not less than 100% standard dry density ratio within ±2% of the optimum moisture content in accordance with AS1289.
- 3.7 If a vibrating type roller is used, consideration shall be given to the effects on adjacent properties.
- 3.8 All batters shall be a minimum of 1:2 for temporary batters and 1:4 for final batters in clay material.
- 3.9 All filling shall be under the supervision of the project geotechnical engineer who shall provide compaction certificates to the engineer for approval.

4.0 FOUNDATION MATERIAL

- 4.1 Strip & pad footings have been designed for an allowable end bearing value of 150 kPa in stiff clay material.
- 4.2 Bored piers have been designed for an allowable end bearing value of 500 kPa & a skin friction of 50 kPa off rock.
- 4.3 The foundation material shall be inspected & approved in writing by the geotechnical engineer for the above allowable bearing capacities.
- 4.4 Slabs on ground have been design for a CBR of 5 in accordance with the Cement & Concrete Association Industrial Floors & Pavement Handbook.
- 4.5 Footings shall be located centrally under walls & columns UNO.

5.0 REINFORCED CONCRETE

- 5.1 All workmanship and materials shall be in accordance with AS 3600, except where varied by the project documentation.
- 5.2 Concrete quality shall be as follows (subject to note C4 being satisfied):

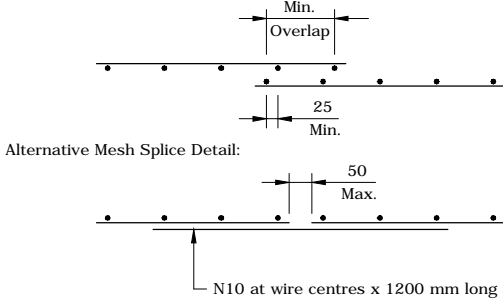
Element	Slump (mm)	Maximum Aggregate size (mm)	Cement Type	Strength 28 Days (MPa)	Admixture
Footings	80	20	Normal		-
Bored Piers & Pile Caps	80	20			-
Floor Slabs on Ground	80	20			-
Suspended Floor Slabs	80	20	Type A		-
Hollowcore Floor Slabs	80	20			-
Walls & Columns	80	20			-

- 5.3 The engineer shall approve any admixtures to be used in the concrete mix.
- 5.4 The clear concrete cover to all reinforcement shall be as follows, UNO:

Exposure Classification to AS 3600	Strength 28 Days (MPa)	Against Formwork		Against Ground	
		Interior Surface	Exterior Surface	With Membrane	With No Membrane
A1	20	20	30	30	50
A2	25	40	30	40	50
B1	32	40	40		
B2	40	45	45		

- 5.5 Cover to reinforcement shall be obtained by the use of approved bar chairs placed at maximum 750 mm centers in each direction.
- 5.6 All concrete shall be mechanically vibrated and the vibrators SHALL NOT be used to spread the concrete.
- 5.7 Sizes of the concrete elements do not include thickness of the applied final finishes.
- 5.8 Approval shall be obtained from the engineer prior to the drilling of any holes or cutting in of any chases other than those shown on the structural drawings.
- 5.9 Construction joints where not shown on the structural drawings shall be located in accordance with the engineers approval.
- 5.10 Curing of all concrete is to be achieved by keeping surfaces continuously wet for a period of 7 days (10 days in summer months), and prevention of loss of moisture for a total of 10 days followed by gradual drying out. Approved sprayed on compounds complying with AS3799 may be used provided that they do not interfere with the performance of the proposed floor finishes. Polythene sheeting or wet hessian may be used if protected from wind and traffic.
- 5.11 The suspended slabs shall be propped until 28 day strength has been achieved for slabs. The formwork may be removed once 20 MPa strength has been achieved, however the slab will need to be back propped until 28 day strength has been achieved. No masonry or partition walls are to be constructed on suspended levels until all propping is removed.
- 5.12 Conduits, pipes, etc. shall only be placed in the middle third of the slab depth and spaced at not less than 3 diameters. They shall not be placed within the cover of the reinforcement.
- 5.13 Reinforcement symbols:  
S - Denotes grade 250 S bars to AS1302.  
N - Denotes grade 500 normal ductility deformed bars to AS4671.  
R - Denotes grade 250 normal ductility round bars to AS4671.  
SL - Denotes grade 500 low ductility square welded mesh to AS4671.  
RL - Denotes grade 500 low ductility rectangular welded mesh to AS4671.  
L - Denotes grade 500 low ductility trench welded mesh to AS4671.
- 5.14 Reinforcement is represented diagrammatically and is not necessarily shown in true projection.
- 5.15 Splices in reinforcement shall be made only in positions shown or otherwise approved by the engineer.
- 5.16 Laps and cogs shall be in accordance with AS3600 and not less than the below:
- |     | Minimum Splice Lengths | Minimum Overall Cog Lengths |
|-----|------------------------|-----------------------------|
| N12 | 400 mm                 | 200 mm                      |
| N16 | 600 mm                 | 225 mm                      |
| N20 | 800 mm                 | 275 mm                      |
| N24 | 1100 mm                | 325 mm                      |
| N28 | 1400 mm                | 375 mm                      |

- 5.17 Site bending of deformed reinforcing bars shall be done without heating and using mechanical bending tools.
- 5.18 Welding of the reinforcement shall not be permitted unless shown on the structural drawings or approved by the engineer.
- 5.19 Joggles to the bars shall be 1 bar diameter over a length of 12 bar diameters.
- 5.20 Bundled bars shall be tied together at 30 bar diameter centers with 3 wraps of tie wire.
- 5.21 Mesh shall be lapped 2 transverse wires plus 25 mm.



6.0 FORMWORK

- 6.1 All workmanship and materials shall be in accordance with AS 3610 & AS3600, except where varied by the project documentation.
- 6.2 The design certification & the performance of the formwork shall be the responsibility of the contractor.
- 6.3 During construction support propping shall be required where there are loads from stacked materials, formwork & other supported slabs. Once the concrete has achieved its nominated 28 day strength, the imposed loads shall not exceed those given in the loading table.
- 6.4 With multistory construction, it is expected that support propping will extend a minimum of 3 levels below the slab being poured. Prop removal is to be programmed so as not to overstress previously cast floors and shall be submitted to the engineer for approval.
- 6.5 The suspended slabs shall be propped until 28 day strength has been achieved for slabs. The formwork may be removed once 20 MPa strength has been achieved, however the slab will need to be back propped until 28 day strength has been achieved. No masonry or partition walls are to be constructed on suspended levels until all propping is removed.
- 6.6 All exposed corners shall have a 20 mm chamfer, UNO.
- 6.7 All finishes shall be in accordance with the architectural specification.

7.0 PERMANENT METAL FORMWORK

- 7.1 The permanent metal formwork shall be installed in accordance with the manufacturers recommendations and shall NOT be substituted from the product specified without written approval from the engineer.
- 7.2 The permanent metal formwork shall be suitably propped.
- 7.3 The permanent metal formwork shall not be spliced or joined midspan.
- 7.4 The permanent metal formwork shall have a minimum end bearing of 50 mm.
- 7.5 The permanent metal formwork shall be fixed to the supporting structure with spot welds or fasteners, there shall be a minimum of 1 fixing per sheet to the support each end adjacent to the side lap.

- 7.6 The permanent metal formwork may need to have the side lap fastened together midspan, this shall be carried out in accordance with the manufacturers recommendations.

8.0 HOLLOWCORE FLOOR PLANKS & WALL PANELS

- 8.1 All workmanship & materials shall be in accordance with AS3600.
- 8.2 The 28 day concrete strength shall be a minimum of 40 MPa.
- 8.3 The prestressing steel shall be stress relieved low relaxation strand in accordance with AS1311.
- 8.4 The floor plank topping shall be with 32 MPa concrete or as shown on the drawings. If the topping concrete is used to grout the keyways then the concrete shall have a maximum aggregate size of 10 mm.
- 8.5 The concrete topping thickness and reinforcement shall be as noted on the plans & sections.
- 8.6 The hollowcore planks & panels shall be lifted & supported only at the nominated lifting points.
- 8.7 The hollowcore floor planks shall be installed in accordance with the manufacturers specifications & workshop drawings.
- 8.8 The structure shall be maintained in a stable condition during the erection of the floor planks or wall panels with temporary bracing provided as required.
- 8.9 All keyways shall be aligned & grouted with a 3:1 sand : cement mix or approved concrete topping mix. Ensure that all keyways are properly filled.
- 8.10 Any proposed penetrations &/or chases will require the manufacturers and engineers approval prior to work being carried out.
- 8.11 A minimum of two (2) copies of all workshop drawings shall be supplied to the engineer for approval.

9.0 MASONRY

- 9.1 All workmanship and materials shall be in accordance with AS 3700.
- 9.2 The design strength of masonry shall be:

Exposure Classification to AS 3600	Brick Compressive Strength (MPa)	Brick Salt Resistance Grade	Durability Classification Of Built In Components	Mortar Mix	
				GP Portland e Cement:Lime: Sand	f <sub>c</sub> (MPa)
A1 / A2	20	General	R3	1.0 : 1.0 : 6.0	2.8
B1	20	Purpose	(Galvanised)	1.0 : 1.0 : 6.0	2.8
B2	20	Exposure	R4 (Stainless)	1.0 : 0.5 : 4.5	2.8

- 9.3 All masonry walls supporting concrete slabs and beams shall have a slip joint comprising of two layers of galvanized steel in between the concrete and masonry.
- 9.4 All masonry walls supporting or supported by concrete floors shall be have vertical joints located to match any control / construction joints in the concrete.
- 9.5 Do not construct any masonry walls on suspended slabs until the slab formwork has been stripped and de-propped.
- 9.6 Non load bearing masonry walls shall be separated from concrete slab or beam above by 20 mm thick compressible filler.
- 9.7 Provide vertical control joints at 8 meters maximum centers, and 4 meters maximum from corners in masonry walls, and between new & existing brickwork. The joint shall have expansion joint ties and suitably sealed with a mastic sealant.
- 9.8 Masonry retaining walls are to be back filled with either of the following material:  
- Coarse grained soil with low silt content  
- Residual soil containing stones  
- Fine silty sand  
- Granular materials with low clay content

10.0 BLOCKWORK

- 10.1 All workmanship and materials shall be in accordance with AS 3700.
- 10.2 Reinforced concrete blockwork shall comply with the following, UNO:  
- Blocks: Minimum 10 MPa unconfined compressive strength conforming to AS4455.  
- Mortar: 1.0 : 1.0 : 6.0 ratio of cement : lime : sand UNO.  
- Blocks shall be either 'H' or 'Double-U' configuration.  
- Provide cleanout holes at the base of the wall & rod core holes to remove excess mortar.  
- Core filling shall be 20 MPa concrete with maximum 10 mm aggregate size with a maximum slump of 120 ±20 mm.  
- Minimum cover of 55 mm from the outside of the blockwork.
- 10.3 Blockwork retaining walls are to be back filled with either of the following material:  
- Coarse grained soil with low silt content  
- Residual soil containing stones  
- Fine silty sand  
- Granular materials with low clay content
- 10.4 Vertical control joints shall be provided at maximum 8000 mm centers. They shall be reinforced with N20-400 dowels 600 mm long. One end shall be greased & capped.
- 10.5 No admixtures shall be used to the mortar mix or the core fill mix without prior written consent from the engineer.

11.0 STRUCTURAL STEELWORK

- 11.1 All workmanship and materials shall be in accordance with AS 4100 and AS/NZS 4600.
- 11.2 The structural design has been based on the following steel grades, UNO:  
Hot rolled universal beams, columns, channels & angles: 300PLUS  
Circular, square & rectangular hollow sections: C350/C450LO  
Cold formed open DuraGal profiles: C350/C450LO  
Cold formed lipped Cee & Zed purlins: G550/G500/G450
- 11.3 The structural design has been based on MBPMA nominal size Cee & Zed lipped purlins.
- 11.4 Qualifications of welding procedures and personnel shall conform to Section 4 of AS 1554.1. Non destructive testing of welds shall include 100 % visual inspection and additional testing as shown on the drawings.
- 11.5 All welds shall be 6 mm continuous fillet type SP, UNO. All butt welds shall be complete penetration in accordance with AS 1554.1, UNO.

- 11.6 Bolt designation:  
4.6/S Commercial bolts to AS 1111, snug tightened.  
8.8/S High strength structural bolts to AS 1562, snug tightened.  
8.8/TB High strength structural bolts to AS 1562, fully tensioned bearing joint.  
8.8/TF High strength structural bolts to AS 1562, fully tensioned friction joint.

- 11.7 All bolts shall be M20 8.8/S, with a minimum of 2 bolts per connection, UNO.
- 11.8 Fin plates shall be a minimum of 10 mm thick, grade 300PLUS steel, UNO.
- 11.9 Concrete encased steelwork shall be wrapped with SL62 mesh and shall have a minimum of 50 mm cover, UNO.

- 11.10 Steelwork not encased in concrete shall have the following surface treatment :

Exposure Classification to AS 3600	Steelwork Protection Required
A1 / A2	Power tool clean to AS1627 Class 1 1 Coat Alkyd Primer (Zinc Phosphate)
B1	Abrasive blast to AS1627 Class 2.5 1 Coat Inorganic Zinc Silicate
B2	Hot Dipped Galvanised to AS1650

- 11.11 Where sealed tube members are hot dip galvanized, the fabricator shall provide drill holes as necessary to allow gases to escape.
- 11.12 All transport and erection damage, site welds etc., shall be reinstated to an equivalent finish to adjacent steelwork.
- 11.13 A minimum of two (2) copies of all workshop drawings shall be supplied to the engineer for approval.

12.0 PRECAST PANELS

- 12.1 All workmanship and materials shall be in accordance with AS 3600.
- 12.2 The precast panel concrete strength at 28 days shall be a minimum of 40 MPa. The concrete shall be a minimum of 20 MPa before removal from molds.
- 12.3 Dimensions shown are final concrete sizes and additional concrete must be provided to allow for loss of structural thickness due to surface treatment, etc.
- 12.4 Panel structural thickness shall be as noted.
- 12.5 Refer to the architectural drawings for dimensions, rebates, etc.
- 12.6 All metal work and cast-in ferrules shall be hot dipped galvanized which are exposed to the external environment.
- 12.7 All cast-in ferrules shown on the drawings are to remain sealed until the erection of the panel and shall not be used for lifting.
- 12.8 Lifting ferrules are the contractors responsibility & extra reinforcement needs to be provided in accordance with manufacturers recommendations.
- 12.9 Concrete cover shall be in accordance with structural drawings.
- 12.10 Fabric in the panels shall be one sheet, no lapping is permitted unless shown on the structural drawings.
- 12.11 Penetrations for services shall be neat formed holes, hole boring is not permitted.
- 12.12 Temporary steel packers may be used under the panels provided they have a minimum of 50 mm cover from the concrete slab or grout.
- 12.13 A minimum of two (2) copies of all workshop drawings shall be supplied to the engineer for approval. The shop drawings shall show all cast-in inserts.

13.0 TIMBER

- 13.1 All workmanship and materials shall be in accordance with AS 1684 and AS1720.
- 13.2 AS1684 shall be applied to domestic construction in sheltered locations.
- 13.3 Softwood to be a minimum of F7 and hardwood to be a minimum of F17 UNO.
- 13.4 External timber shall be either hardwood durability class I or II as per AS1720 or impregnated pine grade F7, pressure treated to AS1604 and re-dried prior to use. Supplementary treatment shall be applied to all cut surfaces.
- 13.5 Two (2) copies of timber truss shop drawings shall be submitted to the engineer for approval, clearly indicating design loads and point loads applied to the structure.
- 13.6 All bolts in timber construction shall be M16 4.6/s UNO. Washers under heads and nuts shall be at least 2.5 times the bolt diameter.
- 13.7 All timber joints and notches shall be a minimum of 100 mm away from loose knots, severe sloping grain, gum veins or other minor defects.

14.0 FOUNDATION MAINTENANCE

- 14.1 All soils are affected by water. Silts are weakened by water and some sands can settle if heavily watered, but most problems arise on clay foundations. Clays swell and shrink due to changes in moisture content and the potential amount of the movement is implied in the site classification in Australian Standard AS2870, which is specified as follows:  
A Stable (Non-reactive). S Slightly Reactive.  
M Moderately Reactive. H Highly Reactive.  
E Extremely Reactive.
- 14.2 All sites shall be maintained at essentially stable moisture conditions and extremes of wetting and drying prevented. This will require attention to the following.
- 14.3 Site drainage: The site shall be graded or drained so that water cannot pond against or near the house. The ground immediately adjacent to the house shall be graded to a uniform fall of 50 mm minimum away from the house over the first meter. The sub floor space for houses with suspended floors shall be graded or drained to prevent ponding. The site drainage requirements shall be maintained.
- 14.4 Gardens: The gardens shall not interfere with the drainage requirements or the sub floor ventilation and weep hole drainage systems. Garden beds adjacent to the house should be avoided. Over watering of gardens close to the house shall be avoided.
- 14.5 Restrictions on trees / shrubs: Planting of trees shall be avoided near the footings of a house or neighboring house on reactive sites as they can cause damage due to drying of the clay. To minimize the possibility of damage, tree planting should be restricted to a distance from the house of :  
1.50 x mature height for Class E sites  
1.00 x mature height for Class H sites  
0.75 x mature height for Class M sites
- 14.6 Where rows or groups of trees are involved, the distance from the building should be increased. Removal of trees from the site can also cause similar problems.
- 14.7 Repair of leaks : Leaks in plumbing, including storm water and sewerage drainage should be repaired promptly.

A3 ORIGINAL SIZE

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REV.	AMENDMENT DESCRIPTION		DATE

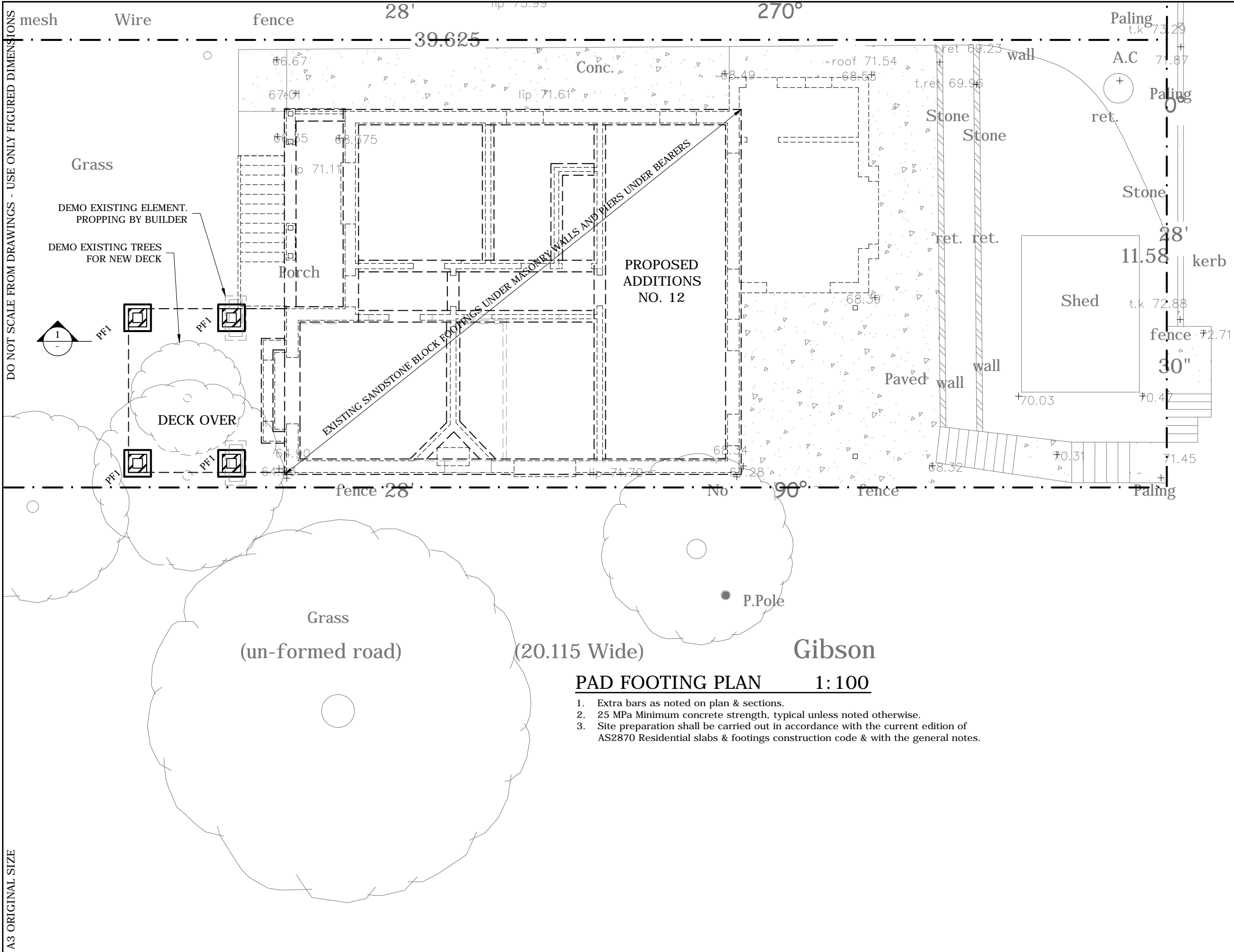
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CLIENT:  
**MR & MRS MOLONEY**  
PROJECT NAME:  
**PROPOSED ALTERATIONS AT  
12 BROWN STREET  
BRONTE NSW 2024**

DRAWING TITLE: General Notes			
SCALE: As Noted	DATE: 9 Dec 2015	DESIGN: CA	REV: 0
PROJECT: <b>15.026</b>	DRAWING: <b>S1</b>	SIGNED:	

10  
9  
8  
7  
6  
5  
4  
3  
2  
1  
0.5  
mm



**DESIGN CRITERIA:**  
Site Soil Classification = M  
Construction Type = (Existing) Full  
Masonry & Brick  
Veneer Rear  
Additions

**EXPOSURE CLASSIFICATION:**  
Interior Surfaces = A1  
Exterior Surfaces = B2

**NEW COLUMN NOTE:**  
All new columns shall be founded off existing footings to engineer's approval, else new pad footing (450mm SQ x 500mm deep) shall be installed.

**CERTIFICATION NOTE:**  
For final certification required for a 'Certificate of Occupancy' site inspections will be required to confirm the standard of building during construction. We recommend the Builder and owner confirm with the Certifier (Private or Council) prior to construction commencing, if we (the engineer) is required to certify the standard of construction as a requirement of the Occupancy Certificate being released by the Certifying Authority. We also recommend the client and Builder confirm if the PCA has the qualification necessary to sign off on projects. We request this information is passed on to us prior to the construction commencing. We recommend we are requested to inspect all structural elements and foundation material. Foundation material is best confirmed after excavation prior to reinforcement being tied. A certificate of compliance with our design would be issued in relation to the items inspected. Please note, we cannot certify elements using photographs or after the construction is completed when all the elements are concealed.  
At a minimum we recommend the following inspections:

- all foundation bearing materials
- all steel reinforcing
- all structural framing prior to sheeting
- any underpinning prior to undermining and prior to pouring.

A3 ORIGINAL SIZE

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A	GENERAL REVISIONS	15.12.15
REV.	AMENDMENT DESCRIPTION	DATE

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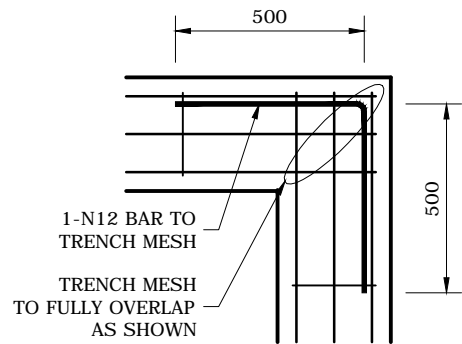
A.B.N. 54 000 605 407  
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BUILDERS LICENCE NO. 5519

CLIENT:  
**MR & MRS MOLONEY**  
PROJECT NAME:  
**PROPOSED ALTERATIONS AT  
12 BROWN STREET  
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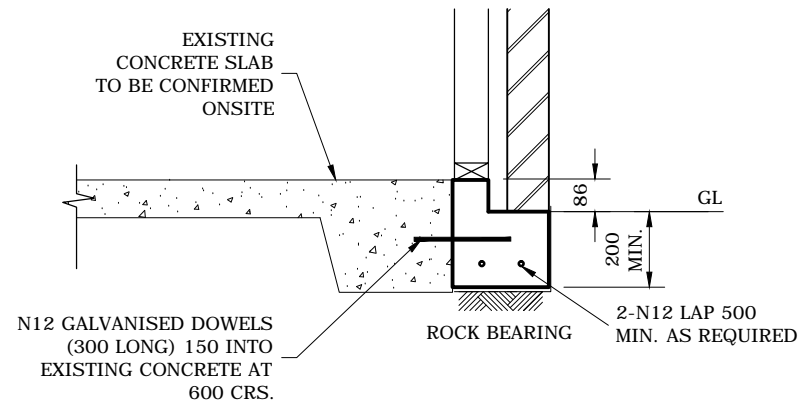
DRAWING TITLE: <b>Pad Footing Plan</b>			
SCALE: As Noted	DATE: 9 Dec 2015	DESIGN: CA	REV: A
PROJECT: <b>15.026</b>	DRAWING: <b>S2</b>	SIGNED:	



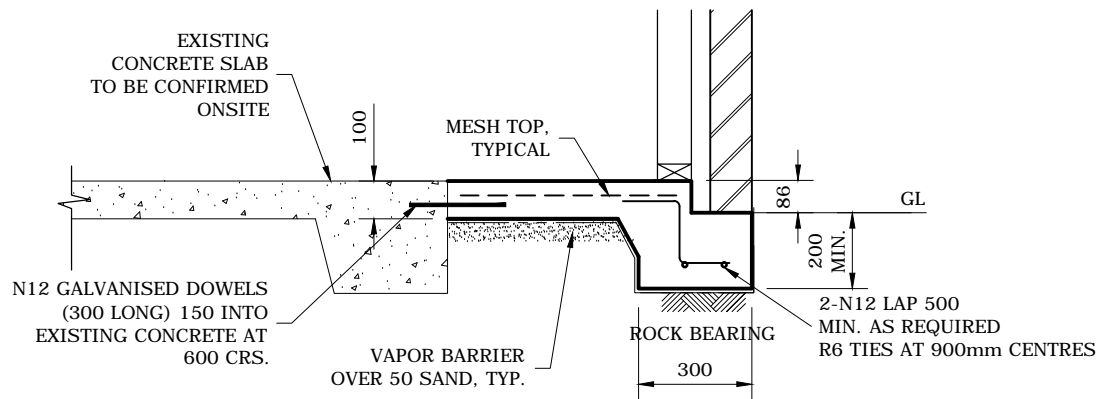




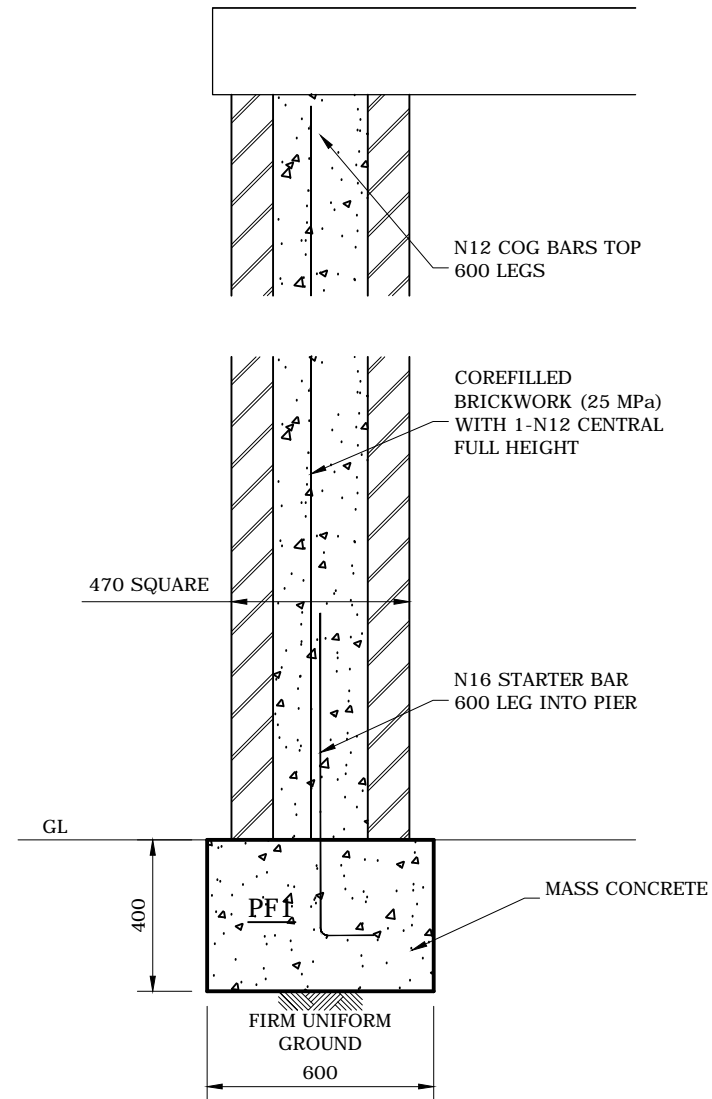
FOOTING CORNER DETAIL 1:20



EDGE BEAM DETAIL 'EB1' 1:20



EDGE BEAM DETAIL 'EB2' 1:20



PAD FOOTING 'PF1' DETAIL 1:20

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B	GROUND FLOOR SLAB EXTENDED	7.03.16
A	GENERAL REVISIONS	15.12.15
REV.	AMENDMENT DESCRIPTION	DATE

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CLIENT:  
**MR & MRS MOLONEY**  
PROJECT NAME:  
**PROPOSED ALTERATIONS AT  
12 BROWN STREET  
BRONTE NSW 2024**

DRAWING TITLE: <b>Details - Sheet 2</b>			
SCALE: As Noted	DATE: 9 Dec 2015	DESIGN: CA	REV: B
PROJECT: <b>15.026</b>	DRAWING: <b>S5</b>	SIGNED:	