Proposed Fire Escapes

Pygmy Possum Lodge, Charlotte Pass

- 1 These structural drawings are to be used for structural must be referred to the engineer for clarification architectural details are to be inferred from these drawings.

 2. The drawn details are to be read in conjunction with all detail. Any discrepancy between notes, text and/or details notes provided herein and all text which accompanies such works purposes only. They are to be read in conjunction with all other project disciplines drawings. No other trade or
- report any discrepancies to both architect and engineer.

 5. The drawings are provided showing the works in a carried out according to these drawings and should be hased on architectural information. The builder is to in accordance with the relevant building codes and Australian standards as required by the certifying authority completed state only. No inference is to be made regards coordinate these drawings with architectural set out and Any dimensions, whether scaled or written, are provided for information only. Works dimensional set out is not to be for all construction methods and techniques which are All works related to these drawings are to be carried out ruction methods. The builder retains sole responsibility
- mitigation. As the builder is responsible for all construction methods and techniques, it remains the builders The structural design depicted in these drawings has been carried out with due regard to construction risk responsibility to ensure risk and safety management is

TEMPORARY BRACING

- The structure shown in these drawings has been detailed as stable in its final built condition.
 During construction.
- the structure shown in these drawings does not possess the stability required to be self supporting During construction, and at every stage until completion
- temporary bracing to all building elements during the construction process. This bracing must be installed such that all elements remain in a stable state and experience no It remains the responsibility of the builder to provide

WORKS INSPECTIONS

- Inspections will likely be required to allow as-built certification of the works by the engineer. The builder is to the certifying authority and engineer obtain such certification requirements through liaison with
- to ensure that the structural construction works generally minimum two working days notice to the contract engineer engineer takes no responsibility for any other job aspects detailed works compliance with the structural builder of their full responsibility to ensure complete and Any engineer inspection is carried out with the sole intent and any associated documentation in no way relieves the comply with the structural design. Inspections, the results of, the builder shall give a
- Where required inspections are not organised by the builder, the engineer takes no responsibility for any inability

DESIGN LOAD ALLOWANCES

Design loads have been allowed for in accordance with the relevant sections of AS/NZS 1170. Loads are based upon the occupancy types shown on the architectural drawings.

Floor Live Loads Superimposed Dead Load ypical Floor Sheet metal roofing Steel grating

Roof Live Loads Typical..... Typical...

Category N3 in accordance with AS4055.

Snow loads are accounted for in accordance with AS/NZS 1170.3 (Alpine, Sg = 20.0 kPa).

SITE PREPARATION & FOUNDATIONS

- 1. All site preparation, foundation and soil-related works are builder must confirm these parameters via liaison with a based upon assumed parameters inferred from site visit/s. The commencement of any construction works. The structural provided structural design should any works be undertaken engineer takes no responsibility for the suitability of the
- parameters used in structural design are:
- Allowable Bearing Capacity.
- prior to any works commencing confirmed by a suitably qualified geotechnical professional sub-soil type and the stated bearing capacity shall be accordance with the parameters above. This site class, All works shall be founded on a consistent sub-soil in
- the area in which the footings and/or slab are to rest. This is to be carried out to a depth as required to remove these of AS 2870 (refer AS 2870 Clause 1.1), then the design has been carried out in accordance with that code. The owner All topsoil, roots and organic matter shall be removed from undesirable materials to acceptable levels of cracking and/or foundation movement) allowances made under this code (particular attention is drawn should familiarise themselves with the footings performance
- authority conditions. Batters are to be provided to the direction in any case where this is a possibility adjacent structure. Advice should be sought from the engineer of a suitably qualified geotechnical professional. Temporary conditions. In no case are excavations to undermine any drainage is to be provided to ensure stability of batters in all
- back-filled under the supervision of a suitably qualified professional to achieve the required bearing capacity. Mass concrete filling is possible only at the discretion of the
- requirements of that code, possibly including but not limited to sand blinding, controlled filling, provision of vapour barriers, sloping of soils away from structure and protection of services, of AS 2870, further site preparation shall be carried out per the Where the structure is classified as being within the scope
- Footings and/or slabs are to be poured within 24 hours of centred under columns, walls and piers over. inspection and reinforcement approval under dry conditions. Unless noted otherwise, all footings and piers are to be
- 11. Retaining walls are not to be back filled until core filled and cured. At a minimum this is to be 7 days from point of core dewatering system is to be employed such as strip drains or geofabric with polymer drainage sheet connected to free flowing outlets. Walls are to be waterproofed where required details). Back fill is to be granular and free draining. A suitable filling and if required, the provision of top edge support (refer

- Per the information referred to in sub-clause 1, the site Site Classification.... S (to AS 2870)
- Sub-soil type. 300 kPa Wethrd Granite
- Where the structure is classified as being within the scope
- 6. Any excavation is to be carried out in accordance with
- Any over-excavation beyond required levels shall be

CONCRETE

All concrete materials and construction requirements ar be in strict accordance with AS 3600 and any associated

placement, 100mm for strip footings Maximum Aggregate Size Drying Shrinkage Strain 800 microns @ 56 Only by engineers

grooves, etc. minimum and are to be maintained at all chamfers, drip following table for respective structural elements. Covers clear cover to reinforcement are to be in accordance with

Piers/Strip Ftgs	Element
32 MPa	Strength
50	Cover (External)
n/a	Cove (Interr

- construction requirements. Refer to notes on reinforcement for its material and
- any induced detailing, reinforcement changes, etc). varied with the written permission of the engineer /e of
- of the engineer. Specific detailing will be provided. Construction joints are permitted only at the written approval
- No penetrations, blockouts, services embedment, etc than that shown on the structural drawings are allowed. Contact the engineer where changes to these details are blockouts, services embedment, etc,
- materials occurs, and be laid such that the concrete fills all vibration shall be used. monolithic mass with no voids or entrapped air. Mechanical forms and encompasses all reinforcement as a dense,
- 8. Pouring of elements where formwork restricts movement such as slabs over columns shall be timed to ensure allowance
- after finishing. It shall involve the prevention of loss of excess moisture and protection from extremes of temperature for a minimum of 7 days. Techniques allowed include fogging or 10. Curing of concrete shall commence as soon as practical cover to reinforcement is not reduced
- responsibility of the builder.
 11. Concrete shall be protected from freezing, the effects of rain or running water and from excess drying during the curing

be tested in accordance with the requirements set out in proportioned to meet the following characteristics. Mixes standards. All concrete mixes are to be of normal weight

2. Concrete characteristic compressive strength (28 days)

Piers/Strip Ftgs		Element	
32 MPa		Strength	
50	(External)	Cover	
n/a	(Inter	Cove	

- 4. Sizes shown are the structural minimum and may only be
- Concrete shall be placed to ensure that no segregation
- for wet concrete settlement. Minimum pour separation of 1 day.

 9. Concrete shall be finished to the architectural specification ensuring that required structural sizes are maintained and
- ponding of water, covering with plastic or wet hessian and the responsibility for proper execution of curing remains the use of curing compounds. Selection of method and
- period.

 12. Where concrete repairs are found to be necessary the engineer shall be contacted for written instruction. No repairs

 All reinforcing materials, the manufacture and the placement of such materials is to be in accordance with with AS/NZS 4671, as denoted in the structural drawings Reinforcement shall be of the proper class, in accordance AS3600 and AS/NZS 4671. relevant Australian Standards including but not limited to

Suitable for method of

4. All reinforcement shall be uniformly supported on bar specifically detailed (exception being as is normally detailed Ductility class L reinforcement shall not be used unless

typically pool reinforcement

R250N, Hot rolled round 250 MPa D250N, Hot rolled deformed 250 MPa, D500N, Hot rolled deformed 500MPa

concrete placement and hardening. Plastic tipped steel bar chairs are only permitted where the use does not compromise chairs, and tied together sufficiently, to ensure correct cover requirements (i.e. no raw steel of the chair is permitted position and cover is achieved and maintained throughout to lie within the reinforcement cover zone)

they remain in full contact. Bundled bars are to be tied together sufficiently to ensure

the structural drawings. Splicing shall be made by lapping bars or alternatively with the use of mechanical means Splicing of reinforcement shall only be made as shown on accordance with the following. (proprietary couplers). Lapped splice lengths shall be in

For single bars in normal 32MPa concrete Slabs 350mm thick or less, wall verticals

Slabs greater than 350mm thick, wall horizontals and 350mm thick or less, wall verticals N12 N16 N20 N24 500 700 950 1200

600
 N16
 N20
 N24
 N28

 900
 1250
 1600
 1950

lengths by) The above values are to be increased for (multiply given

Bundled bars 25MPa concrete

Lightweight concrete Elements in slip forms Epoxy coated bars. x 1.2 for 3 bars x 1.33 for 4 bars x 1.3 × 1 3

be of one bar diameter only. The maximum slope of the inclined section of bar at the offset is to be 1 in 6. 7. Where offsets are used in lapped splices, the offset shall

hammer), and any damage to the bars surface. Bending in Site bending of reinforcement is permissible if required outermost cross bars of sheets being joined are overlapped in addition, the minimum length of overlap shall be 100mm. Splicing of mesh shall be made such that the two bend shall not be made within 20 bar diameters of the one location may only be performed twice and any further previous. No heat is to be used. nowever shall avoid any impact loading (such as with a

Minor surface rust is acceptable of the reinforcement shall not impair the bond with concrete the written permission and direction of the engineer. At the time of concrete placement, the surface condition No welding of reinforcement is to be carried out without

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Notes Sheet 1

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MASONRY

1. All masonry associated materials and the placement of 2. Masonry units are to comply with the following such materials is to be in accordance with relevant Australian Standards including but not limited to AS3700

Minimum unconfined compressive strength Bricks 20 MPa Blocks15MPa

irade	Resistance Grade Class
	Mortar Class

- noted otherwise. Lay pattern for all masonry shall be stretcher bond unless
- raking, if any, shall not exceed 5mm. fully bedded. Joints shall be 10mm thick. The depth of All mortar joints including bedding and perpends shall be
- 5. For grouted masonry, the grout shall be a core filling maximum 10mm aggregate.

 6. Finishing at the top of load bearing walls is to consist of specific mix of minimum compressive strength 20MPa with
- equivalent. The wall is to finish below the soffit of the slab of a slip joint such as two layers of DPC or approved fire rated gap filler 20mm clear of the slab over and the gap is to be filled with being poured over. Non-load bearing walls are to finish the bricks being trowelled smooth followed with placement
- Type A and a durability rating as specified above. Ties are to be embedded a minimum of 50mm into the mortar joint with a minimum 15mm cover to exposed surfaces. Ties are Wall ties for both cavity and veneer walls are to be of

At maximum 600mm centres in each direction

- the first row of ties being within 300mm of that (including head restraint ties in non-load bearing Adjacent to any lateral support or control joint with
- 8. No chasing is permitted in load bearing brickwork without the relevant standards. Where joints are located in concrete Joints are to be located to the architectural specification. the written permission and direction of engineer. At a minimum, joints are to be provided in accordance with
- slabs, these joints are to be replicated in any brickwork laid 10. Solid walls (230mm thick) are to be provided with
- course minimum for typical bricks). Header courses can header courses at maximum 600mm centres (every 7th
- consist of alternating headers and stretchers.

 11. Additional blockwork specific items:
- excessive mortar protrusions prior to grouting.
 b. Cleanout holes are to be provided and sufficiently Reinforcement shall be located accurately in founding surface. cleaned to ensure full bedding of grout on entire a. Cores are to be thoroughly cleaned of any
- preferred that plastic bar positioners are used to side by side to ensure proper cover is maintained. It is accordance with details. Laps shall be tied together maintain correct positioning.
- accordance with the grout workability to ensure that the blockwork and to ensure no blow outs in bedding the grout can be properly compacted (by vibration or d. The height of grout lifts should be limited in rodding), to ensure a proper bond is achieved with

STEELWORK

the erection of such materials is to be in accordance with 1. All steelwork associated materials, the manufacture and relevant Australian Standards including but not limited to

3. Welds shall be GP unless noted otherwise. The accordance with Australian standards shown in Table 2.1 of AS4100 unless noted otherwise. All steel is to be of minimum yield stress of 250MPa in

minimum size of a fillet weld shall be 6mm, except where material is 6mm or thinner, then it shall be the thickness of structural details, being one of the following AS/NZS1252. Bolts are to be of the category denoted in 4. All bolts are to comply with AS111, AS1110 and/or the material (based on the thinner material being joined).

8.8/TF 8.8/S 4.6/S 8.8/TB Grade 8.8, fully tensioned Grade 8.8, fully tensioned Grade 8.8, snug tightened Grade 4.6, snug tightened

secured to prevent loosening. Tapered washers shall be provided where the slope of surfaces in contact exceeds 1:20. Tensioned bolts shall be installed by the part-turn under any rotated part. The length of a bolt shall be such that a minimum of one clear thread plus runout is showing 5. Surface preparation for bolted joints is to be in strict indicating device method of tensioning or with the use of a direct-tension after tightening. Any nut subject to vibration shall be accordance with AS4100. One washer is to be located

holes are to be provided in any members undergoing manner which will not compromise performance. Drain All seal plates for hollow members are to be vented in a

that the factory finish is achieved. which compromises the factory finish is to be repaired such finishes are permissible so long as they do not hinder the performance of the finish specified below. Any site activity All finishes are to comply with the following. Decorative

Finish Type Painted Galvanised
Code Per Shop

ensure fire rating is provided as per the architectural and 8. Fire rating has not been allowed for. The builder is to

project specifications.

9. Workshop drawings for structural steelwork shall be purpose. The builder retains sole responsibility for ensuring architectural intent, dimensional correctness and fitness for solely to ensure conformance with structural intent. No provided to the engineer at least 10 working days prior to site delivery/installation is achieved. responsibility is taken by the engineer other than for this drawings by writing. The purpose of checking drawings is until the engineer has confirmed the suitability of such Materials ordering or fabrication shall not be undertaken Baseplates/endplates are to be grouted with a high the commencement of materials ordering or fabrication.

manufacturers specification ensuring that no damage to the Post installed anchors shall only be used where detailed. reinforcement is made. Anchors are to be load tested Anchors shall be installed in full compliance with

strength non-shrink grout ensuring full bedding is achieved

TIMBER

relevant Australian Standards including but not limited to AS1720 and/or AS1684. erection of such materials is to be in accordance with 1. All timber associated materials, the manufacture and the

(hard/soft/manufactured), of the minimum strength and All timber is to be of the wood type

durability grades as shown in the structural drawings content suitable for the location it is being used. 3. All timber is to be seasoned and to be of a moisture

as required to suit the location of use. All fixings, nails, bolts, brackets, etc, are to be galvanised

Washers shall be used at the end of each bolt in accordance 5. Bolts shall be pre-bored at a diameter equal to the shank with Table 4.11 of AS1720.1

6. All connections are to be made in accordance with the

relevant standard Where manufactured timber is used, all works are to be

carried out in accordance with the manufacturers

FORMWORK

or PT induced loads. All concrete formwork design and construction remains the responsibility of the builder. All formwork shall be designed to materials loads prior to and after pour, the wet weight of the support all loads supported by it including, but not limited to, concrete, construction equipment, live loads and any lateral

2. Formwork finishes are to be specified.
3. Stripping times shall comply with the relevant Australian and the first stripping removes the fir in multi-storey construction to avoid slabs being loaded Standards. Attention is to be given to back-propping removal

than specified at 28 days). beyond design limits (including allowance for strengths less

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Notes Sheet 2

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