

HUT PROCUREMENT MANUAL

PART B

FOR 4, 6, 10 AND 12 BUNK BACKCOUNTRY HUTS

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Department of Conservation
Te Papa Atawhai

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Section B1: The Process

1.1 Purpose

To provide a consistent national process by which the department procures a completed small (4, 6, 10 or 12 bunk) hut, including outbuildings and departmental supplied items, in an efficient and effective manner. This process is mandatory for all standard and basic huts.

In order to achieve this purpose, the necessary stages and actions are noted, and the appropriate parties that are responsible for carrying out those actions identified.

DOC Process: Use of the Manual

The first few sections of Parts A, B and C identify the task involved at each stage, the party responsible for that task and the actions to be undertaken as part of that task.

There are five parties involved in the Process:

- *DOC project manager: This may be Area, Conservancy or Regional staff as identified and applicable. They are responsible for overall project co-ordination, management and programming to meet the project needs of DOC. It is expected that the nominated DOC project manager will have the requisite skills but, due to either time, resource or skill issues, they may choose to engage outside consultants to assist with some aspects of their tasks and actions.*
- *Architect: Pynenburg and Collins Architects Ltd, providing the design and documentation tasks, including co-ordination of consultants and co-operation with the complex toilets consultant.*
- *Contract Administrator: Providing the services that would have been provided by the architect if they had been local. They receive the completed tender and building consent documents and carry out the building consent, tendering, construction observation and contract administration tasks.*
- *Consultants: Surveyor, structural engineer, foundation engineer, environmental engineer (for minor works such as sullage and soakage pits only), where such consultants will be providing input into the design and documentation of items required to be part of the hut itself. Such consultants will work under the direction of the architect and the Contract Administrator.*
- *Environmental Engineer: Occasionally an Environmental Engineer will be engaged by DOC to design and document a stand-alone complex toilet system (anything other than a VIP toilet) that will be part of the project. With the need to manage the design and documentation effectively and efficiently, the Environmental Engineer will act separately under the direction of DOC staff and co-ordinate with the architect and Contract Administrator.*

1.2 Pre-Process decisions and information gathering

Responsibility:

DOC Project Manager:

- To follow the procedures as identified in other manuals or documents.
- To compile the necessary information and to make the required decisions to commence the Process as identified in this manual.

Actions:

1.2.1: Strategic planning

By reference to CMS and other DOC strategic planning documents, public consultation and the like, confirm the long-term need for the new hut, its most desirable location and required bunk size. Carry out the assessment of geological and other hazards for the preferred site and determine the suitability of the preferred site.

1.2.2: Identify name:

Determine hut name and asset numbers for consistency in all project documents and departmental files.

1.2.3: Service Standard category:

Identify whether the new hut will be a Serviced, Standard or Basic hut and any proposed variations to the Service Standards. If any variations from the Service Standards requirements are desired these will require approval from the General Manager Research and Development at this stage in the Process.

1.2.4: Assessment of Environmental Effects:

Prepare an Assessment of Environmental Effects; a full one using wgnco-28273 for huts that will be built on a new site and a checklist (using the headings in that document) for huts that will be replacing buildings on the same site.

Note there is no external requirement to prepare an AEE. The reason for requiring an AEE for this work is to ensure that the effects of the hut building proposal are acceptable within the department and to interested outside parties. It will also compile in one place the information you have to provide to a local authority for resource consent. The AEE or checklist is filed and made available internally or outside DOC as required.

1.2.5: Financial control

Set up and follow the financial control procedures for capital projects and obtain financial approval in principle.

DOC Process: The Process

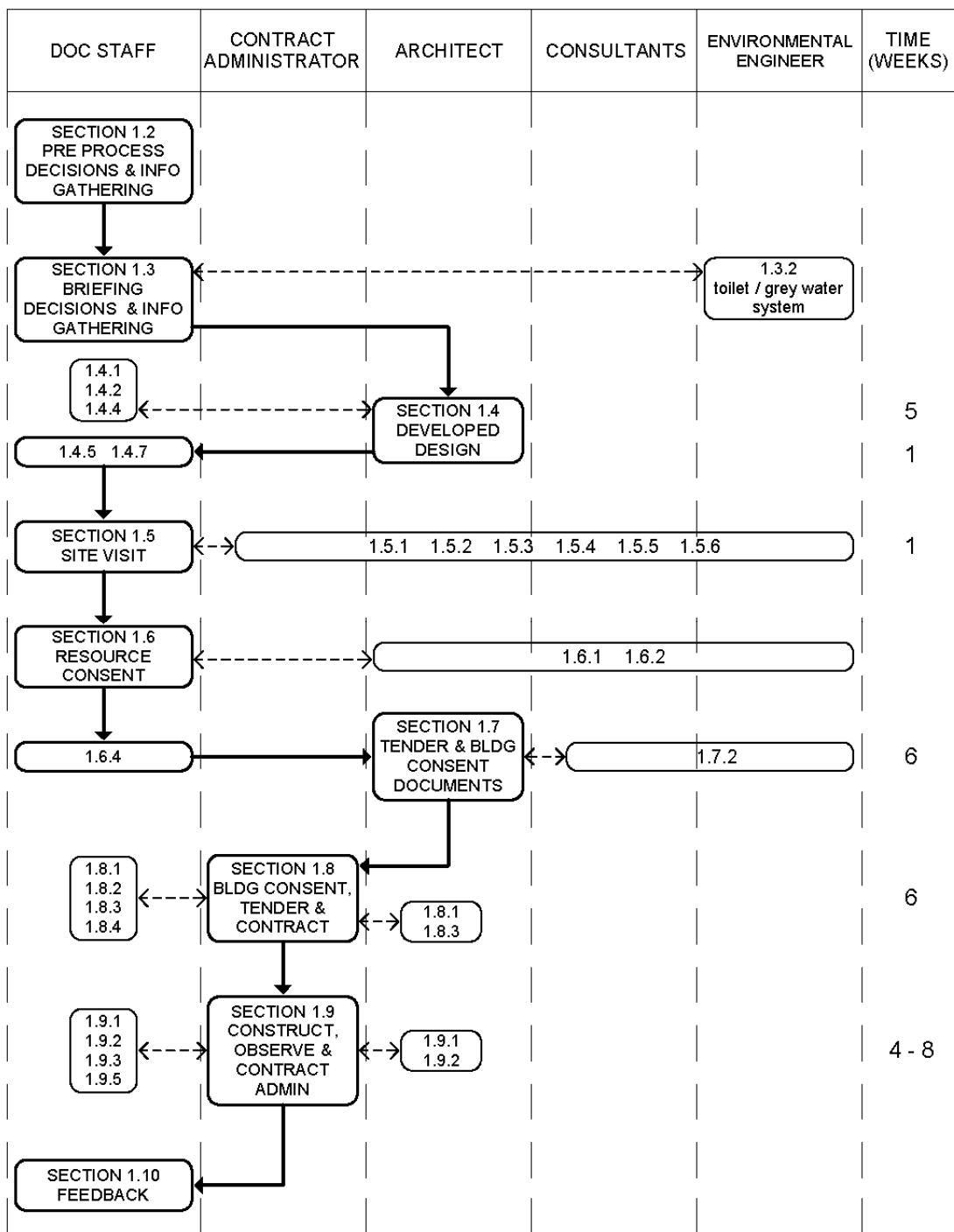


Figure 1: 4-12 bunk Process

Figure 1 describes the Process in diagrammatic form.

Across the top are the five parties involved. The heavily outlined boxes identify the tasks included in the Process and these line up underneath the party responsible for that task. The heavy arrow identifies the Process itself and how it moves from party to party. The lightly outlined boxes identify the actions other

parties are involved in for each task, and these also line up under the parties involved.

Down the right hand side is time, identifying the expected duration of each task. The critical issue is the available on-site construction period, which is very weather dependent.

If no Resource Consent is required, all the necessary information is provided at 1.3, and DOC decisions are made within a short time frame, Tender and Building Consent documents could be provided within 12 weeks of the information being received. Therefore, if complete information is provided by late March or early April, and there are no unusual or time-consuming issues, it should be feasible to have the hut built and ready for use at the start of the summer season.

1.3 Briefing decisions and information gathering

Responsibility:

DOC Project Manager:

- To set up the project structure and key personnel,
- To compile and provide the necessary brief (or information and requirements) to enable the architect to produce the Developed Design (refer section 1.4 below).

Actions:

1.3.1: Appoint Contract Administrator.

Usually the architect will not be local. A local Contract Administrator is required who will receive the tender and building consent documents from the architect and carry out the building consent, tendering, construction observation and contract administration tasks that otherwise the architect would perform. The Contract Administrator could be a staff member (perhaps the Project Manager) or an external consultant (the Architect, Engineer or another consultant). They must be local to effectively attend to any site, construction or contractual issues, and must be included in the site visit (refer section 1.5 below).

1.3.2: Scope of Project:

Identify the scope of the total project that will be included in the contract involving the construction of the hut. Identify which, if any, of the following work is to be included in the scope of work and whether DOC or the Contractor is expected to undertake it:

- vegetation clearance and tree cutting,
- hut platform excavation,
- toilet supply and installation
- grey water systems (refer also 1.3.11 below)
- wood shed or other outbuildings

- track work
- existing features to be retained, removed or reused, such as a hut, track, accessory buildings, and the like.

1.3.3: Resource Consents:

Identify for what aspects of the project a Resource Consent may be required and the governing Territorial Authority.

1.3.4: Site Location and Information

Obtain 1:50,000 map number, grid reference, altitude and 5km x 5km extract from NZMS 260 series.

Where an existing hut is to be replaced on the same site, and a baseline inspection exists with a scaled site plan and aerial/ground photographs, extract this information from AMIS.

If there is no site plan and/or aerial/ground photos of the site, then prepare a site plan and/or obtain aerial/ground photos. The site plan should be to scale (no smaller than 1:200) and include information on contours and ground slopes/falls, water courses, waterbodies, limitations (such as minimum distance from bluffs or levels above rivers/lakes, etc), vegetation, tracks, and any existing buildings.

If required, the architect can be engaged to carry out the site visit and produce both the site plan and the photographs. Other issues that would otherwise be addressed under 1.5 Site Visit can also be discussed.

1.3.5: Special Environments

A hut in either an alpine environment or a harsh environment requires specific materials and/or construction details to be incorporated.

An Alpine environment is where design is dictated by extremes of wind and snow loading. Generally these huts are sited at altitudes above 1,200m and/or are subject to snow loads of 2kPa or more. In the South Island keas may also be present. Occasionally it would be extended to include huts below 1,200m where similar conditions are experienced. Further guidance is included in Part E4 of this manual.

A Harsh environment is where design is dictated by a higher risk of corrosion and will either be coastal or geothermal. Generally these huts are sited within 500m of the coast or within the Central volcanic plateau of the North Island. Figure 4.1 of NZS 3604 identifies these areas as the sea spray zone and zone 4 respectively. Further guidance is included in Part E5 of this manual.

Identify if hut is in either of these environments, or collect sufficient data for the architect to make this decision.

1.3.6: Ground material/condition

Provide copy of any geological or avalanche hazard assessment, describe soils on site including known conditions such as soft or fragile ground.

1.3.7: Structural loads

Have local DOC Engineer identify relevant zone and calculate and provide applicable design loads or factors for the following:

- earthquake zone (by reference to figure 5.4 of NZS 3604),
- wind zone (L, M, H, VH, or SED), speed (in m/s) and wind load (in kPa),
- snow load, including any drift allowance onto verandahs (by reference to figure 15.1 of NZS 3604). For specific design provide snow loads in kPa.

The standard design loads for a 4 – 12 bunk hut are

- floor: 1.5kPa
- deck: 2.0kPa

1.3.8: Design options for 4, 6, 10 and 12 bunk huts

Identify which, if any, of the following options are to be incorporated:

- 4 and 6 Bunk hut: i) deck along front wall
ii) external sink
- 10 and 12 bunk hut: i) deck along side wall,
ii) deck and roof along side wall.
iii) external sink

1.3.9: Hut feature, fittings and fixtures options

Identify which, if any, of the following features, fittings and fixtures are not required due to local conditions or needs:

- Furniture (tables and/or forms)
- Water tank/water supply
- Multi-fuel burner
- Insect proofing (screens, seals, etc)

Identify the location of the external sink if this design option has been selected:

- to deck for 10 and 12 bunk hut,
- to water tank for 4, 6, 10, and 12 bunk huts.

- Note that when an external sink is chosen, a grey water system is required for disposal of grey water. Refer to part F2 of this manual for guidance.

1.3.10: Cladding

Identify which cladding is required. Note that generally ply and batten should only be selected for sheltered sites below the bushline.

- Coloursteel
- Ply and batten

If the hut is located in a harsh environment (i.e. coastal or geothermal) refer to part E5 of this manual for guidance.

1.3.11: Toilet and Grey Water

Where a toilet is required refer to part F1 of this manual for guidance to establish whether a pit toilet can be utilised or if specific design is required. If a pit toilet can be used, then part F1 provides compliant solutions.

Where a Grey Water disposal system is required refer to part F2 of this manual for guidance to establish whether the standard solutions in F2 can be utilised or if specific design is required.

If specific design for either toilet or grey water is required identify Environmental Engineer who will be advising the department on selection, and carrying out the design and documentation of the toilet and/or grey water disposal system. This consultant will be engaged in a parallel process of advice, design and documentation.

1.3.12: Other site specific issues or hazards

Record anything else that is relevant.

1.3.13: AMIS:

Where an existing hut is to be replaced, obtain a copy of all AMIS information on the site, including baseline inspections, geotechnical reports, construction documents, toilet/waste disposal systems and the like.

1.3.14: Forward information:

Compile the above information and forward it to Pynenburg and Collins Architects Ltd, PO Box 2115, Wellington, Attention Ron Pynenburg. Electronic copy is acceptable (email ron@pc-architects.co.nz), but not scanned documents as scale is important. Rather than scan documents, post photocopies – a few days will not affect the programme.

If you wish to discuss any of the necessary detail while compiling the information contact Ron Pynenburg via email or phone (DDI 04 916 2201).

1.4 Developed Design

Responsibility:

Pynenburg and Collins Architects Ltd:

- To produce a Developed Design that enables confirmation from DOC Area staff that the intended scope of work and options selected are incorporated.
- To co-ordinate with the DOC engineer if specific structural design is required.

Actions:

1.4.1: Review information:

Receive above information from DOC Project Manager and review for completeness. In particular review information regarding:

- location in either an alpine or harsh environment (refer Parts E4 and E5).
- Suitability for pit toilet (refer Part F1)
- Suitability for grey water disposal if sink required (refer Part F2)

Follow up on any errors or omissions, seek clarification as required from DOC Project Manager before proceeding.

1.4.2: DOC Engineer:

If any of the loads provided under section 1.3.6 are beyond the scope of NZS 3604, identify the specific structural members of the hut that require specific design and forward a request to the DOC engineer to provide specific design input (calculations, sizing and details as required).

1.4.3: Developed Design Documents:

Prepare Developed Design from the Base documents, comprising site plan, floor plan, four elevations, cross and long sections, foundation plan, bracing plan, door & window schedule and Developed Design Specification for hut.

Receive, review and provide comment on design input from DOC Engineer. Manage the amendment of such documents if required. Co-ordinate and incorporate design input into Developed Design.

1.4.4: DOC sign-off:

Forward Developed Design documents to DOC Project Manager for review/comment/agreement and to obtain the sign-off of the Area Manager responsible for the project.

Note that this stage is to be a confirmation that the developed design meets the brief (refer section 1.3 above), not an opportunity for the design or Area requirements to be revisited.

If the response involves variations from the Briefing information that relate to service standard, bunk capacity, or other departmental policy matters, this will require approval from the General Manager Research and Development prior to the project proceeding further.

DOC Area staff are responsible for forwarding the required information and obtaining the necessary approvals from the General Manager Research and Development.

1.4.5: Service Standards sign-off:

Forward Developed Design documents to General Manager Research, and Development (Attention Brian Dobbie) for the scope of work to be checked against the Service Standards.

The hut project will not proceed to tender and building consent documents, and/or to Resource Consent application (if required), without this sign-off. Sign-off is contingent upon approval of the final scope of work (i.e. confirming that the project hasn't deviated from the service standards).

1.4.6: NO CHANGES:

UPON RECEIPT OF SIGN-OFF NO FURTHER CHANGES TO DESIGN OR SCOPE OF WORK SHALL OCCUR IN THE TENDER AND BUILDING CONSENT DOCUMENTS.

1.5 Site Visit

Responsibility:

DOC Project Manager:

- To arrange a site visit, if necessary, by all necessary personnel to confirm (or amend as necessary) aspects of the Developed Design documents as being appropriate to the site prior to the production of construction documents,
- To ascertain if a Resource Consent is required,
- To confirm site information; and to peg out on site the location of the hut and all accessory buildings.

Actions:

1.5.1: Is a site visit necessary?:

Discuss with the architect if there are any technical issues in the Developed Design documents that are best confirmed or resolved by a site visit. This is likely where there are concerns regarding such matters as:

- ground conditions for foundation design,
- ground conditions for pit toilet and/or grey water,
- ground slopes and/or the extent of excavation required,
- the site is small or in some way constrained,
- the exact location and/or orientation of the hut on site.

1.5.2: Necessary personnel:

If a site visit is deemed necessary, discuss with the architect which consultants would be required on a site visit. It is expected that generally the architect and the DOC engineer would be required. Where DOC Area staff will not be the Contract Administrator, ensure the appointed Administrator attends the site visit.

Co-ordinate the required attendees at least two weeks in advance to arrange a suitable date for a site visit. Those from out of town will arrange their own transport to the nearest airport, and will bring their own gear other than that noted below.

1.5.3: Transport and equipment:

From the airport arrange all local transport to the proposed hut site, including any Health and Safety briefings and gear. Arrange all necessary equipment (e.g. shovels, heavy bar, sledge hammer, and sufficient pegs) to carry out site investigations and to peg out buildings. Contact and co-ordinate with all required attendees to ensure the provision of all necessary equipment (either by DOC or consultant) for the obtaining of all required information during the site visit to enable the resolution of all issues and the production of tender and building consent documents.

1.5.4: Resource Consent:

Confirm the aspects of the project for which a Resource Consent may be required with the relevant Territorial Authorities. Identify complying parameters or requirements and extent of site information required if an application is necessary. Determine what on-site investigation is required to confirm the need or otherwise for a Resource Consent and organise the necessary equipment.

If an external sink has been selected a grey water system is required. Check relevant plans to ascertain necessary separation distances from adjacent waterways and water bodies.

1.5.5: Site Visit:

Visit the site and carry out the following actions as required:

- i) Assess and confirm soil condition/profiles for foundation design,
- ii) Assess soil conditions/profile for pit toilet and distances to waterways and water bodies if external sink has been selected.
- iii) Assess soil conditions/profile for grey water system and distances to waterways and water bodies if external sink has been selected.
- iv) Survey site to provide accurate site plan, datum level, site extent and features, levels and extent of any excavation and site works.
- v) Survey horizon lines to determine extent of available sunlight and views.
- vi) Agree on and peg out hut and accessory building locations,
- vii) Investigate Resource Consent parameters and information,
- viii) Obtain any other information identified as being required to complete design and construction documents.

1.5.6: Summary:

During the site visit the architect and/or DOC engineer will record the required information, and provide it to all who will require it for the production of tender and building consent documents.

1.6 Resource Consent

Responsibility:

DOC Project Manager:

- To apply for and obtain Resource Consents, when required.

Actions:

1.6.1: Tender and Building Consent documents:

If Resource Consent is not required, or if it is required but approval is certain, instruct the architect to proceed with tender and building consent documentation.

If Resource Consent is required and approval is not reasonably certain, instruct architect to wait until consent has been granted before proceeding with tender and building consent documentation.

1.6.2: Application documents:

In addition to the Developed Design documents compile or obtain from other consultants (if necessary) further documentation as required. Compile and complete Resource Consent application documents.

1.6.3: Application:

Apply for and obtain Resource Consent.

1.6.4: Advice

Advise the architect that Resource Consent has been obtained. When proceeding with tender and building consent documents have been on hold advise architect to proceed.

1.7 Tender and Building Consent Documents

Responsibility:

Pynenburg and Collins Architects Ltd:

- To co-ordinate all consultants to produce a complete and coherent set of tender and building consent documents.

Actions:

1.7.1: Instructions:

Receive sign-off documents and instructions to proceed from DOC Area staff, including any notes on amendments to the Developed Design.

1.7.2: Documents:

Prepare a set of project specific tender and building consent drawings and specification, as outlined in Section 2.

Co-ordinate with the following consultants as required:

- DOC engineer for specific structural design, including tie-downs,
- MiTek New Zealand Ltd for specific roof truss design,
- Lapish Enterprises Ltd for specific foundation design.

From engineers, receive full sets of calculations and Producer Statement PS1 Design forms.

1.7.3: Structural Design loads:

Earthquake, wind and snow loads shall be determined and provided by the DOC engineer in accordance with section 1.3.7. The standard design loads for a 4 – 12 bunk hut are

- floor: 1.5kPa
- deck: 2.0kPa

1.7.4: Forward documents:

Provide an electronic set of the tender and building consent documents in pdf file format to the DOC Area staff and Contract Administrator. As all pages are either A3 or A4 format the Contract Administrator will arrange the photocopying of the number of sets required for building consent application and tender.

1.8 Building Consent and Tender and Contract:

Responsibility:

Contract Administrator:

- To manage the obtaining of a building consent,
- To call tenders and to complete a Contract between DOC and the Contractor for the project.

Actions:

1.8.1: Receive documents:

Receive hut documents from the architect. Review all documents received for completeness and compatibility. Follow up on any errors, omissions or conflicts, and seek clarifications and/or corrections and/or further documentation as required before proceeding. Advise DOC Area staff of any such actions.

1.8.2: Building Consent:

Complete all necessary forms, compile all required documentation and make the building consent application. If there are any technical queries or concerns from the Territorial Authority regarding building code compliance, they are to be referred to the architect and/or the DOC engineer as appropriate for a response. This is necessary to ensure national consistency in what is required for code compliance in huts and hut related work.

Once building consent has been obtained, seek advice from architect and/or DOC engineer as required regarding any conditions imposed by the Territorial Authority. Again, this is necessary to ensure national consistency in what is required for code compliance in huts and hut related work.

Note that the obtaining of a building consent can and shall run concurrently with the calling of tenders, but that choosing a contractor must not proceed until building consent has been obtained.

1.8.3: Calling tenders:

In accordance with DOC's 'General Conditions of Construction Works Contract' (wgnho-121411) call tenders. For guidance on the tendering process follow "Instructions for preparing and tendering contracts" (docdm-304896). In consultation with DOC staff, determine a short list of likely tenderers and any specific local issues or requirements that need to be addressed within the tender process or noted as special conditions of Contract.

Note that the calling of tenders shall run concurrently with the obtaining of a building consent.

To ensure transparency and ease of evaluation of tenders received, and to enable DOC to build up a nation-wide data base of costs, all tenderers shall be required to provide a breakdown of their bid using the following sections:

1. Preliminary & General, and margins
2. Carpentry material
3. Carpentry labour
4. Joinery (doors and windows) supply
5. Plumbing & Drainage
6. Painting
7. Transportation
8. Project specific work (demolition and the like) if applicable
9. Contingency Sum (if applicable)
10. Toilets and ancillary buildings (if applicable) noted separately as a single sum item.

To ensure that the public can be adequately notified of the impact of this work on recreational activities and to enable better management of the building programme request earliest possible start date and planned duration of Contract.

Review tenders received (in particular any tags), discuss with architect and/or DOC engineer as necessary, and report to DOC Area staff on results including recommendation regarding most appropriate Contractor for the project.

1.8.4: Contract:

Upon receiving instructions as to successful Contractor from DOC staff, complete Contract and arrange signing by both parties.

1.9 Construction observation and Contract administration

Responsibility:

Contract Administrator:

- To carry out Contract administration and construction observation tasks as required by the Contract and contract documents, and to ensure that the design intent of the architect is achieved.

Actions:

1.9.1: Observation:

Determine extent and manner of construction observation. Carry out site visits and observation as necessary to be satisfied that the Contractor constructs the hut in accordance with the contract documents.

For any technical queries or issues, which may result in a change of material or detail, refer back to the architect and/or DOC engineer for advice before instructing the Contractor. Do not instruct any changes, nor accept any errors or omissions by the Contractor without prior discussion with the architect and/or DOC engineer to ensure that the design intent is not compromised to the detriment of DOC and/or hut users. Advise DOC staff of intended instructions prior to issuing them to the Contractor.

1.9.2: Contract:

Administer the Contract in accordance with DOC's General Conditions of Construction Works Contract. Ensure that all Instructions and Variations are in writing and copied to DOC staff, the architect and the DOC engineer. Ensure that after Practical Completion is achieved, that all of the Maintenance provisions are followed.

1.9.3: DOC supplied items:

Arrange the delivery and supply of the DOC supplied items as identified in the Contract documents.

1.9.4: Code Compliance Certificate:

Apply for and obtain code compliance certificate.

1.9.5: Completion records:

At the time of the last inspection, after which the Maintenance Certificate can be signed off, obtain the following photographic record:

- aerial view of hut and the site,
- ground perspective view of front of hut,
- each elevation,

- two opposing internal views of the hut,
- where other buildings, one external photo of each.

Provide DOC Area staff with the following documents, if they do not already hold them:

- Building consent
- Code compliance certificate
- All Instructions and Variations
- Copies of Practical Completion and Maintenance Certificates
- Contractor guarantees and Producer Statement (refer 10.5 of the General Conditions of Construction Works Contract)
- Completion photographic record in electronic (.jpg) format

1.10 Feedback

Responsibility:

DOC Area staff:

- To monitor, receive and record information and feedback on improvements to the Process and hut designs.

Actions:

1.10.1: AMIS:

Receive the information from the Contract Administrator as identified under section 1.9.5 and place in AMIS under the new hut asset.

1.10.2: Hut Manual:

Obtain and compile comments and feedback from the Contractor, Contract Administrator, DOC Area staff, public, log book and other sources. Send the first compilation to General Manager Research and Development (Attention Brian Dobbie) within one month of receiving the Maintenance Certificate. Send further compilations as and when new comments or feedback are received.

Section B2: Technical Information

2.1 Purpose

To record and provide current best practice for the design and construction of DOC's small (4, 6, 10 and 12 bunk) backcountry huts as required by the Process in Section 1; to optimise the time and reduce the cost involved in the design and documentation of each hut; to enable the design and documentation to be relevant and specific to each hut; and to enable nation-wide consistency in statutory compliance (ie building, fire safety, and health and safety).

In order to achieve this Purpose, this section is structured for the use of the architect in preparing the documents required by the Process. It is not intended that other parties involved in the Process use this section. The information recorded in this section forms the base information from which the architect completes the documents required at different stages of the Process.

2.2 Document Sets

From the Process there are two key document sets

- **Developed Design (refer section 1.4 above)**

Commencing from the Developed Design Base documents (drawings as per sections 2.3.1 and 2.3.2 below and outline specification as per part G1), a Developed Design is produced. The Developed Design fixes the location, project scope, design options, features, fittings and fixtures options, and cladding selection for the hut as well as identifying structural specific design issues. As required the following Parts of this manual are to be referred to:

- Part E4 for Alpine environments
- Part E5 for coastal or geothermal environments
- Part F1: for Pit toilets
- Part F2: for grey water systems

The Developed Design is forwarded to both the DOC Area staff and the General Manager Research and Development for approval and sign-off prior to the commencement of tender and building consent documentation.

If there are technical issues in the Developed Design that are best confirmed or resolved by a site visit, then a site visit is undertaken. This is only likely where there are concerns over ground conditions for foundation design, pit toilet or grey water provision, ground slopes and/or the extent of excavation required, the site is small or in some way constrained, or if there are matters involving the exact location and/or orientation of the hut on site.

Further to the site visit, and the obtaining of the necessary information, the tender and building consent documents can be compiled.

- **Tender and Building Consent (refer section 1.7 above)**

The tender and building consent documents comprises the following:

- i) The Developed Design drawings, including any amendments required subsequent to the site visit, as per section 2.4.2 below,
- ii) The relevant construction details sheets (refer part E1 of this manual),
- iii) The relevant fixtures and fittings sheets (refer part E2 of this manual),
- iv) The relevant water supply sheets (refer part E3 of this manual),
- v) Toilet documentation (refer part F1 of this manual),
- vi) Grey water documentation (refer part F2 of this manual),
- vii) The tender and building consent specification (refer Part G2 of this manual),
- viii) Amendments as required for alpine environments (refer part E4 of this manual), or coastal or geothermal environments (refer Part E5 of this manual).
- ix) Specific design information from the following consultants:
 - DOC engineer for specific structural design, including tie-downs,
 - MiTek New Zealand Ltd for specific roof truss design,
 - Lapish Enterprises Ltd for specific foundation design.

These documents provide the necessary technical building information required for the construction of the hut to the design and scope determined by the Developed Design documents. There are no changes made at this time relating to any design decisions made before or during Developed Design. These documents are used for tender, building consent and construction.

This section outlines how the architect will produce the drawings for these two document sets by referring to the base information contained in the Appendices.

2.3 Developed Design documents

2.3.1: Base drawings:

There is a set of Developed Design base drawings for 4 bunk huts (appendix B1.1), 6 bunk huts (appendix B1.2), 10 bunk huts (appendix B1.3) and 12 bunk huts (appendix B1.4). These drawings are:

- Sheet 1 Site Plan 1:200
- Sheet 2 Floor Plan 1:50
- Sheet 3 Four Elevations 1:100
- Sheet 4 Cross Section A 1:50
- Sheet 5 Cross Section B 1:50
- Sheet 6 Foundation Plan 1:50

- Sheet 7 Bracing Plan 1:50
- Sheet 8 Window & Door Schedule 1:50

If Design Options for either a deck or a deck/roof are selected under section 1.3.8, then most base drawings will be selected from Appendix B2, being for 4 bunk huts from appendix B2.1, for 6 bunk huts from appendix B2.2, for 10 bunk huts from appendix B2.3 and for 12 bunk huts from appendix B2.4.

Some sheets are still used from Appendix B1, being:

- 4 and 6 Bunk hut: sheets 5 and 8
10 and 12 bunk hut: sheets 4 and 8

2.3.2: Drawing Procedure:

If the hut is in an Alpine or harsh environment refer also to Parts E4 and E5 for additional annotations and amendments.

Otherwise, other than the annotations and amendments noted below it is expected that generally no other work is required.

All Sheets

- Complete Title Block with hut specific information.

Sheet 1 Site Plan

- The base drawing has the hut floor plan at 1:200. Select the base drawing that reflects the deck/roof Design Options selected.
- Confirm north point and complete Design Criteria.
- Draw to scale the existing site details as included in the site plan provided by the DOC Project Manager.
- Annotate the site plan to reflect the scope of work, including the location of any water tank, external sink, toilet and/or wood shed as identified by the DOC Project Manager. If an external sink is selected include a grey water system in an appropriate location.

Sheet 2 Floor Plan

- Select the base drawing that reflects the deck/roof Design Options selected.
- Amend drawing to reflect hut fixtures, fittings and features options and external sink option as identified by the DOC Project manager.
- If ground levels and/or falls require stairs to be shifted, barriers to be added to decks, and/or other information to be changed, amend drawings as required.

Sheet 3 Four Elevations

- Select the base drawing that reflects the Design Options selected.
- Amend drawing to reflect ply and batten cladding if chosen.
- Amend drawing to reflect hut fixtures, fittings and features options and external sink option as identified by the DOC Project manager.
- Amend ground lines to reflect on-site contours.
- If ground levels and/or falls require stairs to be shifted, barriers to be added to decks, and/or other information to be changed, amend drawings as required.

Sheets 4 & 5 Cross sections A & B

- Select the base drawing that reflects the Design Options selected.
- Amend drawing to reflect ply and batten cladding if chosen.
- Amend drawing to reflect hut fixtures, fittings and features options and external sink option as identified by the DOC Project manager.
- Amend ground lines to reflect on-site contours.
- If ground levels and/or falls require stairs to be shifted, barriers to be added to decks, and/or other information to be changed, amend drawings as required.

Sheet 6 Foundation Plan

- Select the base drawing that reflects the Design Options selected.
- If water tank stand not required, delete from drawing.
- If ground levels and/or falls require stairs to be shifted, and/or other information to be changed, amend drawings as required.

Sheet 7 Bracing Plan

- Select the base drawing that reflects the Design options selected.
- If multifuel burner not required, delete from drawing.
- If ground levels and/or falls require stairs to be shifted, and/or other information to be changed, amend drawings as required.

Sheet 8 Window and Door Schedule

- Amend the drawing as required to reflect the features, fittings and fixtures selected from the following list:
 - Insect proofing (screens, seals, etc)

2.3.3: Developed Design Specification:

Part G1 of this manual contains a base Developed Design specification for 4 and 6 bunk huts (Appendix G1.1) and another for 10 and 12 bunk huts (Appendix G1.2). Commence with the appropriate Base Developed Design Specification and by following the associated guidelines create a project specific Developed Design Specification. It is expected that, other than completing the hut specific information at the start of the specification, the rest of the specification will be completed by deleting clauses that do not apply, and there will be no need to add hut specific clauses.

If the hut is in an Alpine or harsh environment refer also to Parts E4 and E5 for additional annotations and amendments.

If a pit toilet or a grey water disposal system is required refer to either Part F1 or F2 for additional annotations and amendments.

2.3.4: DOC Engineer

Co-ordinate and co-operate with the DOC Engineer where the design loads and/or ground conditions provided are outside the parameters of NZS 3604. Identify which of the following specific structural systems, members and/or fixings of the hut require specific design:

- Foundations (only if site is unsuitable for Conqra or NZS 3604 system)
- Snow load
 - Window lintel sizes
 - Verandah beam size
 - Verandah rafter size/spacing
 - Purlin size/spacing
- Wind load
 - Plate/stud fixings
 - Truss/top plate fixings
 - Verandah rafter fixings to verandah beam and top plate
 - Purlin/rafter and/or purlin/truss fixings
 - Bracing
 - Tie-downs

Forward a request to the DOC engineer to provide specific design input (calculations, sizing and details as required).

Receive, review and provide comment on design input from DOC Engineer. Manage the amendment of such documents if required. Co-ordinate and incorporate design input into Developed Design.

2.4 Tender and Building Consent documents

2.4.1: Base Drawings:

Base drawings are obtained from the following sources:

- Developed Design drawings (sheets 1 – 8) as per section 2.3.2
- Standard construction details Part E1
- Standard fittings and fixtures Part E2
- Water Supply Part E3
- Toilets Part F1
- Grey water Part F2

For alpine environments refer to part E4 of this manual, and for coastal or geothermal environments refer to Part E5 of this manual for relevant base drawings and instructions regarding annotations and amendments to the base drawings.

Otherwise, other than the amendments and annotations required to the Developed Design drawings there should be no need to make any amendments to the standard drawing sheets for the project.

2.4.2: Drawing Procedure:

Developed Design drawings (sheets 1 – 8)

- Further to comments from the DOC Area staff and/or the outcome of a site visit, these sheets are to be amended as required.
- Further to finalising information received from MiTek amend sheets as required to accurately represent the sizes and spacings of trusses and members. Only the sections (sheets 4 and 5) should require amendment, if at all.
- Further to finalising information received from Lapish Enterprises amend sheets as required to accurately represent the design and layout of the foundations. Only the cross sections (sheets 4 and 5) and the foundation plan (sheet 6) should require amendment, if at all.

Standard construction details:

- Using the table provided select the appropriate sheets from those available within Part E1 that reflect the combination of design options, features and cladding selected.

Standard fixtures and fittings:

- Using the table provided select the appropriate sheets from those available within Part E2 that reflect the combination of fixtures and fittings selected.

Water supply:

- Using the table provided select the appropriate sheets from those available within Part E3 that reflect the combination of fixtures and fittings selected.

Toilets:

- Using the table provided select the appropriate sheets from those available within Part F1 that reflect the combination of fixtures and fittings selected.

Grey Water:

- Using the table provided select the appropriate sheets from those available within Part F2 that reflect the combination of fixtures and fittings selected.

2.4.3: Specification:

Commence with the Base tender and building consent specification included in Part G2 and by following the instructions/prompts of the hidden text, and deletion of non-applicable paragraphs create a project specific Specification.

It is expected that, other than completing the hut specific information (which should be the same as that included in the Developed Design specification) at the start of the specification, the rest of the specification will be completed by deleting clauses that do not apply and/or following the instructions in the 'hidden' text, and that there will be no need to add hut specific clauses.

Include the necessary information in the specification appendices as follows:

- Appendix A – standard bracing information
- Appendix B – roof truss information
- Appendix C – foundation design
- Appendix D –Structural Engineer (if required)

2.4.4: Other Consultants

For other consultants, direct and co-ordinate the provision and inclusion of their designs, documentation and information requirements into the Tender and Building Consent documents.

- DOC engineer:

If all information and advice has not been provided as part of the Developed Design documentation, obtain any that is outstanding.

- MiTek New Zealand Ltd:
Forward Developed Design drawings, together with design loads, and obtain documentation for specific design roof trusses.
- Lapish Enterprises Ltd:
Forward Developed Design drawings, together with design loads, and obtain documentation for specific foundation design.
Calculations, Producer Statement PS1 Design, and other documents necessary for building consent shall be compiled and included with the document set.

Appendix B1:

Base Developed Design Drawings

1. Contents

Appendix B1 contains the Base Drawings from which the Developed Design drawings are derived in accordance with section 2.3.

These drawings are located in four separate appendices related to hut size:

- Appendix B1.1: 4 bunks
 - Colorsteel cladding
- Appendix B1.2: 6 bunks
 - Colorsteel cladding
- Appendix B1.3: 10 bunks
 - Colorsteel cladding
- Appendix B1.4: 12 bunks
 - Colorsteel cladding

If Design Options have been selected for 4, 6, 10 or 12 bunk huts then the base drawings will be obtained from Appendix B2, apart from the following, which will still be obtained from Appendix B1:

- 4 and 6 bunk hut: sheets 5 and 8
- 10 and 12 bunk hut: sheets 4 and 8

Appendix B1.1: 4 bunk hut

Base Developed Design Drawings

- Current Drawing Register
- Amendment Register
- Base drawings

ALL DRAWINGS ARE A4 REDUCTIONS OF A3 ORIGINALS AND THEREFORE ARE NOT TO SCALE. DO NOT MEASURE OFF THESE DRAWINGS OR USE FOR CONSTRUCTION.

CURRENT DRAWING REGISTER

Sheet	Title	Version	Date issued
01	4 bunk hut base drawing Site plan	4.0	March 2009
02	4 bunk hut base drawing Floor Plan	4.0	March 2009
C03	4 bunk hut base drawing Elevations	4.0	March 2009
C04	4 bunk hut base drawing Section A-A	4.0	March 2009
C05	4 bunk hut base drawing Section B-B	4.0	March 2009
06	4 bunk hut base drawing Foundation Plan	4.0	March 2009
07	4 bunk hut base drawing Bracing Plan	4.0	March 2009
08	4 bunk hut base drawing Window & Door Schedule	4.0	March 2009

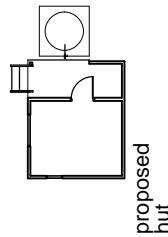
Refer to Appendix B2 for base drawings for sheets 01, 02, 03, 04, 06, and 07 if design options are selected.

AMENDMENT REGISTER

Amendment date	Amendment details (section, page number, block)	Version	Signature of copyholder and date

DESIGN CRITERIA:

altitude = TBA
 corrosion zone = TBA
 floor load = 1.5 kPa
 deck load = 2.0 kPa
 snow load = TBA
 earthquake = TBA
 wind zone = TBA



4.0	First Issue Ref No	Mar 09 DATE	- DW/M
Drawing Issue and Amendments V4.0 Standard Verdict 4 Bunk Hut - Appendix B1.1			

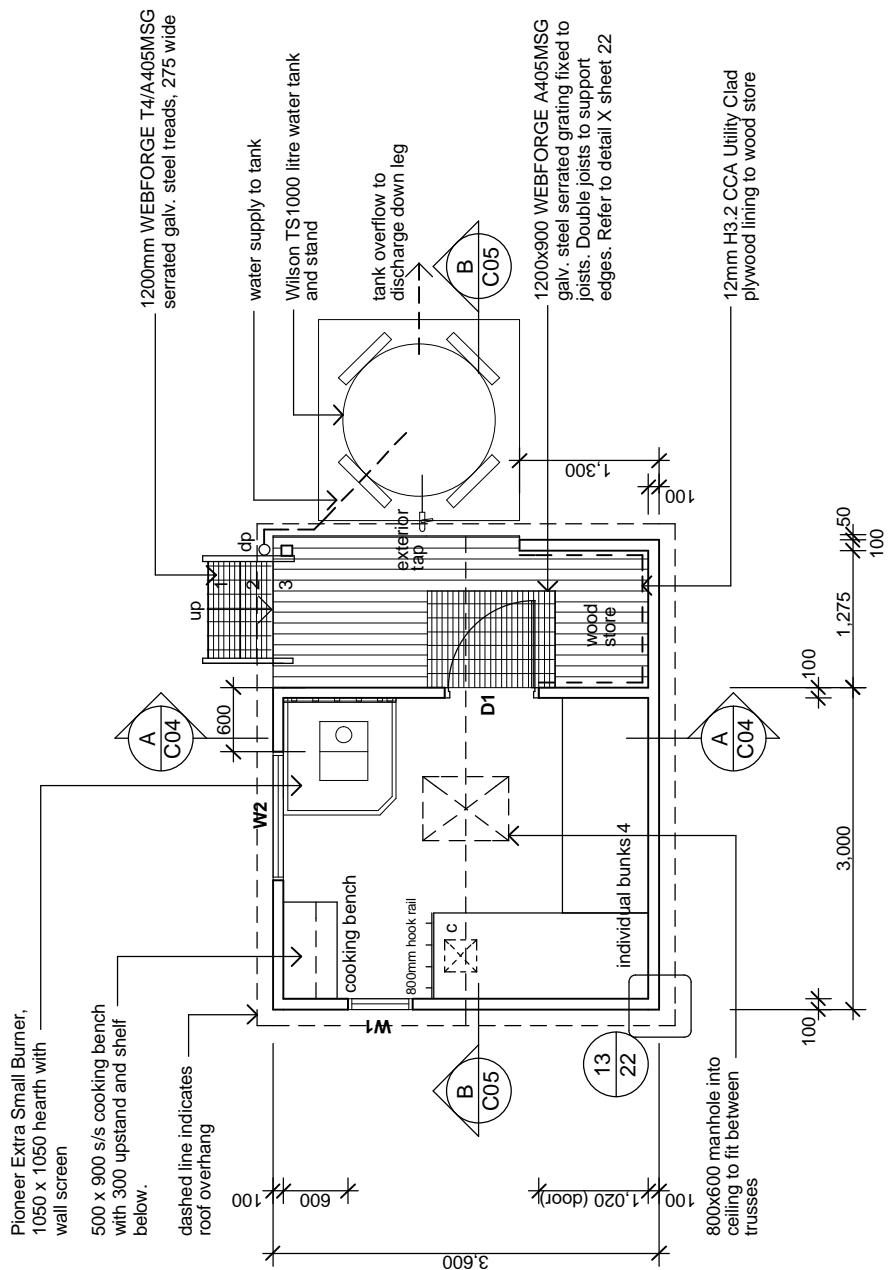
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 Phone: 04-384 5177
 Fax: 04-473 7577
 www.pc-architects.co.nz
 Caprice House
 111 Dixon St
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PROJECT	HUT NAME	Department of Conservation <i>Te Papa Atawhai</i>
LOCATION	LOCATION NAME	

AREA OFFICE	AREA OFFICE NAME	LOCATION	LOCATION NAME	NATIONAL PARK NAME	SCALE
SHEET CONTENTS	site plan				1:200

site plan
1:200

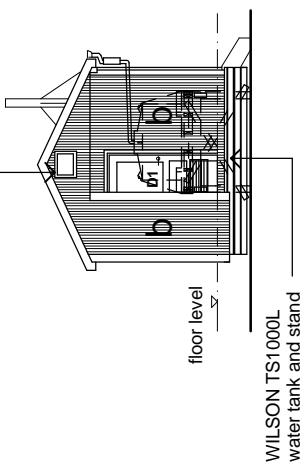


PROJECT	HUT NAME	LOCATION	LOCATION NAME	AREA OFFICE	AREA OFFICE NAME	SCALE
Te Papa Atauhā						1:50
Contractor shall check all dimensions on site prior to construction						
4.0	First Issue	Mar 09	-	DATE	DRAWN	CD
	Ref No				REVIEWED	
	DESCRIPTION				AMENDED	
	Drawing Issue and Amendments					
	V4.0 Standard Verdict 4 Bunk Hut - Appendix B1.1					
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Caprice House 111 Dixon St P.O.Box 2115 Wellington 6140 Phone: 04- 473 100 Fax: 04- 384 5177 www.pc-architects.co.nz						

Material Note:

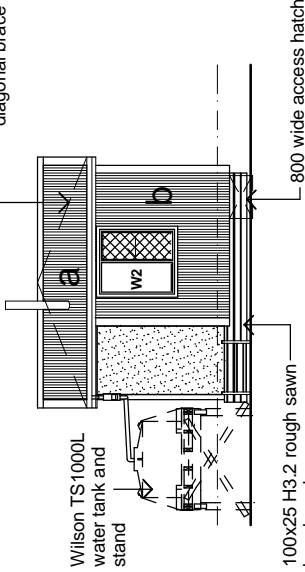
- a COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE cladding over TASMAN INSULATION FLAMESTOP 860 660 building paper over 70 x 45 H3.2 purlins on flat @ 800c/c max. evenly spaced.
- b COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE cladding over TASMAN INSULATION BITTMAC 860 building paper over timber framing. Refer to floor plan for framing sizes & c/c.
- c CHH 9mm ECOPLY CD grade untreated ceiling lining over 70 x 35 H1.2 battens @ 600c/c max.
- d CHH 9mm ECOPLY CD grade untreated wall lining with 10mm gap to flooring.
- e CHH 19mm ECOPLY CD grade H3.2 LONGSPAN flooring F8 over timber joists. Refer to foundation plan for sub floor framing sizes & c/c.
- f 90 x 35 H3.2 grip tread decking, grip side up, even nail spacing. 10mm gap between first piece of decking and wall cladding. Refer to foundation plan for sub floor framing sizes & c/c.

400x300 Holyoake louvre model
OHL-F124 with weathershield



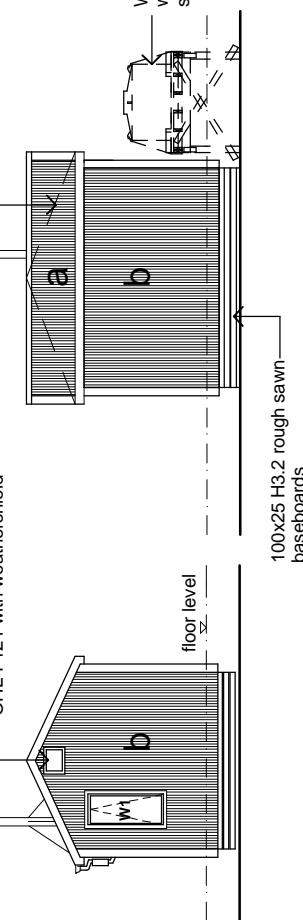
elevation 1 scale 1:100

400x300 Holyoake louvre model
OHL-F124 with weathershield



elevation 2 scale 1:100

400x300 Holyoake louvre model
OHL-F124 with weathershield



elevation 3 scale 1:100

100x25 H3.2 rough sawn
baseboards



elevation 4 scale 1:100

4.0	First Issue Ref No Description Drawing Issue and Amendments V4.0 Standard Verdict 4 Bunk Hut - Appendix B1.1	Mar 09 DATE	- DWY	C/D
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Department of Conservation
Te Papa Atauhau

PROJECT

HUT NAME

LOCATION

LOCATION NAME

AREA OFFICE

NATIONAL PARK NAME

SHEET CONTENTS

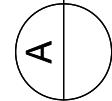
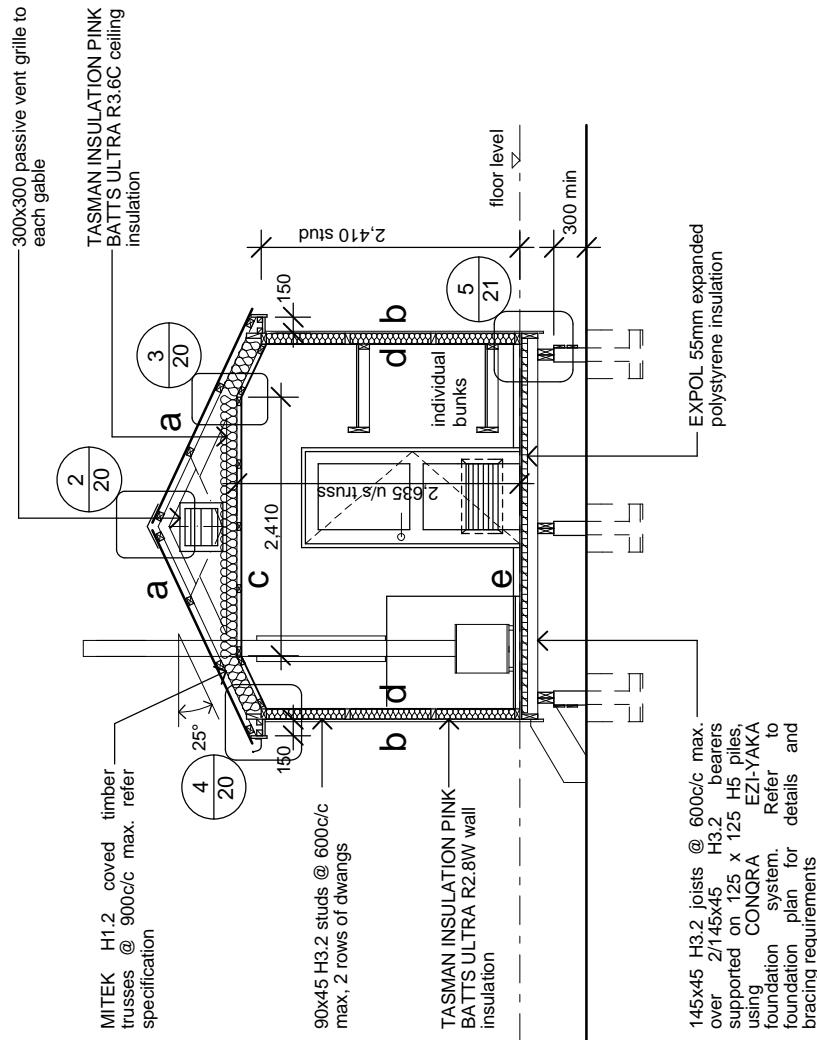
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RP GR RP DATE XYZ

@ A3 SHEET SIZE
Sheet No. REV No.

C03

Material Note:

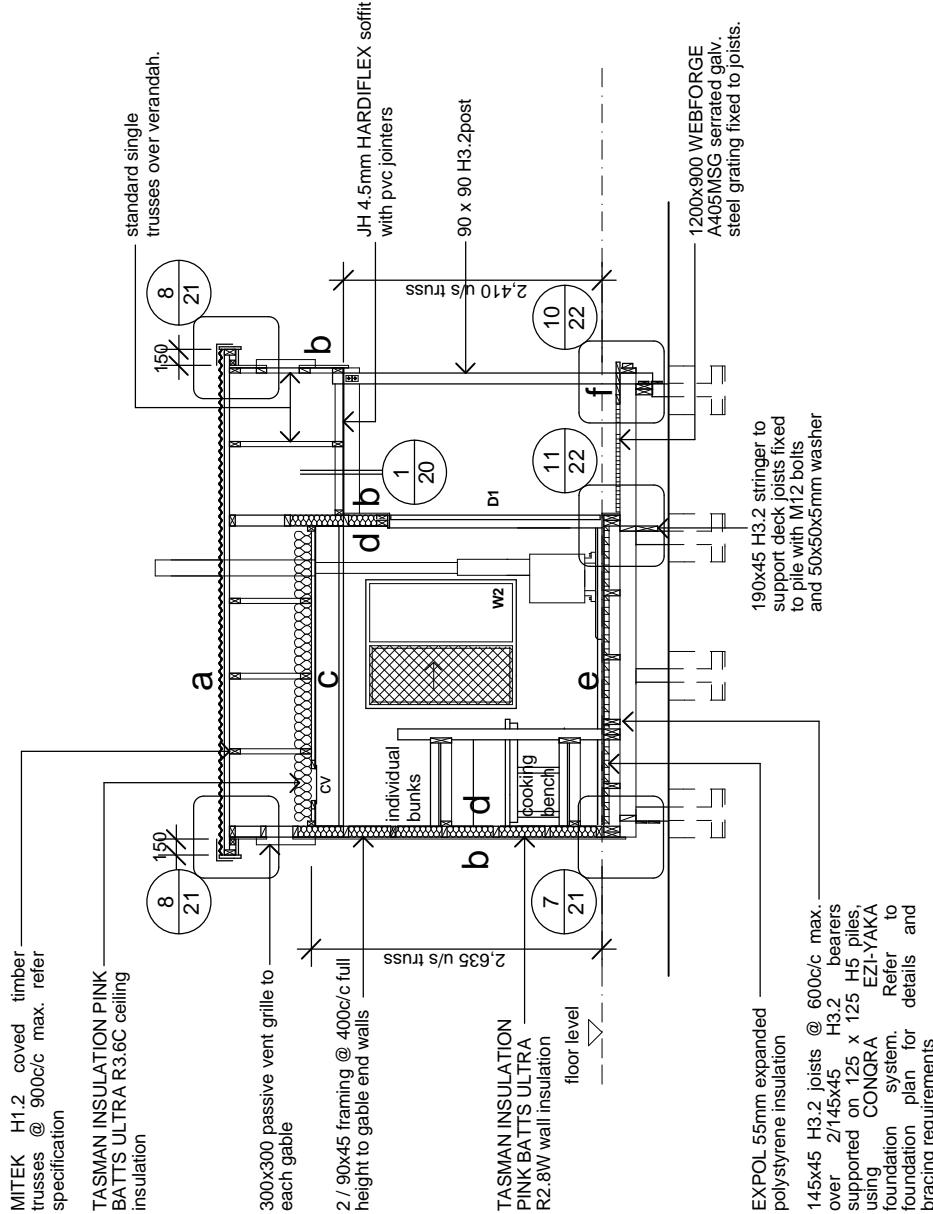


Section
1:50

Contractor shall check all dimensions on site prior to construction					
 Department of Conservation <i>Te Papa Atauhau</i>		LOCATION NAME NATIONAL PARK NAME		SHEET SIZE A3 SHEET NO. SH. NO. REF NO.	
				1:50	
				@ A3 SHEET NO.	
PROJECT	HUT NAME	SECTION	CONTENTS	DESIGN	DRAWN
		A		RP	RP
AREA OFFICE	AREA OFFICE NAME			DATE	XYZ

Material Note:

- a** MITEK H1.2 coved timber trusses @ 900c/c max. refer specification
TASMAN INSULATION PINK BATT ULTRA R3.6C ceiling insulation
- b** COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE cladding over TASMAN INSULATION FLAMESTOP 860 building paper over timber framing. Refer to floor plan for framing sizes & c/c.
- c** CHH 9mm ECOPLY CD grade untreated ceiling lining over 70 x 35 H1.2 battens @ 600c/c max.
- d** CHH 9mm ECOPLY CD grade untreated wall lining with 10mm gap to flooring.
- e** CHH 19mm ECOPLY CD grade H3.2 LONGSPAN flooring F8 over timber joists. Refer to foundation plan for sub floor framing sizes & c/c.
- f** 90 x 35 H3.2 grip tread decking, grip side up, even nail spacing. 10mm gap between first piece of decking and wall cladding. Refer to foundation plan for sub floor framing sizes & c/c.



B Section
1:50

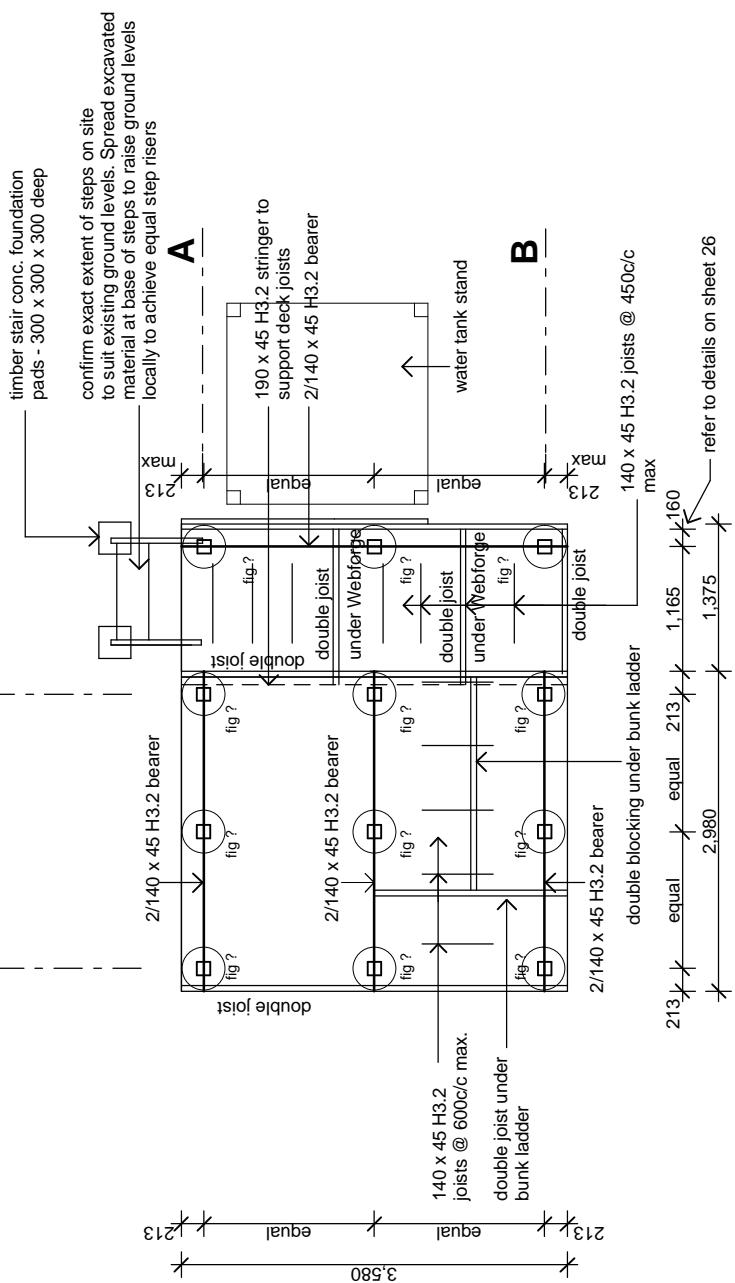
PROJECT	HUT NAME	LOCATION	LOCATION NAME	NATIONAL PARK NAME	SCALE
AREA OFFICE	AREA OFFICE NAME	LOCATION	LOCATION NAME	NATIONAL PARK NAME	
SHEET CONTENTS					
DATE XYZ	DRAWN RP	CHECKED RP	PROJECT No. XYZ	SH. No. RV No.	1:50

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@ A3 SHEET SIZE
Sheet No. RV No.
0819

C05

12kN pile fixings

Use 'Timberlink' PB2 High Corrosion pack (s.s 304) for connection of bearer to pile and bearer to joist. Refer to Appendix in spec for details



foundation plan

1:50

ג'נָזִים

Pile Leggeria: un'esperienza di progettazione

- refer to Congra specification for light foot foundation system and sheet for details

All floor joists and bearers are to be No. 1 Framing / MSG 6 (unless noted otherwise)

 1. refer to Appendix B Congra Foundation Details for construction details and instructions
 2. Piles: 125x125 H5 treated over dimensions shown
refer to Appendix B Congra Foundation Details for construction details and instructions
 3. f1g2  Diagonal brace to be 100x75 with the arrow pointing to top of the pile.
 4.

Soil horizons continuity shall be equal to around around 20 defined in NZS2601



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145

VIE

WORK NAME

110

NAME

SCALES

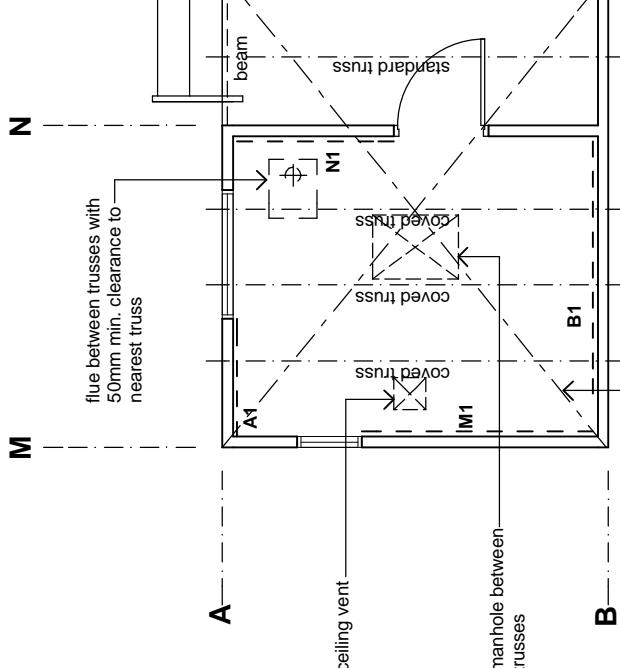
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100

© A3 SHEET SIZE

PROJECT No. _____



roof plane diagonal braces to be galvanised steel straps with 8kN tension fixed to top of each rafter and to top plate and beam, provide 360 x 3.15 nail fixings at intermediate support

bracing plan

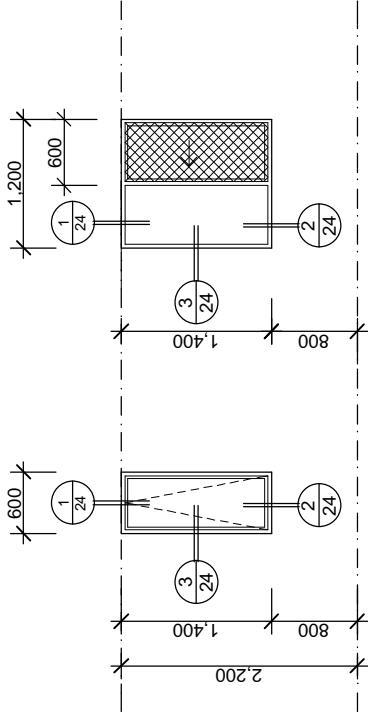
note:

1. indicates CHH ECOPLY wall bracing element and element number. Refer to bracing calculations and manufacturers literature in specification for bracing types, length, height and connections.
2. Truss layout shown is typical, refer to specification for truss manufacturers truss design
3. All connections of trusses to top plates as per specification

4.0	First Issue	Mar 09	-
Ref No	Description	Date	C/C
V4.0 Standard Ventilated Bunk Hut - Appendix B1.1	Drawing Issue and Amendments		
Contractor shall check all dimensions on site prior to construction			

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	HUT NAME	LOCATION	NATIONAL PARK NAME
Te Papa Atauhāi			
PROJECT	LOCATION	NATIONAL PARK NAME	
AREA OFFICE	AREA OFFICE NAME	SHEET CONTENTS	SCALE
	bracing plan		1:50
DESIGN DATE	DRAWN GR	CHECKED RP	PROJECT NO.
RP	GR	RP	XYZ
DATE			Sheet No. Ref No.
XYZ			A3 SHEET SIZE
			07



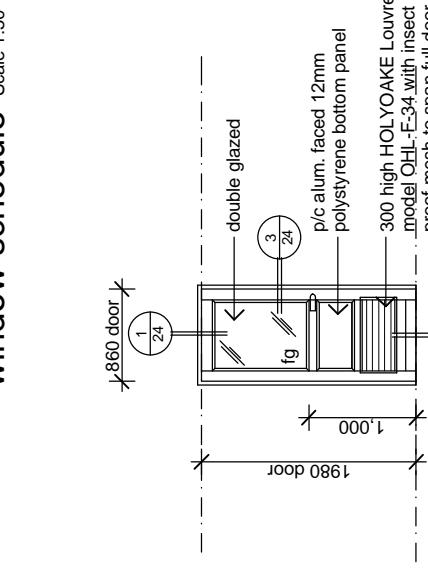
W1

W2

note:

1. W1 to be FIRST powder coated aluminium 40mm Light Commercial suite, double glazed unit, awning sash, with a 150mm restrictor fitted.
2. W2 to be FIRST powder coated SLIDEMASTER sliding window, double glazed units, with removable flyscreen mesh to sliding panel opening
3. All reveals are to be H3.2 treated, ready to receive architraves

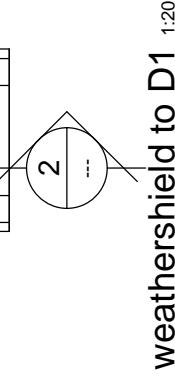
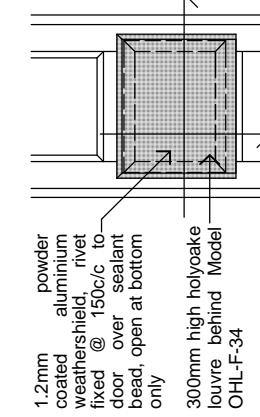
window schedule Scale 1:50



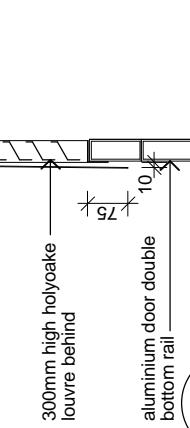
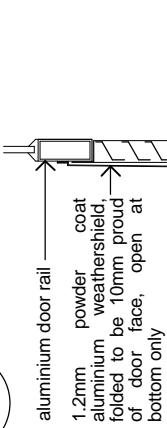
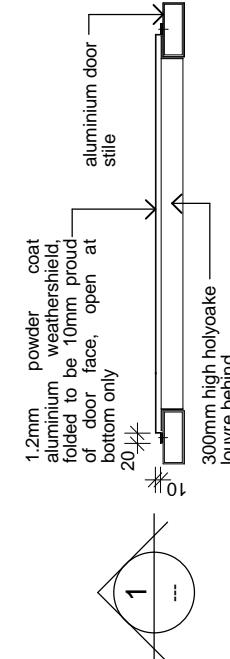
note:

1. FIRST powdercoated MAGNUM commercial door in PC aluminium frame, with H3.2 reveals and no sill.
2. Allow for 100mm top rail and stiles and double 100mm bottom rail
3. LOCKWOOD 3500 series Commercial grade heavy duty latches with lever handle

door schedule scale 1:50



weathershield to D1 1:20



4.0	First Issue Ref No	Description	Mar 09	-
		Drawing Issue and Amendments V4.0 Standard Verdict 4 Blank Hut - Appendix B1.1	Date	DWG C/D

P

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Contractor shall check all dimensions on site prior to construction

**Department of Conservation
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PROJECT **HUT NAME**

LOCATION **LOCATION NAME**

NATIONAL PARKNAME

AREA OFFICE **AREA OFFICE NAME**

SHEET CONTENTS

SCALE 1:50,

1:10,

1:20,

1:30,

1:10.

Sheet No. A3 SHEET SIZE
Ref No. RV No.

08

Appendix B1.2: 6 bunk hut

Base Developed Design Drawings

- Current Drawing Register
- Amendment Register
- Base drawings

ALL DRAWINGS ARE A4 REDUCTIONS OF A3 ORIGINALS AND THEREFORE ARE NOT TO SCALE. DO NOT MEASURE OFF THESE DRAWINGS OR USE FOR CONSTRUCTION.

CURRENT DRAWING REGISTER

Sheet	Title	Version	Date issued
01	6 bunk hut base drawing Site plan	4.0	March 2009
02	6 bunk hut base drawing Floor Plan	4.0	March 2009
C03	6 bunk hut base drawing Elevations	4.0	March 2009
C04	6 bunk hut base drawing Section A-A	4.0	March 2009
C05	6 bunk hut base drawing Section B-B	4.0	March 2009
06	6 bunk hut base drawing Foundation Plan	4.0	March 2009
07	6 bunk hut base drawing Bracing Plan	4.0	March 2009
08	6 bunk hut base drawing Window & Door Schedule	4.0	March 2009

Refer to Appendix B2 for base drawings for sheets 01, 02, 03, 04, 06, and 07 if design options are selected.

AMENDMENT REGISTER

Amendment date	Amendment details (section, page number, block)	Version	Signature of copyholder and date

DESIGN CRITERIA:

altitude = TBA
 corrosion zone = TBA
 floor load = 1.5 kPa
 deck load = 2.0 kPa
 snow load = TBA
 earthquake = TBA
 wind zone = TBA

4.0	First Issue Ref No DESCRIPTION	Mar 09 DATE	- DRAWN	- C/D
Drawing Issue and Amendments V4.0 Standard Verato 6 Bunk Hut - Appendix B1.2				


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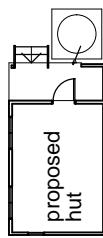
Contractor shall check all dimensions on site prior to construction
 Drawing issue and amendments
 V4.0 Standard Verato 6 Bunk Hut - Appendix B1.2



Department of Conservation
Te Papa Atawhai

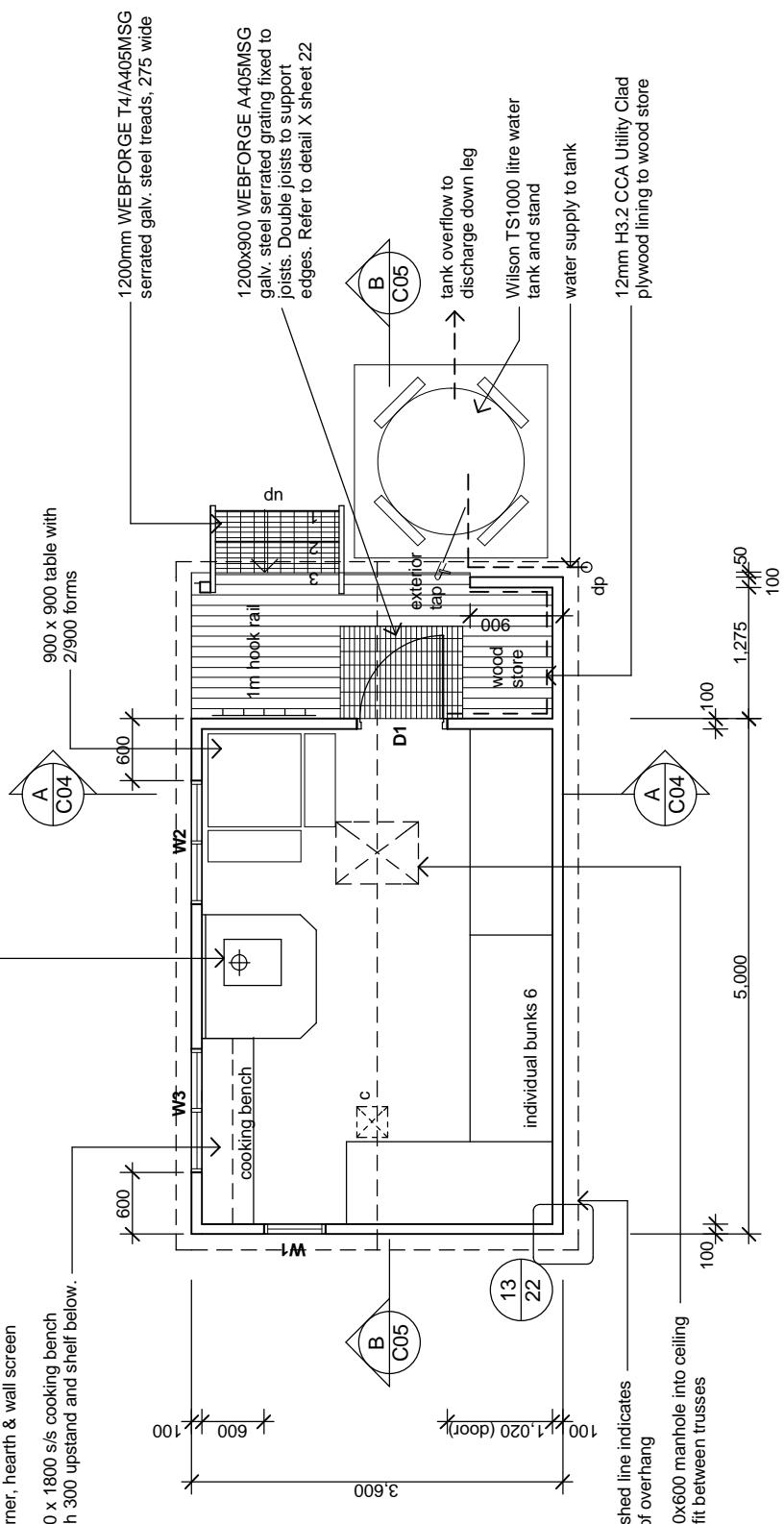
PROJECT	HUT NAME	LOCATION	LOCATION NAME	NATIONAL PARK NAME	SCALE
area office	area office name	sheets			1:200

DESIGN	DRAWN	CHECKED	PROJECT NO.	@ A3 SHEET SIZE
RP	GR	RP	XYZ	Sheet No. Ref No.



site plan
 1:200

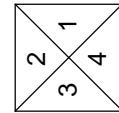
Pioneer Extra Small multi-fuel
burner, hearth & wall screen
500 x 1800 s/s cooking bench
with 300 upstand and shelf below.



floor plan

1:50

- note:**
1. indicates 300 x 300 HOL YOAKE ceiling vent grill, model EC-125



4.0	First Issue	Mar 09	-
Ref No	Description	Date	CD
Drawing Issue and Amendments			
V4.0 Standard Verato 6 Bunk Hut - Appendix B1.2			

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Contractor shall check all dimensions on site prior to construction

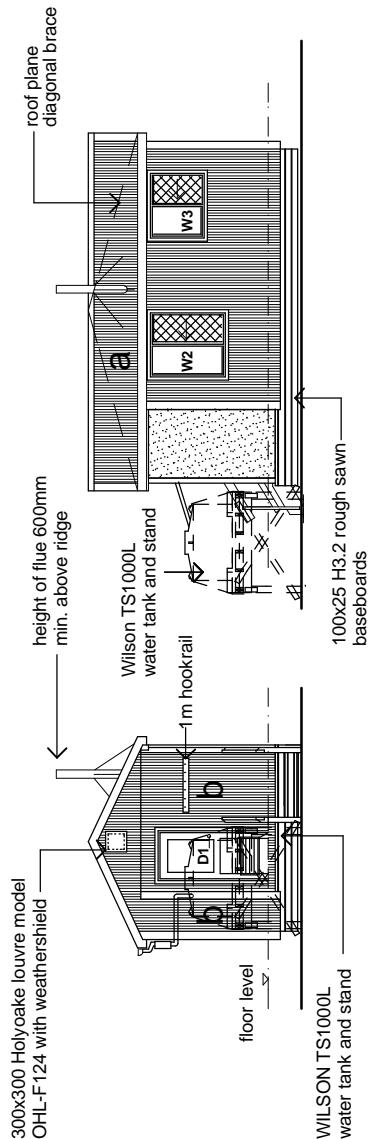
Department of Conservation
Te Papa Atawhai

PROJECT	HUT NAME	LOCATION	LOCATION NAME	NATIONAL PARK NAME	SCALE
					1:50

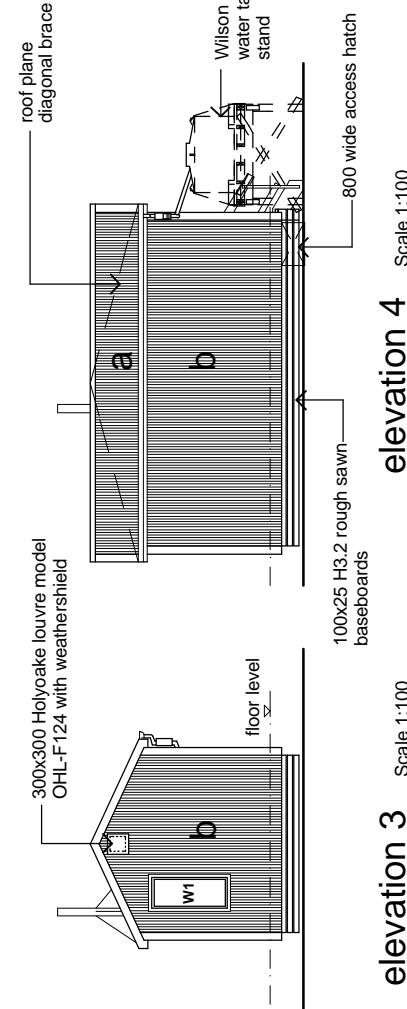
AREA OFFICE	AREA OFFICE NAME	SHEET CONTENTS	DATE	DESIGN DRAWN CHECKED PROJECT NO.	REF NO.	AS 3 SHEET SIZE
	floor plan			RP GR RP XYZ	XYZ	02

Material Note:

- a COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE cladding over TASMAN INSULATION FLAMESTOP 860 660 building paper over 70 x 45 H3.2 purlins on flat @ 800c/c max. evenly spaced.
- b COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE cladding over TASMAN INSULATION BITUMAC 860 building paper over timber framing. Refer to floor plan for framing sizes & c/c.
- c CHH 9mm ECOPLY CD grade untreated ceiling lining over 70 x 35 H1.2 battens @ 600c/c max.
- d CHH 9mm ECOPLY CD grade untreated wall lining with 10mm gap to flooring.
- e CHH 19mm ECOPLY CD grade H3.2 LONGSPAN flooring F8 over timber joists. Refer to foundation plan for sub floor framing sizes & c/c.
- f 90 x 35 H3.2 grip tread decking, grip side up, even nail spacing. 10mm gap between first piece of decking and wall cladding. Refer to foundation plan for sub floor framing sizes & c/c.



elevation 2 Scale 1:100



4.0	First Issue Rev No	Description	Mar 09	-
		Drawing Issue and Amendments V4.0 Standard Verdict 6 Bunk Hut - Appendix B1.2	Date	CD


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Architects Ltd
Caprice House
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Wellington 6140
Phone: 04-473 1577
Fax: 04-384 5177
www.pcl-architects.co.nz

Contractor shall check all dimensions on site prior to construction

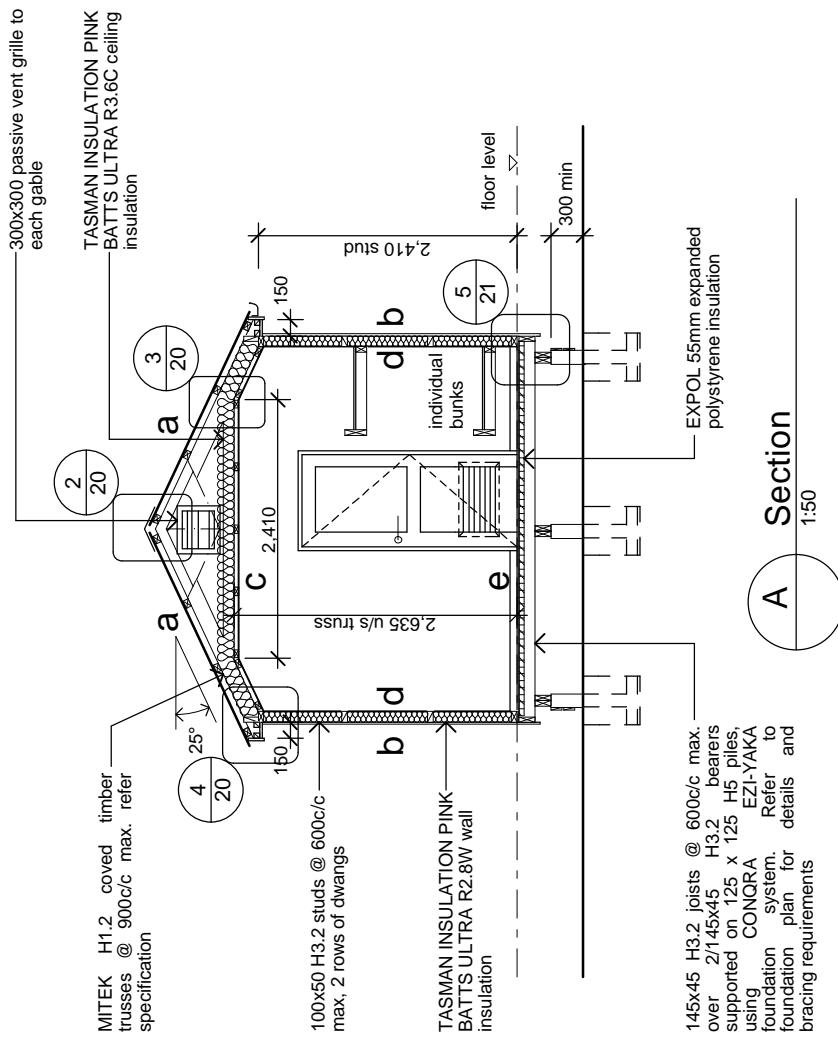
 Department of Conservation
Te Papa Taiao

PROJECT	HUT NAME	LOCATION	LOCATION NAME	NATIONAL PARK NAME
AREA OFFICE	AREA OFFICE NAME	SHEET CONTENTS	SCALE	SH. A3 SHEET SIZE @ A3 SHEET SIZE Rev No. Rev No.
DATE	DRAWN GR DATE XYZ	CHECKED RP DATE XYZ	PROJECT NO. XYZ	1:100

DESIGN DATE XYZ	DRAWN GR DATE XYZ	CHECKED RP DATE XYZ	PROJECT NO. XYZ	SH. A3 SHEET SIZE @ A3 SHEET SIZE Rev No. Rev No.
				C03

Material Note:

- | | |
|----------|--|
| a | COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE roofing over TASMAN INSULATION FLAMESTOP 660 building paper over 70 x 45 H3.2 purlins on flat @ 800cc max. evenly spaced. |
| b | CORRUGATE PROFILE cladding over TASMAN INSULATION BITUMAC 860 building paper over timber framing. Refer to floor plan for framing sizes & o/c. |
| c | CHH 9mm ECOPLY CD grade untreated ceiling lining, over 70 x 35 H1.2 battens @ 600cc max. |
| d | CHH 9mm ECOPLY CD grade untreated wall lining with 10mm gap to flooring. |
| e | CHH 19mm ECOPLY CD grade H3.2 LONGSPAN flooring F8 over timber joists. Refer to foundation plan for sub floor framing sizes & o/c. |
| f | 90 x 35 H3.2 grip tread decking, grip side up, even nail spacing, 10mm gap between first piece of decking and wall cladding. Refer to foundation plan for sub floor framing sizes & o/c. |



		REV No	DESCRIPTION	DRAWING ISSUE AND AMENDMENTS	MAR 09	-	-	DATE	DWN	CKD
4.0			First Issue							

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Department of Conservation

Te Papa Atawhai

HUT NAME _____

LOCATION NAME
NATIONAL PARK NAME

AREA OFFICE **AREA OFFICE NAME**

SHEET CONTENTS _____ SCALES

section A	1:50		
	DESIGN RP	DRAWN GR	CHECKED RP
DATE xx/xx			PROJECT No. C04
			@ A3 SHEET SIZE Sheet No. - Rev No.

Material Note:

- a** MITEK H1.2 coved timber trusses @ 900c/c max. refer specification
TASMAN INSULATION PINK BATT ULTRA R3.6C ceiling insulation
- b** COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE cladding over TASMAN INSULATION FLAMESTOP 860 building paper over timber framing. Refer to floor plan for framing sizes & c/c.
- c** CHH 9mm ECOPLY CD grade untreated ceiling lining over 70 x 45 H3.2 purlins on flat @ 800c/c max. evenly spaced.
- d** CHH 9mm ECOPLY CD grade untreated wall lining with 10mm gap to flooring. @ 600c/c max.
- e** CHH 19mm ECOPLY CD grade H3.2 LONGSPAN flooring F8 over timber joists. Refer to foundation plan for sub floor framing sizes & c/c.
- f** 90 x 35 H3.2 grip tread decking, grip side up, even nail spacing. 10mm gap between first piece of decking and wall cladding. Refer to foundation plan for sub floor framing sizes & c/c.
-

4.0	First Issue Ref No	Description	Mar 09 DATE	-
		Drawing Issue and Amendments V4.0 Standard Verdict 6 Blank Hut - Appendix B1.2		C/D


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Department of Conservation
Te Papa Atauhau

PROJECT

HUT NAME

LOCATION

NATIONAL PARK NAME

AREA OFFICE

AREA OFFICE NAME

SHEET CONTENTS

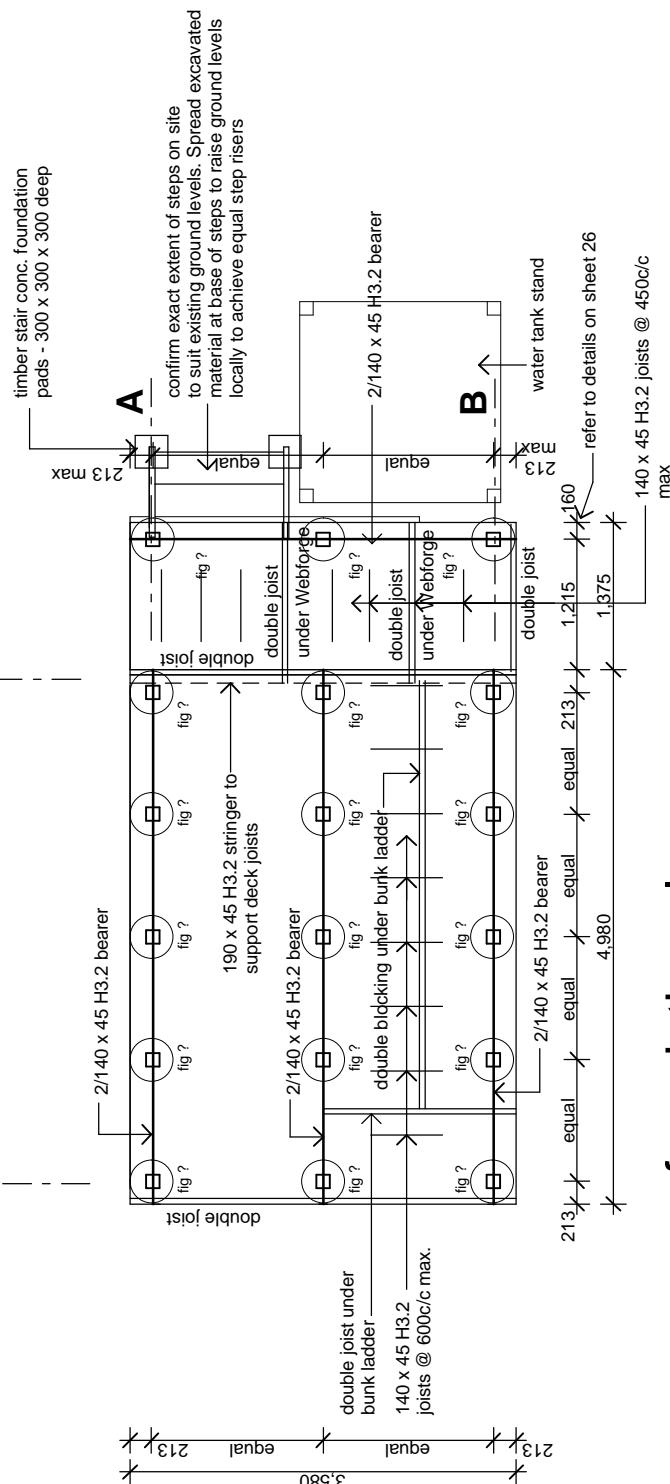
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TS SIGN RP DATE XYZ	DRAWN GR DATE XYZ	CHECKED RP DATE	PROJECT NO. Ref No. Rev No.	@ A3 SHEET SIZE Sheet No. Rev No.
				C05

12kN pile fixings

Use 'Timberlink' PB2 High Corrosion pack (s.s 304) for connection of bearer to pile and bearer to joist. Refer to Appendix in spec for details



foundation plan

read in conjunction with floor plan

Pile I agenda:

• legends: refer to Congra specification for "legends".

1. All floor joists and bearers are to be No. 1 Framing / MSG 6 (unless noted otherwise)
 2. Piles: 125x125 H5 treated over dimensions shown
 3. fig2 refer to Appendix B Congra Foundation Details for construction details and instructions
 4. Diagonal brace to be 100x75 with the arrow pointing to top of the pile.
 5. Soil bearing capacity shall be equal to good ground as defined in NZS3604.

4.0	First Issue		Mar 09	-	
REV No	DESCRIPTION		DATE	DWN	CKD
Drawing Issue and Amendments					
VA.O Standard Visitor & Bunk List Appendix R1.2					



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ons on site prior to construc



Department
Te Papa A

REFLECTION

HUI NAME

LOCATION | OCCUPATION

ECONOMIC NATIONAL PARK

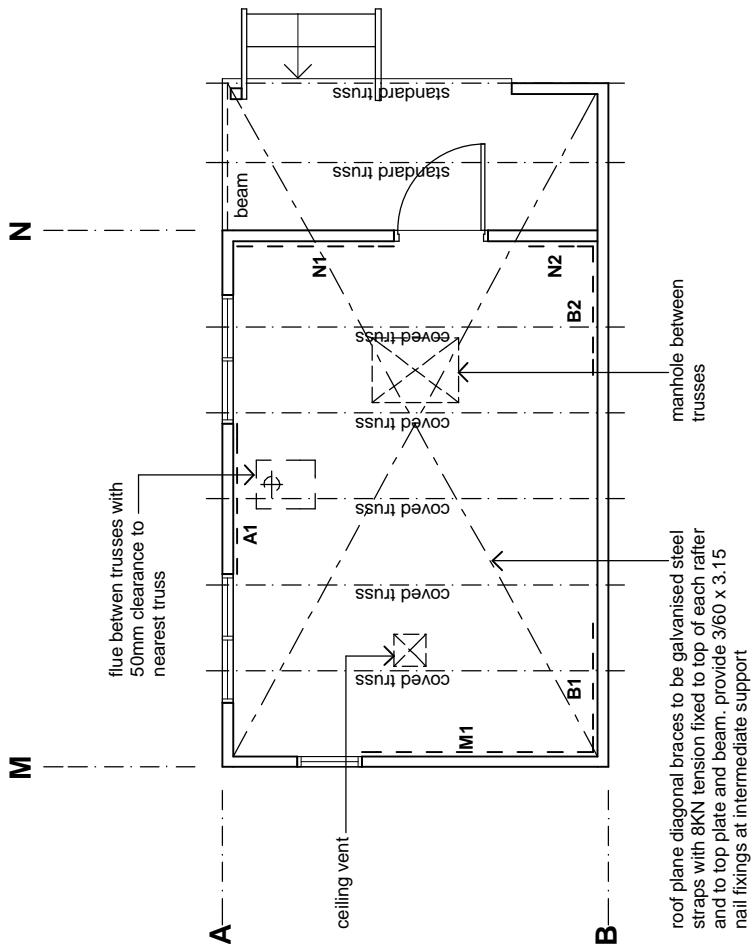
מיכאל עלי

AREA OFFICE

SHEET1 CONTENTS

foundation plan

@ A3 SHEET SIZE		
SH. NO.	REV. NO.	
-	-	

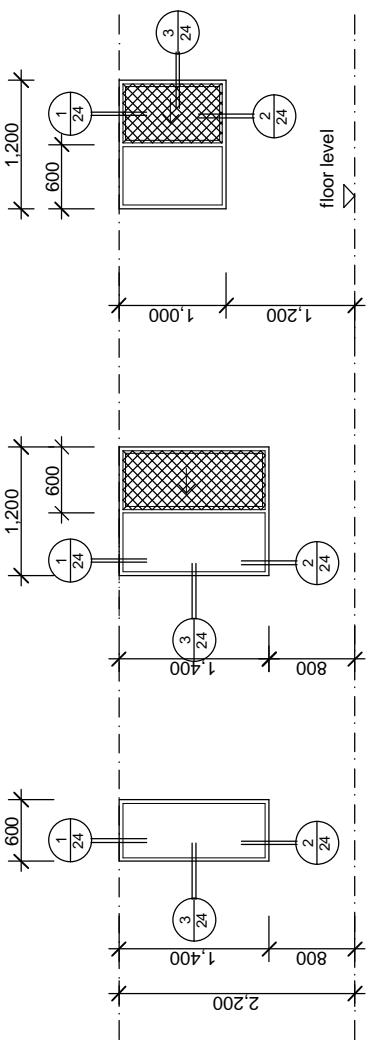


bracing plan

note:

2. Truss layout shown is typical, refer to specification for truss manufacturers truss design
 3. All connections of trusses to top plates as per specification

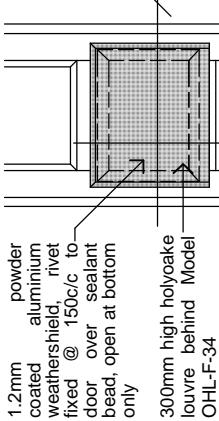
4.0	First Issue	Mar 09	-
	Rev No	DESCRIPTION	DATE
Drawing Issue and Amendments			
V4.0 Standard Vision 6 Bulk Hut - Appendix B1.2			
 PYNENBURG & COLLINS ARCHITECTS LTD			
Capitch House 111 Dixon St P.O.Box 2115 Wellington 6140 Phone: 04-473 7577 Fax: 04-384 5177 www.pcarchitects.co.nz			
<small>Contractor shall check all dimensions on site prior to construction</small>			
HUT NAME  Department of Conservation <i>Te Papa Atawhai</i>			
PROJECT LOCATION NATIONAL PARK NAME			
AREA OFFICE NAME SHEET CONTENTS braiding plan			
		SCALE	1:50
		REV NO.	@ A3 SHEET SIZE
		RP	RP
		GR	GR
		DATE	xyz
			07



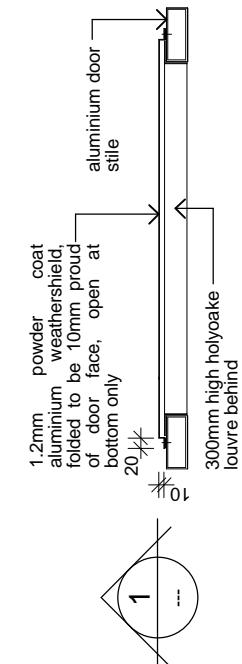
note:

1. W1 to be FIRST powder coated aluminium 40mm Light Commercial suite, double glazed unit, fixed sash
2. W2, and W3 to be FIRST powder coated aluminium SLIDEMASTER sliding window, double glazed units, with removable flyscreen mesh to sliding panel opening
3. All reveals are to be H3.2 treated, ready to receive architraves

window schedule Scale 1:50



1.2mm powder coated aluminium weathershield, rivet fixed @ 150cc to door over sealant bead, open at bottom only
300mm high halyoake louvre behind Model OHL-F-34



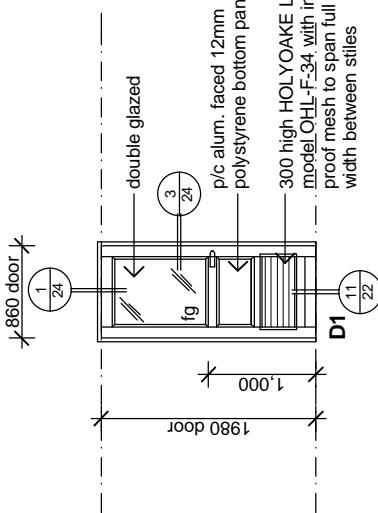
1.2mm powder coated aluminium weathershield, folded to be 10mm proud of door face, open at bottom only
300mm high halyoake louvre behind Model OHL-F-34

W3

W2

W1

window schedule Scale 1:50



J:\Clients\CAD\0819\DOC BCode MDC\0819 Drawings\0819 DOC huts manual WORKING COPY.pln

note:

1. FIRST powdercoated MAGNUM commercial door in PC aluminium frame, with H3.2 reveals and no sill.
2. Allow for 100mm top rail and stiles and double 100mm bottom rail
3. LOCKWOOD 3500 series Commercial grade heavy duty latches with lever handle

door schedule Scale 1:50

4.0 First Issue Mar 09 -

Ref No Description Date DWG C/D

Drawing Issue and Amendments

V4.0 Standard Verdict 6 Blank Hut - Appendix B1.2

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Te Papa Atawhai

PROJECT HUT NAME

LOCATION LOCATION NAME

NATIONAL PARKNAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS

window & door schedule

1:50, 1:10, 1:20,

@ A3 SHEET SIZE

Sheet No. Ref No.

08

DATE XYZ

DESIGN RP DRAWN GR CHECKED RP DATE XYZ

Appendix B1.3: 10 bunk hut

Base Developed Design Drawings

- Current Drawing Register
- Amendment Register
- Base drawings

ALL DRAWINGS ARE A4 REDUCTIONS OF A3 ORIGINALS AND THEREFORE ARE NOT TO SCALE. DO NOT MEASURE OFF THESE DRAWINGS OR USE FOR CONSTRUCTION.

CURRENT DRAWING REGISTER

Sheet	Title		Version	Date issued
01	10 bunk hut base drawing	Site plan	4.0	March 2009
02	10 bunk hut base drawing	Floor Plan	4.0	March 2009
C03	10 bunk hut base drawing	Elevations	4.0	March 2009
C04	10 bunk hut base drawing	Section A-A	4.0	March 2009
C05	10 bunk hut base drawing	Section B-B	4.0	March 2009
06	10 bunk hut base drawing	Foundation Plan	4.0	March 2009
07	10 bunk hut base drawing	Bracing Plan	4.0	March 2009
08	10 bunk hut base drawing	Window & Door Schedule	4.0	March 2009

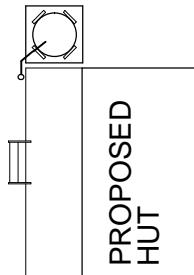
Refer to Appendix B2 for base drawings for sheets 01, 02, 03, 05, 06, and 07 if design options are selected.

AMENDMENT REGISTER

Amendment date	Amendment details (section, page number, block)	Version	Signature of copyholder and date

DESIGN CRITERIA:

altitude = TBA
 corrosion zone = TBA
 floor load = 1.5 kPa
 deck load = 2.0 kPa
 snow load = TBA
 earthquake = TBA
 wind zone = TBA



4.0	First Issue Ref No DESCRIPTION	Mar 09 DATE	- DWL	C/D
Drawing Issue and Amendments V4.0 Standard Visitor 10 Blank Hut - Appendix B1.3				


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PROJECT	HUT NAME	LOCATION	LOCATION NAME	NATIONAL PARK NAME	SCALE
area office	area office name	site plan	1:200		1:200

site plan
1:200

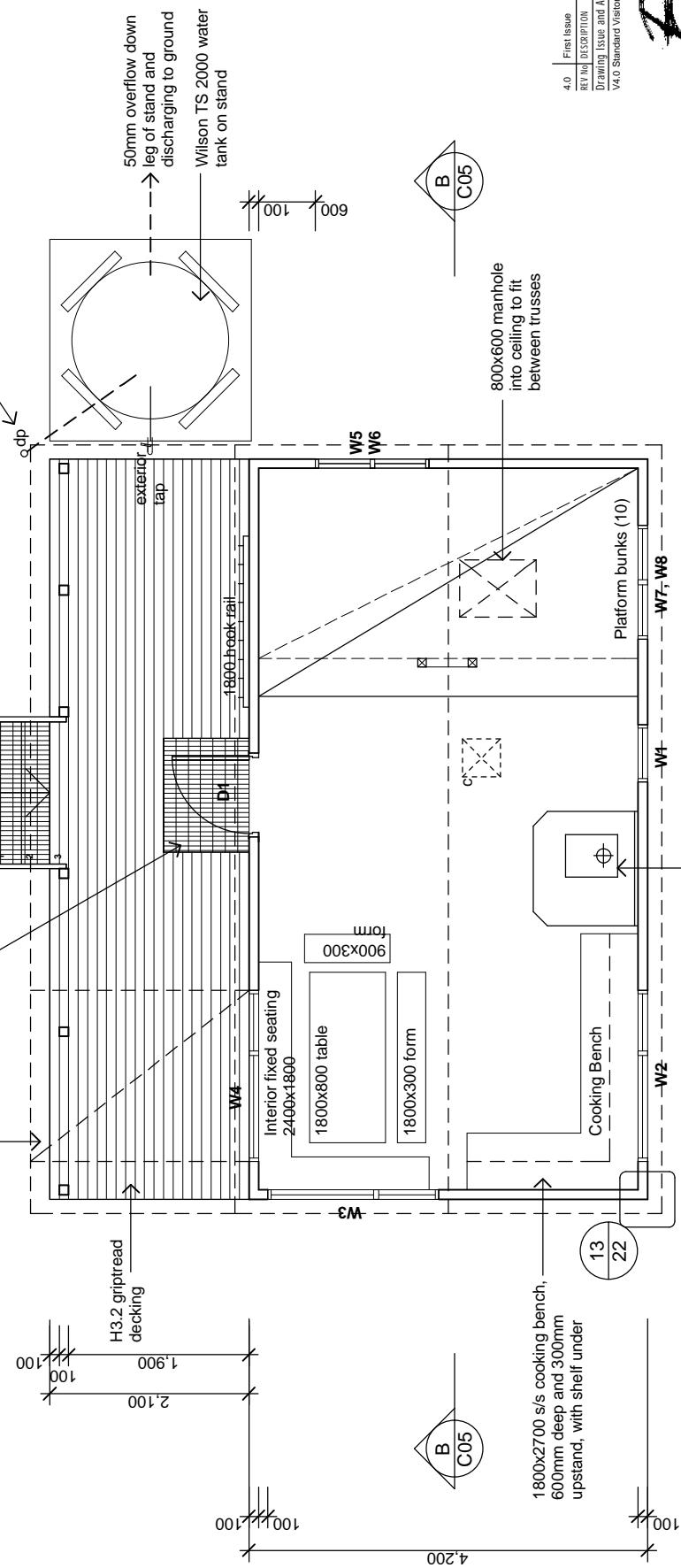
1200x900 WEBFORGE A405MSG
galv. steel serrated grating fixed to
joists. Double joists to support edges
Refer to detail X sheet 22

- 1500mm WEBFORGE T4/A405MSG
- serrated galv. steel treads, 275 wide

ALSYNITE LASERLITE 2000
translucent ROMA profile roofing
over window, COLORSTEEL
ENDURA elsewhere

100 300 (W4)

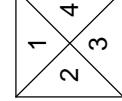
A technical architectural section drawing labeled 'A-C04'. The drawing shows a horizontal steel tread path with a width of 3,000 (D1) mm. Above the path, a vertical line indicates a height of 100 mm. A bracket on the left side specifies 'serrated galv. steel treads, 275 wide'. To the right, a vertical pipe is labeled '50 post' with a valve symbol. An arrow points upwards from the pipe, labeled 'water supply from verandah gutter only'. A small circle at the bottom left contains the letters 'A' and 'C04'.



floor plan

164

- indicates 400 x 400 HOLYOAKE ceiling vent grill, model EC-125

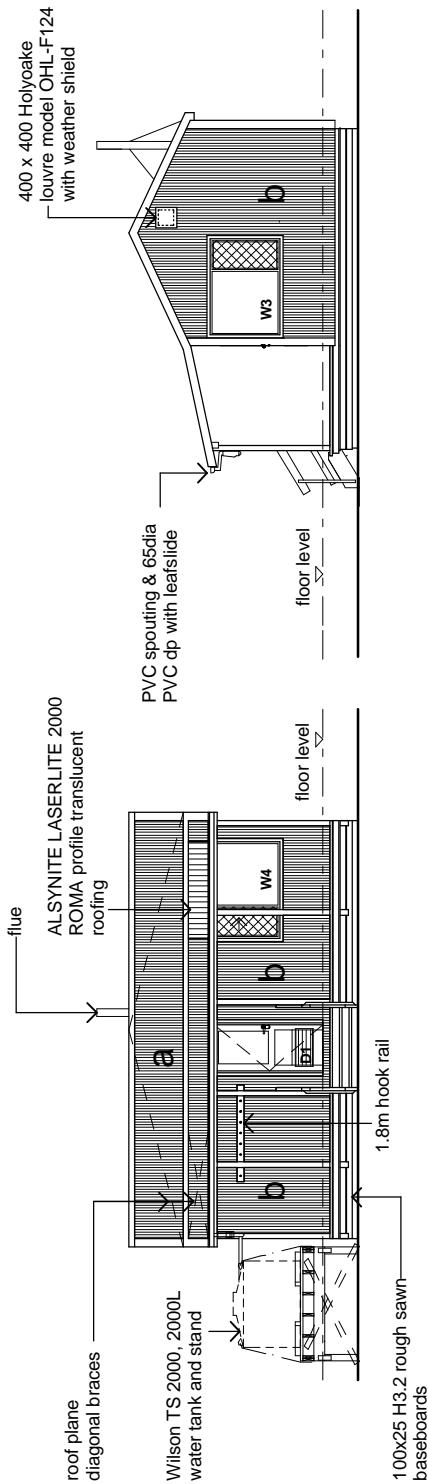


elevation key

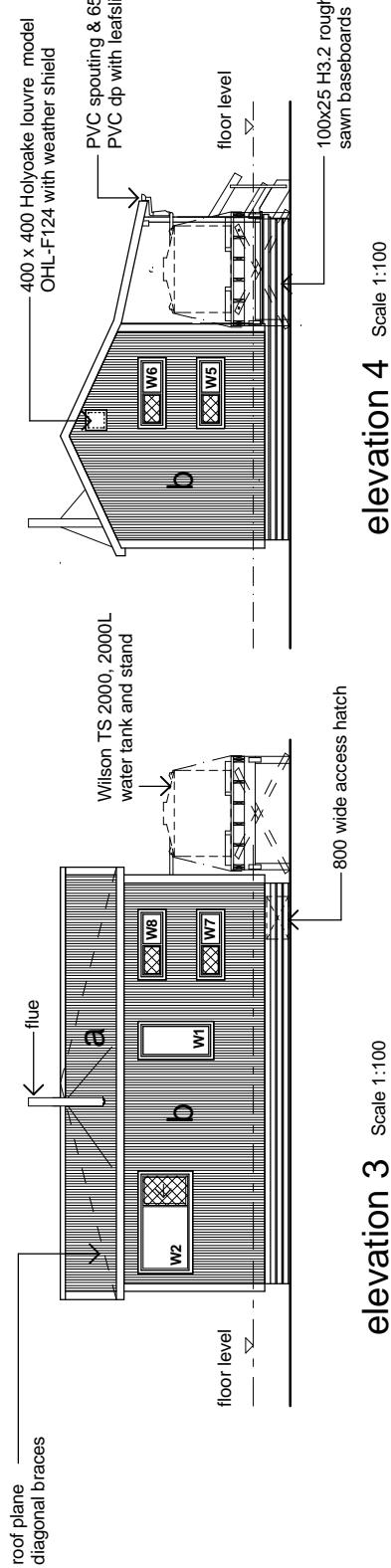
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Department of Conservation Te Papa Atawhai																									
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<table border="1"> <thead> <tr> <th>DESIGN RP</th> <th>DRAWN RP</th> <th>CHEKED RP</th> <th>PROJECT No.</th> <th>DATE xyz</th> <th>SCALES @ A3 SHEET SIZE</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Sheet No. Rev No. xyz</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>02</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>xyz</td> </tr> </tbody> </table>		DESIGN RP	DRAWN RP	CHEKED RP	PROJECT No.	DATE xyz	SCALES @ A3 SHEET SIZE						Sheet No. Rev No. xyz						02						xyz
DESIGN RP	DRAWN RP	CHEKED RP	PROJECT No.	DATE xyz	SCALES @ A3 SHEET SIZE																				
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Material Note:

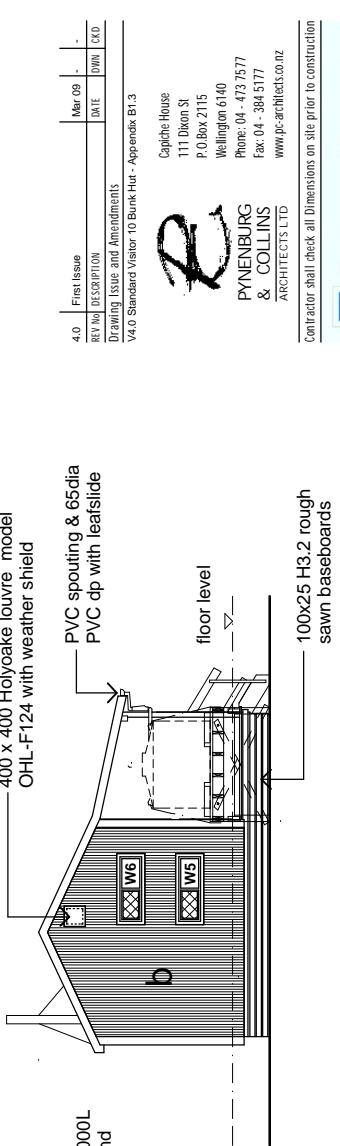
- a COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE roofing over TASMAN INSULATION FLAMESTOP 860 660 building paper over 70 x 45 H3.2 purlins on flat @ 800c/c max. evenly spaced.
- b COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE cladding over TASMAN INSULATION BITUMAC 860 building paper over timber framing Refer to floor plan for framing sizes & c/c.
- c CHH 9mm ECOPLY CD grade untreated ceiling lining over 70 x 35 H1.2 battens @ 600c/c max.
- d CHH 9mm ECOPLY CD grade untreated wall lining with 10mm gap to flooring.
- e CHH 19mm ECOPLY CD grade H3.2 LONGSPAN flooring F8 over timber joists. Refer to foundation plan for sub floor framing sizes & c/c.
- f 90 x 35 H3.2 grip tread decking, grip side up, even nail spacing. 10mm gap between first piece of decking and wall cladding. Refer to foundation plan for sub floor framing sizes & c/c.



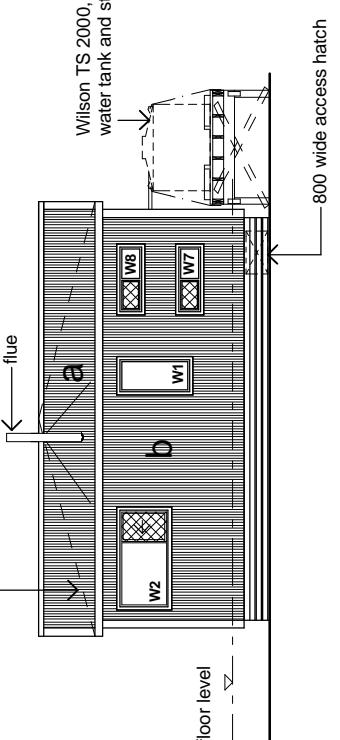
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elevation 2 Scale 1:100

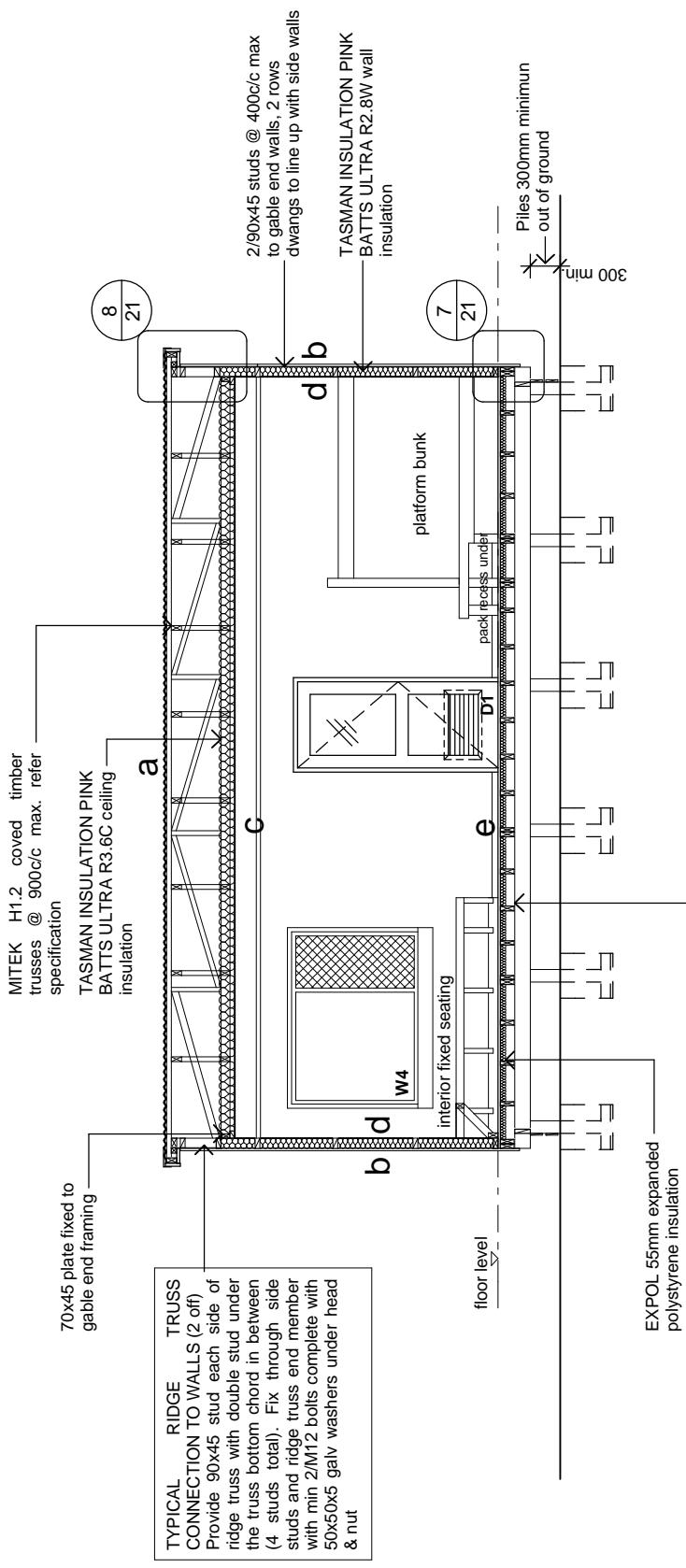


elevation 3 Scale 1:100



elevation 4 Scale 1:100

PROJECT		HUT NAME	
AREA OFFICE	LOCATION	LOCATION NAME	NATIONAL PARK NAME
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4.0	First Issue	Mar 09
Ref No	Description	Date
Drawing Issue and Amendments		
V4.0 Standard Visitor 10 Bunk Hut - Appendix B1.3		

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Department of Conservation

PROJECT HUT NAME

LOCATION

NATIONAL PARK NAME

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AREA OFFICE NAME

SHEET CONTENTS

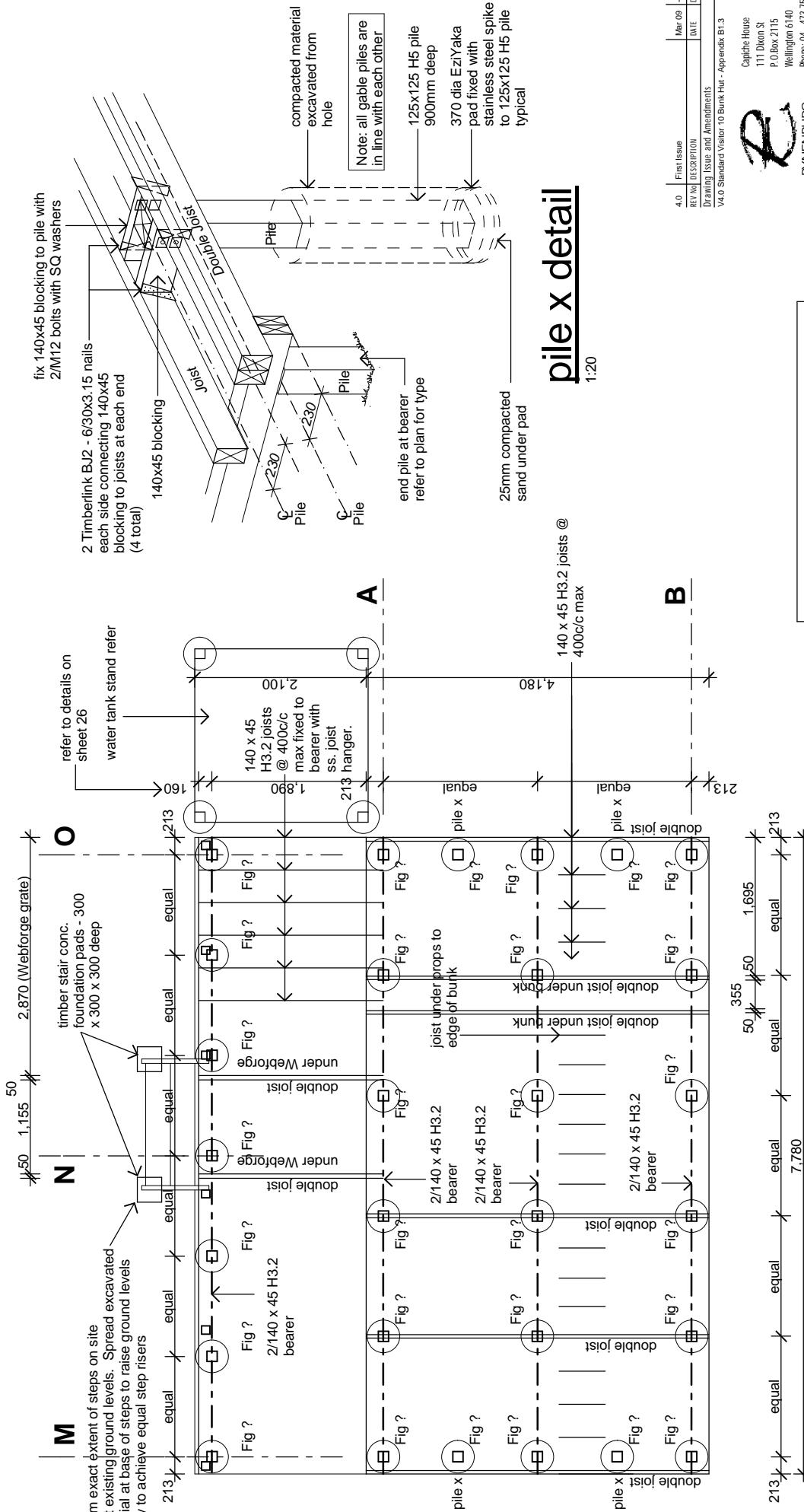
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Sheet No. B

Rev No. B

C05



pile x detail

12kN pile fixings

Use 'Timberlink' PB2 High Corrosion pack (s.s. 304) for connection of bearer to pile and bearer to joist. Refer to Appendix in spec for details

foundation plan

1:50
read in conjunction with floor plan

- Pile Legend:**

refer to Congra specification for "light foot" foundation system and sheet for details

 1. All floor joists and bearers are to be No. 1 Framing / MSG 6 (unless noted otherwise)
 2. Piles: 125x125 H5 treated over dimensions shown
 3.  refer to Appendix B Congra Foundation Details for construction details and instruction
 4. Diagonal brace to be 100x75 with the arrow pointing to top of the pile.
 5. Soil bearing capacity shall be equal to good ground as defined in NZS3604.

REV NO	DESCRIPTION	DATE	DWN	CKD
<u>Drawing Issue and Amendments</u>				
V4.0 Standard Visitor 10 Bunk Hut - Appendix B1.3				



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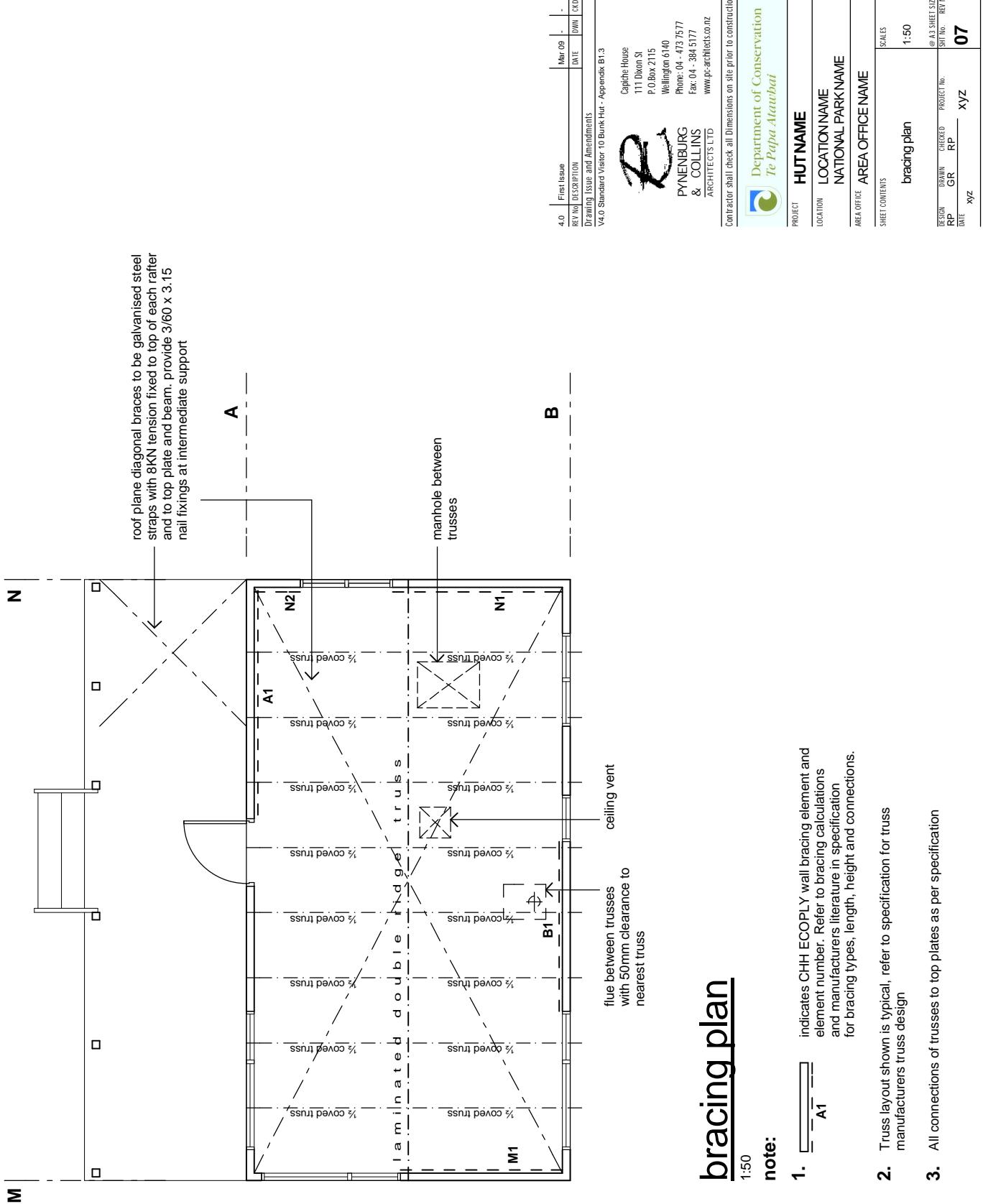
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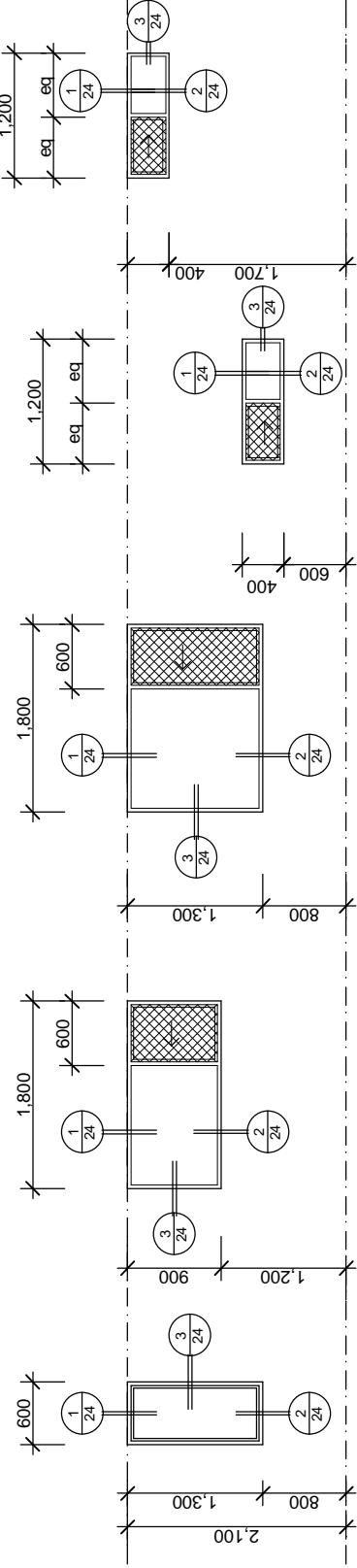


bracing plan

1:50

- A1

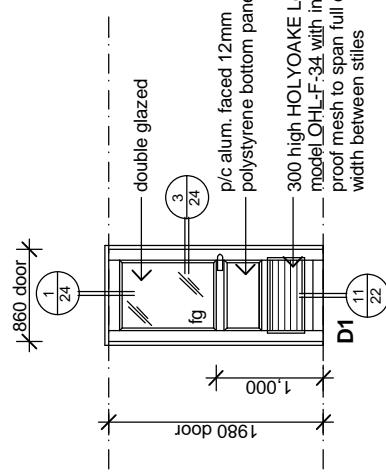
 - 2. Truss layout shown is typical, refer to specification for truss manufacturers truss design
 - 3. All connections of trusses to top plates as per specification



note:

- W1 to be FIRST powder coated aluminium 40mm Light Commercial suite, double glazed unit, fixed sash
- W2 - W8 to be FIRST powder coated aluminium SLIDEMASTER sliding window, double glazed units, with removable flyscreen mesh to sliding panel opening
- All reveals are to be H3.2 treated, ready to receive architraves

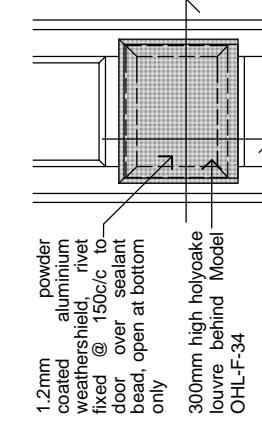
window schedule Scale 1:50



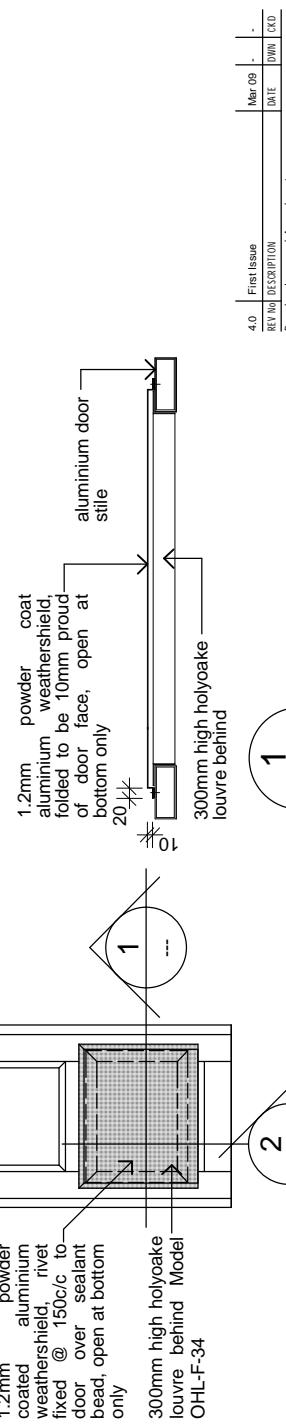
note:

- FIRST powdercoated MAGNUM commercial door in FC aluminium frame, with H3.2 reveals and no sill.
- Allow for 100mm top rail and stiles and double 100mm bottom rail
- LOCKWOOD 3500 series Commercial grade heavy duty latches with lever handle

door schedule Scale 1:50



weathershield to D1 1:20



4.0 First Issue
Ref No Description Date Mar 09 C/D

Drawing Issue and Amendments

V4.0 Standard Visiter 10 Bulk hut - Appendix B1.3

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Department of Conservation
Te Papa Atawhai

PROJECT HUT NAME

LOCATION LOCATION NAME

NATIONAL PARKNAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS

10 bulk window & door

schedule

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Department of Conservation

Te Papa Atawhai

PROJECT HUT NAME

LOCATION LOCATION NAME

NATIONAL PARKNAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS

10 bulk window & door

schedule

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Appendix B1.4: 12 bunk hut

Base Developed Design Drawings

- Current Drawing Register
- Amendment Register
- Base drawings

ALL DRAWINGS ARE A4 REDUCTIONS OF A3 ORIGINALS AND THEREFORE ARE NOT TO SCALE. DO NOT MEASURE OFF THESE DRAWINGS OR USE FOR CONSTRUCTION.

CURRENT DRAWING REGISTER

Sheet	Title		Version	Date issued
01	12 bunk hut base drawing	Site plan	4.0	March 2009
02	12 bunk hut base drawing	Floor Plan	4.0	March 2009
C03	12 bunk hut base drawing	Elevations	4.0	March 2009
C04	12 bunk hut base drawing	Section A-A	4.0	March 2009
C05	12 bunk hut base drawing	Section B-B	4.0	March 2009
06	12 bunk hut base drawing	Foundation Plan	4.0	March 2009
07	12 bunk hut base drawing	Bracing Plan	4.0	March 2009
08	12 bunk hut base drawing	Window & Door Schedule	4.0	March 2009

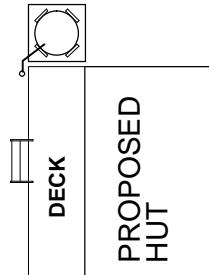
Refer to Appendix B2 for base drawings for sheets 01, 02, 03, 05, 06, and 07 if design options are selected.

AMENDMENT REGISTER

Amendment date	Amendment details (section, page number, block)	Version	Signature of copyholder and date

DESIGN CRITERIA:

altitude = TBA
 corrosion zone = TBA
 floor load = 1.5 kPa
 deck load = 2.0 kPa
 snow load = TBA
 earthquake = TBA
 wind zone = TBA



4.0	First Issue Ref No	Mar 09 DATE	- DRAWN
Drawing Issue and Amendments V4.0 Standard Visitor 12 Blank Hut - Appendix B1.4			


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© Clients CAD0819 DOC BCode MOC0819 Drawings0819 DOC huts manual WORKING COPY.pln



PROJECT	HUT NAME	LOCATION	LOCATION NAME	NATIONAL PARK NAME
AREA OFFICE	AREA OFFICE NAME	SHEET CONTENTS	SCALE	1:200

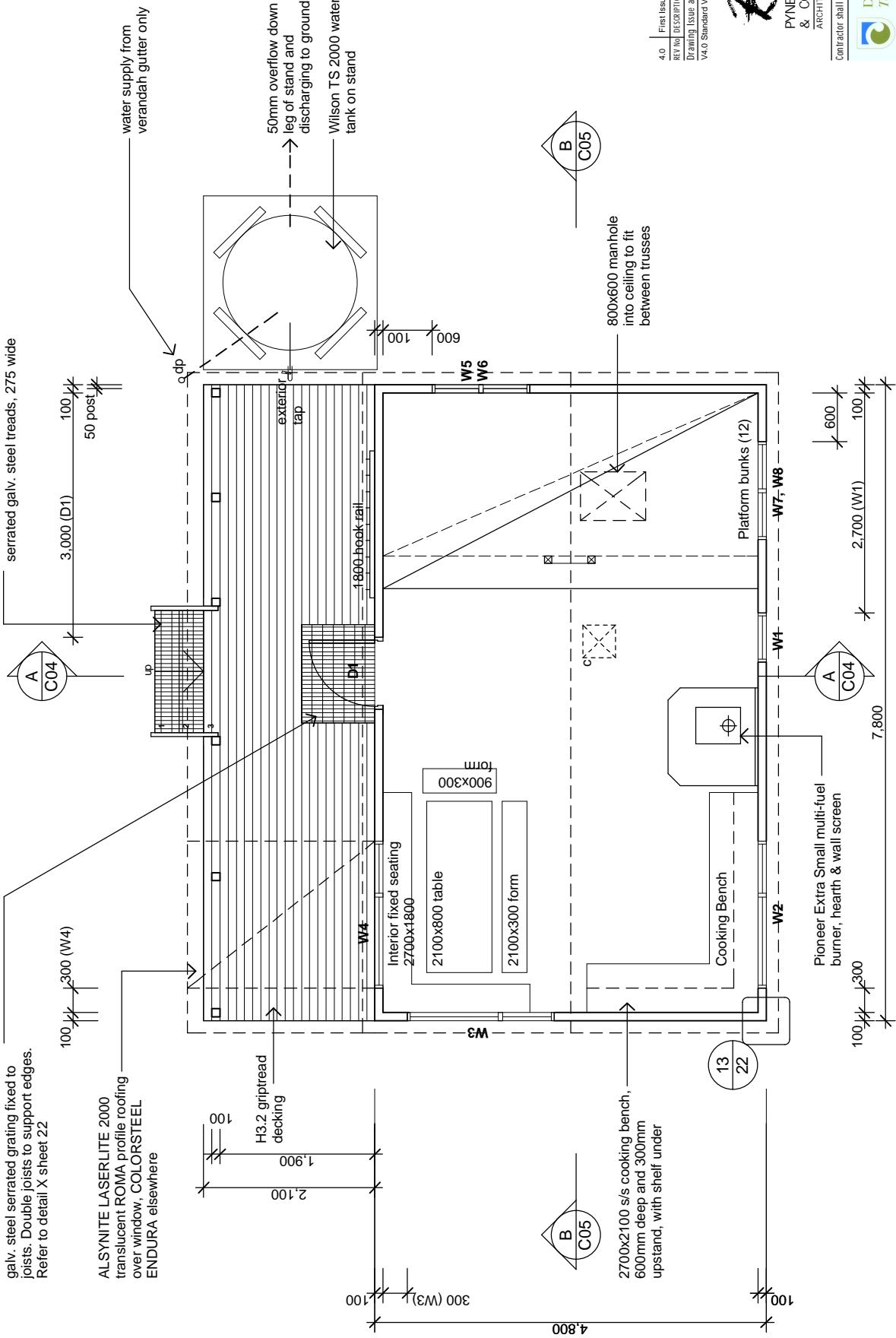
DESIGN	DRAWN	CHECKED	PROJECT NO.	@ A3 SHEET SIZE
RP	GR	RP	XYZ	Ref No. Rev No.

site plan
1:200

1200x900 WEBFORGE A405MSG
galv. steel serrated grating fixed to
joists. Double loists to support edges.
Refer to detail X sheet 22

ALSYNITE LASERLITE 2000
translucent ROMA profile roofing
over window, COLORSTEEL
ENDURA elsewhere

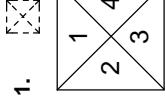
1500mm WEBFORGE T4/A405MSG
serrated galv. steel treads, 275 wide



floor plan

1:50

note:



1. indicates 400 x 400 HOLYOAKE ceiling vent grill, model EC-125

PROJECT	HUT NAME	LOCATION	LOCATION NAME	NATIONAL PARK NAME	SCALE
	Te Papa Atauhai	Pynnenburg & Collins Architects Ltd	Captain House 111 Dixon St P.O.Box 2115 Wellington 6140 Phone: 04-473 1577 Fax: 04-384 5177 www.pc-architects.co.nz	Mar 09 Drawing Issue and Amendments V4.0 Standard Visitor 12 Bunk Hut - Appendix B1.4	1:50 @ A3 SHEET SIZE SHEET NO. B7/10



Department of Conservation

Te Papa Atauhai

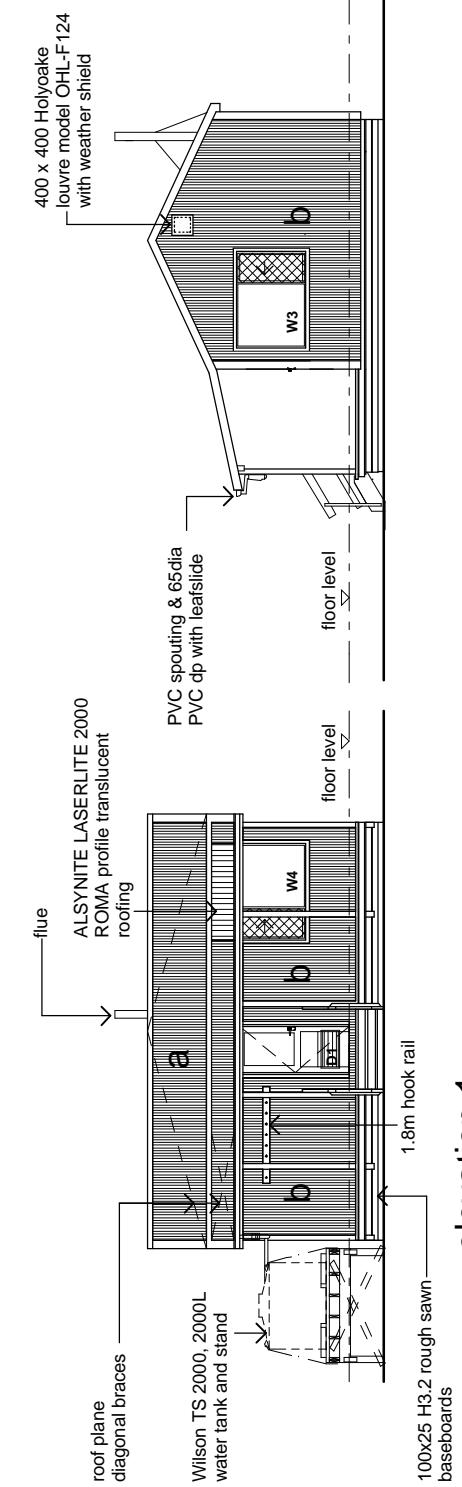
Contractor shall check all dimensions on site prior to construction

4.0 First Issue
Ref No. Drawing No. / Date

4.0 Drawing No. / Date

Material Note:

a COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE cladding over TASMAN INSULATION FLAMESTOP 860 building paper over timber framing. Refer to floor plan for framing sizes & c/c.



elevation 1 Scale 1:100

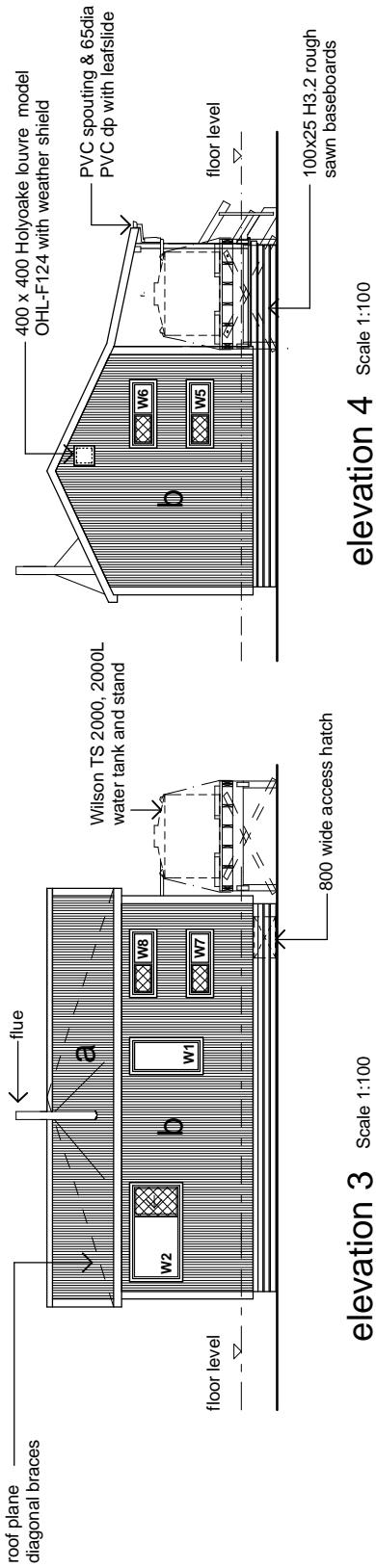
b CHH 9mm ECOPLY CD grade untreated ceiling lining over 70 x 35 H1.2 battens @ 600c/c max.

c CHH 9mm ECOPLY CD grade untreated wall lining with 10mm gap to flooring.

d CHH 19mm ECOPLY CD grade H3.2 LONGSPAN flooring F8 over timber joists. Refer to foundation plan for sub floor framing sizes & c/c.

e 90 x 35 H3.2 grip tread decking, grip side up, even nail spacing. 10mm gap between first piece of decking and wall cladding. Refer to foundation plan for sub floor framing sizes & c/c.

elevation 2 Scale 1:100



elevation 3 Scale 1:100

elevation 4 Scale 1:100

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4.0 First Issue
Ref No: Description
Drawing Issue and Amendments
V4.0 Standard Visitor 12 Bunk Hut - Appendix B1.4

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2

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400x400 passive vent grille to each gable with insect screen and weather shield

MITEK H1.2 coved timber trusses @ 900c/c max. refer specification

TASMAN INSULATION PINK Batts ULTRA R3.6C ceiling insulation

COLORSTEEL ENDURA corrugate profile roofing over 140x45 H3.2 MSG 8 / VSG 8 rafters at 600mm c/c max. with 140x45 noggs cut in at 600c/c max

2/ 140 x 45 H3.2 MSG 8 / VSG 8 verandah beam

1200x900 WEBFORGE A40MSG serrated galv. steel grating fixed to joists.

EXPOL 55mm expanded polystyrene insulation

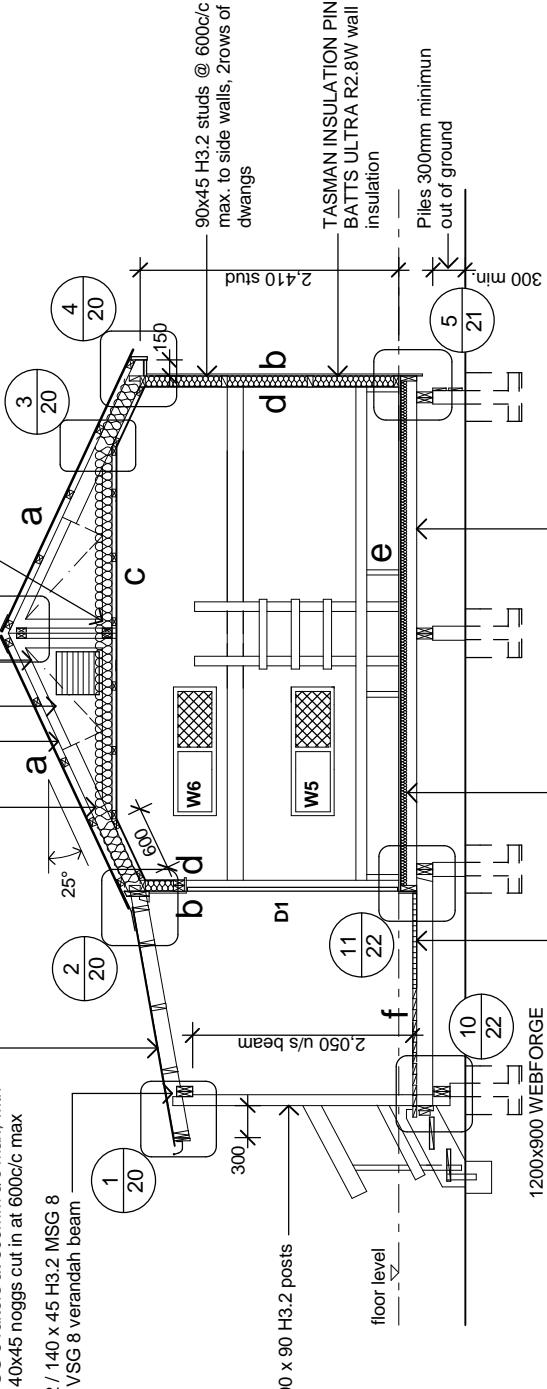
roofing to be lapped 2 corrugations min.

Alsynite laserlite 2000 translucent Roma profile roofing above window locations

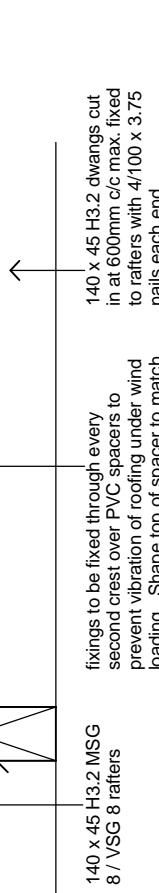
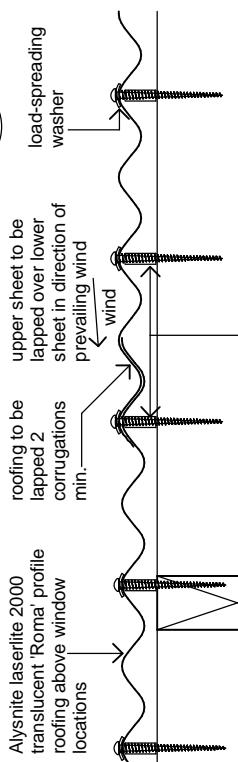
fixings to be fixed through every second crest over PVC spaces to prevent vibration of roofing under wind loading. Shape top of spacer to match underside of roofing profile

TOP CHORD TRUSS CONNECTION AT RIDGE TRUSS
Type B fixing - 2/100x3.75 skewed nails + 1 wire dog, also provide in addition a BOWMAC multi-brace 53mmx0.91mmx400mm long over apex. 5 nails min each end

BOTTOM CHORD TRUSS CONNECTION AT RIDGE TRUSS
90mm x 47mm joist hangers



A Section
1:50



140 x 45 H3.2 dwangs cut in at 600mm c/c max. fixed to rafters with 4/100 x 3.75 nails each end

alsynite fixing detail

Material Note:

a COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE cladding over TASMAN INSULATION FLAMESTOP BITUMAC 860 building paper over timber framing. Refer to floor plan for framing sizes & c/c.

b COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE cladding over TASMAN INSULATION BITUMAC 860 building paper over timber framing. Refer to floor plan for framing sizes & c/c.

c CHH 9mm ECOPLY CD grade untreated ceiling lining over 70 x 35 H1.2 battens @ 600c/c max.

d CHH 9mm ECOPLY CD grade untreated wall lining with 10mm gap to flooring.

e CHH 19mm ECOPLY CD grade H3.2 LONGSPAN flooring F8 over timber joists. Refer to foundation plan for sub floor framing sizes & c/c.

f 90 x 35 H3.2 grip tread decking, grip side up, even nail spacing. 10mm gap between first piece of decking and wall cladding. Refer to foundation plan for sub floor framing sizes & c/c.

4.0	First Issue Ref No	Description	Mar 09	-
		Drawing Issue and Amendments	Date	DWG
		V4.0 Standard Visitor 12 Bulk but - Appendix B1.4		C/D

R

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Department of Conservation

Te Papa Atauhā

PROJECT

HUT NAME

LOCATION

NATIONAL PARK NAME

AREA OFFICE

AREA OFFICE NAME

SHEET CONTENTS

SCALE

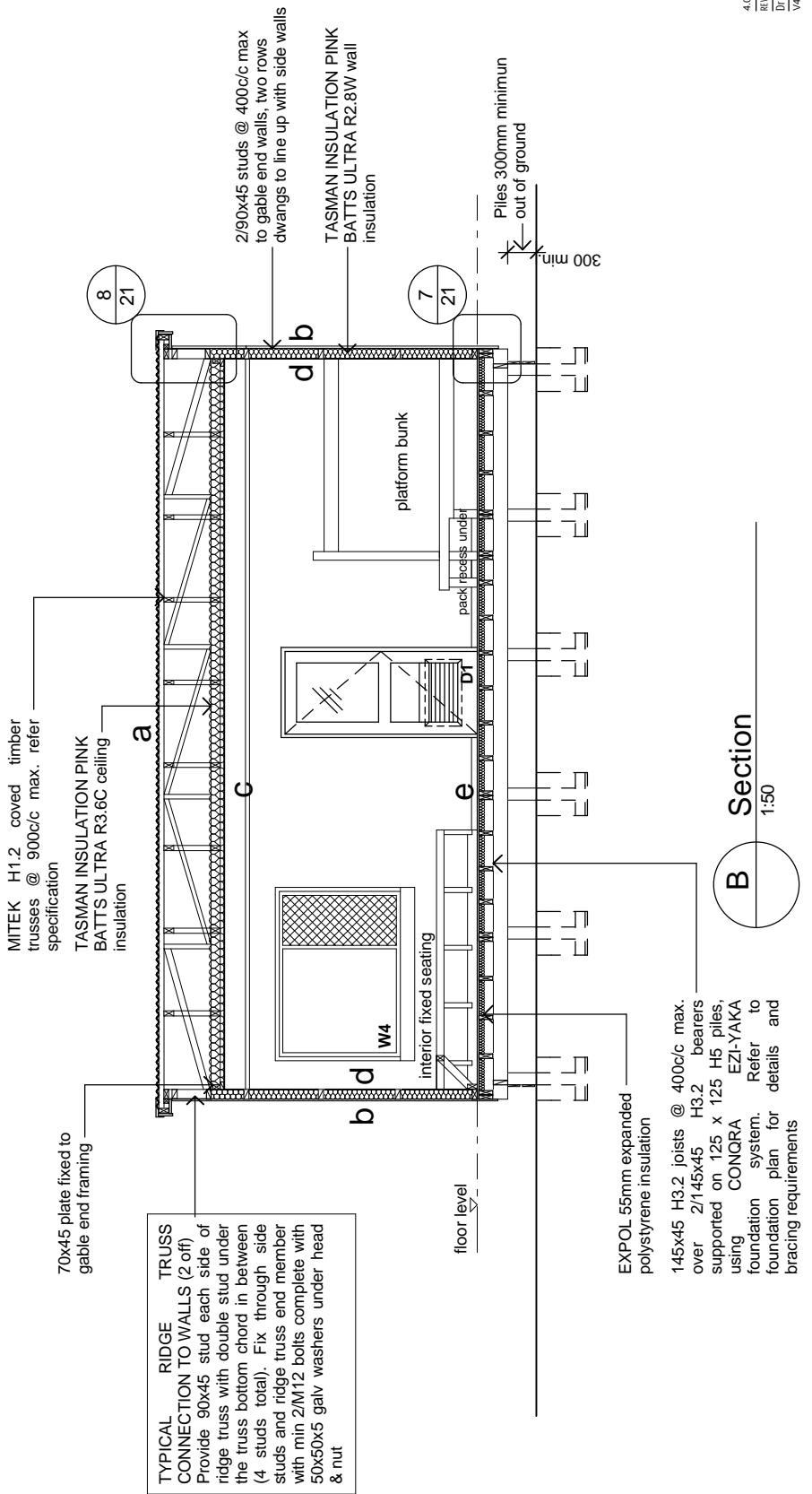
1:50,

1:5,

@ A3 SHEET SIZE

Sheet No. REV No.

004



4.0	First Issue Ref No	Description	Mar 09 DATE	-
		Drawing Issue and Amendments V4.0 Standard Visitor 12 Bunk Hut - Appendix B1.4		

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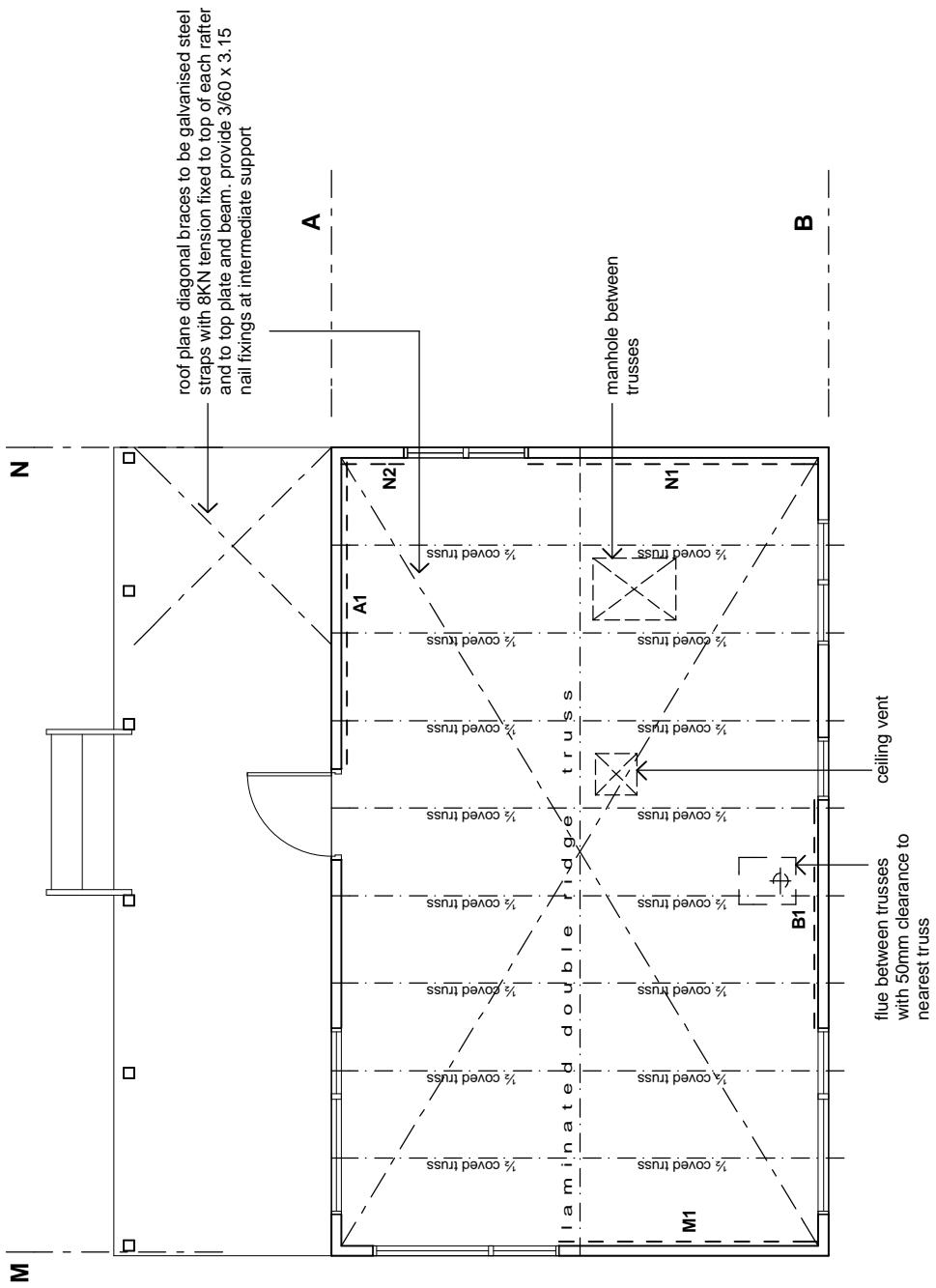
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Te Papa Atawhai

Department of Conservation

PROJECT	HUT NAME	LOCATION	LOCATION NAME	NATIONAL PARK NAME

AREA OFFICE	AREA OFFICE NAME	SHEET CONTENTS	SCALE
			1:50



bracing plan

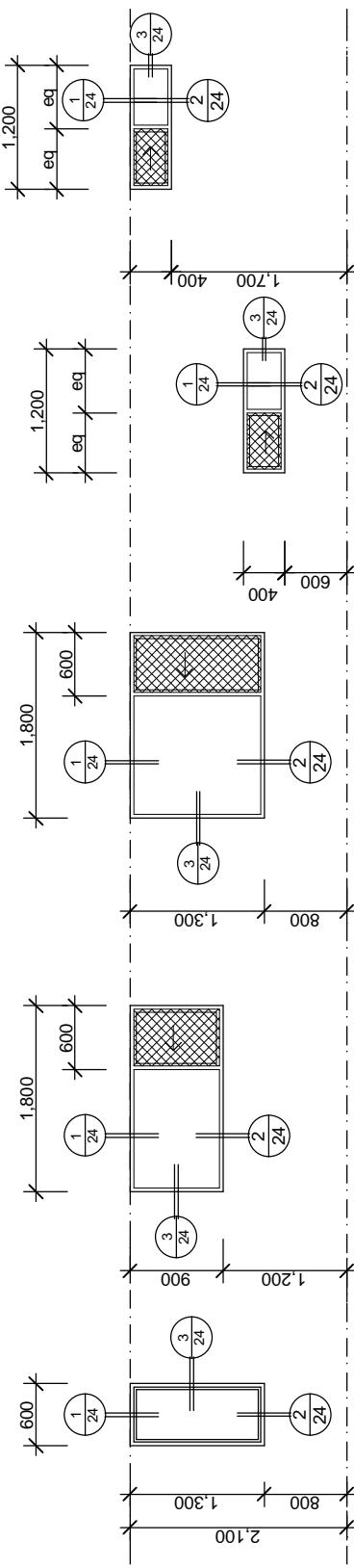
note:

- A1** —— element number. Refer to bracing calculations and manufacturers literature in specification for bracing types, length, height and connections.

2. Truss layout shown is typical, refer to specification for truss manufacturers truss design

3. All connections of trusses to top plates as per specification

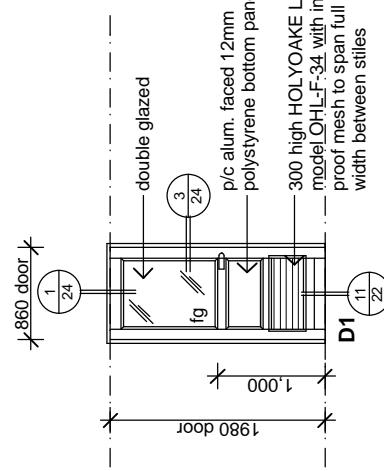
4.0	First Issue	Mar 09	-	
	REV NO / DESCRIPTION	DATE	W/H	C/X/C
Drawing Issue and Amendments				
V4.0 Standard Vision 12 Bunk Hut - Appendix B1.4				
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<p>Contractor shall check all dimensions on site prior to construction</p>				
<p>Department of Conservation <i>Te Papa Atawhai</i></p>				
<p> HUT NAME</p>				
PROJECT	LOCATION NAME	LOCATION NAME	NATIONAL PARK NAME	AREA OFFICE NAME
REVISION	REVISION	REVISION	PROJECT NO.	SCALE
DATE	RP	GR	RP	1:50
XYZ				@ A3 SHEET SIZE SH.WD. REV NO.
				07



note:

- W1 to be FIRST powder coated aluminium 40mm Light Commercial suite, double glazed unit, fixed sash
- W2 - W8 to be FIRST powder coated aluminium SLIDEMASTER sliding window, double glazed units, with removable flyscreen mesh to sliding panel opening
- All reveals are to be H3.2 treated, ready to receive architraves

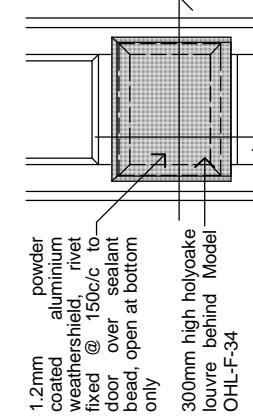
window schedule scale 1:50



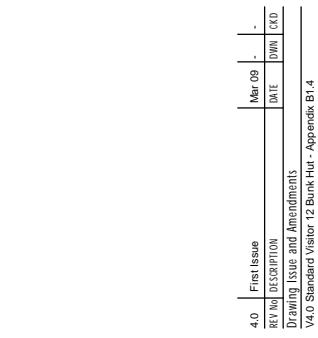
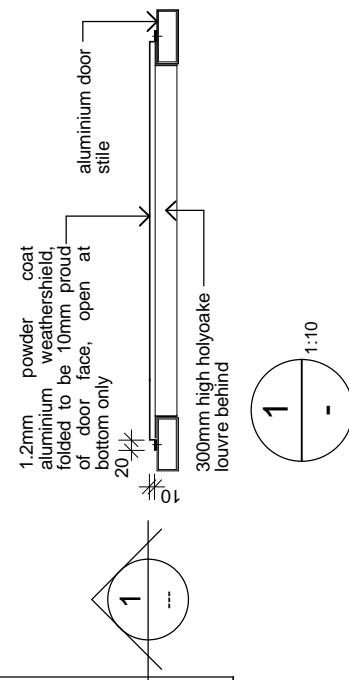
note:

- FIRST powdercoated MAGNUM commercial door in PC aluminium frame, with H3.2 reveals and no sill.
- Allow for 100mm top rail and stiles and double 100mm bottom rail
- LOCKWOOD 3500 series Commercial grade heavy duty latches with lever handle

door schedule scale 1:50



weathershield to D1 1:20



4.0 First Issue
Ref No Description Mar 09
Drawing Issue and Amendments Date DWI/CID

Drawing 0 Standard Visiter 12 Bulk Out - Appendix B1.4

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PROJECT

HUT NAME

LOCATION

NATIONAL PARK NAME

AREA OFFICE

AREA OFFICE NAME

SHEET CONTENTS

SCALE

@ A3 SHEET SIZE

1:50,

1:10,

1:10.

Sheet No. Ref No.

08

window & door schedule

DATE

DESIGN

DRAWN

CHECKED

PROJECT NO.

DATE

XYZ

RP

GR

RP

XYZ

Appendix B2:

Base Developed Design Options Drawings

1. Contents

Appendix B2 contains the Base Drawings from which the Developed Design drawings for design options for huts are derived in accordance with section 2.3. These drawings are located in four separate appendices related to hut size, and address the design options:

- Appendix B2.1: 4 bunks
 - Colorsteel cladding
 - Deck along front wall
- Appendix B2.2: 6 bunks
 - Colorsteel cladding
 - Deck along front wall
- Appendix B2.3: 10 bunks
 - Colorsteel cladding
 - Deck along side wall
 - Deck and roof along side wall
- Appendix B2.4: 12 bunks
 - Colorsteel cladding
 - Deck along side wall
 - Deck and roof along side wall

Refer to Appendix B1 for base drawings where no design options are selected.

Appendix B2.1: 4 bunk hut

Base Developed Design Options drawings

- Current Drawing Register
- Amendment Register
- Base drawings

ALL DRAWINGS ARE A4 REDUCTIONS OF A3 ORIGINALS AND THEREFORE ARE NOT TO SCALE. DO NOT MEASURE OFF THESE DRAWINGS OR USE FOR CONSTRUCTION.

CURRENT DRAWING REGISTER

Sheet	Title	Version	Date issued
	(deck along front wall)		
01D	4 bunk hut base drawing Site plan	4.0	March 2009
02D	4 bunk hut base drawing Floor Plan	4.0	March 2009
C03D	4 bunk hut base drawing Elevations	4.0	March 2009
C04D	4 bunk hut base drawing Section A-A	4.0	March 2009
06D	4 bunk hut base drawing Foundation Plan	4.0	March 2009
07D	4 bunk hut base drawing Bracing Plan	4.0	March 2009

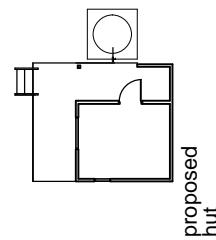
Sheets 5 and 8 are unaltered by the inclusion of the deck. Therefore obtain these two sheets from Appendix B1.1.

AMENDMENT REGISTER

Amendment date	Amendment details (section, page number, block)	Version	Signature of copyholder and date

DESIGN CRITERIA:

altitude = TBA
 corrosion zone = TBA
 floor load = 1.5 kPa
 deck load = 2.0 kPa
 snow load = TBA
 earthquake = TBA
 wind zone = TBA



4.0	First Issue Rev No	Mar 09	-
	Description	Date	D/WN C/D
Drawing Issue and Amendments V4.0 Standard Verdict 4 Bunk Hut - Appendix B2.1 - Deck Option			


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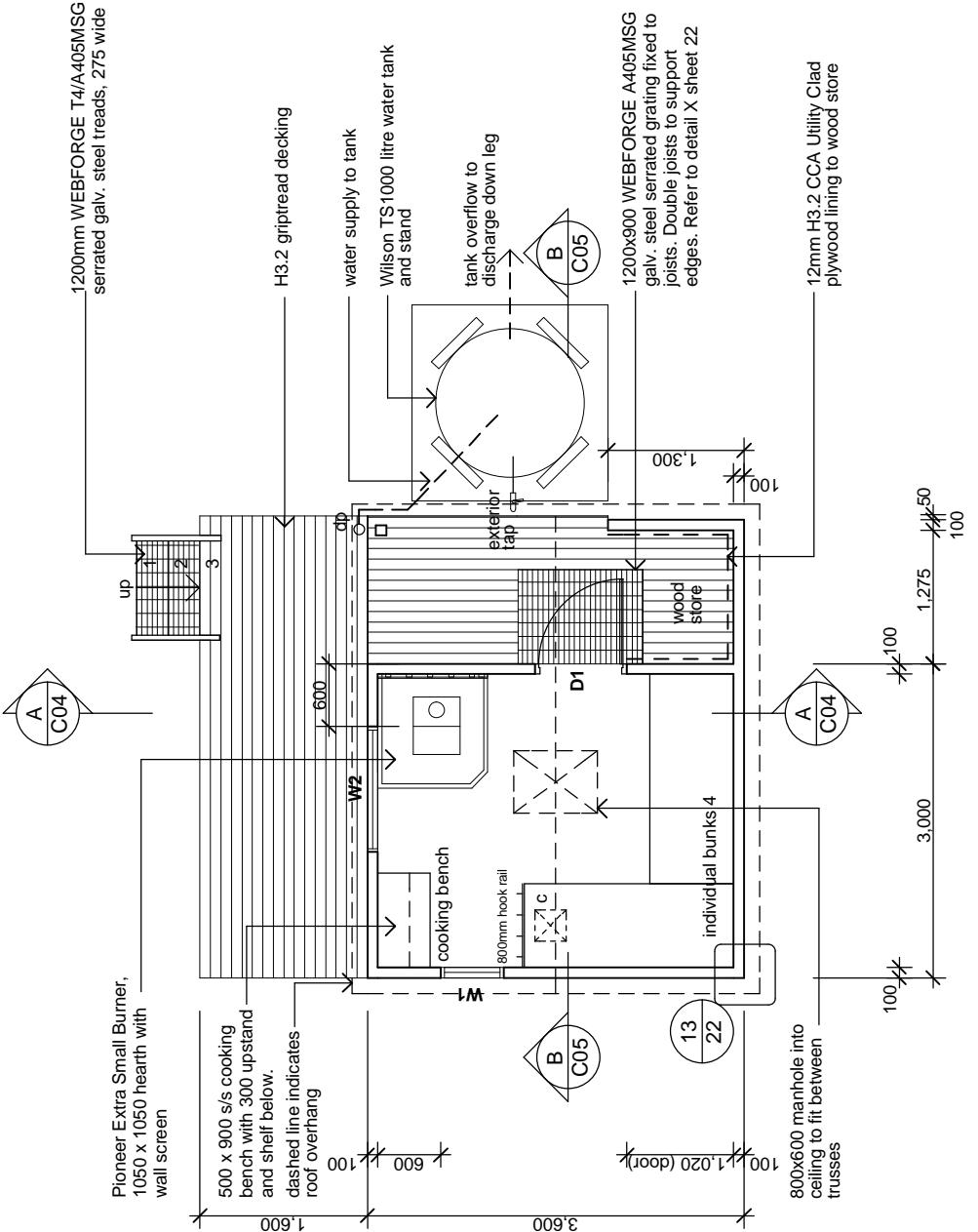
Contractor shall check all dimensions on site prior to construction

PROJECT	HUT NAME
LOCATION	Department of Conservation <i>Te Papa Atawhai</i>
AREA OFFICE	AREA OFFICE NAME

SHEET CONTENTS	LOCATION	LOCATION NAME	NATIONAL PARK NAME	SCALE
site plan				1:200

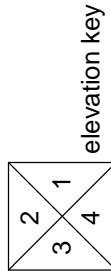
site plan

1:200



floor plan

indicates 300x300 HOLYOAKE ceiling vent grill, model EC-125

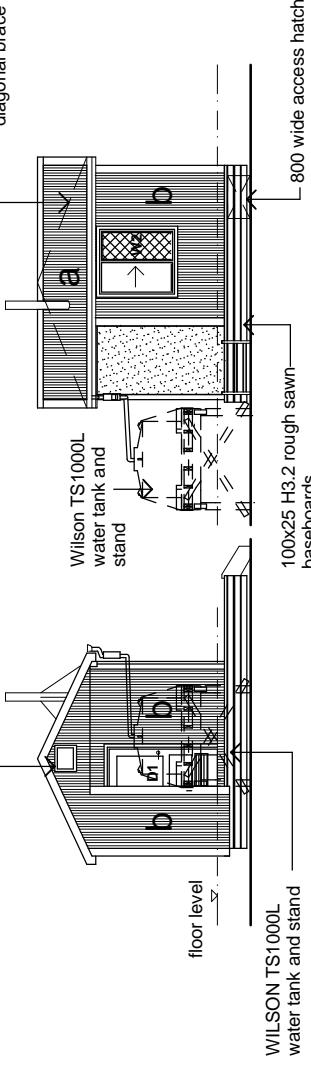


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Department of Conservation <i>Te Mana Atauhau</i>					
 HUT NAME					
LOCATION NATIONAL PARK NAME AREA OFFICE AREA OFFICE NAME					
SHEET COMMENTS floor plan					
PROJECT	DRAWN	CHECKED	PROJECT NO.	SCALES	
	GR	RP		@ A3 SHEET SIZE	
	XYZ			SHR	REV NO.
				XYZ	02D
DESIGN	DATE				
RP					

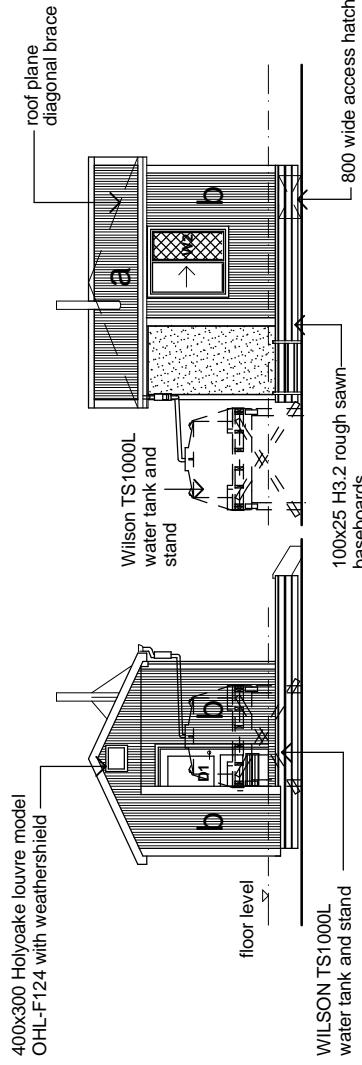
Material Note:

- a COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE cladding over TASMAN INSULATION FLAMESTOP 860 660 building paper over 70 x 45 H3.2 purlins on flat @ 800c/c max. evenly spaced.
- b COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE cladding over TASMAN INSULATION BITMAC 860 building paper over timber framing. Refer to floor plan for framing sizes & c/c.
- c CHH 9mm ECOPLY CD grade untreated ceiling lining over 70 x 35 H1.2 battens @ 600c/c max.
- d CHH 9mm ECOPLY CD grade untreated wall lining with 10mm gap to flooring.
- e CHH 19mm ECOPLY CD grade H3.2 LONGSPAN flooring F8 over timber joists. Refer to foundation plan for sub floor framing sizes & c/c.
- f 90 x 35 H3.2 grip tread decking, grip side up, even nail spacing. 10mm gap between first piece of decking and wall cladding. Refer to foundation plan for sub floor framing sizes & c/c.

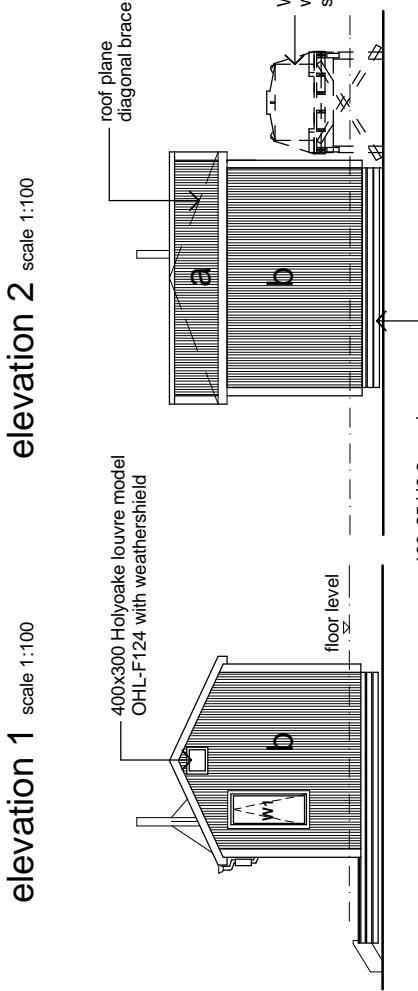
400x300 Holyoake louvre model
OHL-F124 with weathershield



elevation 1 scale 1:100



elevation 2 scale 1:100



elevation 3 scale 1:100

elevation 4 scale 1:100

4.0	First Issue	-	Mar 09	-
Ref No	Description	Date	DWG No	CAD
Drawing Issue and Amendments V4.0 Standard Verdict 4 Bunk Hut - Appendix B2.1 - Deck Option				

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PROJECT HUT NAME

LOCATION LOCATION NAME

AREA OFFICE NATIONAL PARK NAME

SHEET CONTENTS SCALES

DATE XYZ 1:100

DESIGN RP	DRAWN GR	CHECKED RP	PROJECT No. XYZ	SH No. XYZ	@ A3 SHEET SIZE
DATE XYZ					REV No.

C03D

Material Note:

- a** COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE cladding over TASMAN INSULATION FLAMESTOP 860 building paper over timber framing. Refer to floor plan for framing sizes & c/c.
- b** COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE cladding over TASMAN INSULATION BITUMAC 860 building paper over timber framing. Refer to floor plan for framing sizes & c/c.
- c** CHH 9mm ECOPLY CD grade untreated ceiling lining over 70 x 35 H1.2 battens @ 600c/c max.
- d** CHH 9mm ECOPLY CD grade untreated wall lining with 10mm gap to flooring.
- e** CHH 19mm ECOPLY CD grade H3.2 LONGSPAN flooring F8 over timber joists. Refer to foundation plan for sub floor framing sizes & c/c.
- f** 90 x 35 H3.2 grip tread decking, grip side up, even nail spacing. 10mm gap between first piece of decking and wall cladding. Refer to foundation plan for sub floor framing sizes & c/c.
-
- 300x300 passive vent grille to each gable
- MITEK H1.2 coved timber trusses @ 900c/c max. refer specification
- TASMAN INSULATION PINK BATT ULTRA R3.6C ceiling insulation
- TASMAN INSULATION PINK BATT ULTRA R2.8W wall insulation
- EXPOL 55mm expanded polystyrene insulation
- 145x45 H3.2 joists @ 600c/c max. over 2/145x45 H3.2 bearers supported on 125 x 125 H5 piles, using CONQRA EZI-YAKA foundation system. Refer to foundation plan for details and bracing requirements

PROJECT	HUT NAME	LOCATION	LOCATION NAME	NATIONAL PARK NAME
AREA OFFICE	AREA OFFICE NAME	SHEET CONTENTS	SCALE	
DATE	XYZ	1:50		
DESIGN	DRAWN	CHECKED	PROJECT No.	@ A3 SHEET SIZE
RP	GR	RP		SH No. BY No.
DATE	XYZ		XYZ	XYZ

C04D

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4.0 First Issue

Rev No Description

Date

Mar 09

Date

Dim %

CD

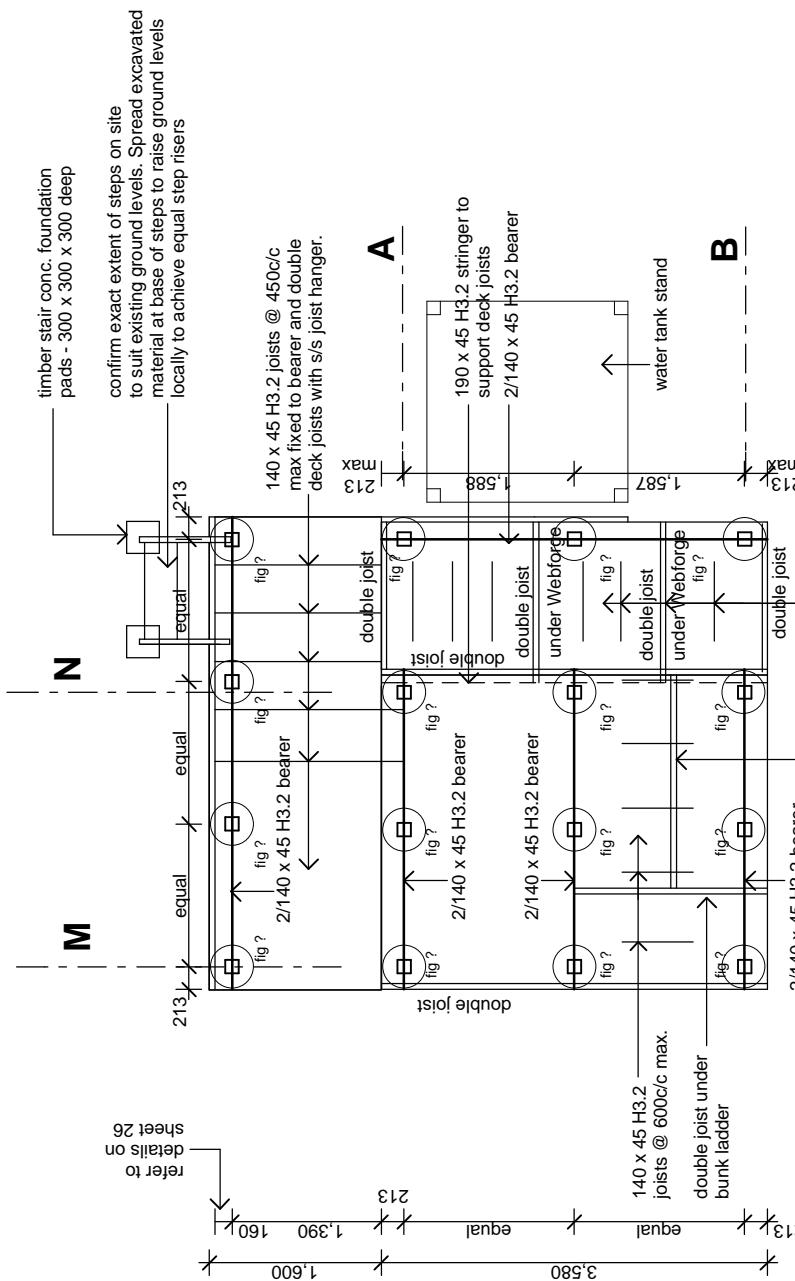
Drawing Issue and Amendments

V4.0 Standard Ver4 Bunk Hut - Appendix B2.1 - Deck Option

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12kN pile fixings

Use 'Timberlink' PB2 High Corrosion Pack (s.s.304) for connection of bearer to pile and bearer to joist. Refer to Appendix in spec for details



4.0	First Issue Rev No	Description	Mar 09	-
		Drawing Issue and Amendments V4.0 Standard Verdict 4 Bunk Hut - Deck Option	Date	DWG C/D



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PROJECT: HUT NAME

LOCATION: NATIONAL PARK NAME

AREA OFFICE: AREA OFFICE NAME

SHEET CONTENTS: SCALES

TS SIGN	DRAWN	CHEKED	PROJECT NO.	SH. NO.	REV NO.
RP	GR	RP	XYZ	XYZ	06D

foundation plan

1:50

read in conjunction with floor plan

Pile Legend:

refer to Congra specification for "light foot" foundation system and sheet for details

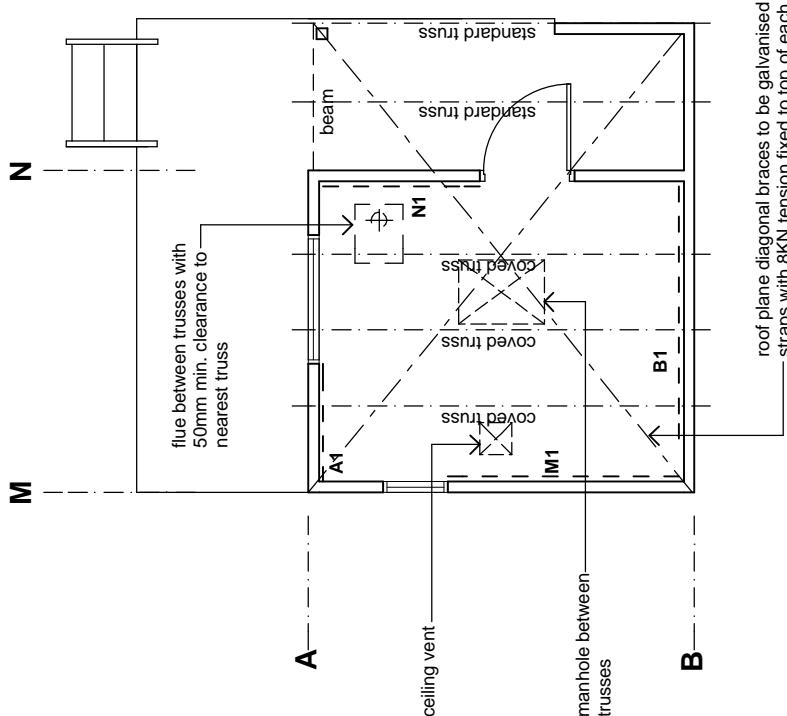
1. All floor joists and bearers are to be No. 1 Framing / MSG 6 (unless noted otherwise)

2. Piles: 125x125 H5 treated over dimensions shown

3. fig2 refer to Appendix B Congra Foundation Details for construction details and instructions

4. Diagonal brace to be 100x75 with the arrow pointing to top of the pile.

5. Soil bearing capacity shall be equal to good ground as defined in NZS3604.



roof plane diagonal braces to be galvanised steel straps with 8kN tension fixed to top of each rafter and to top plate and beam, provide 360 x 3.15 nail fixings at intermediate support

bracing plan

note:

1.  indicates CHH ECOPLY wall bracing element and element number. Refer to bracing calculations and manufacturers literature in specification for bracing types, length, height and connections.
2. Truss layout shown is typical, refer to specification for truss manufacturers truss design
3. All connections of trusses to top plates as per specification

4.0	First Issue	Mar 09	-
Ref No	Description	Date	D/W/C
Drawing Issue and Amendments V4.0 Standard Ventor 4 Bunk Hut - Appendix B2.1 - Deck Option			



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Contractor shall check all dimensions on site prior to construction



Department of Conservation
Te Papa Atawhai

PROJECT	HUT NAME	LOCATION	LOCATION NAME	NATIONAL PARK NAME	AREA OFFICE	AREA OFFICE NAME	SHEET CONTENTS	SCALE
							bracing plan	1:50

TS SIGN DRAWN CHECKED PROJECT NO.
RP GR RP DATE XYZ
REF NO. A3 SHEET SIZE
REV NO.
07D

Appendix B2.2: 6 bunk hut

Base Developed Design Options drawings

- Current Drawing Register
- Amendment Register
- Base drawings

ALL DRAWINGS ARE A4 REDUCTIONS OF A3 ORIGINALS AND THEREFORE ARE NOT TO SCALE. DO NOT MEASURE OFF THESE DRAWINGS OR USE FOR CONSTRUCTION.

CURRENT DRAWING REGISTER

Sheet	Title	Version	Date issued
	(deck along front wall)		
01D	6 bunk hut base drawing Site plan	4.0	March 2009
02D	6 bunk hut base drawing Floor Plan	4.0	March 2009
C03D	6 bunk hut base drawing Elevations	4.0	March 2009
C04D	6 bunk hut base drawing Section A-A	4.0	March 2009
06D	6 bunk hut base drawing Foundation Plan	4.0	March 2009
07D	6 bunk hut base drawing Bracing Plan	4.0	March 2009

Sheets 5 and 8 are unaltered by the inclusion of the deck. Therefore obtain these two sheets from Appendix B1.2.

AMENDMENT REGISTER

Amendment date	Amendment details (section, page number, block)	Version	Signature of copyholder and date

DESIGN CRITERIA:

altitude = TBA
 corrosion zone = TBA
 floor load = 1.5 kPa
 deck load = 2.0 kPa
 snow load = TBA
 earthquake = TBA
 wind zone = TBA

4.0	First Issue Ref No: Drawing Issue and Amendments V4.0 Standard Verdict 6 Bunk Hut - Appendix B2.2 - Deck Option	Mar 09 DATE	- DRAWN/CAD
-----	---	----------------	----------------



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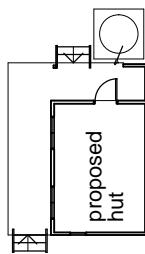
Contractor shall check all dimensions on site prior to construction



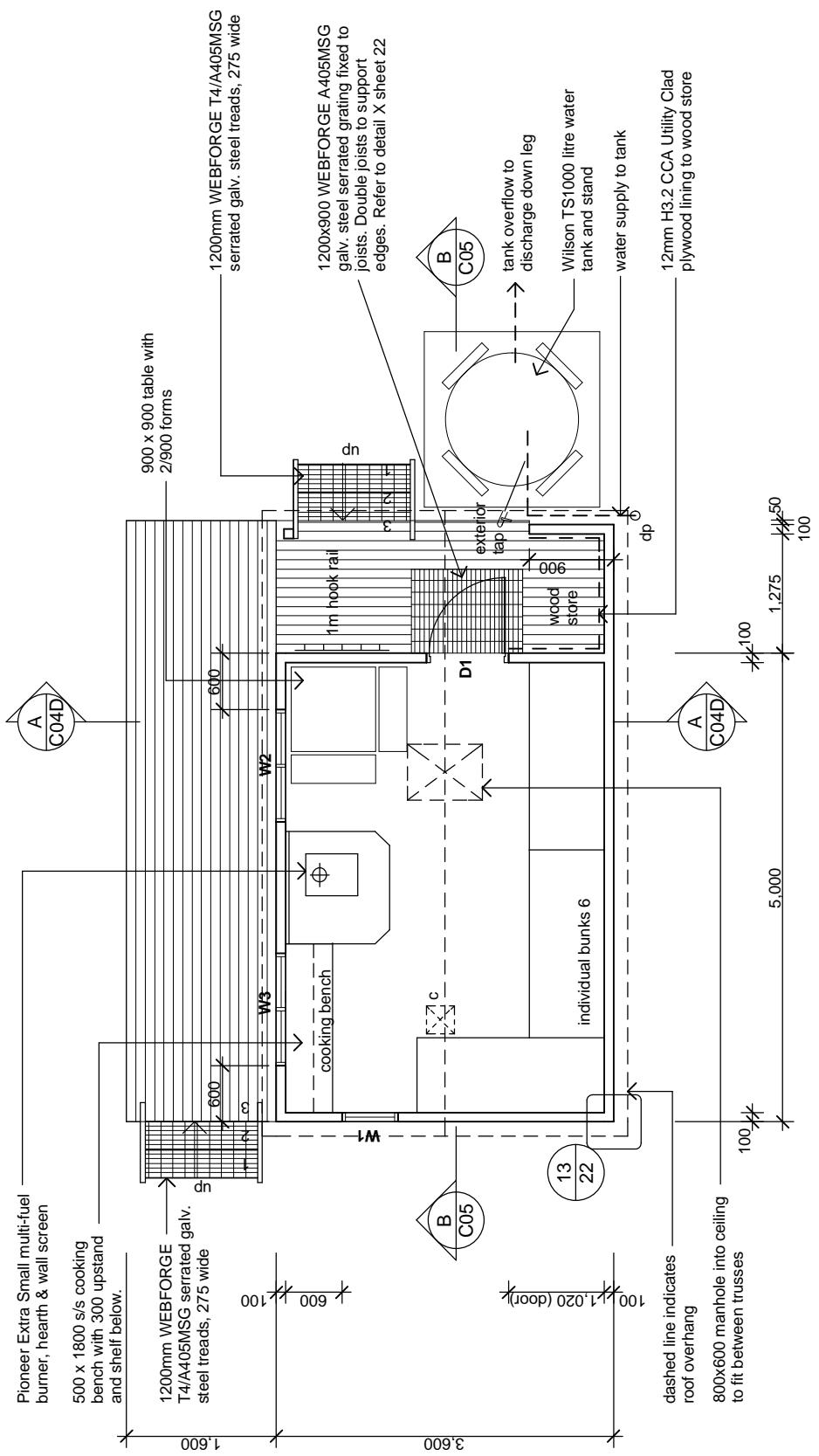
Department of Conservation
Te Papa Atauhāi

PROJECT	HUT NAME	LOCATION	LOCATION NAME
AREA OFFICE	AREA OFFICE NAME	NATIONAL PARK NAME	
SHEET CONTENTS	site plan	Scales	
		1:200	

DESIGN	DRAWN RP	CHECKED GR	PROJECT NO. XYZ	SH. NO. REV. NO.
				01D

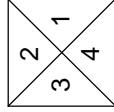


site plan
 1:200



floor plan

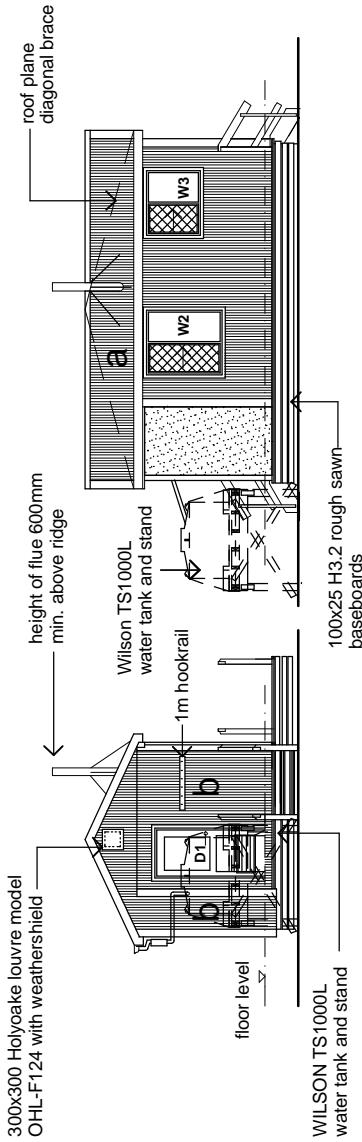
note: indicates 300×300 HOL YOAKE ceiling vent grill, model EC-125



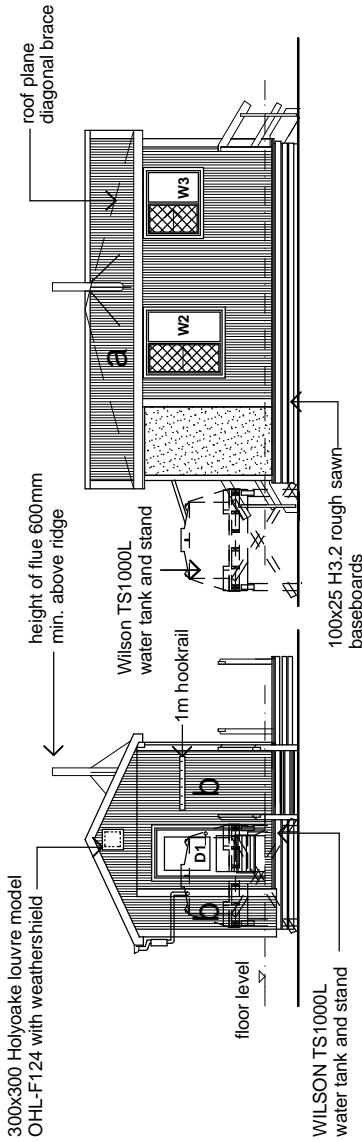
Contractor shall check all dimensions on site prior to construction				
Department of Conservation <i>Te Papa Atawhai</i>				
	HUT NAME		NATIONAL PARK NAME	
	PROJECT 	LOCATION NAME floor plan	AREA OFFICE NAME SHEET CONTENTS	SCALE 1:50
PROJECT 	LOCATION NAME floor plan	AREA OFFICE NAME SHEET CONTENTS	SCALE 1:50	<small>@ A3 SHEET SIZE</small> <small>SHT NO. R/BY NO.</small>
DESIGN 	DRAWN 	CHECKED 	PROJECT NO. xyz	02D
PRINT 	XYZ			

Material Note:

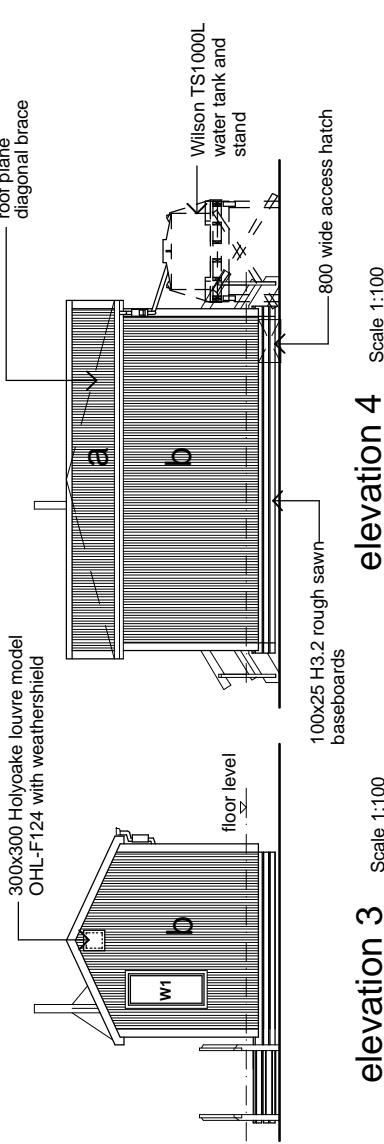
- a COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE cladding over TASMAN INSULATION FLAMESTOP 860 building paper over timber framing. Refer to floor plan for framing sizes & c/c.
- b COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE cladding over TASMAN INSULATION BITUMAC 860 building paper over timber framing. Refer to floor plan for framing sizes & c/c.
- c CHH 9mm ECOPLY CD grade untreated ceiling lining over 70 x 35 H1.2 battens @ 600c/c max.
- d CHH 9mm ECOPLY CD grade untreated wall lining with 10mm gap to flooring.
- e CHH 19mm ECOPLY CD grade H3.2 LONGSPAN flooring F8 over timber joists. Refer to foundation plan for sub floor framing sizes & c/c.
- f 90 x 35 H3.2 grip tread decking, grip side up, even nail spacing. 10mm gap between first piece of decking and wall cladding. Refer to foundation plan for sub floor framing sizes & c/c.



elevation 2 Scale 1:100



elevation 3 Scale 1:100



4.0	First Issue	Mar 09	-
REV No	Description	DATE	D/WN % C/D
Drawing Issue and Amendments V4.0 Standard Verdict 6 Bunk Hut - Appendix B2.2 - Deck Option			

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HUT NAME
PROJECT

LOCATION
NATIONAL PARK NAME

AREA OFFICE
SHEET CONTENTS
elevations

SCALE
1:100

DESIGN DRAWN CHECKED PROJECT NO.
RP GR RP XYZ
DATE XYZ

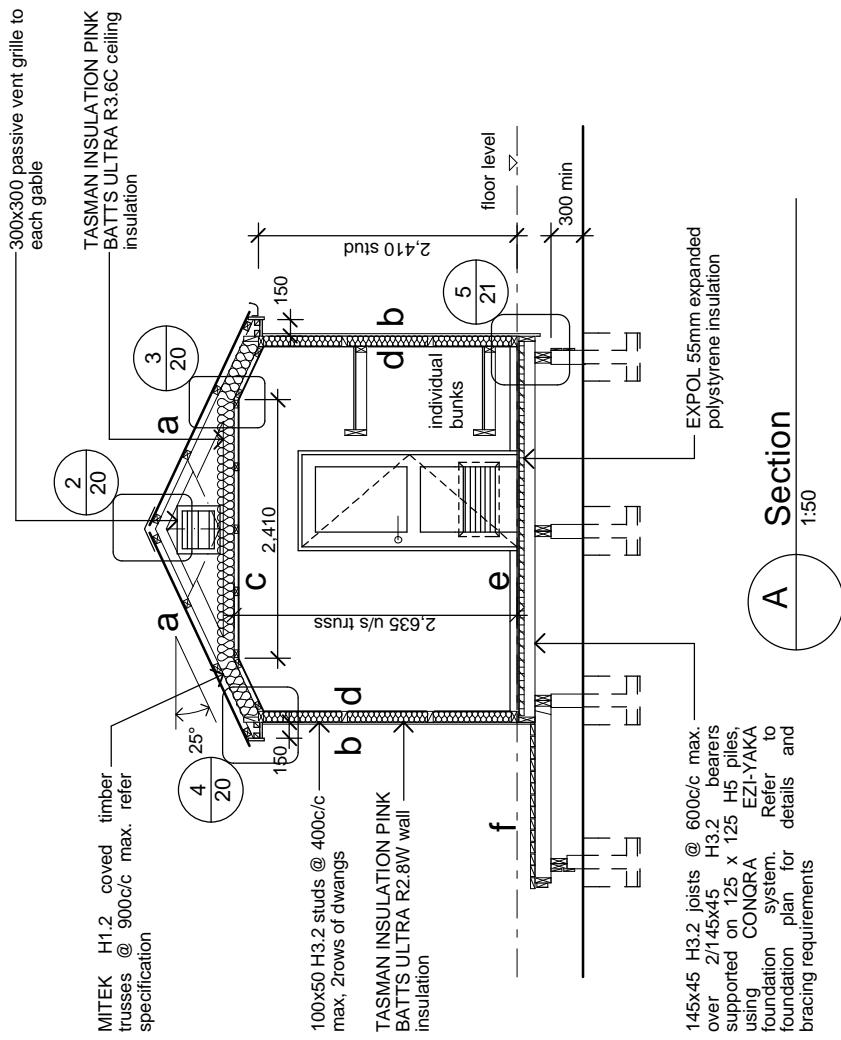
SH. NO. REV NO.

@ A3 SHEET SIZE

C03D

Material Note:

- | | |
|----------|--|
| a | COLORSTEEL ENDURA 0.40BM
CORRUGATE PROFILE roofing over
TASMAN INSULATION FLAMESTOP
660 building paper over 70 x 45 H3.2
purlins on flat @ 800cc max. evenly
spaced. |
| b | COLORSTEEL ENDURA 0.40BM
CORRUGATE PROFILE cladding over
TASMAN INSULATION BITUMAC 860
building paper over timber framing.
Refer to floor plan for framing sizes &
c/c. |
| c | CHH 9mm ECOPLY CD grade untreated
ceiling lining over 70 x 35 H1.2 battens
@ 600cc max |
| d | CHH 9mm ECOPLY CD grade untreated
wall lining with 10mm gap to flooring. |
| e | CHH 19mm ECOPLY CD grade H3.2
LONGSPAN flooring F8 over timber
joists. Refer to foundation plan for sub
floor framing sizes & c/c. |
| f | 90 x 35 H3.2 grip tread decking, grip
side up, even nail spacing, 10mm gap
between first piece of decking and wall
cladding. Refer to foundation plan for
sub floor framing sizes & c/c. |



			Mar 09	-	-
REV No	DESCRIPTION		DATE	DWN	CKD
Drawing Issue and Amendments					

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Contractor shall check all Dimensions on site prior to construction.

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Department of corner vulture

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HUT NAME

卷之三

LOCATION NAME
IN

NATIONAL PARK NAME

NATIONAL PARKS IN AMERICA

OFFICE AREA DEFINITION

AREA OFFICE NAME

CONTENUTI SWIPE

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1:50

I.30

167

A3 SHEET

SII MO. 1

C04

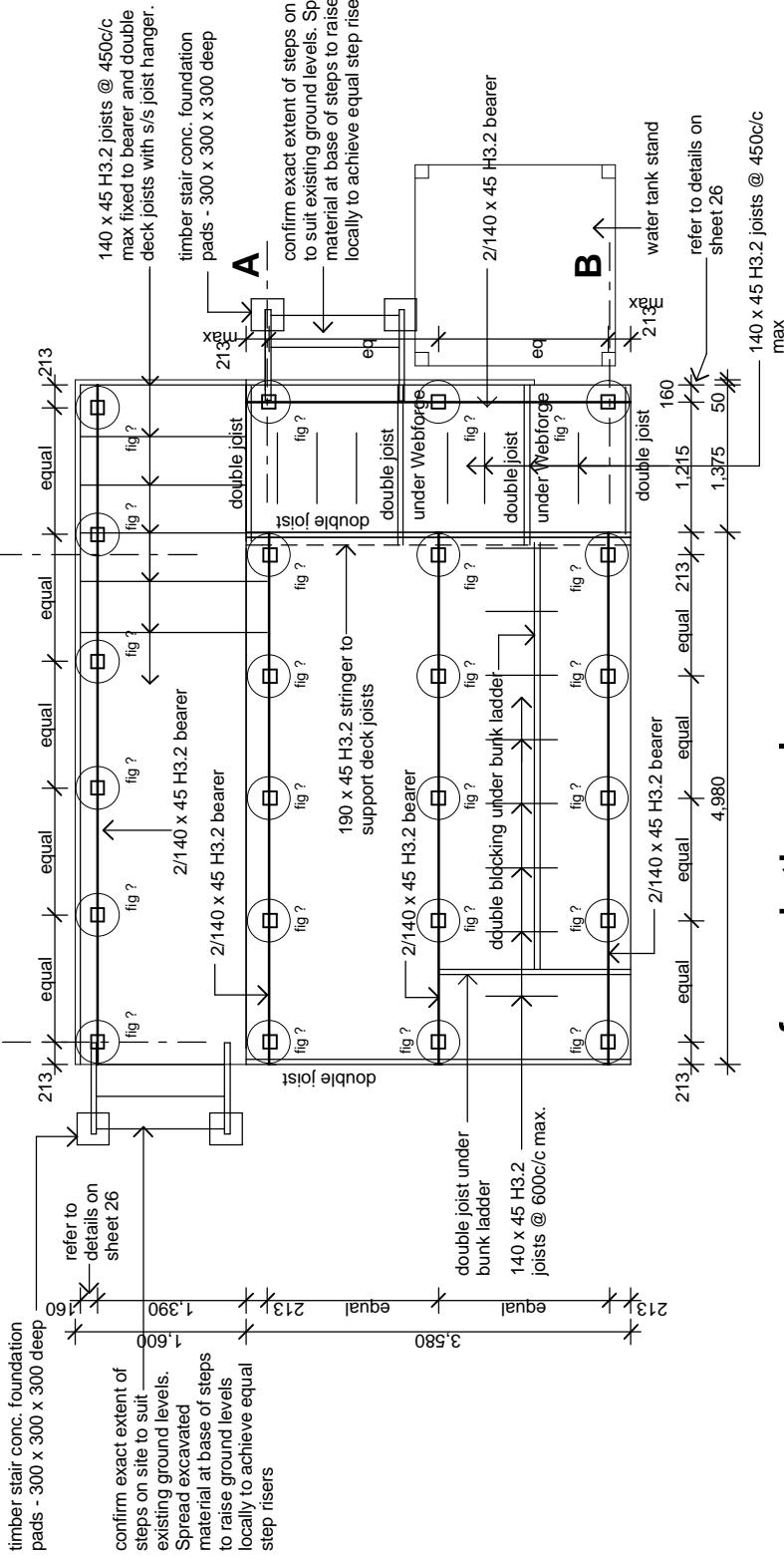
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100

J:\Clients

12kN pile fixings

Use 'Timberlink' PB2 High Corrosion Pack (s.s.304) for connection of bearer to pile and bearer to joist. Refer to Appendix in spec for details



foundation plan

1:50
read in conjunction with floor plan

Pile Legend:

refer to Congra specification for "light foot" foundation system and sheet for details

1. refer to Congra Foundation Details for construction details and instructions
2. Piles: 125x125 H5 treated over dimensions shown
3. fig2 refer to Appendix B Congra Foundation Details for construction details and instructions
4. Diagonal brace to be 100x75 with the arrow pointing to top of the pile.
5. Soil bearing capacity shall be equal to good ground as defined in NZS3604.

Contractor shall check all dimensions on site prior to construction



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PROJECT

HUT NAME

LOCATION

NATIONAL PARK NAME

AREA OFFICE

AREA OFFICE NAME

SHEET CONTENTS

SCALE

foundation plan

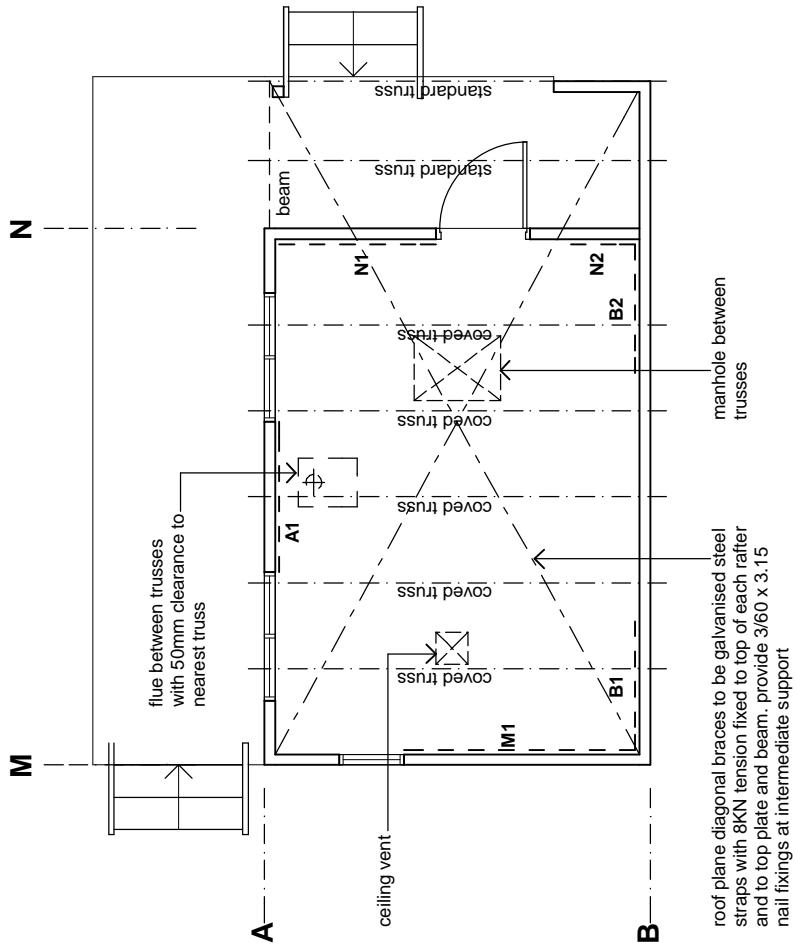
1:50

foundation plan

1:50

DESIGN	DRAWN	CHECKED	PROJECT NO.	SH. NO.	AS SHEET SIZE
RP	GR	RP	XYZ	XYZ	BY FIG.
DATE			DATE		

06D



bracing plan

note:

1. — — — A1 indicates CHH ECOPLY wall bracing element and element number. Refer to bracing calculations and manufacturers literature in specification for bracing types, length, height and connections.
2. Truss layout shown is typical, refer to specification for truss manufacturers truss design
3. All connections of trusses to top plates as per specification

4.0	First Issue	Mar 09	-
REF No	DESCRIPTION	DATE	CAD
Drawing Issue and Amendments V4.0 Standard Ventor 6 Bunk Hut - Appendix B2.2 - Deck Option			



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PROJECT	HUT NAME	LOCATION	LOCATION NAME	NATIONAL PARK NAME	AREA OFFICE	AREA OFFICE NAME	SHEET CONTENTS	SCALE
								1:50

TS SIGN DRAWN CHECKED PROJECT NO.
RP GR RP DATE XYZ
@ A3 SHEET SIZE
SHT NO. REV NO.
07D

Appendix B2.3: 10 bunk hut

Base Developed Design Options drawings

- Current Drawing Register
- Amendment Register
- Base drawings

ALL DRAWINGS ARE A4 REDUCTIONS OF A3 ORIGINALS AND THEREFORE ARE NOT TO SCALE. DO NOT MEASURE OFF THESE DRAWINGS OR USE FOR CONSTRUCTION.

CURRENT DRAWING REGISTER

Sheet	Title		Version	Date issued
D	(deck along side wall)			
01D	10 bunk hut base drawing	Site plan	4.0	March 2009
02D	10 bunk hut base drawing	Floor Plan	4.0	March 2009
C03D	10 bunk hut base drawing	Elevations	4.0	March 2009
C05D	10 bunk hut base drawing	Section B-B	4.0	March 2009
06D	10 bunk hut base drawing	Foundation Plan	4.0	March 2009
07D	10 bunk hut base drawing	Bracing Plan	4.0	March 2009
R	(deck and roof along side wall)			
01R	10 bunk hut base drawing	Site plan	4.0	March 2009
02R	10 bunk hut base drawing	Floor Plan	4.0	March 2009
C03R	10 bunk hut base drawing	Elevations	4.0	March 2009
C05R	10 bunk hut base drawing	Section B-B	4.0	March 2009
06R	10 bunk hut base drawing	Foundation Plan	4.0	March 2009
07R	10 bunk hut base drawing	Bracing Plan	4.0	March 2009

Sheets 04 and 08 are unaltered by the inclusion of the deck. Therefore obtain these two sheets from Appendix B1.3.

AMENDMENT REGISTER

Amendment date	Amendment details (section, page number, block)	Version	Signature of copyholder and date

DESIGN CRITERIA:

altitude = TBA
 corrosion zone = TBA
 floor load = 1.5 kPa
 deck load = 2.0 kPa
 snow load = TBA
 earthquake = TBA
 wind zone = TBA

4.0	First Issue Ref No	Mar 09 DATE	- DWG / C/D
Drawing Issue and Amendments V4.0 Standard Vario 10 Bunk Hut - Appendix B2.3 - Deck Option			


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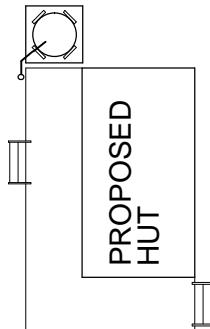
Contractor shall check all dimensions on site prior to construction



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PROJECT	HUT NAME	LOCATION	LOCATION NAME	NATIONAL PARK NAME
area office	area office name	sheets	scale	

site plan	1:200	
sign	drawn checked project no. rp gr rp date xyz	sheet size @ a3 sheet size ref no ref no.



site plan
 1:200

1200x900 WEBFORGE A405MSG
galv. steel serrated grating fixed to
joists. Double joists to support edges
Refer to detail X sheet 22

1500mm WEBFORGE T4/A405MSG
serrated galv. steel treads, 275 wide

ALSYNITE LASERLITE 2000
translucent ROMA profile roofing
over window, COLORSTEEL
ENDURA elsewhere

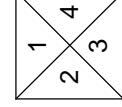
100 300 (W4)

J:\Clients CAD\0819 DOC Bcode MOC10819 Drawings\0819 DOC huts manual WORKING COPY.plin

floor plan

note

- indicates 400 x 400 HOLYOAKE ceiling vent grill, model EC-125



Pioneer Extra Small multi-fuel burner, hearth & wall screen

05MSG serrated galv.
heads, 275 wide

A horizontal number line representing an interval. The line starts at 2,700 and ends at 3,000. There are two tick marks on the line: one at 600 and another at 1000. The interval is labeled as $[2,700, 3,000)$.

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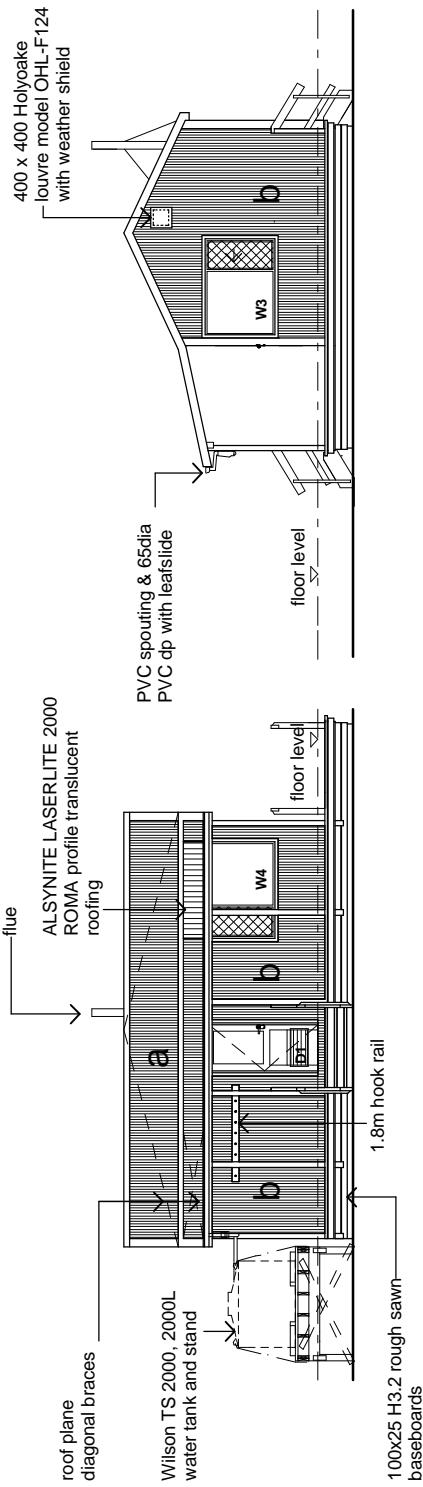
Department of Conservation

<i>Te Papa Atauhau</i>			
	HUT NAME	LOCATION NAME	NATIONAL PARK NAME
PROJECT	LOCATION		

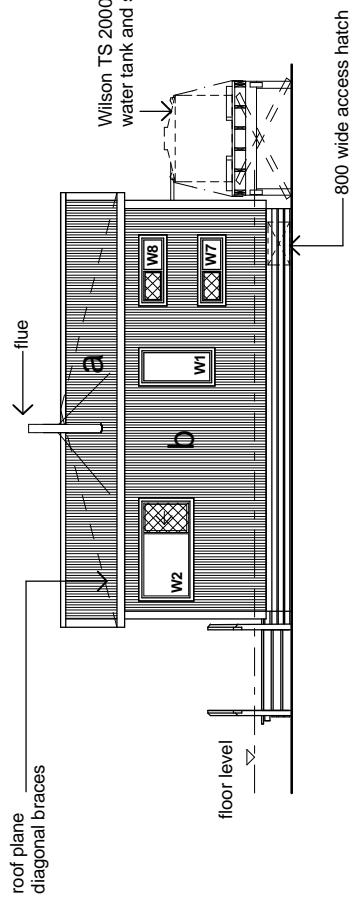
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		floor plan		1:50, 1:20	
				@ 4.3 SHEET SIZE SH. NO. REV. NO.	
				02D	
DESIGN RP	DRAW GR	CHECKED RP	PROJECT NO. xyz	DATE xyz	

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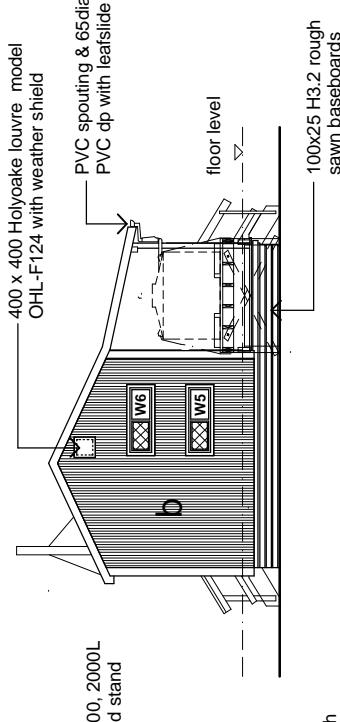
- a** COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE roofing over TASMAN INSULATION FLAMESTOP 860 660 building paper over 70 x 45 H3.2 purlins on flat @ 800c/c max. evenly spaced.
- b** COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE cladding over TASMAN INSULATION BITUMAC 860 building paper over timber framing Refer to floor plan for framing sizes & c/c.
- c** CHH 9mm ECOPLY CD grade untreated ceiling lining over 70 x 35 H1.2 battens @ 600c/c max.
- d** CHH 9mm ECOPLY CD grade untreated wall lining with 10mm gap to flooring.
- e** CHH 19mm ECOPLY CD grade H3.2 LONGSPAN flooring F8 over timber joists. Refer to foundation plan for sub floor framing sizes & c/c.
- f** 90 x 35 H3.2 grip tread decking, grip side up, even nail spacing. 10mm gap between first piece of decking and wall cladding. Refer to foundation plan for sub floor framing sizes & c/c.



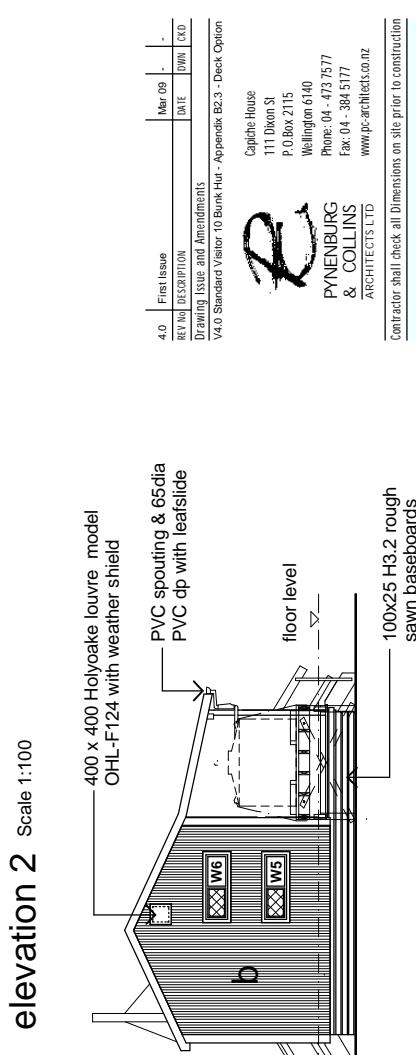
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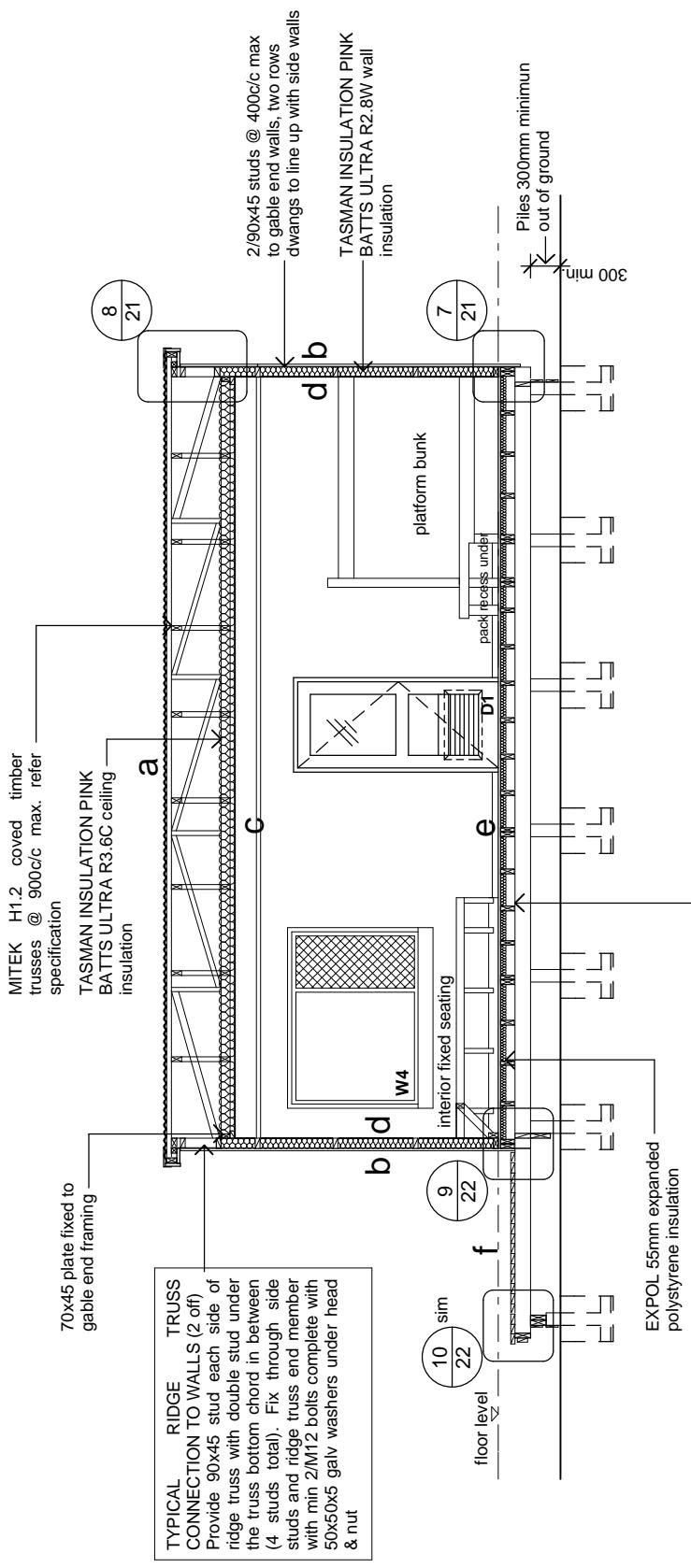
elevation 3 Scale 1:100



elevation 4 Scale 1:100



PROJECT	HUT NAME	LOCATION	LOCATION NAME	NATIONAL PARK NAME	SCALE
AREA OFFICE	AREA OFFICE NAME	LOCATION	LOCATION NAME	NATIONAL PARK NAME	1:100
SHEET CONTENTS					1:50 @ A3 SHEET SIZE
DESIGN DATE	DRAWN GR RP	CHECKED DATE	PROJECT No.	SH No. REV No.	C03D
RP	GR	RP	XYZ	XYZ	



Section

1:50

Material Note:

- a** COLORSTEEL ENDURA 0.40BM^T CORRUGATE PROFILE roofing over TASMAN INSULATION FLAMESTOP 660 building paper over 70 x 45 H3.2 purlins on flat @ 800cc max. evenly spaced.
- b** COLORSTEEL ENDURA 0.40BM^T CORRUGATE PROFILE cladding over TASMAN INSULATION BITUMAC 860 building paper over timber framing. Refer to floor plan for framing sizes & c/c.
- c** CHH 9mm ECOPLY CD grade untreated ceiling lining over 70 x 35 H1.2 battens @ 600cc max.
- d** CHH 9mm ECOPLY CD grade untreated wall lining with 10mm gap to flooring.
- e** CHH 19mm ECOPLY CD grade H3.2 LONGSPAN flooring F8 over timber joists. Refer to foundation plan for sub floor framing sizes & c/c.
- f** 90 x 35 H3.2 grip tread decking, grip side up, even nail spacing, 10mm gap between first piece of decking and wall cladding. Refer to foundation plan for sub floor framing sizes & c/c.

4.0	First Issue	Mar 09	-
Ref No	Description	Date	D/W/C
Drawing Issue and Amendments V4.0 Standard Version 10 Bulk hut - Appendix B2.3 - Draft Option			

R

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& Collins

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PROJECT

HUT NAME

LOCATION

NATIONAL PARK NAME

AREA OFFICE

AREA OFFICE NAME

SHEET CONTENTS

SCALE

1:50

REF SIGN

DRAWN

CHECKED

PROJECT NO.

REV NO.

RP

GR

RP

XYZ

XYZ

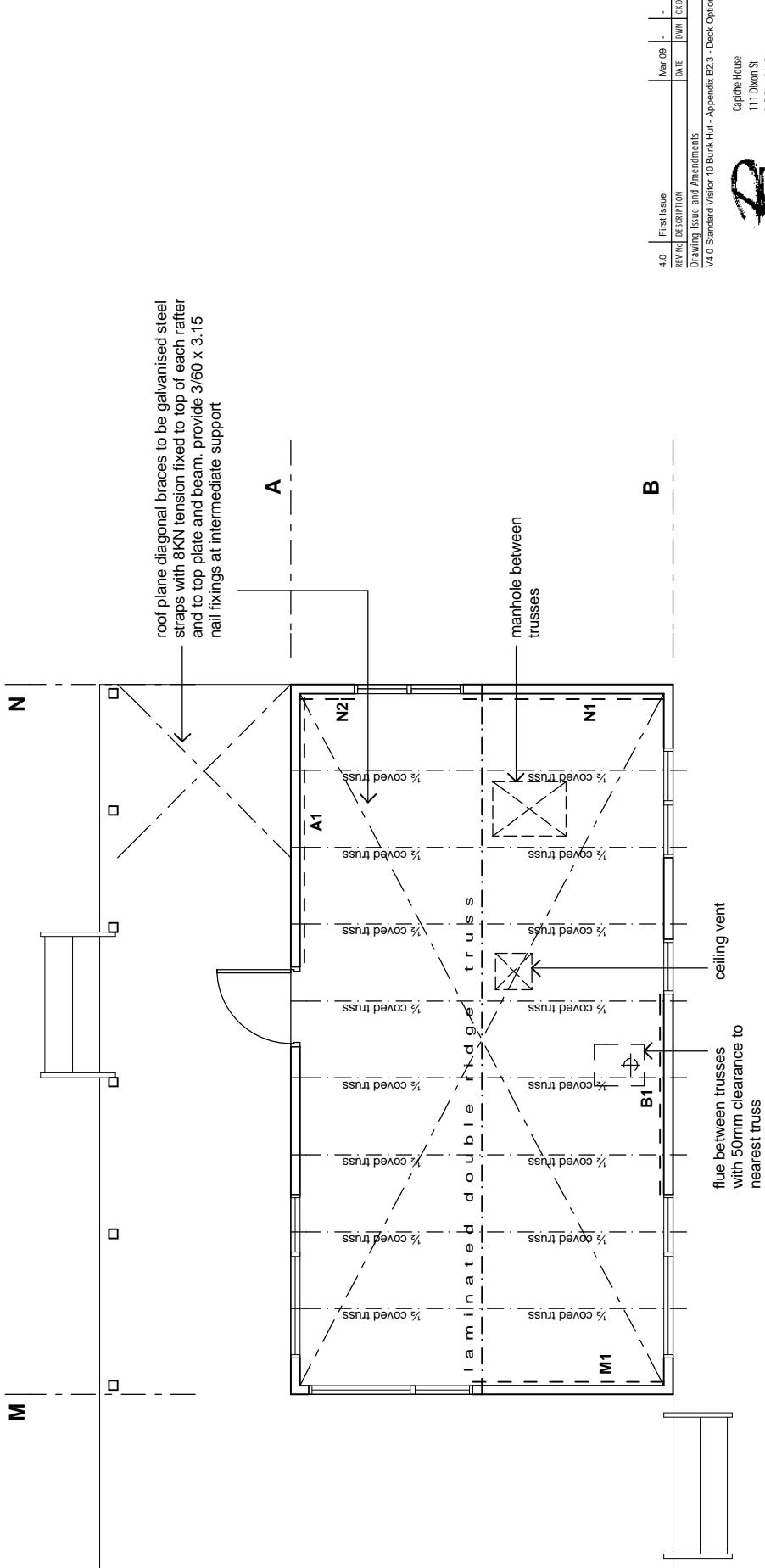
DATE

DATE

DATE

DATE

XYZ



bracing plan

note:

- A1**

element number. Refer to bracing calculations and manufacturers literature in specification for bracing types, length, height and connections.

 - 2.** Truss layout shown is typical, refer to specification for truss manufacturers truss design
 - 3.** All connections of trusses to top plates as per specification

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Te Papa Atawhai

Contractor shall check all dimensions on site prior to construction					
Department of Conservation Te Mana Rauhī Ataahua					
	HUT NAME	LOCATION	STREET CONTENTS	SCALE	PROJECT NO.
PROJECT	BRADING HUT	BRADING HUT	bracing plan	1:50	07D
AREA OFFICE	GR	RIP			
DATE	Xyz				
REGION: BROWNS BENCHING PROJECT NO.: @ A3 SHEET SIZE SHEET NO.: REV NO.					
LOCATION NAME: NATIONAL PARK NAME					
AREA OFFICE NAME:					

DESIGN CRITERIA:

altitude = TBA
corrosion zone = TBA
floor load = 1.5 kPa
deck load = 2.0 kPa
snow load = TBA
earthquake = TBA
wind zone = TBA

4.0	First Issue Ref No: Drawing Issue and Amendments V4.0 Standard Visitor 10 Blank Huts Appendix B2.3-Deck/Roof Option	Mar 09 DATE	- DRAWN / C.D.
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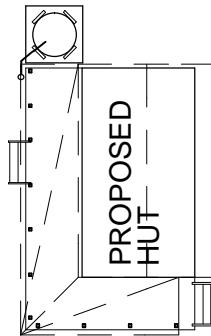
Contractor shall check all dimensions on site prior to construction



Department of Conservation
Te Papa Atawhai

PROJECT	HUT NAME	LOCATION	LOCATION NAME	NATIONAL PARK NAME

SHEET CONTENTS	SCALE
site plan	1:200



site plan
1:200

1200x900 WEBFORGE A405MSG
galv. steel serrated grating fixed to
joists. Double joists to support edge
Refer to detail X sheet 22

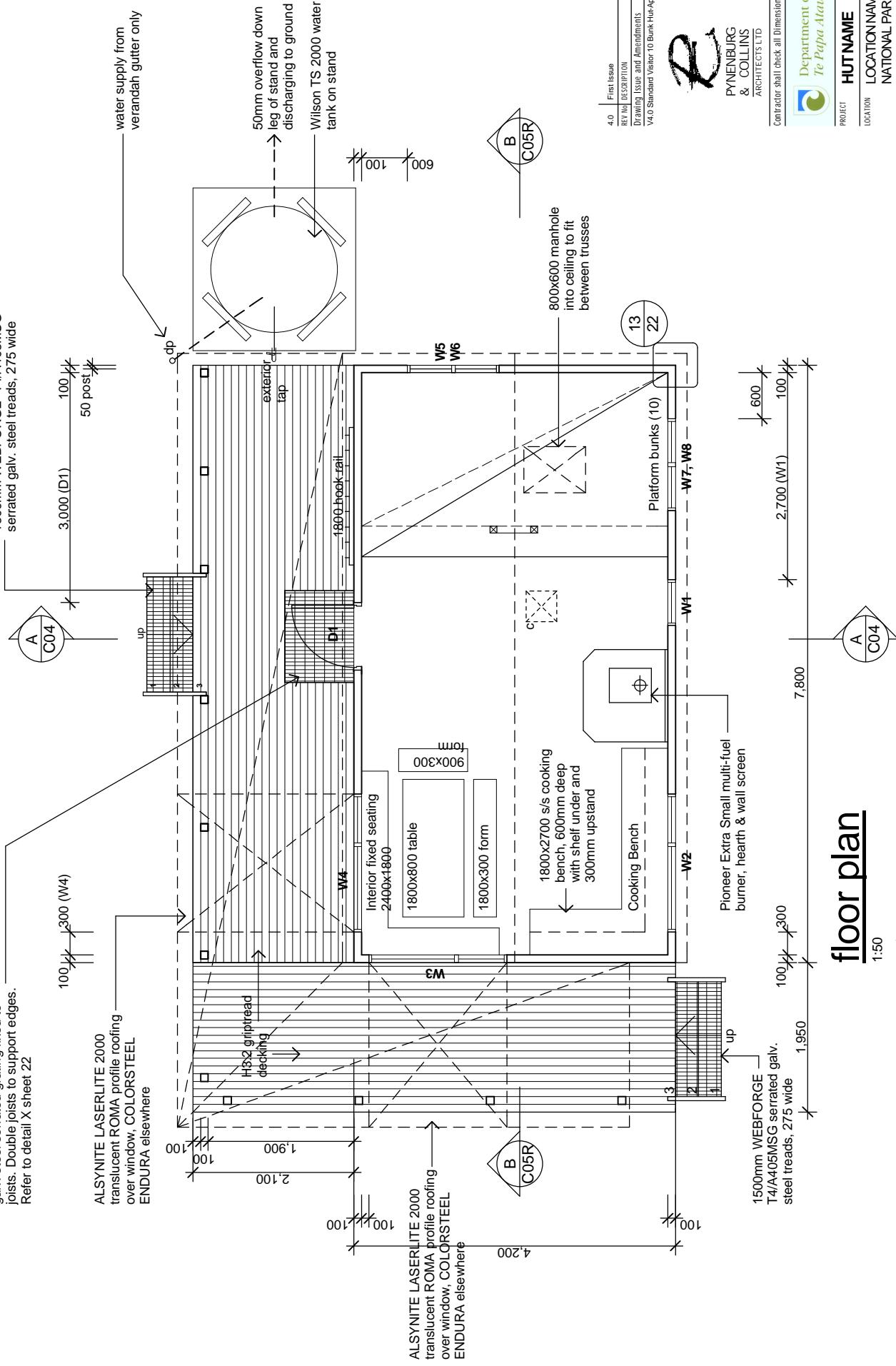
- 1500mm WEBFORGE T4/A405MSG
- serrated galv. steel treads, 275 wide

ALSYNITE LASERLITE 2000
translucent ROMA profile roofing -
over window, COLORSTEEL
ENDURA elsewhere

100 300 (W4)

~~3,000 (D1)~~ ~~100~~
~~50 post~~

— water supply from verandah gutter only



floor plan

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- note:** 1. 

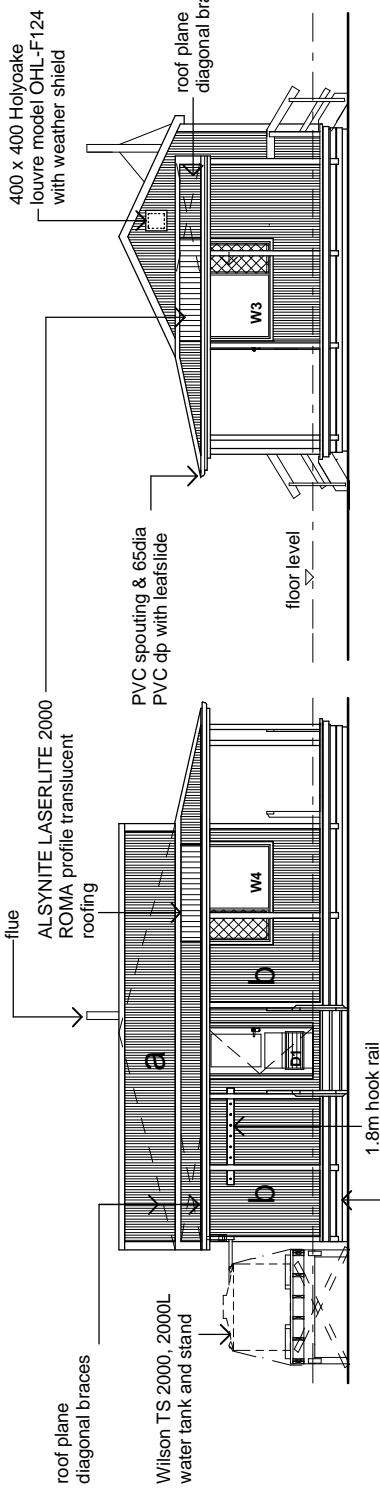
indicates 400 x 400 HOLYOAKE ceiling vent grill, model EC-125

AREA OF PAGE NAME		SHEET	SCALE
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		1:20	
		@ 13 SHEETS	
		SHEET NO. RE.	
		02R	
SHEET CONTENTS			
floor plan			
BEGIN	BROWN	CHIEF	PRODUCT No.
RP	GR	RP	
DATE	XYZ		

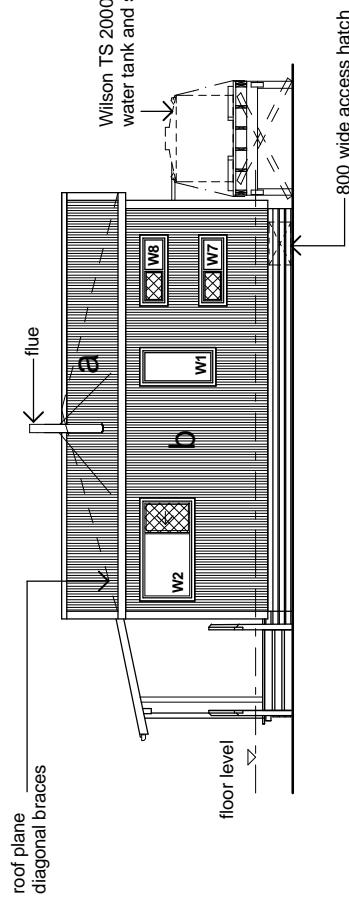
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Material Note:

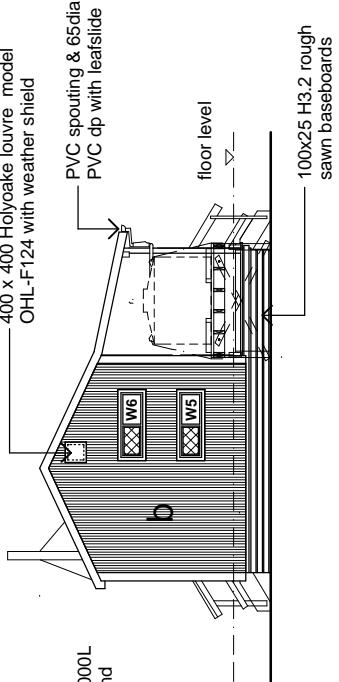
- a** COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE roofing over TASMAN INSULATION FLAMESTOP 860 660 building paper over 70 x 45 H3.2 purlins on flat @ 800/c max. evenly spaced.
- b** COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE cladding over TASMAN INSULATION BITUMAC 860 building paper over timber framing. Refer to floor plan for framing sizes & c/c.
- c** CHH 9mm ECOPLY CD grade untreated ceiling lining over 70 x 35 H1.2 battens @ 600/c max.
- d** CHH 9mm ECOPLY CD grade untreated wall lining with 10mm gap to flooring.
- e** CHH 19mm ECOPLY CD grade H3.2 LONGSPAN flooring F8 over timber joists. Refer to foundation plan for sub floor framing sizes & c/c.
- f** 90 x 35 H3.2 grip tread decking, grip side up, even nail spacing. 10mm gap between first piece of decking and wall cladding. Refer to foundation plan for sub floor framing sizes & c/c.



elevation 1 Scale 1:100



elevation 3 Scale 1:100



elevation 4 Scale 1:100

4.0	First Issue	Mar 09	-
RE No	Description	Date	Wk
Drawing Issue and Amendments V4.0 Standard Visitor To Bush Hut Appendix B2.3-Deck/Roof Option			
<i>R</i> PYNENBURG & COLLINS ARCHITECTS LTD Caprice House 111 Dixon St P.O.Box 2115 Wellington 6140 Phone: 04 - 473 1577 Fax: 04 - 384 5177 www.pc-architects.co.nz			

Contractor shall check all dimensions on site prior to construction



Department of Conservation

Te Papa Atauhau

PROJECT	HUT NAME	LOCATION	LOCATION NAME	NATIONAL PARK NAME	SCALE
AREA OFFICE	AREA OFFICE NAME	LOCATION	LOCATION NAME	NATIONAL PARK NAME	Sheet No. A3 SHEET SIZE @ A3 SHEET SIZE
SHEET CONTENTS	DRAWN RP GR DATE XYZ	CHECKED RP DATE XYZ	PROJECT NO. Ref No. Ref No. XYZ	1:100 1:50	Sheet No. Ref No. C03R

TYPICAL RIDGE TRUSS CONNECTION TO WALLS (2 off)
 Provide 90x45 stud each side of ridge truss with double stud under ridge chord in between the truss bottom chord in total. Fix through side studs and ridge truss end member with min 2/M12 bolts complete with 50x50x5 galv washers under head & nut

MITEK H1.2 coved timber trusses @ 900c/c max. refer specification

TASMAN INSULATION PINK BATTs ULTRA R3.6C ceiling

8
21

70x45 plate fixed to gable end framing

16
23

COLORSTEEL ENDURA corrugate profile roofing over 140x45 H3.2 MSG 8 /VSG 8 rafters at 600mm c/c max. with 140x45 noggs cut in at 600c/c max

2 / 140 x 45 H3.2 MSG 8 /VSG 8 verandah beam

90 x 90 H3.2 posts →

2050 u/s beam

floor level

10
22

EXPOL 55mm expanded polystyrene insulation

145x45 H3.2 joists @ 400c/c max.

over 2/145x45 H3.2 bearers

supported on 125 x 125 H5 piles,

using CONORA EZI-YAKA

foundation system. Refer to foundation plan for details and bracing requirements

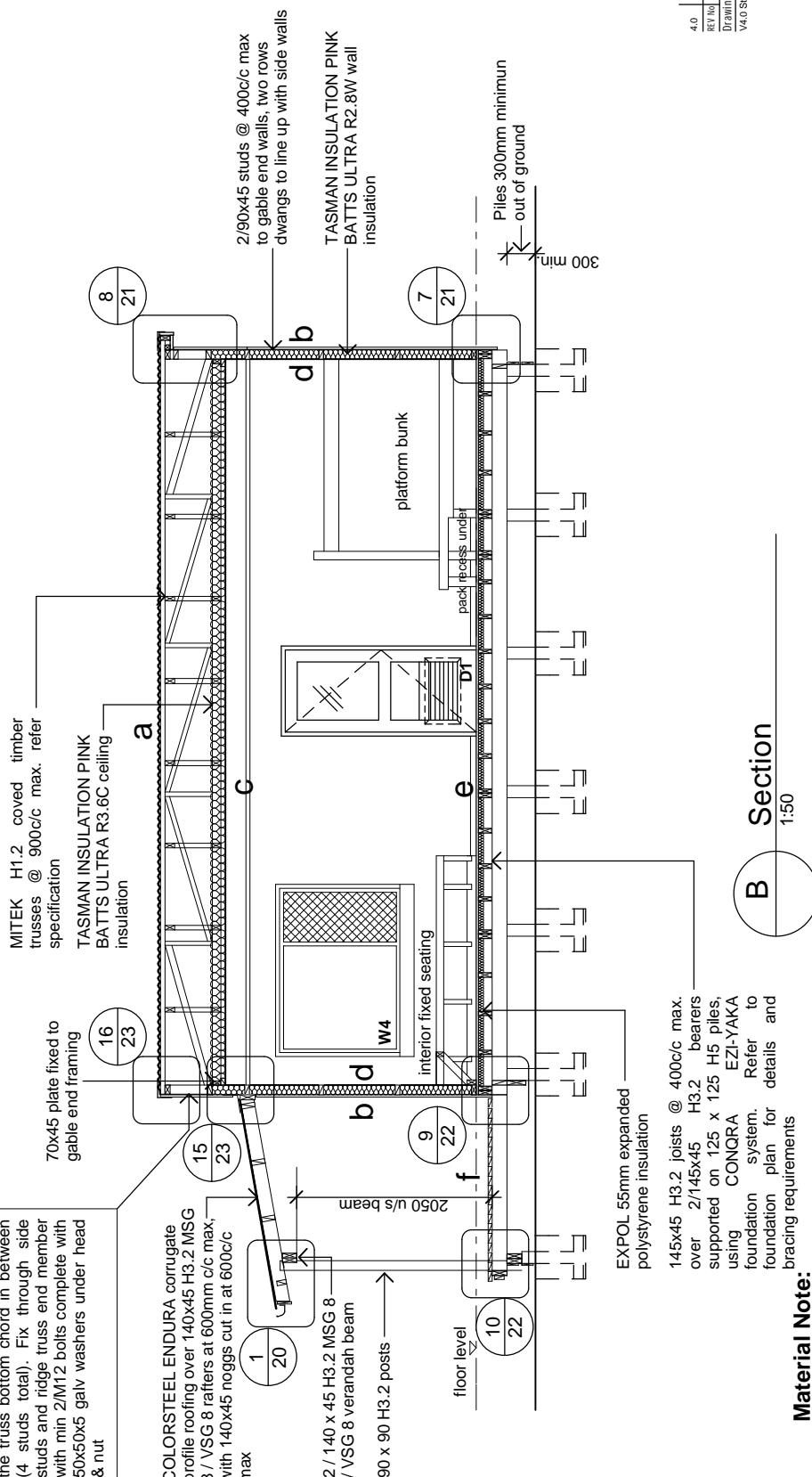
Material Note:

a COLORSTEEL ENDURA 0.40BM/T CORRUGATE PROFILE roofing over TASMAN INSULATION FLAMESTOP 660 building paper over 70 x 45 H3.2 purlins on flat @ 800c/c max. evenly spaced.

b COLORSTEEL ENDURA 0.40BM/T CORRUGATE PROFILE cladding over TASMAN INSULATION BITUMAC 860 building paper over timber framing. Refer to floor plan for framing sizes & c/c.

c CHH 9mm ECOPLY CD grade untreated ceiling lining over 70 x 35 H1.2 battens @ 600c/c max.

d CHH 9mm ECOPLY CD grade untreated wall lining with 10mm gap to flooring.



4.0	First Issue	Mar 09	-
Ref No	Description	Date	Wk
Drawing Issue and Amendments			
V4.0 Standard Version 10 Bank Hall Appendix B2.3-Deck/Roof Option			

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PROJECT HUT NAME

LOCATION LOCATION NAME

NATIONAL PARKNAME

AREA OFFICE AREA OFFICE NAME

SHEET CONTENTS

SCALE

1:50

SECTION B

Te Papa Atawhai

Department of Conservation

Te Papa Atawhai

Project

Hut Name

Location

National Parkname

Area Office

Area Office Name

Sheet Contents

Scale

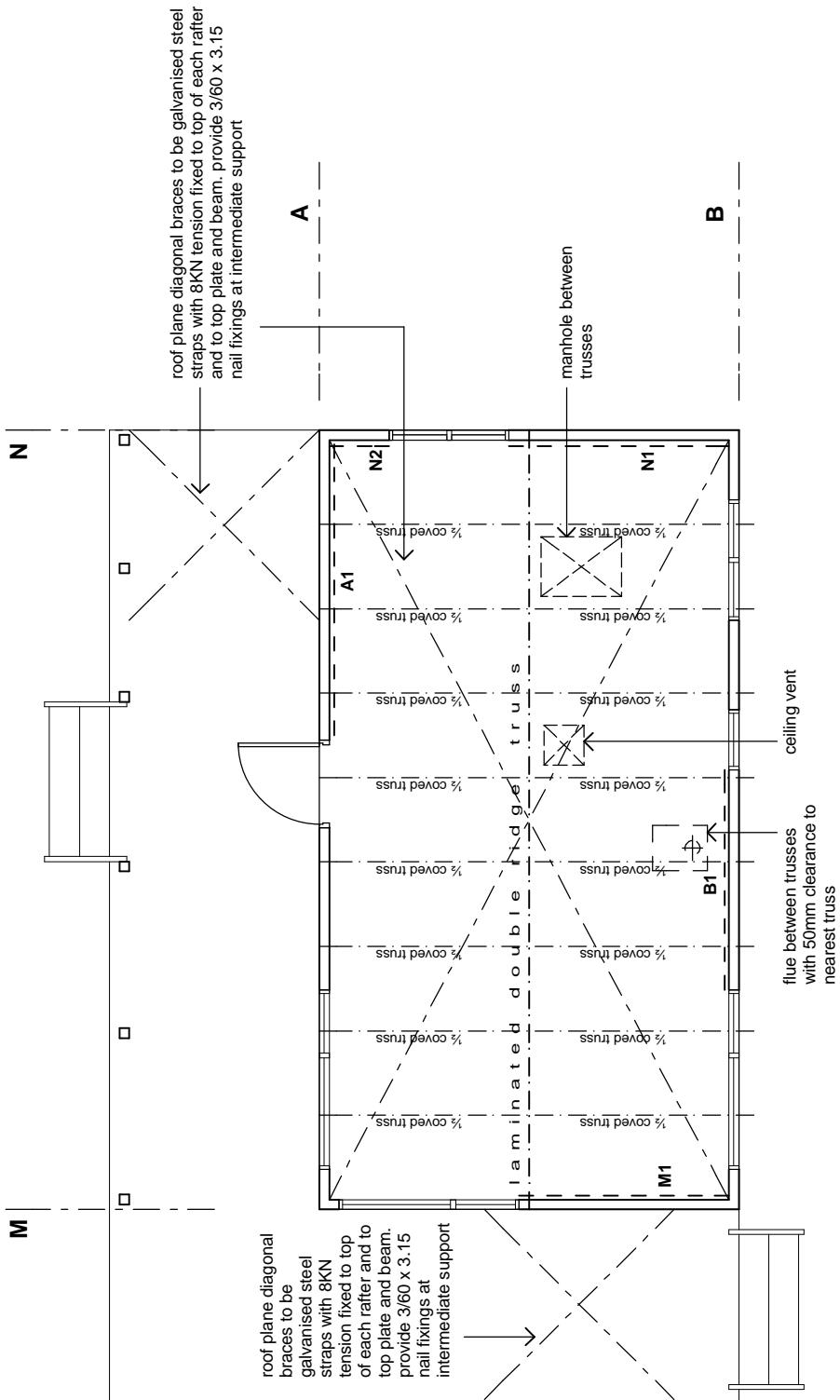
1:50

Design Drawn Checked Project No.

Date GR RP Date XYZ

Ref No. Rev No.

C05R



bracing plan

1:50

note:

1. A1 indicates CHH ECOPLY wall bracing element and element number. Refer to bracing calculations and manufacturers literature in specification for bracing types, length, height and connections.
2. Truss layout shown is typical, refer to specification for truss manufacturers truss design
3. All connections of trusses to top plates as per specification

PROJECT		HUT NAME	
LOCATION	Department of Conservation <i>Te Papa Atawhai</i>		
AREA OFFICE	NATIONAL PARKNAME		
SHEET CONTENTS	SCALES		
Drawing No. RP Date XYZ		Sheet No. RV No. 07R	
Drawing Issue and Amendments V4.0 Standard Visitor 10 Bush Hut Appendix B2.3-Deck/Roof Option		DATE Mar 09	
4.0 First Issue		DRAWING NO. C40	
Ref No.			
Contractor shall check all dimensions on site prior to construction			

Appendix B2.4: 12 bunk hut

Base Developed Design Options drawings

- Current Drawing Register
- Amendment Register
- Base drawings

ALL DRAWINGS ARE A4 REDUCTIONS OF A3 ORIGINALS AND THEREFORE ARE NOT TO SCALE. DO NOT MEASURE OFF THESE DRAWINGS OR USE FOR CONSTRUCTION.

CURRENT DRAWING REGISTER

Sheet	Title		Version	Date issued
D	(deck along side wall)			
01D	12 bunk hut base drawing	Site plan	4.0	March 2009
02D	12 bunk hut base drawing	Floor Plan	4.0	March 2009
C03D	12 bunk hut base drawing	Elevations	4.0	March 2009
C05D	12 bunk hut base drawing	Section B-B	4.0	March 2009
06D	12 bunk hut base drawing	Foundation Plan	4.0	March 2009
07D	12 bunk hut base drawing	Bracing Plan	4.0	March 2009
R	(deck and roof along side wall)			
01R	12 bunk hut base drawing	Site plan	4.0	March 2009
02R	12 bunk hut base drawing	Floor Plan	4.0	March 2009
C03R	12 bunk hut base drawing	Elevations	4.0	March 2009
C05R	12 bunk hut base drawing	Section B-B	4.0	March 2009
06R	12 bunk hut base drawing	Foundation Plan	4.0	March 2009
07R	12 bunk hut base drawing	Bracing Plan	4.0	March 2009

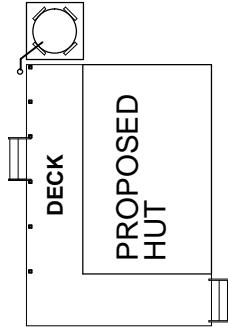
Sheets 04 and 08 are unaltered by the inclusion of the deck. Therefore obtain these two sheets from Appendix B1.4.

AMENDMENT REGISTER

Amendment date	Amendment details (section, page number, block)	Version	Signature of copyholder and date

DESIGN CRITERIA:

altitude = TBA
 corrosion zone = TBA
 floor load = 1.5 kPa
 deck load = 2.0 kPa
 snow load = TBA
 earthquake = TBA
 wind zone = TBA



4.0	First Issue Ref No	Mar 09 DATE	- DWG / C/D
Drawing Issue and Amendments V4.0 Standard Veler 12 Bunk Hut - Appendix B2.4 - Deck Option			


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PROJECT	HUT NAME	LOCATION	LOCATION NAME	NATIONAL PARK NAME	SCALE
	site plan				1:200

site plan
 1:200

1200x900 WEBFORGE A405MSG
galv. steel serrated grating fixed to
joists. Double joists to support edges.
Refer to detail X sheet 22

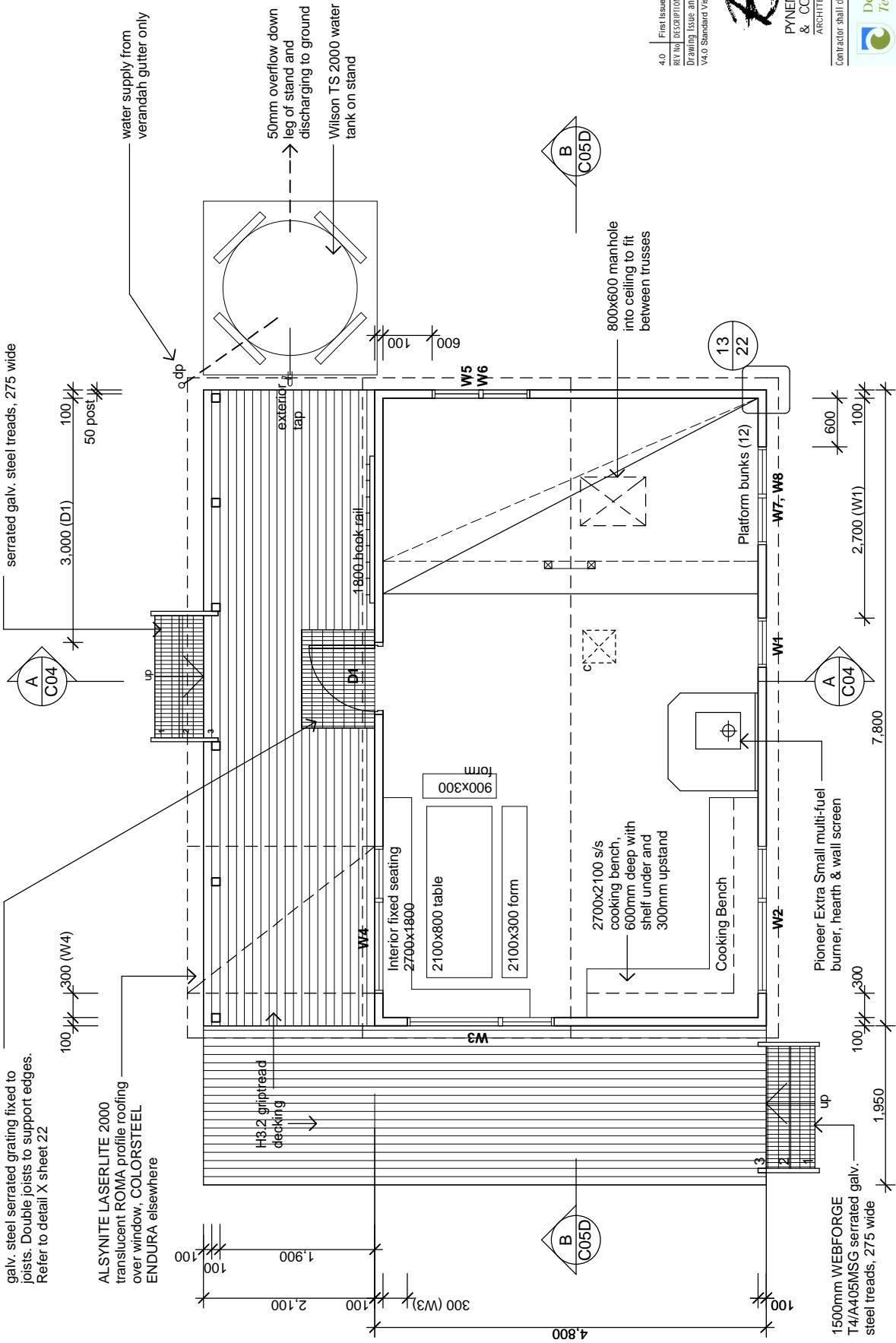
1500mm WEBFORGE T4/A405MSG
serrated galv. steel treads, 275 wide

ALSYNITE LASERLITE 2000
translucent ROMA profile roofing
over window, COLORSTEEL
ENDURA elsewhere

100 300 (W4)

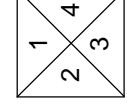
50 post #

water supply from verandah gutter only



note: indicates 400 x 400 HOI YOAKE ceiling vent grill model EC-125

note:
1



elevation key

REV NO	DESCRIPTION	DATE	DWN	CKD
Drawing Issue and Amendments				
V4.0 Standard Visitor 12 Bunk Hut - Appendix B2.4 - Deck Option				

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HUT NAME | **LOCATION NAME**

LOCATION: **NATIONAL PARK NAME**
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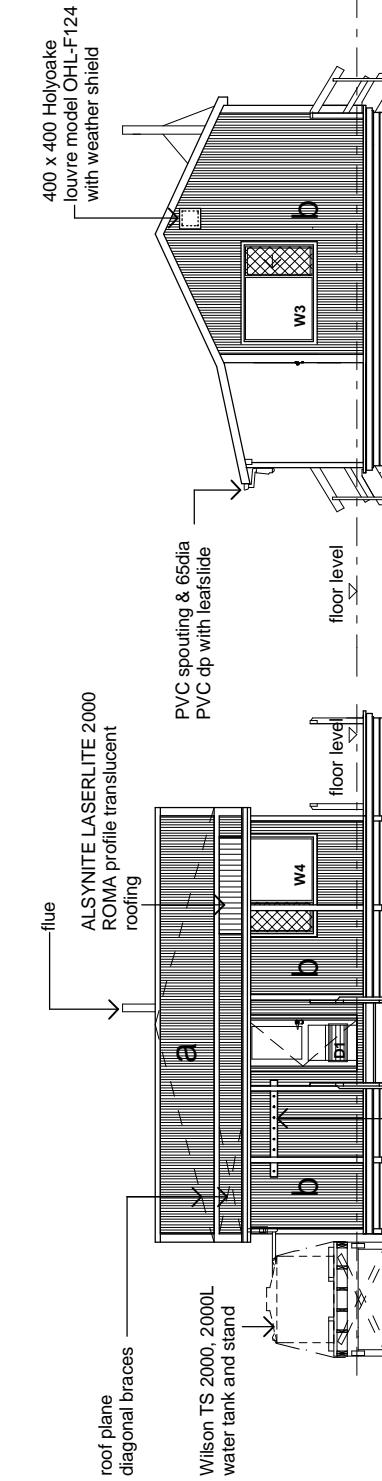
AREA OFFICE NAME	SHEET CONTENTS	SCALES
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1:50,
1:20

@ A3 SHEET SIZE
SHT No. REV #

Material Note:

a COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE cladding over TASMAN INSULATION FLAMESTOP 860 building paper over timber framing. Refer to floor plan for framing sizes & c/c.



elevation 1 Scale 1:100

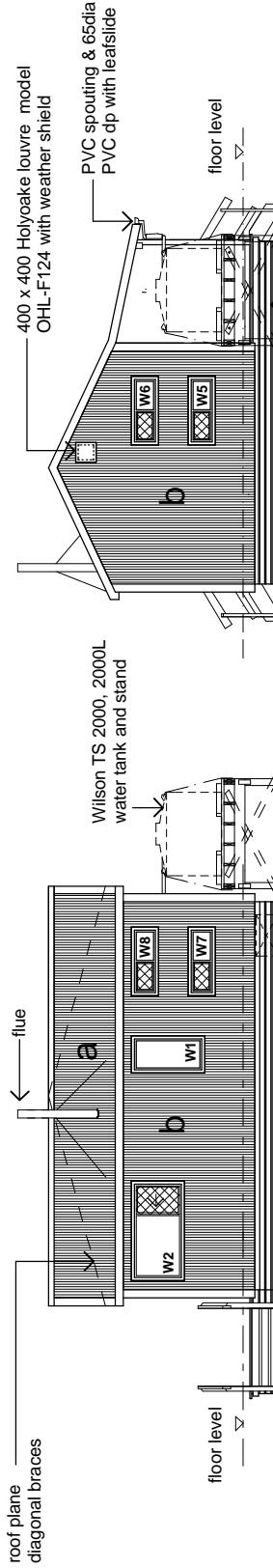
b CHH 9mm ECOPLY CD grade untreated ceiling lining over 70 x 45 H1.2 battens @ 600c/c max.

c CHH 9mm ECOPLY CD grade untreated wall lining with 10mm gap to flooring.

d CHH 19mm ECOPLY CD grade H3.2 LONGSPAN flooring F8 over timber joists. Refer to foundation plan for sub floor framing sizes & c/c.

e 90 x 35 H3.2 grip tread decking, grip side up, even nail spacing. 10mm gap between first piece of decking and wall cladding. Refer to foundation plan for sub floor framing sizes & c/c.

elevation 2 Scale 1:100



elevation 3 Scale 1:100

elevation 4 Scale 1:100

4.0	First Issue	Mar 09	-
Ref No	Description	Date	DWG / CAD
Drawing Issue and Amendments V4.0 Standard Ver12 Bunk Hut - Appendix B2.4 - Draft Option			

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Department of Conservation

Te Papa Atauhau

PROJECT HUT NAME

LOCATION

NATIONAL PARK NAME

AREA OFFICE

AREA OFFICE NAME

SHEET CONTENTS

SCALE

1:100

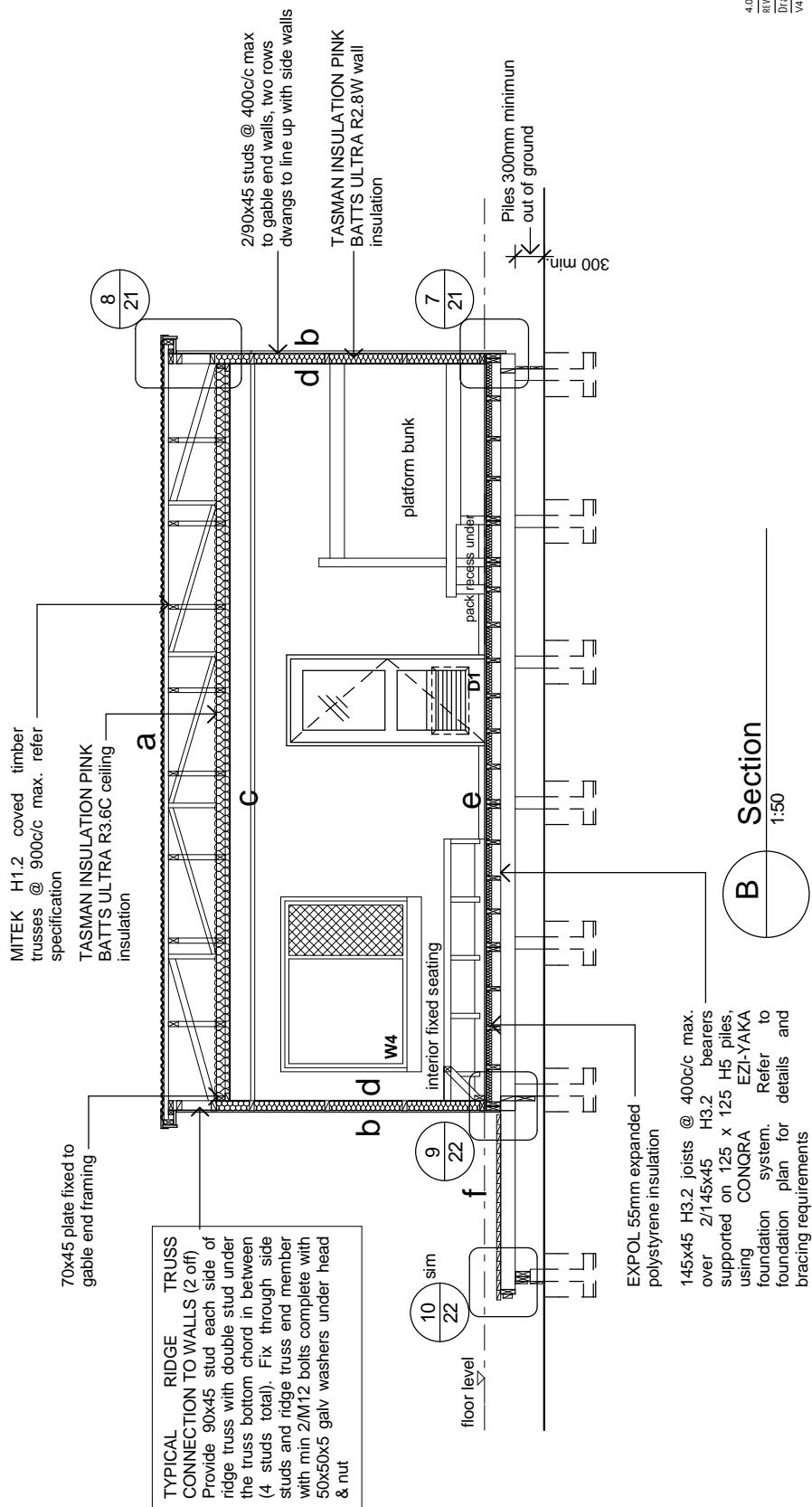
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@ A3 SHEET SIZE

SH No. B716

REV No.

C03D

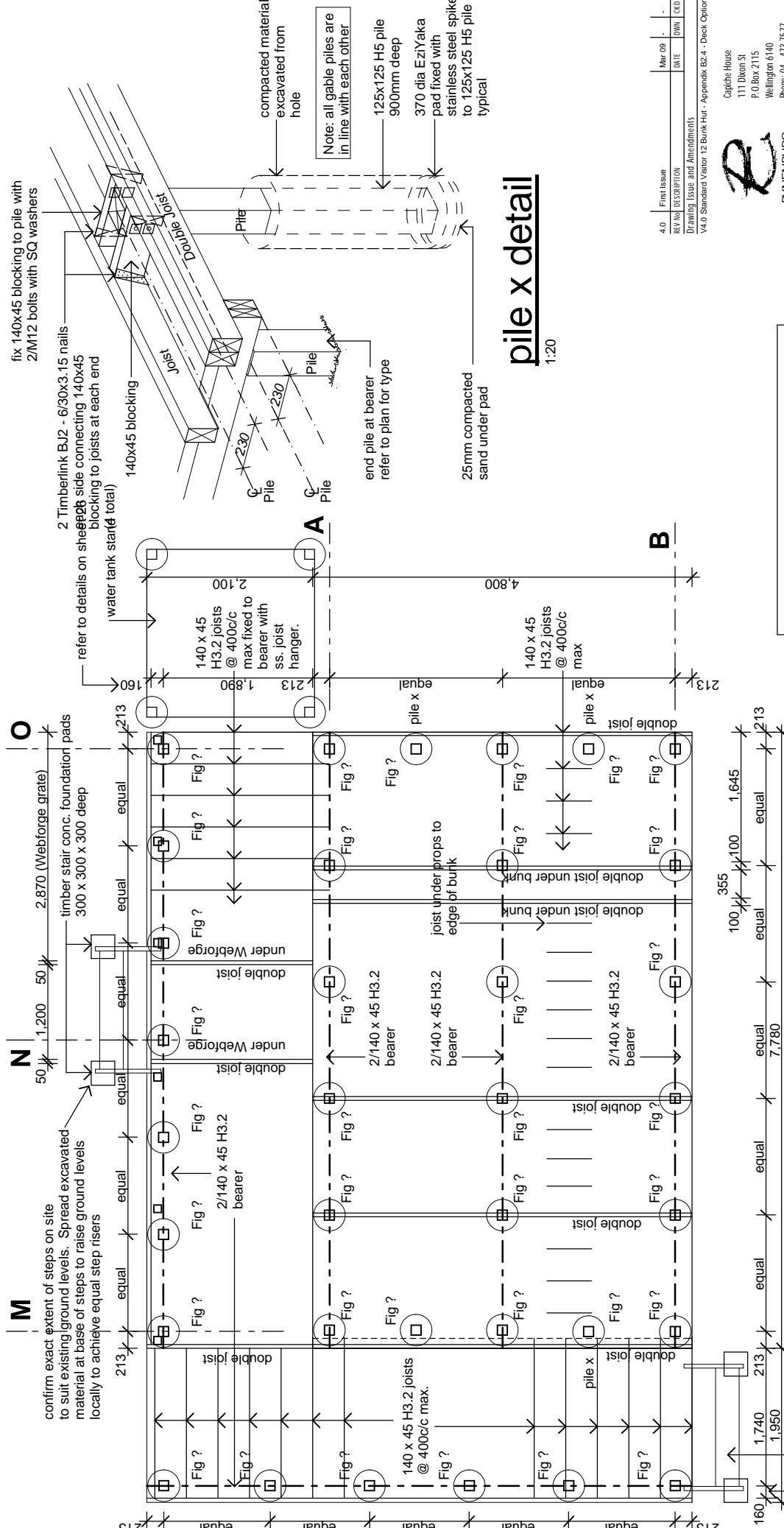


Material Note:

4.0	First Issue	Mar 09	-
Ref No	Description	Date	DWG/CAD
Drawing Issue and Amendments V4.0 Standard Version 12 Bulk hut - Appendix B2.4 - Draft Option			

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PROJECT	HUT NAME	LOCATION	LOCATION NAME	NATIONAL PARK NAME
AREA OFFICE	AREA OFFICE NAME	SHEET CONTENTS	SCALE	SH. NO. REV. NO.
	 Department of Conservation Te Papa Atawhai	section B	1:50	



pile x detail

12kN pile fixings

Use "Timberlink" PB2 High Corrosion pack (s.s 304) for connection of bearer to pile and bearer to joist. Refer to Appendix in spec details

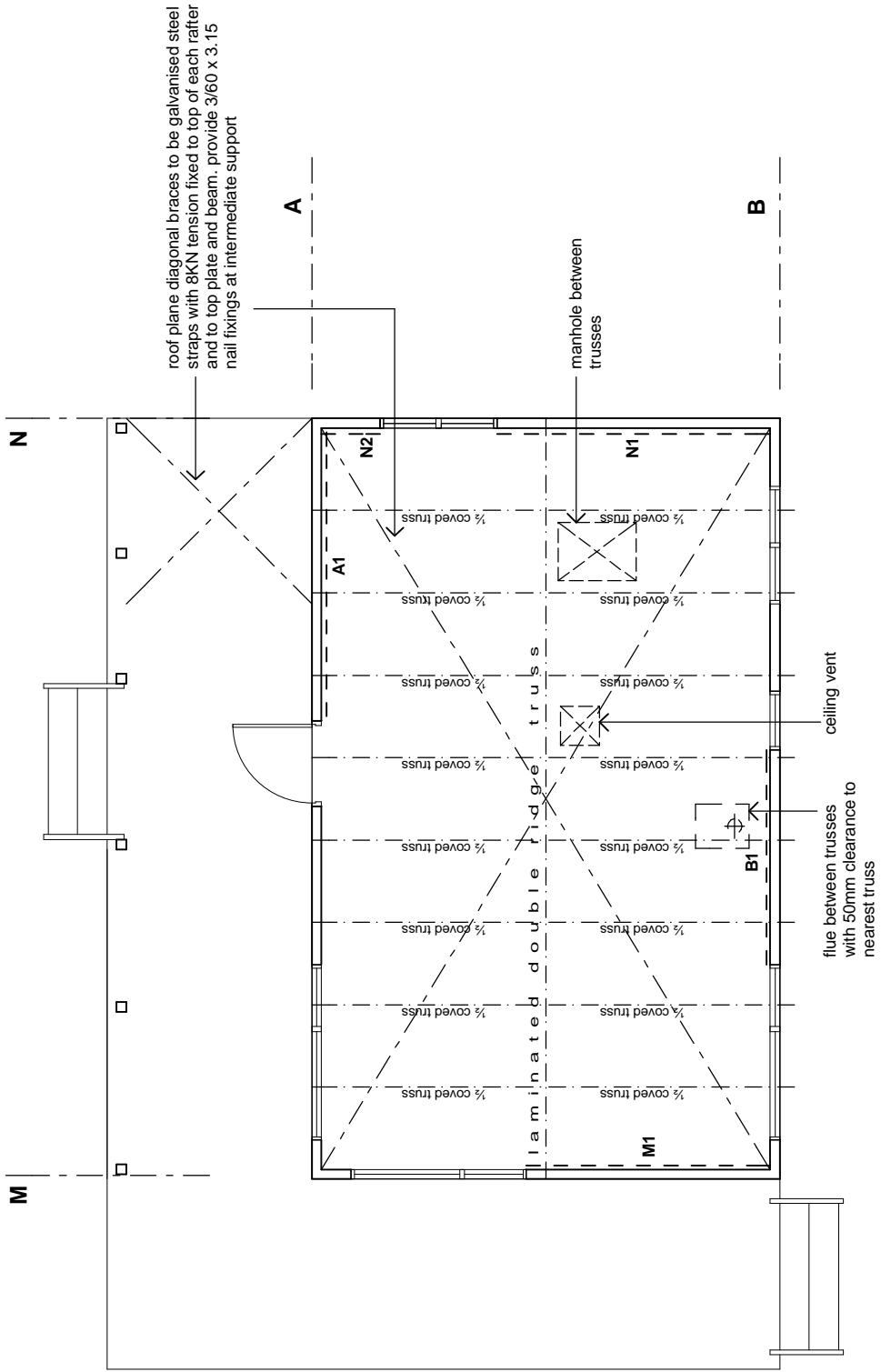
Pile Legend:

Refer to Congra specification for "light foot" foundation system and sheet for details

- All floor joists and bearers are to be No. 1 Framing / MSG 6 (unless noted otherwise)
 - fig2 Piles: 125x125 H5 treated over dimensions shown refer to Appendix B Congra Foundation Details for construction details and instructions
 - Diagonal brace to be 100x75 with the arrow pointing to top of the pile.
 - Soil bearing capacity shall be equal to good ground as defined in NZS3604.

HUI NAME LOCATION LOCATION NAME

NATIONAL PARK NAME		AREA OFFICE		AREA OFFICE NAME	
SHEET 1 CONTENTS				SCALE	
				1:50, 1:200	
				@ 13 SHEET SIZE REF NO.	
				06D	
DESIGN RP DATE xyz	DRAWN GR xyz	CHECKED RP	PROJECT No. xyz	SH. NO. xyz	REV N
foundation plan					



bracing plan

1:50

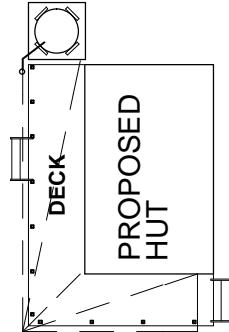
note:

- A1** indicates CHH ECOPLY wall bracing element and element number. Refer to bracing calculations and manufacturers literature in specification for bracing types, length, height and connections.
- Truss layout shown is typical, refer to specification for truss manufacturers truss design
- All connections of trusses to top plates as per specification

4.0	First Issue	Mar 09	
Ref No	Description	Date	Cd
Drawing Issue and Amendments			
V4.0 Standard Venture 12 Bunk Hut - Appendix B2.4 - Design Option			
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Te Papa Atawhai		Department of Conservation	
HUT NAME			
LOCATION	National Park Name		
AREA OFFICE	Area Office Name		
SHEET CONTENTS		SCALE	
bracing plan		1:50	
DESIGN RP	DRAWN GR	CHECKED RP	PROJECT NO. S/N REF NO.
DATE XYZ			

DESIGN CRITERIA:

altitude = TBA
 corrosion zone = TBA
 floor load = 1.5 kPa
 deck load = 2.0 kPa
 snow load = TBA
 earthquake = TBA
 wind zone = TBA



4.0	First Issue Ref No DESCRIPTION	Mar 09 DATE	- DWG / C.R.D.
Drawing Issue and Amendments V4.0 Standard Visitor 12-Bunk Hut-Appendix B2-4-Deck/Roof Option			

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Contractor shall check all dimensions on site prior to construction
 Contractor shall check all dimensions on site prior to construction



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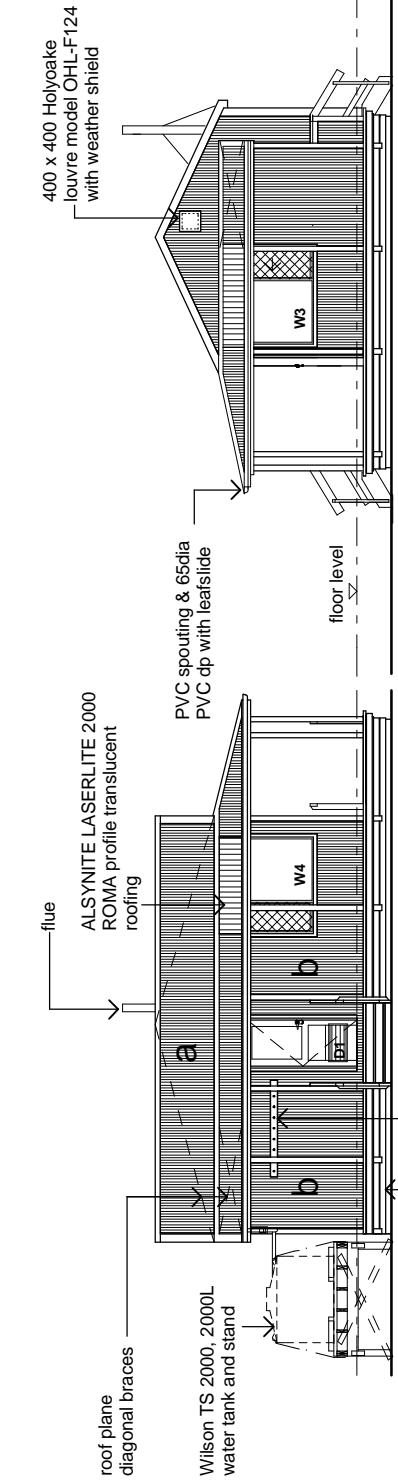
PROJECT	HUT NAME	LOCATION	LOCATION NAME	NATIONAL PARK NAME	SCALE
AREA OFFICE	AREA OFFICE NAME	SHEET CONTENTS			
site plan					1:200

TS SIGN DRAWN CHECKED PROJECT NO.
 RP GR RP XYZ
 DATE XYZ
 @ A3 SHEET SIZE
 SH. NO. R/T No.
 01R

site plan
 1:200

Material Note:

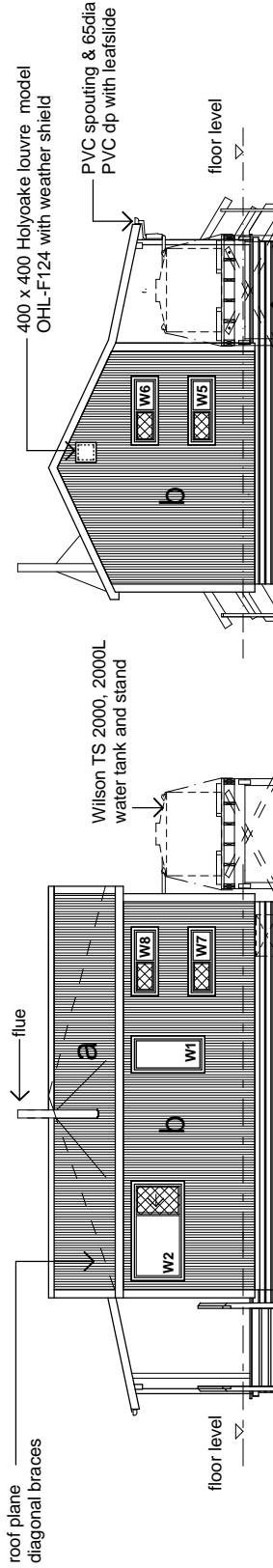
a COLORSTEEL ENDURA 0.40BMT CORRUGATE PROFILE cladding over TASMAN INSULATION FLAMESTOP 860 building paper over timber framing. Refer to floor plan for framing sizes & c/c.



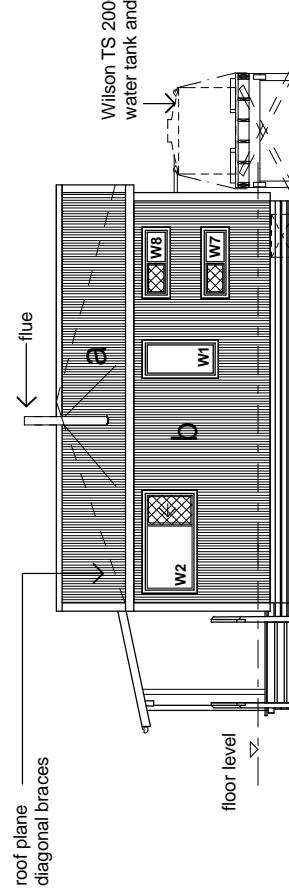
elevation 1 Scale 1:100

b 400 x 400 Holyoake louvre model OHL-F24 with weather shield
c CHH 9mm ECOPLY CD grade untreated ceiling lining over 70 x 35 H1.2 battens @ 600c/c max.
d CHH 9mm ECOPLY CD grade untreated wall lining with 10mm gap to flooring.
e CHH 19mm ECOPLY CD grade H3.2 LONGSPAN flooring F8 over timber joists. Refer to foundation plan for sub floor framing sizes & c/c.
f 90 x 35 H3.2 grip tread decking, grip side up, even nail spacing. 10mm gap between first piece of decking and wall cladding. Refer to foundation plan for sub floor framing sizes & c/c.

elevation 2 Scale 1:100



elevation 4 Scale 1:100



elevation 3 Scale 1:100

4.0	First Issue	Mar 09	-
Ref No	Description	Date	Wk
Drawing Issue and Amendments			
V4.0 Standard Visitor 12-Bunk Hut-Appendix B2-4-Deck/Roof Option			

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F: +64 4 384 5177
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PROJECT	HUT NAME	LOCATION	LOCATION NAME	NATIONAL PARK NAME	SCALE
AREA OFFICE	AREA OFFICE NAME	LOCATION	LOCATION NAME	NATIONAL PARK NAME	1:100
SHEET CONTENTS	DATE	DATE	DATE	DATE	1:50 @ A3 SHEET SIZE Sheet No. Ref No.

TS SIGN DRAWN CHECKED PROJECT NO.
RP GR RP XYZ
DATE XYZ

C03R

TYPICAL RIDGE TRUSS CONNECTION TO WALLS (2 off)
Provide 90x45 stud each side of ridge truss with double stud under the truss bottom chord in between (4 studs total). Fix through side studs and ridge truss end member with min 2/M12 bolts complete with 50x50x5 galv washers under head & nut

MITEK H1.2 coved timber trusses @ 900c/c max. refer specification
TASMAN INSULATION PINK BATTs ULTRA R3.6C ceiling

8
21

COLORSTEEL ENDURA corrugate profile roofing over 140x45 H3.2 MSG 8 /VSG 8 rafters at 600mm c/c max. with 140x45 noggs cut in at 600c/c max

1
20
15
23

70x45 plate fixed to gable end framing

16
23

2 / 140 x 45 H3.2 MSG 8 /VSG 8 verandah beam
90 x 90 H3.2 posts

2050 u/s beam
10
22

TASMAN INSULATION PINK BATTs ULTRA R2.8W wall insulation

7
21

EXPOL 55mm expanded polystyrene insulation
145x45 H3.2 joists @ 400c/c max. over 2/145x45 H3.2 bearers supported on 125 x 125 H5 piles, using CONORA foundation system. Refer to foundation plan for sub purlins on flat @ 800c/c max. evenly spaced.

9
22

COLORSTEEL ENDURA 0.40BM/T CORRUGATE PROFILE roofing over TASMAN INSULATION FLAMESTOP 660 building paper over 70 x 45 H3.2 purlins on flat @ 800c/c max. evenly spaced.

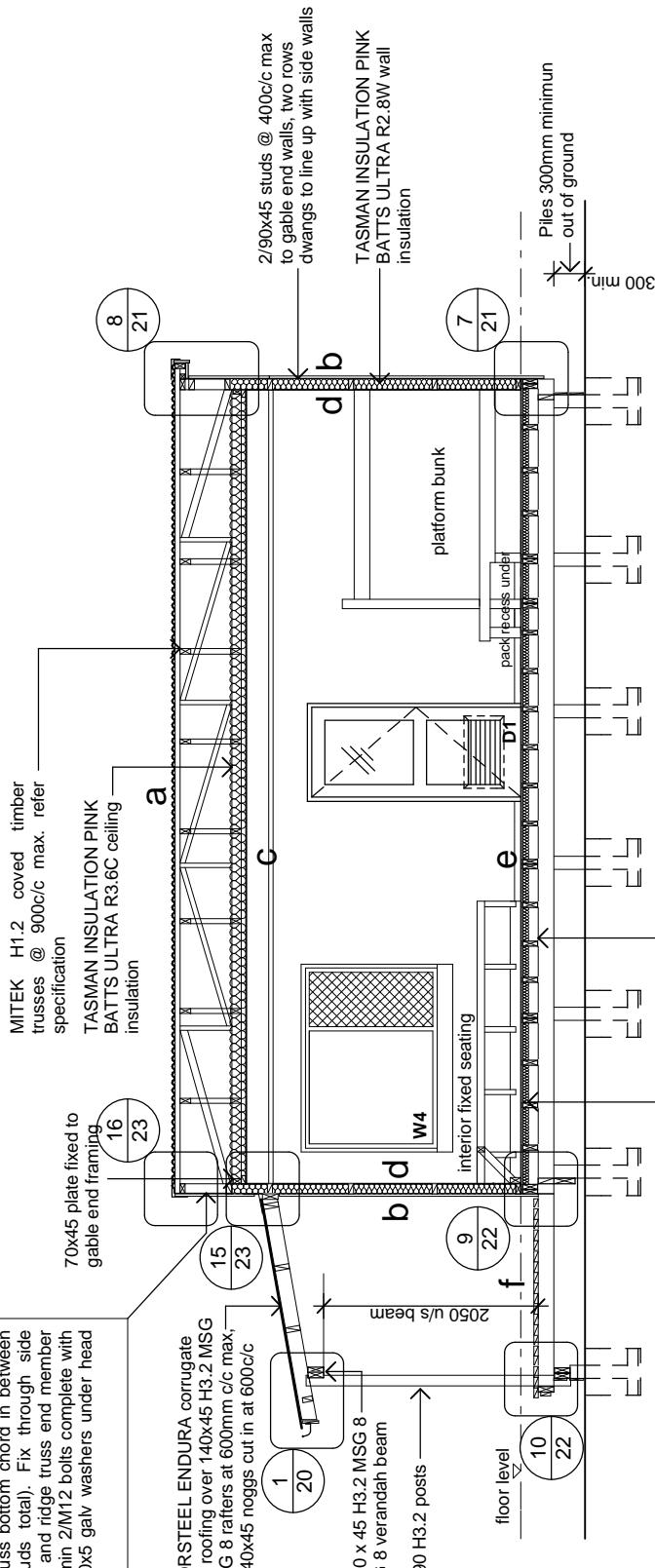
Material Note:

a COLORSTEEL ENDURA 0.40BM/T CORRUGATE PROFILE cladding over TASMAN INSULATION BITUMAC 860 building paper over timber framing. Refer to floor plan for framing sizes & c/c.

b COLORSTEEL ENDURA 0.40BM/T CORRUGATE PROFILE cladding over TASMAN INSULATION BITUMAC 860 building paper over timber framing. Refer to floor plan for framing sizes & c/c.

c CHH 9mm ECOPLY CD grade untreated ceiling lining over 70 x 35 H1.2 battens @ 600c/c max.

d CHH 9mm ECOPLY CD grade untreated wall lining with 10mm gap to flooring,



4.0	First Issue	Mar 09	-
Ref No	Description	Date	D/WN C/D
Drawing Issue and Amendments			
V4.0 Standard Version 12 Bank Hall Appendix B2-4-Deck/Roof Option			

Contractor shall check all dimensions on site prior to construction

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PROJECT HUT NAME

LOCATION

NATIONAL PARK NAME

AREA OFFICE

AREA OFFICE NAME

SHEET CONTENTS

SCALE

section B

1:50

Te Papa Atawhai

Department of Conservation

Te Papa Atawhai

Project

Hut Name

Location

National Park Name

Area Office

Area Office Name

Sheet Contents

Scale

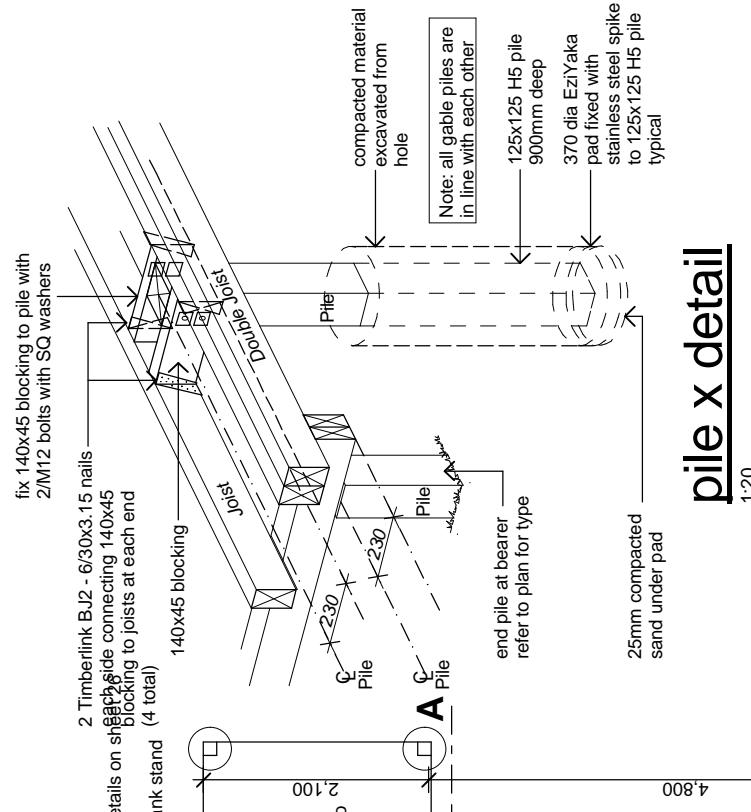
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Ref No

Rev No

Sheet Size

C05R



pile X detail

1:20

B

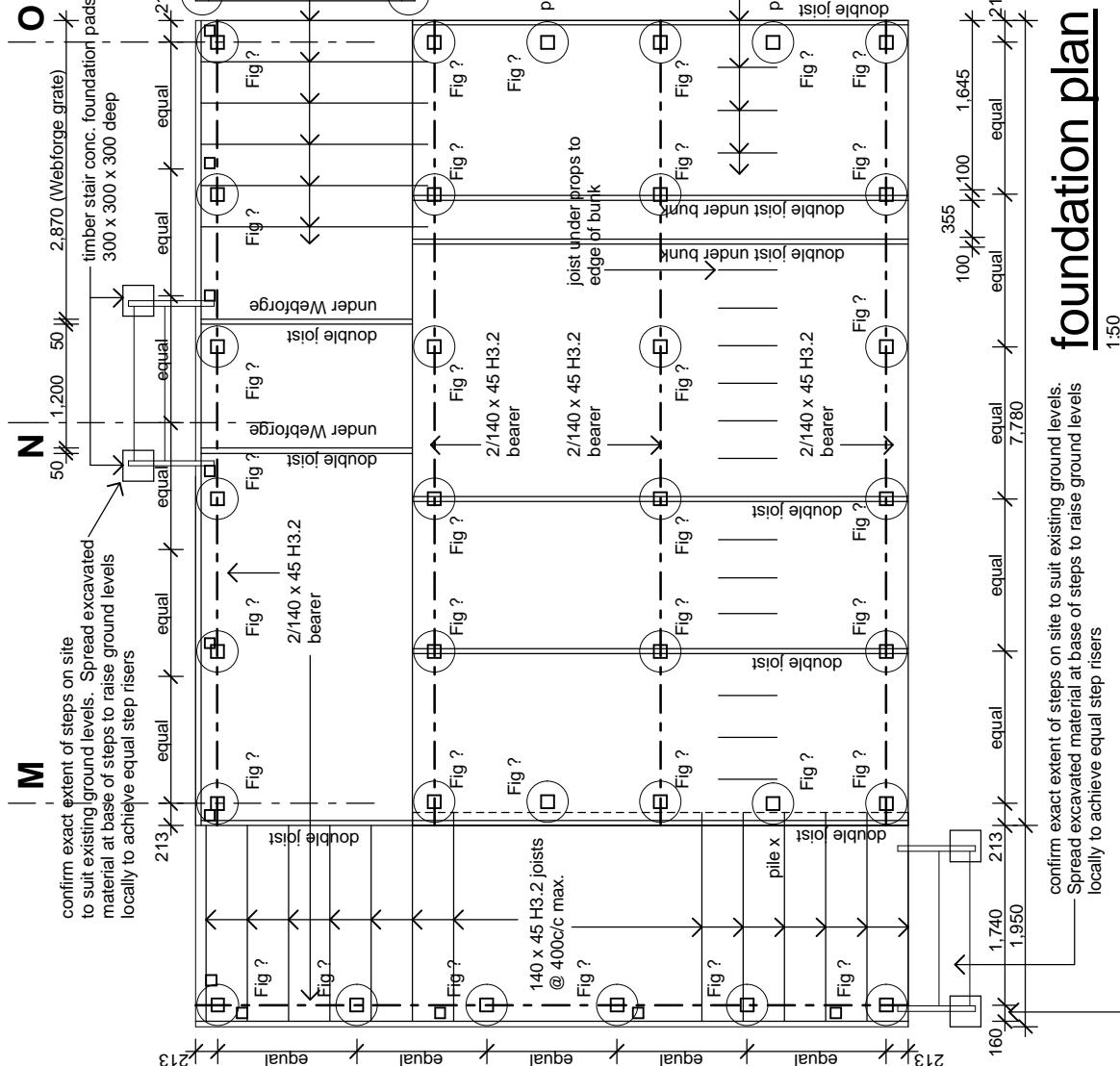
4.0 First Issue
Ref No Description Date Mar 09 Drawn C/D



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Te Papa Atauhau



foundation plan

1:50
read in conjunction with floor plan

Pile Legend:

refer to Congra specification for "light foot" foundation system and sheet for details

- All floor joists and bearers are to be No. 1 Framing / MSG 6 (unless noted otherwise)

2. fig2
Piles: 125x125 H5 treated over dimensions shown
3.
refer to Appendix B Congra Foundation Details for construction details and instructions

4.
Diagonal brace to be 100x75 with the arrow pointing to top of the pile.
5.
Soil bearing capacity shall be equal to good ground as defined in NZS3604.

12kN pile fixings
Use Timberlink PB2 High Corrosion pack
(s.s 304) for connection of bearer to pile and
bearer to joist. Refer to Appendix in spec for
details

1:20

A

4.0 First Issue
Ref No Description Date Mar 09 Drawn C/D



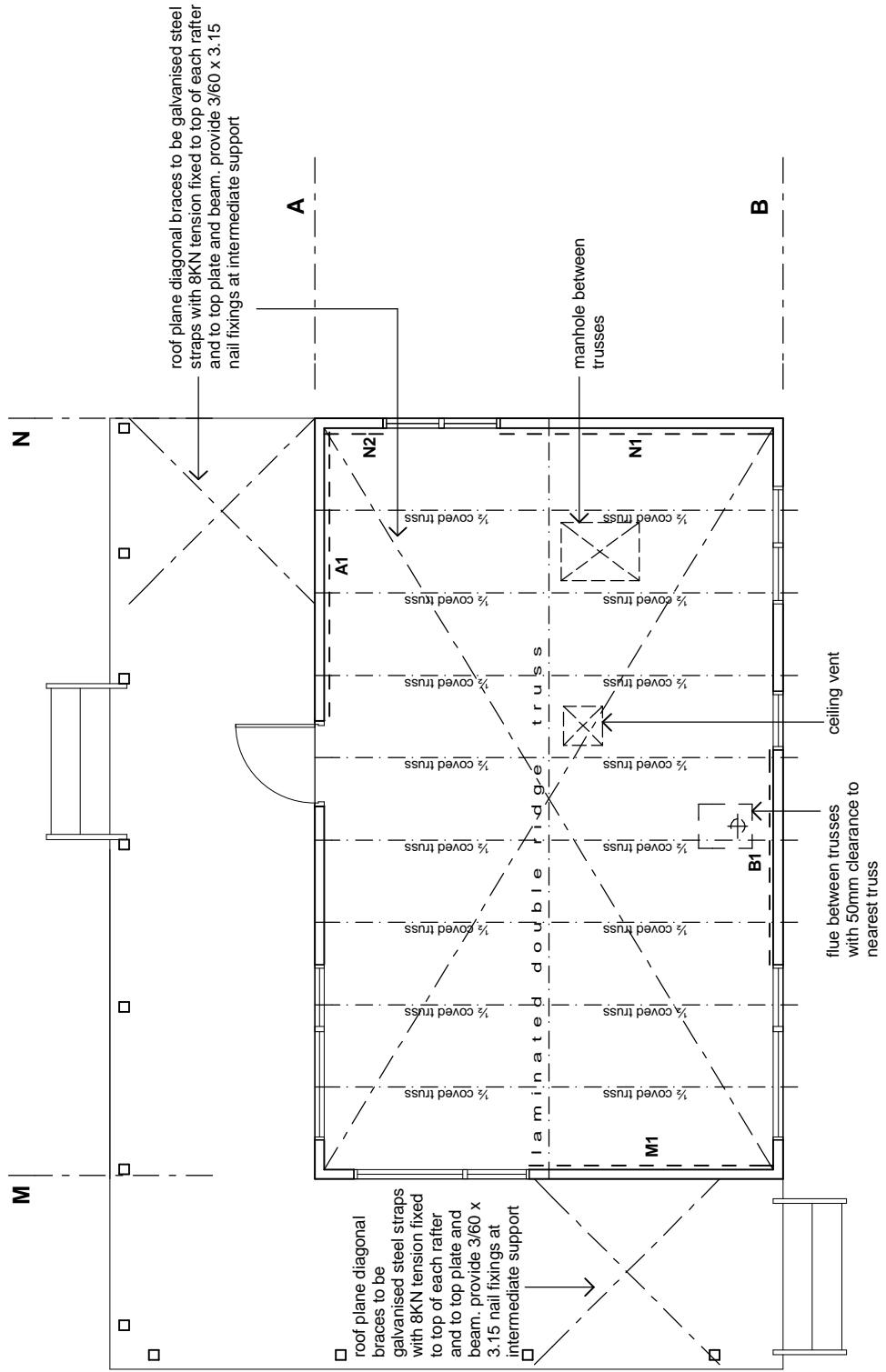
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PROJECT	HUT NAME	LOCATION	LOCATION NAME	NATIONAL PARK NAME	SCALE
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06R



4.0	First Issue	Mar 09	
Ref No	Description	Date	CD
Drawing Issue and Amendments V4.0 Standard Visitor 12-Bunk Huts Appendix B2-4-Deck/Roof Option			

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PROJECT	HUT NAME	LOCATION	LOCATION NAME	NATIONAL PARK NAME	SCALE

SHEET CONTENTS

bracing plan

1:50

TS SIGN DRAWN CHECKED PROJECT NO.
RP GR RP DATE XYZ
@ A3 SHEET SIZE
SHT NO. REV NO.
07R