

パプアニューギニア国

環境保護・保全公社

パプアニューギニア国
生物多様性保全のための PNG 保護区
政策強化プロジェクト

事業完了報告書
(別冊 1 Vol. 2)

2021 年 8 月

独立行政法人
国際協力機構 (JICA)

日本工営株式会社
国際航業株式会社

環境
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B. 成果 1

B-1 NCC (NPART)の設立

活動コンポーネントの概要及び主要な成果品 国家保全審議会(NCC)/国家保護区円卓会議(NPART)の設立

1. 背景及び概要

PNG には、国内の多様なステークホルダーの意見を反映させながら、生物多様性保全及び保護区管理に関連する方針について国家レベルの意思決定をする機関が存在しなかった。本プロジェクトでは、成果 2 において保護区の管理モデルを VNP にて実践し、成果 3 において保護区の設立モデルをブーツレス湾エリアにて設立する計画であった。そのため、国家レベルの生物多様性保全及び保護区管理の活動を推進するとともに、プロジェクトのモデルを正式に承認し、関係機関へその推進を助言する国家保全審議会(NCC)を設立する必要があった。これは本プロジェクトの上位目標である、各モデルが PNG の他地域へ普及されるためにも、重要な前提条件と位置付けられた。

2. 目的

生物多様性保全及び保護区管理に関連する方針について、国家レベルの意思決定をする機関を設立する。

3. 活動内容

- (1) 関連法制度のレビュー
- (2) 設立の根拠法の検討とアプローチの決定
- (3) 設立根拠となる法制度の整備支援
- (4) NPART の設立支援
- (5) NPART の運営支援

4. 活動経緯と実績

(1) 関連法制度のレビュー

2015年7月 ～10月	<ul style="list-style-type: none">➤ 自然保全に関連する法律を見直し、関係者と NCC 設立の根拠となる法律を検討した。➤ 自然保全区法(CAA)を使ったアプローチを定め、必要な手続きを提案するとともに、CAA の改定案を起案した。➤ 代替案として、既存の環境審議会(EC)の枠組を使ったアプローチを定め、必要な手続きを提案した。
2015年10 月～2016年	<ul style="list-style-type: none">➤ 関係者ワークショップを複数回行い、また多くの個別会議を行い、アプローチに関する意思決定を支援した。

1月	<ul style="list-style-type: none"> ➤ GEF-UNDP が起案作業を支援していた、既存の保護区関連法を統合する統合保護区法案(Protected Area Bill)の枠組みで、暫定 NCC を設立することとなった。
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(2) 設立の根拠法の検討とアプローチの決定

2015年2月 ～12月	<ul style="list-style-type: none"> ➤ 作業中であった統合保護区法案(Protected Area Bill)の関連部分(NCC 及び NPART)の起案を支援した。 ➤ NCC 設立までの手続きとスケジュールを明確にした。 ➤ 統合保護区法案(Protected Area Bill)の関連部分(NCC 及び NPART)の起案作業の支援を続けるとともに、その作業の遅れに影響されながら、本プロジェクトの作業計画の見直しを数多く行った。
2016年1月 ～2017年2月	<ul style="list-style-type: none"> ➤ GEF-UNDP の統合保護区法案(Protected Area Bill)の起案作業の見通しが経たない中、これ以上の不必要な作業を避けるため、見通しが立つまで正式に作業を一時中断することを、CEPA は決定した。

(3) 設立根拠となる法制度の整備支援

2017年3月 ～2019年2月 添付資料 1.1.1, 1.1.2, 1.1.3	<ul style="list-style-type: none"> ➤ 統合保護区法案(Protected Area Bill)の実施細則を定めた制度(Protected Area Regulations)の関連部分の作成を支援した。 ➤ 統合保護区法案(Protected Area Bill)の成立を見据えた、暫定 NCC の設立までの手続きを検討した。 ➤ NCC を設立する根拠は、閣議決定(NEC Resolution)によるものと定め、関係者へのブリーフィング、資料作成などの閣議開催の支援を行った。
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(4) NPART の設立支援

2019年3月 ～2019年11月 添付資料 1.1.4, 1.1.5	<ul style="list-style-type: none"> ➤ NEC Resolution に入れるため、NPART 及び RPART の Terms of Reference を起案した。 ➤ NPART のメンバー選出の手続きを検討し、またメンバー候補達と参加の可能性などを協議し、メンバー構成の提案書を作成した。 ➤ 暫定 NPART 設立提案書を作成し提出した。 ➤ 暫定 NPART のメンバー選定のため、関心表明の募集要項を起案した。 ➤ 暫定 NPART のメンバーの任命レターを起案した。 ➤ 暫定 NPART のメンバーを選考し決定した。各候補から承諾書を取得した。
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(5) NPART の運営支援

2019年12月～2020年3月 添付資料 1.1.6	<ul style="list-style-type: none"> ➤ 第一回 NPART 会合の議事次第など、必要な文書を起案した。 ➤ 第一回 NPART 会合のメンバー招集と実施の手続きを支援した。 ➤ 第一回 NPART 会合を(Interim NPART Meeting)を2020年2月7日に開催する支援を実施した。 ➤ 第一回 NPART 会合の議事録、また議論を踏まえた NPART の TOR 案の改定案の作成などの事後作業を行った。 ➤ 第二回 NPART 会合の議事次第など、必要な文書を起案するとともに、開催と今後の運営のために CEPA に対して引継作業を行った。
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5. 評価

(1) 成果到達度の評価

評価指標	指標の到達度の自己評価	評価結果
NCC 設立までアプローチ、手続きなどが決定される。	Achieved	アプローチ、手続きについては、極めて多くの協議と関連資料の作成を行った。CEPA 側の判断が二転三転して不必要な作業が多く発生したものの、最終的には決定された。
NCC 設立手続きが支援される。	Achieved	CEPA-JICA プロジェクトチームは、2019年3月に NCC、NPART および RPART に関して、National Executive Council (NEC) へ承認を得るための文書一式を起草した。また NCC、NPART、RPART の委託条件などを起草し、2019年5月までに検討を終えた。
NCC 会合が実施される。	Achieved (delayed)	関連文書の起草、メンバーの指名などの制度的な手続きを正式に終えて、2020年2月に6人のメンバーで第一回会合が開催された。

(2) 目標到達度の評価

評価指標	指標の到達度	評価結果
NCC が 2017 年 12 月までに正式に設立され、運営計画に従って会議が定期的に関	Achieved (delayed)	本活動の前提であった他ドナーによる法令整備の遅延や、それに対する支援作業が新たに発生するなどしたため、作業は計画より遅れたものの、最終的には達成された。新たに設置された NPART は、2020年2月に第一回会合が開催された。

評価指標	指標の到達度	評価結果
催される。		

6. 教訓

- (1) 前提条件が満たされないプロジェクト活動は、速やかに代替案を探る必要がある。
- 本活動コンポーネントは、NCC 設立の根拠法や方法論が定まっていることを前提に計画されたが、プロジェクト開始後に定まっていないことが判明し、また関連する CEPA 側の組織的な意思決定も二転三転した。プロジェクトとしては、前提条件を整備するための活動を新たに追加し、そのために長い時間と多大な労力が費やされ、他のプロジェクト活動に対するモチベーションを低下させるなど悪影響を与えた。
- NCC のように、国家レベルの新たな組織を立ち上げるためには、法令を整備する政治的なイニシアチブと、関係者の専門性、また熱意が必要である。このような困難な作業の前提条件が満たされない場合は、速やかに代替案を協議し、正式に設定することが必要である。

7. 提言

- (1) NCC の設立と運営の継続
- プロジェクトが設立を支援した暫定 NPART は、統合保護区法案(Protected Area Bill)の成立を含めた前提条件が整った段階で、NCC として格上げされた形で発足させる計画を、関係者間で合意した。また NCC 設立に必要な定款などの文書はプロジェクトにより起案され、その手続きは明確にされた。プロジェクト終了後は、CEPA のイニシアチブで、NPART を運営するとともに、NPART を NCC へ格上げする作業を進めることが期待される。

8. 主要な成果品リスト:

- 1) NCC Bylaws Draft Ver. 03 12 2018(添付資料 1.1.1)
- 2) NPART Bylaws Draft Ver. 03 12 2018(添付資料 1.1.2)
- 3) RPART Bylaws Draft Ver. 05 12 2018(添付資料 1.1.3)
- 4) Options regarding the establishment of NCC, NPART and RPART Ver. 28 Jan 2019(添付資料 1.1.4)
- 5) Information Brief Establishment of the NPART endorsed by CEPA MD(添付資料 1.1.5)
- 6) ToRs Interim NPART submitted to the 1st NPART Meeting(添付資料 1.1.6)

以上

添付資料 1.1.1 NCC Bylaws



NATIONAL CONSERVATION COUNCIL

BYLAWS

**CONSERVATION AND ENVIRONMENT PROTECTION AUTHORITY
OF
THE INDEPENDENT STATE OF PAPUA NEW GUINEA**

30 NOVEMBER 2018

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PREAMBLE

These Bylaws shall complement, in part, the establishment of the National Conservation Council as declared under “Pillar One 1.3.3” of the Papua New Guinea Policy on Protected Areas 2014 (hereinafter referred to as “**PNG PPA**”). The development of these Bylaws is premised on the objective of “II Supporting Pillars” of the PNG PPA which calls for the establishment of legal and institutional frameworks necessary for effective management and governance of the PNG Protected Area Network.

SECTION 1 – NAME

1.1 The name of the Council shall be known as the National Conservation Council (hereinafter referred to as “**NCC**”).

SECTION 2 – OBJECTIVES

2.1 The objectives of these Bylaws are –

- a) To prescribe matters pertaining to the powers and functions of the NCC;
- b) To guide the Minister on appointment of the members of the NCC; and,
- c) To establish the overall *modus operandi* of the NCC.

SECTION 3 – MEMBERSHIP

3.1 The NCC shall consist of not less than five (5) members, who shall –

- (a) Have technical (on merit) or special knowledge in relation to matters likely to be before the NCC;
- (b) Be appointed at the discretion of the Minister;
- (c) The members may be appointed from any of the following organizations:
a senior manager in the Conservation and Environment Protection Authority (hereinafter referred to as “**CEPA**”) from the section responsible for protected areas, a senior manager of a State entity specialized in law or regulatory matters, a well-established academic from any of Papua New Guinea’s higher education institution with expertise in a discipline relevant to protected areas including natural, physical or biological sciences, representatives from national environmental non-governmental organizations, a senior manager from the National Museum and Art Gallery, a senior manager from the National Fisheries

Authority, a senior manager from the Climate Change and Development Authority, an environmental expert from the Papua New Guinea Chambers of Mines and Petroleum, a senior manager from the Tourism Promotion Authority, or a member from any other relevant government department or agency as declared under Part One 1.3.6 of the PNG PPA; and,
(d) Be represented adequately by female members.

SECTION 4 – OFFICERS AND APPOINTMENTS

4.1 The Minister shall appoint one member to be the Chairperson and another member to be the Deputy Chairperson.

4.2 In the event of the absence of the Chairperson, or his/her inability or unavailability to act, the Deputy Chairperson shall perform all the powers and functions of the Chairperson.

4.3 The Chairperson and Deputy Chairperson shall be appointed to the office for a period of 3 years and may be reappointed for a second term as determined by the Minister.

SECTION 5 – FUNCTIONS

5.1 The functions of the NCC shall be –

- (a) To furnish advice to the Minister on matters relating to protected areas, including action to conserve and improve existing protected areas;
- (b) To endorse the criteria for areas to be recommended as protected areas;
- (c) To consider and endorse any proposals for development affecting, or in the vicinity of, a protected area or proposed protected area;
- (d) To provide advice to the Minister on the formulation of rules applicable to protected areas, and on the administration and control of protected areas;
- (e) To provide advice to the Minister on the formulation of laws, regulations and other legal instruments related with protected areas;
- (f) To encourage public interest and knowledge of protected areas and conservation generally;
- (g) To review and endorse any new proposal for the establishment of protected areas before it is submitted to the National Executive Council (NEC) by the Minister;

- (h) To review and endorse the annual report of the Conservation and Environment Protection Authority (CEPA) on the implementation of protected areas policy, laws and regulations prior to forwarding to the Minister; and,
- (i) To advise the Minister on any matter referred to it by the Minister.

SECTION 6 – POWERS

6.1 The NCC may do all things that are necessary or convenient to be done for or in connection with performance of its functions, and, in particular, has the power to require details to be given to it of any development proposals in or in close proximity to a conservation area that, in its opinion, may injure or detrimentally affect a protected area.

6.2 In the exercise of its functions under Subsection (6.1) above, the NCC may, in respect of a development proposal, obtain a report from the protected areas management committee referred to under Pillar One of the PNG PPA 1.3.10 concerned in the area of that proposal.

SECTION 7 – MEETINGS

7.1 Meetings of the NCC shall be held at such time and place as the Chairperson determines (or consent of all members present in a meeting).

7.2 There shall be a regular meeting of the NCC once a year which may discuss matters relating to the Bylaws such as the annual report as stipulated under Section 11 of the Bylaws.

7.3 At a meeting of the NCC –

- (a) 50% or half of the number of members of the NCC is a quorum;
- (b) The Chairperson, or in his/her absence the Deputy Chairperson, shall preside;
- (c) All matters before the NCC shall be decided by the majority of votes of the members present and voting; and,
- (d) The member presiding has a deliberative and, in the event of an equality of votes on a matter, also a casting vote.

7.4 The NCC shall prepare minutes of its meetings to be recorded and deposited with the Secretariat.

7.5 The NCC shall determine further details regarding the procedures of the NCC meetings.

7.6 Emergency meetings may be called by the Chairperson with a 48-hour notice served to the members of the NCC.

SECTION 8 – SECRETARIAT

8.1 The CEPA shall act as Secretariat to the NCC.

8.2 The Secretariat shall perform all administrative tasks of the NCC including support to the Officers in performing their functions under these Bylaws.

8.3 The Secretariat shall be housed within CEPA offices.

8.4 CEPA shall assign to the Secretariat support staff to administer the day-to-day operations of the Secretariat.

8.5 The Secretariat shall keep records of proceedings/minutes of meetings, the Bylaws, and any other documentation related to the NCC and its work regarding protected areas.

SECTION 9 – VALIDITY OF PROCEEDINGS

9.1 No act or proceeding of the NCC, and no act done by any person acting as Chairperson or Deputy Chairperson shall be invalidated by reason of a vacancy or vacancies in the number of members of the NCC.

SECTION 10 – DISCLOSURE OF INTERESTS

10.1 Where a member has a direct or indirect financial interest otherwise than as a member of and in common with the other members of an incorporated company consisting of more than 25 persons and of which he/she is not a director, in a matter being considered or about to be considered by the NCC he/she shall, as soon as possible after the relevant facts have come to his/her knowledge, disclose the nature of his/her interest at a meeting of the NCC.

10.2 In Subsection (9.1) above, “indirect financial interest” includes an interest of a member’s spouse or child.

10.3 Where a member is a member of an organization that has a direct or indirect financial or other special interest in a matter being considered or about to be considered by the NCC, he/she shall, as soon as possible after the relevant facts have come to his/her knowledge, disclose his/her membership of that organization and the nature of that interest at a meeting of the NCC.

10.4 A disclosure under this section shall be recorded in the minutes of the NCC.

10.5 The NCC may, on being informed of the interest of a member in a matter being considered or about to be considered by it, by resolution in which that member shall not vote, resolve that that member take no further part in the proceedings of the NCC in respect of that matter.

SECTION 11 – ANNUAL REPORTS

11.1 The NCC shall as soon as practicable after the end of each year, furnish to the Minister a report, both narrative and financial, on the operations of the NCC during that year.

SECTION 12 – TERM OF OFFICE

12.1 The NCC members shall be appointed to a term of three (3) years and may be reappointed for a second term.

SECTION 13 – FEES AND ALLOWANCES

13. 1 Members of the NCC who are not employees of any government entity shall be paid fees and allowances in accordance with the *Boards (Fees and Allowances) Act* (Chapter 299).

SECTION 14 – DISSOLUTION AND REPLACEMENTS

14.1 The Minister may dismiss any member of the NCC whom the Minister considers unfit for whatsoever reason which prevents the member from performing its functions

and duties effectively and efficiently including illness, non-performance, unethical conduct, non-attendance for two (2) consecutive meetings and an act that contravenes any provision of the By-laws.

14.2 The Minister shall notify the member, in writing, regarding the reason(s) and the decision for dismissal.

14.3 The Minister may appoint a new member to the NCC following the dismissal notification.

14.4 The Minister may replace a member in the event of the death of an existing member.

14.5 A member may vacate the office at his/her own will for whatsoever reason that may impede him/her from performing his/her functions under these Bylaws or from complying with any provisions of the Bylaws by notifying the Minister, in writing.

SECTION 15 – AMENDMENTS

15.1 Any change to the Bylaws may be proposed by any member of the NCC, in writing, to the Chairperson describing the proposed change or changes and justifications for the NCC to deliberate at the next NCC meeting.

15.2 The proposed change to the Bylaws shall be agreed by two thirds of the members of the NCC.

15.2 Amendments shall form a part of these Bylaws and must be appended to the Bylaws and deposited with the Secretariat.

添付資料 1.1.2 NPART Bylaws



NATIONAL PROTECTED AREAS ROUNDTABLE

BYLAWS

CONSERVATION AND ENVIRONMENT PROTECTION AUTHORITY
OF
THE INDEPENDENT STATE OF PAPUA NEW GUINEA

28 NOVEMBER 2018

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DRAFT

PREAMBLE

These Bylaws regard matters pertinent to the National Protected Areas Roundtable as declared under Pillar One 1.3.5 of the Papua New Guinea Policy on Protected Areas 2014 (**hereinafter referred to as “PNG PPA”**). The development of these Bylaws is premised on **the objective of “II Supporting Pillars”** of the PNG PPA which calls for the establishment of legal and institutional frameworks necessary for effective management and governance of the PNG Protected Area Network.

These Bylaws relate to the establishment of the National Protected Areas, in particular, National Parks, Marine Sanctuaries, National Heritage Areas and Special Management Areas or their review and management.

SECTION 1 – NAME

1.1 The name of the “Roundtable” as stipulated under the PNG PPA is the National Protected Area Roundtable, (hereinafter referred to as the “NPART”).

SECTION 2 – OBJECTIVES

2.1 The objectives of these Bylaws are –

- (a) To support the establishment of the NPART;
- (b) To prescribe and elaborate the powers and functions of the NPART;
- (c) To guide the work of the NPART in executing its functions under Section 3;
- (d) To guide the Conservation and Environment Protection Authority (**hereinafter referred to as “CEPA”**) of its role; and,
- (e) To establish the *modus operandi* of the NPART.

SECTION 3 – FUNCTIONS

3.1 The functions of the NPART shall be –

- (a) To evaluate proposals for the establishment of National Protected Areas, namely, National Parks, National Heritage Areas, Special Management Areas, and National Marine Sanctuary;
- (b) To provide technical advice to the National Conservation Council (**hereinafter referred to as “NCC”**) on a range of matters regarding protected areas especially social, economic and ecological values and the local, national or global significance of the proposed area that is necessary for the establishment of the protected area; and,
- (c) To make recommendations to the NCC for consideration and endorsement of National Protected Areas based on the assessment of the proposals.

SECTION 4 – MEMBERSHIP

4.1. The NPART shall comprise of at least five (5) members.

4.2 The composition of the NPART membership shall be –

- (a) Senior personnel from CEPA working on protected areas;
- (b) Representatives from conservation NGOs;
- (c) Representatives of higher education institutions in Papua New Guinea with a strong background in ecological, cultural and social aspects of protected areas.

4.3 Adequate consideration must be given to female members for representation.

SECTION 5 – APPOINTMENTS

5.1 CEPA shall announce the call for expression of interest publicly and widely through the numerous medium of communication, especially the national newspapers, **TV, radios and CEPA's Website to attract** suitable candidates.

5.2 Members other than personnel from CEPA shall submit an expression of interest letter to the Managing Director of CEPA who shall consider, and officially accept the membership through a letter of notification.

SECTION 6 – OFFICERS

6.1 The NPART shall consist of a Chairperson, a Vice-Chairperson and a Secretary.

(a) The Chairperson shall be the Deputy Managing Director of CEPA as directed under the PNG PPA Pillar One 1.3.5.

(b) The Vice-Chairperson and Secretary shall be voted from among the ordinary members of the NPART.

(c) The Chairperson: a voting member who shall prepare the agenda and preside over all NPART meetings and shall perform such other duties as the NPART shall direct. The Chairperson may assign duties to the Vice-Chairperson and other members of the NPART from time to time or during the absence of the Chairperson.

(d) The Vice-Chairperson: a voting member who shall preside the meetings in the absence of the Chairperson and shall perform such other duties as the NPART shall direct.

(e) The Secretary shall: record minutes of all NPART meetings; keep a permanent file of all NPART records; keep an up-to-date roll of members; maintain a record of member attendance to NPART meetings; issue notices of all NPART meetings; and, perform such other duties as the NPART shall direct. The copies of all documents must be deposited in the NPART binder at its respective office.

6.2 The term of office for the Officers with the exception of members who are CEPA employees shall be limited to a three-year term with the possibility of renewal for a second term.

6.3 Written notice of all elections shall be deposited with the NPART Secretariat and the NPART Secretariat shall be notified 14-days days prior to the election.

(a) Elections shall be conducted by the Secretariat once each three-calendar year through secret ballot.

(b) The Officers other than CEPA personnel shall be elected by majority of the votes cast. Ballots shall be counted, and results shall be announced at the next NPART meeting.

(c) All NPART members must be present during the designated day and time of the election. All ballots shall be placed in an envelope and presented to the NPART Secretariat to be filed.

SECTION 7 – SECRETARIAT

7.1 CEPA shall perform the functions of the Secretariat of NPART.

7.2 The Secretariat shall perform all administrative tasks of the NPART including support to the Officers in performing their functions under these Bylaws.

7.3 The Secretariat shall administer the affairs of the NPART at all times.

7.4 The Secretariat shall be housed within CEPA offices.

7.5 CEPA shall draft the Terms of References for the NPART and table it at the first meeting of the NPART for discussion and approval.

7.6 CEPA shall assign to the Secretariat support staff to administer the day-to-day operations of the Secretariat.

7.7 The Secretariat shall keep records of proceedings/minutes of meetings, the Bylaws, and any other documentation related to the NPART and its work regarding protected areas.

SECTION 8 – MEETINGS

8.1 The NPART shall meet four (4) times a year as expressed under Pillar One 1.3.5 of the PNG PPA.

8.2 **The rules governing all meetings shall be the Robert's Rules of Order, except** insofar as such rules are inconsistent with these Bylaws.

8.3 A quorum for the transaction of business at a NPART meeting shall consist of 50% of the members.

8.4 Any appointed member of the NPART is eligible to vote.

(a) It is expected that NPART members will excuse themselves from voting on issues where there is a conflict of interest such as where an issue would affect their personal or organizational interest.

(b) There shall be no voting by proxy or absentee ballot.

8.5 Appropriate notice must be posted with the NPART Secretariat at least 14 days prior to the meeting date.

8.6 In the event of cancellations of NPART meetings, due to emergencies or unavoidable circumstances, the Secretariat must inform the members of such cancellations immediately.

8.7 The Chairperson may call emergency or special meetings requires. Such meetings require a 48-hour notice.

SECTION 9 – FEES AND ALLOWANCES

9.1 Members of the NPART who are not employees of any government entity shall be paid fees and allowances in accordance with the *Boards (Fees and Allowances) Act* (Chapter 299).

SECTION 10 – DISSOLUTION AND REPLACEMENTS

10.1 The Chairperson may dismiss any member of the NPART whom the Chairperson considers unfit for whatsoever reason which prevents the member from performing its functions and duties effectively and efficiently including illness, non-performance, unethical conduct, non-attendance for three (3) consecutive meetings and an act that contravenes any provision of the Bylaws.

10.2 The Chairperson shall notify the member, in writing, regarding the decision for dismissal and the reason(s).

10.3 The Chairperson may appoint a new member to the NPART following the dismissal notification and in accordance with Section 5 of these Bylaws.

10.4 The Chairperson may replace a member in the event of a death of an existing member.

SECTION 11 – DISCLOSURE OF INTEREST

11.1 Where a member has a direct or indirect financial interest otherwise than as a member of and in common with the other members of an incorporated company consisting of more than 25 persons and of which he/she is not a director, in a matter being considered or about to be considered by the NPART he/she shall, as soon as possible after the relevant facts have come to his/her knowledge, disclose the nature of his/her interest at a meeting of the NPART.

11.2 In Subsection (11.1) above, **“indirect financial interest” includes an interest of a member’s spouse or child.**

11.3 Where a member is a member of an organization that has a direct or indirect financial or other special interest in a matter being considered or about to be considered by the NPART, he/she shall, as soon as possible after the relevant facts have come to his/her knowledge, disclose his/her membership of that organization and the nature of that interest at a meeting of the NPART.

11.4 A disclosure under this section shall be recorded in the minutes of the NPART.

11.5 The NPART may, on being informed of the interest of a member in a matter being considered or about to be considered by it, by resolution in which that member shall not vote, resolve that that member take no further part in the proceedings of the NPART in respect of that matter.

SECTION 12 – AMENDMENTS

12.1. These Bylaws may be amended through a written request submitted by any member to the Secretariat through the NPART Chairperson.

12.2 Any such request shall be deliberated and voted upon at the next scheduled meeting of the NPART.

12.3 Amendments become effective by a favourable 2/3 vote of the NPART members, and shall be appended to these Bylaws. A copy of all amendments shall be provided to Secretariat.

添付資料 1.1.3 RPART Bylaws



REGIONAL PROTECTED AREAS ROUNDTABLE

BYLAWS

CONSERVATION AND ENVIRONMENT PROTECTION AUTHORITY
OF
THE INDEPENDENT STATE OF PAPUA NEW GUINEA

05 DECEMBER 2018

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DRAFT

PREAMBLE

These Bylaws regard matters pertinent to the Regional Protected Areas Roundtable as declared under Pillar One 1.3.8 of the Papua New Guinea Policy on Protected Areas 2014 (**hereinafter referred to as “PNG PPA”**). The development of these Bylaws is premised on the objectives of **“Pillar One” of the PNG PPA and “II Supporting Pillars”** of the PNG PPA, which declare the need to establish legal and institutional frameworks necessary for the effective management and governance of the PNG Protected Area Network.

These Bylaws relate to the establishment of the Regional Protected Areas, in particular, Community Conservation Areas, Locally Managed Marine Areas, and Private Sector Protected Areas, or their review and management.

The establishment of regional protected areas shall mean the establishment of protected areas in accordance with ecosystem approach undertaken at appropriate spatial and temporal scales rather than political boundaries.

SECTION 1 – NAME

1.1 The name of the **“Roundtable”** as stipulated under the PNG PPA is the Regional Protected Area Roundtable, (**hereinafter referred to as the “RPART”**).

SECTION 2 – OBJECTIVES

2.1 The objectives of these Bylaws are –

- (a) To support the establishment of the RPART;
- (b) To prescribe and elaborate the powers and functions of the RPART;
- (c) To guide the work of the RPART in executing its functions under Section 3;
- (d) To guide the Provincial Government of its role; and,
- (e) To establish the *modus operandi* of the RPART.

SECTION 3 – FUNCTIONS

3.1 The functions of the RPART shall be –

- (a) To evaluate proposals for the establishment of Community Conservation Areas, Locally Managed Marine Areas, and Private Sector Protected Areas;
- (b) To provide technical advice to the Provincial Executive Council (**hereinafter referred to as “PEC”**) on a range of matters regarding protected areas especially social, economic and ecological values and the local or regional significance of the proposed area for the establishment of the protected area; and,
- (c) To make recommendations to the PEC for consideration and declaration of Regional Protected Areas based on the assessment of the proposals received from the Working Group.

SECTION 4 – MEMBERSHIP

4.1. The RPART shall comprise of at least five (5) members.

4.2 The composition of the RPART membership shall be –

- (a) Senior provincial government officials responsible for protected areas;
- (b) Representatives from conservation NGOs working in the region;
- (c) Representatives of higher education institutions in Papua New Guinea with the knowledge and strong background in ecological, cultural and social aspects of protected areas; and,
- (d) CEPA officials.

4.3 Adequate consideration must be given to female members for representation.

SECTION 5 – APPOINTMENTS

5.1 CEPA and the Provincial Governments shall announce jointly the call for expression of interest publicly and widely through the numerous medium of **communication, especially the national newspapers, TV, radios and CEPA's Website** to attract suitable candidates.

5.2 Members other than personnel from CEPA and the Provincial Governments shall submit an expression of interest letter to the Managing Director of CEPA who shall consider, and officially accept the membership through a letter of notification.

SECTION 6 – OFFICERS

6.1 The RPART shall consist of a Chairperson, a Vice-Chairperson and a Secretary.

(a) The Chairperson shall be a Government official as directed under the PNG PPA Pillar One 1.3.8.

(b) The Vice-Chairperson and Secretary shall be voted from among the ordinary members of the RPART.

(c) The Chairperson: a voting member who shall prepare the agenda and preside over all RPART meetings and shall perform such other duties as the RPART shall direct. The Chairperson may assign duties to the Vice-Chairperson and other members of the RPART from time to time or during the absence of the Chairperson.

(d) The Vice-Chairperson: a voting member who shall preside the meetings in the absence of the Chairperson and shall perform such other duties as the RPART shall direct.

(e) The Secretary shall: record minutes of all RPART meetings; keep a permanent file of all RPART records; keep an up-to-date roll of members; maintain a record of member attendance to RPART meetings; issue notices of all RPART meetings; and, perform such other duties as the RPART shall direct. The copies of all documents must be deposited in the RPART binder at its respective office in the Secretariat.

6.2 The term of office for the Officers with the exception of members who are CEPA and Provincial Government employees shall be limited to a three-year term with the possibility of renewal for a second term.

SECTION 7 – SECRETARIAT

7.1 CEPA shall perform the functions of the Secretariat of RPART.

7.2 The Secretariat shall perform all administrative tasks of the RPART including support to the Officers in performing their functions under these Bylaws.

7.3 The Secretariat shall be housed within CEPA offices.

7.4 CEPA may draft the Terms of References for the RPART and table it at the first meeting of the RPART for discussion and approval.

7.5 CEPA shall assign to the Secretariat support staff to administer the day-to-day operations of the Secretariat.

7.6 The Secretariat shall keep records of proceedings/minutes of meetings, the Bylaws, and any other documentation related to the RPART and its work regarding protected areas.

7.7 The Secretariat shall keep all written notices of all elections and notified RPART members 14-days days prior to the election.

(a) Elections shall be conducted by the Secretariat once each three-calendar year through secret ballot.

(b) The Officers shall be elected by majority of the votes cast. Ballots shall be counted, and results shall be announced at the next RPART meeting.

(c) All RPART members must be present during the designated day and time of the election. All ballots shall be placed in an envelope and presented to the RPART Secretariat to be filed.

SECTION 8 – MEETINGS

8.1 The RPART shall meet on a need basis.

8.2 The rules **governing all meetings shall be the Robert's Rules of Order, except** insofar as such rules are inconsistent with these Bylaws.

8.3 A quorum for the transaction of business at a RPART meeting shall consist of 50% of the members.

8.4 Any appointed member of the RPART is eligible to vote.

(a) The RPART members may abstain from voting on issues where there is a conflict of interest such as where an issue would affect their personal or organizational interest.

(b) There shall be no voting by proxy or absentee ballot.

8.5 Appropriate notice must be posted with the RPART Secretariat at least 14 days prior to the meeting date.

8.6 In the event of cancellations of RPART meetings, due to emergencies or unavoidable circumstances, the Secretariat must inform the members of such cancellations immediately.

8.7 The Chairperson may call emergency or special meetings requires. Such meetings require a 48-hour notice.

SECTION 9 – FEES AND ALLOWANCES

9.1 Members of the RPART who are not employees of any government entity shall be paid fees and allowances in accordance with the *Boards (Fees and Allowances) Act* (Chapter 299).

SECTION 10 – DISSOLUTION AND REPLACEMENTS

10.1 The Chairperson may dismiss any member of the RPART whom the Chairperson considers unfit for whatsoever reason which prevents the member from performing its functions and duties effectively and efficiently including illness, non-performance, unethical conduct, non-attendance for three (3) consecutive meetings and an act that contravenes any provision of the Bylaws.

10.2 The Chairperson shall notify the member, in writing, regarding the decision for dismissal and the reason(s).

10.3 The Chairperson may appoint a new member to the RPART following the dismissal notification and in accordance with Section 5 of these Bylaws.

10.4 The Chairperson may replace a member in the event of the death of an existing member.

SECTION 11 – DISCLOSURE OF INTEREST

11.1 Where a member has a direct or indirect financial interest otherwise than as a member of and in common with the other members of an incorporated company consisting of more than 25 persons and of which he/she is not a director, in a matter being considered or about to be considered by the RPART he/she shall, as soon as possible after the relevant facts have come to his/her knowledge, disclose the nature of his/her interest at a meeting of the RPART.

11.2 In Subsection (11.1) above, **“indirect financial interest” includes an interest of a member’s spouse or child.**

11.3 Where a member is a member of an organization that has a direct or indirect financial or other special interest in a matter being considered or about to be considered by the RPART, he/she shall, as soon as possible after the relevant facts have come to his/her knowledge, disclose his/her membership of that organization and the nature of that interest at a meeting of the RPART.

11.4 A disclosure under this section shall be recorded in the minutes of the RPART.

11.5 The RPART may, on being informed of the interest of a member in a matter being considered or about to be considered by it, by resolution in which that member shall not vote, resolve that that member take no further part in the proceedings of the RPART in respect of that matter.

SECTION 12 – AMENDMENTS

12.1. These Bylaws may be amended through a written request submitted by any member to the Secretariat through the RPART Chairperson.

12.2 Any such request shall be deliberated and voted upon at the next scheduled meeting of the RPART. Amendments become effective by a favourable 2/3 vote of the RPART members, and shall be attached to the By-laws. A copy of all amendments shall be provided to Secretariat.

添付資料 1.1.4 Options regarding the establishment of NCC, NPART and RPART

Options regarding the establishment of National Conservation Council, National Protected Areas Roundtable and Regional Protected Areas Roundtable (Ver. 28 Jan 2019)

Background

The National Conservation Council (NCC), the National Protected Areas Roundtable (NPART) and the Regional Protected Areas Roundtable (RPART) under the Papua New Guinea Policy on Protected Areas are among some of the critical bodies necessary for the establishment of national and regional protected areas. These bodies have some of the primary tasks of considering, assessing and recommending proposals for the establishment of the numerous types of protected areas in Papua New Guinea (PNG). However, there is no NCC, NPART or RPART to date. The non-existence of these numerous important bodies makes it challenging to establish protected areas in the country.

Numerous references are being made of the NCC, NPART and RPART under current law and policy as well as the proposed legislation on protected areas. The specific references include the Conservation Areas Act 1978, the Conservation and Environment Protection Authority Act 2014, the newly adopted PNG Policy on Protected Areas (PNG PPA) 2014, and the draft Protected Areas Bill 2016 and the draft Protected Areas Regulations 2018.

An additional layer of challenge is the uncertainty surrounding the passing of the Protected Areas Bill and the adoption of the Regulations. Given such a situation it is a matter of urgency to consider options to establish the numerous bodies on an interim basis to facilitate current and immediate proposals and applications for protected areas until such time when the Protected Areas Bill is passed and Regulations adopted.

Therefore, this brief paper discusses the existing laws and policies regarding the NCC, NPART and RPART and proposes some options for consideration by CEPA that might help toward the establishment of the Interim NCC, NPART and RPART.

1. Existing Laws and Policies on National Conservation Council

a) Conservation Areas Act 1978

The Conservation Areas Act 1978 is the primary legislation that establishes the NCC and defines its rights and obligations. Part II of the Conservation Areas Act 1978 institutes the NCC, defines the functions and powers, provides for the composition of the members, and specifies other relevant matters regarding the NCC. The Act further stipulates that the Minister is responsible for appointing a number, not less than 5 persons, to the NCC, which should comprise of a Chairperson and a Deputy Chairperson and the members. The

exact number is not determined under the Act, but it could be 5 or any other number. It is recommended that an odd number would be useful in determining decisions to be taken.

However, the scope of work of the NCC under the Conservation Areas Act is limited to conservation areas, and does not cover other types of protected areas. As such the application of Conservation Areas Act may not be adequate to cover broader areas.

b) Conservation and Environment Protection Authority Act 2014

The second legislation that makes reference to the NCC is the CEPA Act 2014. This Act establishes CEPA. Furthermore, the CEPA Act lays out the roles, responsibilities and powers of the new organization, including those of the Minister, its employees, and the council and committee it establishes under the Act. The legislation also makes references to a set of environmental conservation laws and their relevance to the CEPA Act. The set of environmental conservation laws comprises of a number of specific laws relevant to conservation and they include Conservation Areas Act, Crocodile Trade (Protection) Act, Environment Act, Fauna (Protection and Control) Act, and the International Trade (Flora and Fauna) Act. Given the mutually supportive circumstance of the CEPA Act and the set of environmental conservation laws, they should be read together when applying these laws.

It is in this regard that the CEPA Act 2014 makes specific reference to the NCC established under the Conservation Areas Act when it speaks of the Minister's functions under Article 5 of the Act. The NCC is given prominence under the CEPA Act as it recognizes the significant role the NCC can deliver as an advisory body in providing advice to the Minister. When the Minister acts in delivering its principal functions of advising the National Executive Council (NEC) on matters related to environmental conservation laws, policies and strategies at the national level, the advice of the NCC in conjunction with that of the Authority and the Environment Council becomes relevant. The mention of the NCC under the CEPA Act demonstrates further the importance of the body and functions it is to perform.

However and again the NCC referred to is under the Conservation Areas Act and as was described above, the application of the Conservation Areas Act is narrow in scope and only covers conservation areas.

c) Papua New Guinea Policy on Protected Areas 2014

The Papua New Guinea (PNG) Policy on Protected Areas (PPA) is the formal document developed and endorsed by the PNG Government in 2014. The PNG PPA covers matters relating to the NCC, NPART and RPART. The PNG PPA has been established to support the development and management of a National Protected Area Network with the intention of guiding communities, organizations and agencies so that they can engage strategically in sustaining existing protected areas as well as contribute logically and constructively to the development of new protected areas in the country.

In order to strengthen institutional arrangements regarding Protected Areas Network in PNG the PPA calls for a number of steps to be taken in its proposal on developing either a new separate legislation on protected areas or amending existing legislation to accommodate these measures including the establishment of the NCC, NPART and RPART.

As the official document in the country mentioning the NCC, NPART and RPART, the PNG PPA awaits implementation, especially the establishment of these various important bodies.

2. Draft Protected Areas Bill 2016 & Regulations 2018

Following on from the recommendation by the PNG PPA for the consolidation of existing environmental conservation laws by way of amendments or either enactment of a new stand-alone legislation to regulate the development and management of protected areas in the country, PNG pursued the latter option by embarking on the development of a stand-alone Protected Areas Bill in 2016.

The draft Protected Areas Bill under Part II calls for the establishment of the NCC (Section 18) and provides for the establishment of an interim NCC until such time when the Regulations have been adopted to determine the composition of the membership, the responsibilities, functions and the modus operandi of the NCC. The Protected Areas Regulation 2018 further sets out the responsibilities of the NCC in the draft Regulations 2018.

In addition, the draft Protected Areas Bill and the Protected Areas Regulations cover the NPART and RPART as significant bodies to be established to pave way for the screening of applications and the recommendation of the proposals for approval.

However, the PA Bill and the draft Regulations are not formal documents, and as such they cannot be referenced.

3. Options for Consideration

Given the situation that both the Conservation Areas Act and the CEPA Act are narrow and inadequate, it becomes natural to explore options outside the two laws to establish the NCC as well as the NPART and RPART. Furthermore, the Protected Areas Bill is faced with uncertainties as to when it will be passed into law and Regulations adopted. The only official document which mentions the NCC, NPART and RPART is the PNG PPA, and it is appropriate to implement the content of this document, especially in establishing the NCC, NPART and RPART.

In giving effect to the PNG PPA, a number of options are available for consideration by CEPA toward the establishment of the NCC, NPART and RPART. These options include

the consideration of (1) expanding the functions of the National Coordination Committee under the Coral Triangle Initiative (CTI), (2) making a new submission to the NEC by CEPA for the establishment of Bootless Bay as a National Protected Area, the NCC, NPART and RPART, and (3) the establishment of these bodies by CEPA and the Managing Director of CEPA through the powers and functions bestowed upon them under the CEPA Act 2014.

a) Expanding the Functions of National Coordination Committee under the CTI

The first option is to consider reviewing and expanding the functions of the National Coordination Committee under the Coral Triangle Initiative (CTI) so as to allow for it to perform also the functions of the NCC.

The Coral Triangle Initiative – National Coordination Committee was established under the National Executive Council Decision No. 62/2009. The National Coordination Committee was established to manage PNG's International Engagement for the CTI – CFF, coordinate and promote the implementation of the PNG Marine Programme on Coral Reefs, Fisheries and Food Security. Furthermore, it has been established as a consultative or advisory authority regarding CTI PNG.

The composition of the members of the National Coordination Committee under the CTI is well represented from numerous line agencies and stakeholders. In this regard, the composition of the members is ideal for the NCC if this option were to be considered.

The functions of the National Coordination Committee under the CTI are multiple and more extensive compared with the functions of the NCC found under the Conservation Areas Act and the draft Protected Areas Regulations. However, the functions of the National Coordination Committee are more specific to matters related with marine, fisheries and food security. This may require a review of the functions of the National Coordination Committee to include more functions regarding protected areas generally. The functions of the National Coordination Committee further include matters such as resource mobilization and providing technical support which might not be functions attractive to the members of the NCC for protected areas.

An additional issue when considering this option will be the establishment of a new process for submission to the NEC for consideration of the expansion of the roles and responsibilities of the National Coordination Committee.

b) National Executive Council Submission

A second option is to consider a whole new submission to the NEC to specifically establish the Bootless Bay as a National Protected Area and to establish the NCC, NPART and RPART. The Prime Minister had made reference to the Bootless Bay during the World

Oceans Conference in New York, and as such the NEC submission and endorsement would be seen as executing the commitment made by the Prime Minister.

The Minister under the CEPA Act 2014 (Section 5) has the functions and role to advise and make new submissions regarding environment conservation law, policy and strategies based on advice and recommendations from CEPA to NEC for their discussion and endorsement. CEPA has the opportunity to explore and initiate a process to seek endorsement by the NEC for the declaration of the Bootless Bay as a National Protected Area and the establishment of the NCC, NPART and RPART on an interim basis all under one submission.

The establishment of the interim NCC, NPART and RPART will serve the immediate need of establishing regional protected areas or other national protected areas so as not to hinder progress toward their assessment and declaration.

c) The Functions and Powers of the Authority and the Managing Director under CEPA Act 2014

The third, option is to consider the existing legislation to see if there are possibilities to establish the Interim NCC, NPART and RPART. In fact, the Authority under Section 6 (b) of the CEPA Act may take actions to establish the Interim NCC, NPART and RPART as they are matters specified in the PNG PPA. This provision also makes reference to Section 5 (d) which concerns priority setting by CEPA. If CEPA considers the establishment of the Interim NCC, NPART and RPART as its annual priority, which it should be, it can pursue this direction.

Furthermore, the functions of CEPA under Section 8 (a) is also most relevant. Section 8 (a) stipulates that as one of the functions of the Authority it is to do all things necessary for the conservation and protection of environment in accordance with environmental conservation laws and any policy directions. The establishment of the Interim NCC, NPART and RPART are matters that will indirectly contribute to environmental conservation and as such they should be put in place.

A significant provision relevant for the establishment of the Interim NCC, NPART and RPART is the function of the Managing Director under Section 23 (1) (d) where it states that it is responsible to the Minister for efficient implementation in accordance with the environmental conservation laws, or the policy of the government in relation to environment and conservation matters and of any policy direction given to the Authority under Section 6. The Interim NCC, NPART and RPART are matters expressed under the PNG PPA and therefore matters of policy. The Managing Director would be seen as implementing policy when it takes the decision to establish the various bodies stated under the PNG PPA.

These provisions are related and must be read together.

4. Recommendation by JICA Technical Team

After considering the 3 options and having discussed them with CEPA colleagues the JICA team considered option 3 to be the best and easiest to pursue. It will be easier for the Authority and the Managing Director to initiate a process to establish the Interim NCC, NPART and RPART until such time when the PA Bill is passed and Regulations adopted. JICA can invest toward this option by providing technical and financial support.

In the event, option 3 may not be considered, option 2 (a new NEC submission) has been considered the next best option. This option will be a package of the declaration of the Bootless Bay as a National Protected Area and the establishment of the Interim NCC, NPART and RPART.

Option (1) has been considered as more specific to marine and does not encompass terrestrial areas. This would require a review process to accommodate terrestrial matters. Furthermore, some of the functions of the National Coordination Committee are perhaps beyond those of the NCC such as resources mobilization.

A pros and cons table is provided below also regarding the three options for consideration.

Table of Pros and Cons

Options	Pros	Cons
1. National Coordination Committee - CTI	<ul style="list-style-type: none"> • Established by NEC decision (Decision No 62/2009) • Composition of membership is ideal (representation of key line agencies & stakeholders) • Extensive functions 	<ul style="list-style-type: none"> • Specific to marine and fisheries and excludes terrestrial ecosystems and services • Certain functions are irrelevant (e.g. resource mobilization). • New submission to NEC may be time-consuming.
2. National Executive Council Submission	<ul style="list-style-type: none"> • Will give CEPA clear directions for the establishment of NCC, NPART & RPART. • Specific and straightforward/clear. • Announcement by Prime Minister regarding Bootless Bay as National Protected Area. 	<ul style="list-style-type: none"> • New submissions • Political unwillingness and may be time-consuming.
3. CEPA – Powers of the Authority & Managing Director	<ul style="list-style-type: none"> • Easy to proceed within CEPA. • Policy backing (PNG PPA) • CEPA Act supports Authority and MD to take action. • JICA support (technical and financial available to undertake such tasks) 	<ul style="list-style-type: none"> • Interim

**添付資料 1.1.5 Information Brief Establishment of the
NPART endorsed by CEPA MD**



**CONSERVATION AND ENVIRONMENT PROTECTION AUTHORITY
SUSTAINABLE ENVIRONMENT PROGRAMS**

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INFORMATION BRIEF

15th October 2019

GUNTHER JOKU
Managing Director,

**Subject: ESTABLISHMENT OF THE NATIONAL PROTECTED AREAS
ROUND TABLE**

1. PURPOSE

This brief is intended to:

- i. Inform you that the establishment of the National Protected Areas Round Table (NPART) under the PNG Policy on Protected Areas, 2014 is a function of the Managing Director,
- ii. Seek endorsement for the Sustainable Environment Programs Wing in collaboration with the CEPA-JICA Varirata Biodiversity Project Team to assist you in establishing the NPART in accordance with the PNG Policy on Protected Areas, 2014, and
- iii. Provide a background on the process leading to the establishment of NPART, and its roles and responsibilities in assisting informed decisions on protected areas in the country.

2. BACKGROUND

The NPART is an important body referenced in the PNG Policy on Protected Areas (PNG PPA), 2014 that must be established to perform important functions for the establishment of National Protected Areas in the country. The specific functions of the NPART are;

1. To receive proposals from the working group for evaluation and establishment of National Protected Areas, namely, National Parks, National Heritage Areas, Special Management Areas, and National Marine Sanctuary,
2. Provide technical advice to the National Conservation Council on a range of matters regarding proposal for protected areas especially social, economic and ecological values and the local, national or global significance of the proposed area that is necessary for the establishment of the protected area and,
3. Make recommendations to the National Conservation Council for consideration and endorsement of National Protected Areas based on the assessment of the proposals.

However, this important body has been non-existent since the adoption of the PNG Policy on Protected Areas, 2014. In its absence the most needed expert assessment and advice to the National Conservation Council on protected areas may not be readily available. Also, meeting the government's targets may not be realized when the establishment of protected areas are faced with the non-existence of significant bodies such as the NPART. Therefore, the establishment of the NPART and its existence will create an enabling environment that will make it easier for some of the outstanding tasks to be achieved.

3. CEPA-JICA VNP Biodiversity Project

The joint implementation of the project on Biodiversity Conservation at Varirata national Park by CEPA and JICA is in furtherance of the PNG PPA. One of the outputs of the project focuses on management and governance issues, which includes the establishment of bodies such as the NPART and also the National Conservation Council.

The JICA Team undertook a review and analysis on the policy and legal aspects of establishing the NPART, and held numerous exchanges with the CEPA Team on the matter. A consensus was reached between the CEPA and JICA Teams that in the absence of a Protected Areas law and the regulations, CEPA will proceed with the establishment of the NPART as an administrative matter.

The CEPA-JICA team has developed a draft Terms of Reference (ToR) for the NPART which has been reviewed by the CEPA – JICA team and will be tabled during the first meeting of the NPART for further review and endorsement. The team is now ready to help with the paper work to help CEPA Managing Director in establishing the NPART.

4. Process for Establishment of the NPART

On the interim, there will be six (6) members to the NPART not including the Director for SEP who by the policy is the chair to the NPART. There will be 2 officials from CEPA, one in Terrestrial and one in Marine, 3 Conservation NGOs and 1 expert with strong ecological background.

The following steps will be taken from now until December 2019 to establish the NPART:

- i. Nominate two (2) officers within CEPA to be part of the NPART,
- ii. Call for Expression of Interest (one (1) week) for interested Conservation NGOs (limited to 3) and one expert with strong ecological and protected areas background using competent media or other public announcement channels,
- iii. Receive EOI, screen and shortlist potential applicants for the NPART membership for your endorsement, and
- iv. Letter of offer will be released to the 4 successful candidates.

5. Recommendations

We therefore seek your endorsement to the following recommendations;

- i. The first meeting of the NPART will be convened in December 2019 (date to be decided).
- ii. The Members of NPART will be inducted on the PNG Policy on Protected Areas and their roles and responsibilities prior to this meeting,
- iii. The first meeting will endorse the Terms of Reference.

Endorsement by the Managing Director: 



Kay Kalim
Director

**添付資料 1.1.6 ToRs Interim NPART submitted to the
1st NPART Meeting**



INTERIM NATIONAL PROTECTED AREAS ROUNDTABLE

TERMS OF REFERENCE

CONSERVATION AND ENVIRONMENT PROTECTION
AUTHORITY

2 APRIL 2019

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INTRODUCTION

These Terms of Reference (ToRs) have been developed to guide the work and operations of the Interim National Protected Areas Roundtable (INPART), which has been endorsed by the National Executive Council (NEC) under NEC Decision No: The National Protected Areas Roundtable further is referenced under Pillar One 1.3.5 of the Papua New Guinea Policy on Protected Areas (“PNG PPA”) of 2014. This body will receive and evaluate proposals especially those that are being proposed to be designated as National Protected Areas, and provide technical advice to the Interim National Conservation Council (INCC) endorsed by NEC Decision No..... for its review and onward submission to the NEC for declaration.

The National Protected Areas include National Parks, National Marine Sanctuaries, National Heritage Areas and Special Management Areas.

These ToRs are valid until the Protected Areas Bill is enacted and the Protected Areas Regulations are adopted. The ToRs will become invalid after the Protected Areas Regulations are adopted. The Protected Areas Regulations will then apply.

SECTION 1 – NAME

1.1 The name of the body will be known as the Interim National Protected Areas Roundtable (INPART).

SECTION 2 – OBJECTIVES

2.1 The objectives of these ToRs are to:

- (a) Prescribe and elaborate the powers and functions of the INPART;
- (b) Guide the work of the members of the INPART in executing their functions
- (c) Guide the Conservation and Environment Protection Authority (CEPA) of its roles and responsibilities;
- (d) Provide guidance to the Managing Director of CEPA regarding his/her roles regarding the INPART; and,
- (e) Establish the overall *modus operandi* of the INPART.

SECTION 3 – FUNCTIONS

3.1 The functions of the INPART will be to:

- (a) Receive proposals from the working group for evaluation and establishment of National Protected Areas, namely, National Parks, National Heritage Areas, Special Management Areas, and National Marine Sanctuary;

- (b) Provide technical advice to the Interim NCC on a range of matters regarding proposal for protected areas especially social, economic and ecological values and the local, national or global significance of the proposed area that is necessary for the establishment of the protected area; and,
- (c) Make recommendations to the Interim NCC for consideration and endorsement of National Protected Areas based on the assessment of the proposals.

SECTION 4 – APPOINTMENTS

4.1 The Managing Director of CEPA shall announce a call for expression of interest publicly and widely through the numerous medium of communication, especially the **national newspapers, TV, radios and CEPA’s Website to attract suitable candidates.**

4.2 Members other than personnel from CEPA shall submit an expression of interest letter to the Managing Director of CEPA who shall consider, and officially accept the membership through a letter of notification.

SECTION 5 – COMPOSITION OF MEMBERS

5.1 The INPART shall comprise of at least seven (7) members.

5.2 The composition of the INPART membership shall be:

- (a) The Deputy Managing Director of CEPA, *ex officio*, as the Chairperson, a Deputy Chairperson, a Secretary and other members;
- (b) Three (3) staff members of CEPA appointed by the Managing Director, one of which shall be a qualified legal practitioner;
- (c) Two (2) representatives from Non-governmental Organizations; and,
- (d) Two (2) Representatives of higher education institutions in Papua New Guinea with a strong background in ecological, cultural or social aspects related to protected areas.

5.3 The Deputy Chairperson and the Secretary shall be nominated from among the members of the INPART.

5.4 Written notice of all elections shall be deposited with the INPART Secretariat and the INPART Secretariat shall be notified 14-days days prior to the election:

- (a) Elections shall be conducted by the Secretariat once each three-calendar year through secret ballot, unless the Managing Director of CEPA decides to renew the membership of the INPART for an additional term as stipulated under Sub-section 8.1;
- (b) The members shall be elected by majority of the votes cast. Ballots shall be counted, and results must be announced at the next INPART meeting: and,

(c) All INPART members must be present during the designated day and time of the election. All ballots shall be placed in an envelope and presented to the INPART Secretariat to be filed.

5.5 Three of the members of the INPART shall be females.

SECTION 6 – SECRETARIAT

6.1 CEPA shall perform the functions of the Secretariat of INPART.

6.2 The Secretariat of INPART shall be housed within CEPA offices.

6.3 The Secretariat shall perform all administrative tasks of the INPART including support to the members of the INPART in performing their functions prescribed under these ToRs.

6.4 CEPA shall draft the ToRs for the INPART and table it at the first meeting of the INPART for discussion and approval.

6.5 CEPA shall assign to the Secretariat two (2) support staff, one from the terrestrial program and another from marine program, to administer the day-to-day and overall operations of the Secretariat.

6.6 The Secretariat shall keep records of proceedings/minutes of meetings, proposals for the National Protected Areas, the ToRs, and any other documentation related to the INPART and its work regarding protected areas.

SECTION 7 – MEETINGS

7.1 The INPART **shall meet four (4) times a year as expressed under “Pillar One 1.3.5”** of the PNG PPA.

7.2 A quorum for the transaction of business at an INPART meeting shall consist of 50% of the members.

7.3 The Chairperson: a voting member who shall prepare the agenda and preside over all INPART meetings, and shall perform such other duties as the INPART shall direct. The Chairperson may assign duties to the Deputy-Chairperson and other members of the INPART from time to time or during the absence of the Chairperson.

7.4 The Deputy Chairperson: a voting member who shall preside the meetings in the absence of the Chairperson and shall perform such other duties as the INPART shall direct.

7.5 The Secretary shall: record minutes of all INPART meetings; keep a permanent file of all INPART records; keep an up-to-date roll of members; maintain a record of member attendance to INPART meetings; issue notices of all INPART meetings; and, perform such other duties as the INPART shall direct. The copies of all documents must be deposited in the INPART binder at its respective office.

7.6 Any appointed member of the INPART is eligible to vote during the meeting.
(a) It is expected that INPART members will excuse themselves from voting on issues where there is a conflict of interest such as where an issue would affect their personal or organizational interest as stipulated under Section 11 of these ToRs.
(b) There shall be no voting by proxy or absentee ballot.

7.7 Appropriate notice must be posted with the INPART Secretariat at least 14 days prior to the meeting date.

7.8 In the event of cancellations of INPART meetings, due to emergencies or unavoidable circumstances, the Secretariat must inform the members of such cancellations immediately.

7.9 The Chairperson may call emergency or special meetings. Such meetings require a 48-hour notice.

SECTION 8 – TERM OF OFFICE

8.1 The term of office for the members of the INPART shall be limited to a three-year term with the possibility of renewal for a second term.

8.2 The Chairperson and the CEPA staff who is a qualified legal practitioner as stipulated under Sub-section 5.2 (b) above shall be permanent members of the INPART and as such they shall be exempted from Sub-section 8.1 above.

SECTION 9 – FEES AND ALLOWANCES

9.1 The members of the INPART who are not employees of any government entity shall be paid fees and allowances in accordance with the *Boards (Fees and Allowances) Act* (Chapter 299).

SECTION 10 – DISSOLUTION AND REPLACEMENTS

10.1 The Chairperson may dismiss any member of the INPART whom the Chairperson considers unfit for whatsoever reason which prevents the member from performing its functions and duties effectively and efficiently including illness, non-performance, unethical conduct, bankruptcy, non-attendance for three (3) consecutive meetings and an act that contravenes any section of the ToRs.

10.2 Prior to the decision to dismiss a member, the Chairperson shall consult with the other members of the decision to dismiss the member of the INPART.

10.3 The Chairperson shall notify the member, in writing, regarding the decision for dismissal and state the reason(s).

10.4 Within 14 days of receipt of a notice, under Sub-section 10.3 above, the member may reply in writing to the Chairperson, who shall consider the reply and where necessary, terminate the appointment. Where the member referred to does not reply within 14 days of receipt of a notice, his/her appointment is terminated.

10.5 The Chairperson may appoint a new member to the INPART following the dismissal notification and in accordance with Section 5 of these ToRs.

10.6 The Chairperson may replace a member in the event of a death of an existing member.

10.7 A member may vacate the membership at his/her own will for whatsoever reason that may impede him/her from performing his/her functions under these ToRs or from complying with any section of the ToRs by notifying the Chairperson, in writing.

SECTION 11 – DISCLOSURE OF INTEREST

11.1 Where a member has a direct or indirect financial interest otherwise than as a member of and in common with the other members of an incorporated company consisting of more than 25 persons and of which he/she is not a director, in a matter being considered or about to be considered by the INPART he/she shall, as soon as possible after the relevant facts have come to his/her knowledge, disclose the nature of his/her interest at a meeting of the INPART.

11.2 In Sub-section 11.1 above, **“indirect financial interest” includes an interest of a member’s spouse or child.**

11.3 Where a member of INPART is a member of an organization that has a direct or indirect financial or other special interest in a matter being considered or about to be considered by the INPART, he/she shall, as soon as possible after the relevant facts have come to his/her knowledge, disclose his/her membership of that organization and the nature of that interest at a meeting of the INPART.

11.4 A disclosure under this section shall be recorded in the minutes of the INPART.

11.5 The INPART may, on being informed of the interest of a member in a matter being considered or about to be considered by it, by resolution in which that member shall

not vote, resolve that that member take no further part in the proceedings of the INPART in respect of that matter.

SECTION 12 – AMENDMENTS

12.1. These ToRs may be amended through a written request submitted by any member of the INPART through the Chairperson.

12.2 Any such request shall be deliberated and voted upon at the next scheduled meeting of the INPART.

12.3 Amendments become effective by a favourable 2/3 vote of the INPART members, and shall be appended to these ToRs. A copy of all amendments shall be circulated to the members and provided also to the Secretariat.

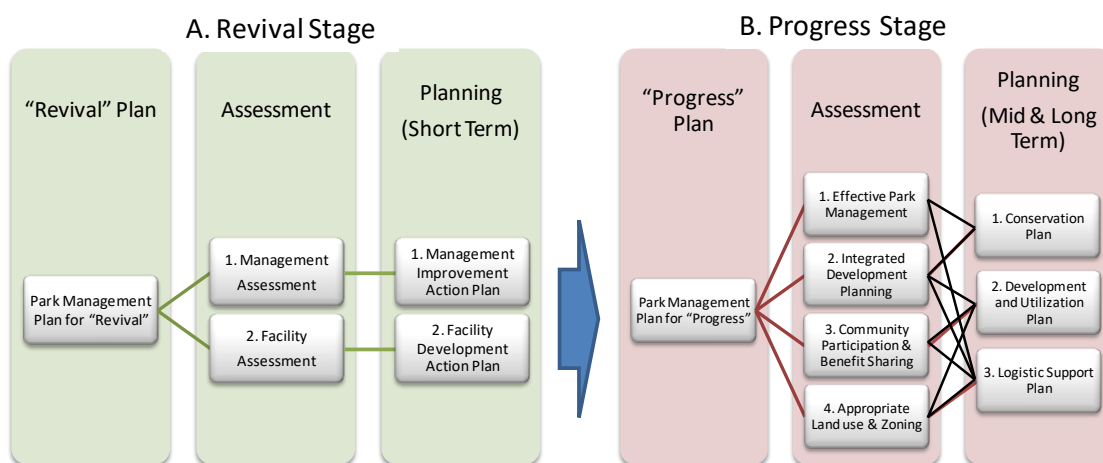
C. 成果 2

C-1 公園施設の整備

活動コンポーネントの概要及び主要な成果品 公園施設の整備

1. 背景及び概要

プロジェクト開始時にバリラタ国立公園の管理状況のベースライン評価をするために、METT (Management Effectiveness Tracking Tool)による分析や関係者へのニーズの聞き取り調査を行った。その結果、サインボードや距離杭などの公園施設のほぼ全てが老朽化しており、それらの管理も適切に行われていない状況が判明した。一方で、1990年代はレンジャーが配置されるなど必要十分な公園機能を有していたことが判明した。このような背景から、関係者との協議を通じて「バリラタ国立公園の管理能力の強化」に係る活動を「Revival stage」と「Progress stage」の2つのステージに分けて行うことにした。このうち「Revival stage」は、かつての公園施設の機能を取り戻すことを目標に定め、公園内の既存施設の修繕、整備を行った。具体的な作業は、公園施設の現状分析を行い、公園施設の改善のための計画を策定した。また、その計画に従って、サインボードや距離杭の設置、駐車場の整備などを行った。



2. 目的

公園の必要最低限の機能と役割を取り戻すために公園内の老朽化した施設の修繕と整備を行う (Revival stage)。

3. 活動内容

- (1) Facility Assessment の実施

- (2) Facility Development Plan の作成
- (3) 既存の公園施設の修繕、整備
- (4) 公園施設の管理及びモニタリング能力向上支援
- (5) バリラタ国立公園のガイドマップの作成

4. 活動経緯と実績

(1) Facility assessment の実施

2015年7月 ～10月	➤ バリラタ国立公園内の施設をアセスメントするための現地調査を行った。
2015年10月 ～12月	➤ バリラタ国立公園の施設データベースと施設マップを作成した。 ➤ 調査結果を取りまとめた施設アセスメントレポートを作成した。

(2) Facility Development Plan の作成

2015年12月 ～2016年1月	➤ 施設整備に必要な資材の見積りの収集及び積算作業を進めた。
2016年2月 ～3月 添付資料 2.1.1	➤ CPとの議論を通じてFacility Development Planの概要を作成した。 ➤ Facility Development Planを最終化した。

(3) 既存の公園施設の修繕、整備

2016年1月 ～2017年6月 添付資料 2.1.2	➤ 公園内の79の距離杭、1つの橋、23のサインボードを修理した。 ➤ 公園内の駐車場の整備を行った。 ➤ ワークショップを開催し、施設整備の状況について関係者へ報告した。
2016年4月 ～12月	➤ Main lookout と Main picnic area へそれぞれサインボードを設置した。 ➤ バードウォッチングプロジェクトに係る看板をバリラタ国立公園とPAUへ設置した。 ➤ Scarp Track と Self Guide Track へツカツクリのサインボードを設置した。

(4) 公園施設の管理及びモニタリング能力向上支援

2016年4月	➤ 公園施設のインスペクション用のマニュアルを作成し、CPへと説明
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～2018年8月	<p>した。</p> <p>➤ Facility Databaseの更新方法について取りまとめ、CPへと説明した。また、更新方法についてOJTで指導した。</p>
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(5) バリラタ国立公園のガイドマップの作成

2016年8月～9月	➤ ガイドマップのデザイン案を作成した。
2016年9月～2017年1月 添付資料 2.1.3	➤ ガイドマップを最終化し、公園の訪問者へ配布した。

5. 評価

(1) 成果到達度の評価

評価指標	指標の到達度の自己評価	評価結果
Facility Development Action Planを2016年3月までに作成する。	Achieved	現場調査による公園施設の評価を通じて、2016年3月にFacility Development Action Planが作成された。
公園施設が2017年6月までに作成したプランに基づいて整備される。	Achieved	Facility Development Action Planに基づいてサインボード、橋、距離杭などの公園施設が整備された。

(2) 目標到達度の評価

評価指標	指標の到達度	評価結果
整備された公園施設が適切に管理・活用される。	Achieved	公園施設は、Park Rangerを中心に適切に管理、モニタリングされている。また、多くの観光客が公園を訪問し、公園施設を利用している。

6. 教訓

(1) 公園施設に関する調査や修繕作業への地元民の巻き込み

CEPA カウンターパートと共に公園施設の調査を時間をかけて行い、また修繕作業も外注を最低限として共に実施していくことで、施設が改善されていく様子を見ながら成果を実感してもらうことができた。それにより、プロジェクト活動に対するモチベーションが向上し、同時にオーナーシップを高めることができた。また、公園整備では積極的に地域住民や地元工務店を雇用して実施したことで、地域住民の間でもプロジェクト活動についての理解が進み、その後に生計向上活動を実施したり公園管理委員会を発足させる際の土台となった。

7. 提言

(1) 公園施設整備・メンテナンスのための予算確保

プロジェクトで整備した公園施設を継続して機能させるためには、管理に加えて補修などのメンテナンス費用を確保する必要がある。現状では、公園施設の老朽化が進んだ段階で逐一 CEPA へ予算申請を行う必要があるが、内部手続きには多くの時間がかかりタイムリーに作業を実施できない上、また必要な経費が支給されない事態も経験している。施設整備及びメンテナンスの費用は、公園管理委員会で議論が進められているように、公園で独立した予算枠をつくり、必要額の予算を確保しておくとともに、公園管理委員会などの裁量で執行できるような新たなシステムが求められる。

8. 主要な成果品リスト:

- 1) Facility Development Plan(添付資料 2.1.1)
- 2) Report of renovation of the existing facilities at VNP (2016) (添付資料 2.1.2)
- 3) Varirata National Park Guide Map(添付資料 2.1.3)

以上

添付資料 2.1.1 Facility Development Plan

Facility Development Plan

1. Principle of development plan

The principle of facility development plan in VNP is shown below.

[Principle of Facility Development Plan in VNP] (Recommendation)

- ◆ Two steps development
- ◆ The first step is located as “Revival stage”, the target is the revival of facility condition in 1990s
- ◆ The second step is located as “Progress stage”, the target is the further improvement of facility.
- ◆ The planning of the second step will be prepared during the first step implementation. And after first step, the second step will start.

Total of over 200 facilities are identified in VNP. It is not possible to revive all the facilities within the short term taking into consideration the cost and time frame. Therefore, firstly it is necessary to select prior items and start implementing them.

Priority of the facility shall be considered based on the priority of functions. There are 4 natural park functions; (1) Contribute to secure biodiversity or conservation of natural environment, (2) Contribute to provision of place and chance of experiences in nature or study of natural environment, (3) Contribute to safety of park utilization, and (4) Contribute to provision of place and chance of recreation. The most important function in VNP is considered as “(4) Contribute to provision of place and chance of recreation” followed by “(2) Contribute to provision of place and chance of experiences in nature or study of natural environment”. And the function “(3) Contribute to safety of park utilization” is prior, because this function support the functions of (4) and (3).

On the aspect of “Revival” of park function in the past, the facilities related to function (4) and (2) are prior, followed by function (3) and (1).

The prior improvement targets are shown below.

[Prior improvement of Facility for Revival Stage]

- ◆Function (4): The Facilities which contribute to provision of place and chance of recreation
 - Repair or replacement of the Shelters in Lake site, toilets
 - Improvement of Camping facilities
 - Repair or replacement of car stop piles
- ◆Function (2): The facilities which Contribute to provision of place and chance of experiences in nature or study of natural environment
- ◆Function (3): The facilities which Contribute to safety of park utilization
 - Repair or replacement of Wooden bridges on Tracks
 - Preparation of track sign boards and guide map

3.3 Development plan framework

Table below shows the principle of facility development plan with the classification of short, medium and long term.

Table 1.1-1 Strategy for Facility Development in Varirata National Park

Category of Facility	Strategy of Improvement/development	Comment/Explanation	Next steps		
			Short Term (1-2 Year)	Mid Term (2-3 Year)	Long Term (4-5 Year)
(1) Road and bridge					
1) Car road	Pavement on dirt roads and secure maintenance of paved roads	80% of total road length, main road and circuit road, have been paved. Maintenance of existing paved roads and pavement of the other roads are required.	Maintenance of paved roads	Maintenance of paved roads	Pavement on the other
2) Track	Regular maintenance	Track condition is quite good currently because of good maintenance. The maintenance shall be secured to be implemented.	Regular maintenance	Regular maintenance	Regular maintenance
3) Bridge (track)	Repair of middle size bridge is prior, small size bridge can be done later	Walking without middle sized bridge causes accidents or impossible to continue to walk the track.	Repair or replace middle sized bridge on tracks Regular maintenance	Small sized bridge set. Regular maintenance	Regular maintenance
4) Hand rail (track)	2 hand trails will be replaced urgently	The hand trails are necessary for safety walk on the tracks.	Replacements of 2 had trails.	Regular maintenance	Regular maintenance
(2) Open area	Keep the good condition by maintenance	Current condition is kept with good maintenance such as cleaning and lawn cutting.	Regular maintenance	Regular maintenance	Regular maintenance
(3) Quarter	Ranger's life lines and structures shall be improved.	The ranger's function for keeping safety is expected much; therefore, their life facility shall be improved.	Development planning of water supply for ranger's quarter	Development of water supply for ranger's quarter Planning of water supply for ranger's house	Development of water supply for ranger's house
(4) Shelter and other houses					

Table 1.1-1 Strategy for Facility Development in Varirata National Park

Category of Facility	Strategy of Improvement/development	Comment/Explanation	Next steps		
			Short Term (1-2 Year)	Mid Term (2-3 Year)	Long Term (4-5 Year)
1) Shelter	Restoration of existing facilities first	Restoration of roof of existing shelters in lake site is prior. In the same time, maintenance of all existing shelters shall be done.	Restoration of roofs of shelters in lake site	Other shelters repair Maintenance of existing shelters	Regular maintenance
2) Tollgate	Improved for safety in short term, dimension of the tollgate office will be improved in long term.	Improvement of safety function on the office is urgent (bandits counter measure). Bigger tollgate will be improved in long term.	Safety function of exiting tollgate	Planning bigger tollgate	Implement bigger tollgate
3) Information center	Simple and same structure is revived in short term, another new and different system center will be developed in long term.	Simple and restoration is required in short term plan. The next generation information center (such as live video, on time camera traps, etc.) will be considered, planned and implemented with long term period.	Simple structure on the existing position or near position	Strategy, planning for new information system development	Implementation of new information system (electric information system)
(5) Camping facility	Restoration of existing facilities first. Especially, repair and improvement of lodges and toilets are prior.	Restoration of existing lodges and toilet, repair or replacement of door keys and gate facilities are prior. Necessity of water supply system, shower rooms and kitchen will be considered and improved.	Restoration of door keys of lodges, gate, toilet.	Maintenance of lodges, toilets. Consideration and strategy/ planning of water supply system, shower rooms and kitchen	Maintenance of existing facilities Development of water supply, shower rooms and kitchen
(6) Car Parking	Car stop pile shall be maintained.	Car stop pile is key to control the car movement.	Main picnic area Main lookout	Regular maintenance Other open areas	Regular maintenance
(7) Water supply facility	Ranger's facility must be improved.	Ranger's area water supply system shall be prior to the one for visitors.	For Ranger's quarter	For Ranger's house	For visitors
(8) Toilet	Repair or replacement of existing toilets is prior. Regular maintenance is crucial.	Cleaned toilet is one of the most important points for visitors. Replacement of damaged toilet and repair are prior. Daily	Cleaning, maintenance and replacement of all existing toilets	Cleaning and maintenance of existing toilets	Regular maintenance

Table 1.1-1 Strategy for Facility Development in Varirata National Park

Category of Facility	Strategy of Improvement/development	Comment/Explanation	Next steps		
			Short Term (1-2 Year)	Mid Term (2-3 Year)	Long Term (4-5 Year)
		maintenance of toilet is one of the most important issues.		shall be implemented. Additional toilets Regular maintenance	
(9) Sign					
1) Traffic/ car road sign board	Existing boards shall be maintained. Unclear words shall be changed.	Change of unclear words is prior, and check the effects.	Sign words shall be changed.	Regular maintenance	Regular maintenance
2) Track sign board	Distance piles, ref. piles, and guide map shall be improved.	Combination of distance piles, ref. piles and guide map shall be improved on time.	Restoration of all distance piles, and map preparation	Restoration of all ref. piles and map updating	Improve informing system (electric information system)

Source: CEPA-JICA Project (Facility Assessment Report in Varirata National Park, 2015)

2. Schedule of Three Term Periods

The planning and implementation schedule of three term periods are shown below.

Table 2.1-1 Draft Schedule of Planning and Implementation during

Stage/ Plan, Implementation		1 st Year	2 nd Year	3 rd Year	4 th Year	5 th Year
Revival Stage	Planning	→				
	Implementation		→	→		
Progress Stage	Planning		→	→	→	
	Implementation			→	→	→

Source: CEPA-JICA Project (Facility Assessment Report in Varirata National Park, 2015)

The short term period is apply to the “Revival Stage”, and mid-term and long-term period are apply to the “Progress Stage”.

3. Revival Plan (Short-Term Plan)

3.1 Amount of Revival Plan

The necessary facilities which will be repaired or replaced during the “Revival stage” are shown below.

Table 3.1-1 Target Facilities of Development during Revival Stage

Sub Category	Not necessary	Other Planning	Repair/ replacement	Total
Area sign board	-	-	1	1
Track sign board	-	-	5	5
Traffic sign board	-	-	5	5
Facility sign board	-	-	1	1
Reference pile	-	71	-	71
Distance pile	-	39	0	39
Bridge	2	-	19	21
hand rail	-	-	2	2
Car stop pile	-	6	-	6
Other	-	-	1	1
Shelter/ hut	9	-	4	13
BBQ set	5	-	7	12
Fence	-	-	4	4
Gate	-	-	1	1
Toilet	-	-	9	9
Workshop	-	-	1	1
Information center	-	-	1	1
Car parking area	7	-	-	7
Total	23	116	61	193

Source: Prepared CEPA-JICA Project based on Facility Assessment Report in Varirata National Park, 2015

3.2 Summary of Revival Plan

The summary of the revival plan is shown below.

Table 3.1-2 Summary of Revival Plan

	Item	Amount	unit	Cost (PGK)
(1)	Distance pile	73	pile	7,774
	Sign Board for distance pile	8	sign board	
(2)	Car stop pile	186	pile	10,439
(3)	Sign Board	12	sign board	4,545
(4)	Bridge	19	bridge	257,019
(5)	Hand rail	2	rail	8,547
(6)	Fence	3	place	62,681
(7)	Toilet	9	toilet	87,522
(8)	Shelter	4	shelter	248,745
(9)	BBQ set	12	set	8,783
(10)	Workshop	1	building	137,934
(11)	Tree house	1	building	55,176
(12)	Information center	1	building	306,526
Total				1,195,691

* The cost includes GST (10%)

3.3 Detail of the Revival Plan

The details of the revival plan are described below (1) to (10).

(1) Distance piles, sign boards and guide map

Many distance piles and reference piles show position of the visitor on a guide map. They have been distributed along the tracks. However, most of them are aged and damaged then do not work. In this plan, the lost function of guide of the park will be recovered by installation of distance piles at 100m each from the start point to the end point of each track. The sign boards will be replaced or installed newly to show the start and end point of each track, and the guide map will show the whole map, track detail maps to show the location of tracks, relation between the tracks and distance piles/ sign boards. Therefore, in this plan, installation of distance pile and sign board, preparation of guide map will be implemented as one set. Additionally, the guide map will be distributed to the visitors; therefore, additional printing will be necessary.

1) Plan of distance pile and sign boards installation

The new distance piles will be installed at 100m each on the tracks. Two sign boards will be installed at both of the start and end points. The planned number of new distance piles are shown below.

Table 3.3-1 Number of Distance piles and Sign Boards (Track basis)

Track	Distance (m)	Number of distance pile	Number of new sign board
Circuit Track	1,910	18	2
Self Guide Track	1,930	18	2
Scarp Track	2,180	21	2
Gare's Lookout Track	1,640	16	2
total	7,660	73	8

The estimated cost of piles and boards installation is shown below.

Table 3.3-2 Cost of Distance piles and Sign Boards Installation

Item	Number	Cost (PGK)
Distance pile	73	4,312.7743
Sign board	8	2,754.5944
Total		7,067.3687
GST		706.7369
Ground Total		7,774.1056
Round		7,774

2) Plan of guide map preparation

The design of guide map will be prepared by the Project experts and illustration preparation and printing will be contracted. The size of guide map is A3 and both sides will be used.

The illustration will be prepared once. 1,000 maps will be printed per three month. The cost for map preparation is shown below.

Table 3.3-3 Cost of Guide Map Preparation

Item	Number	Cost (PGK)
Illustration	1	1,000
Printing	1,000	10,000
Total		11,000
GST		1,100
Ground Total		12,100
Round		12,100

(2) Car stop pile

No vehicles are allowed to enter to the open areas. The car spot pile limit the parking area; therefore, car stop piles of all car parking area are planned to be replaced.

The required number of car stop piles is shown below.

Table 3.3-4 Cost of Car Stop Piles replaced

Facility No	Sub location	Length (m)	Distance of line of piles	Cost (PGK)
30	Main picnic area	52	53	2,704.0176
55	Lake site	18	19	969.3648
56	Lodge area	36	37	1,887.7104
74	Gare's lookout	17	18	918.3456
75	Gare's lookout	25	26	1,326.4992
162	Picnic site 4	32	33	1,683.6336
Total	6 car parking areas	180	186	9,489.5712
			GST	948.9571
			Ground Total	10,438.5283
			Round	10,439

(3) Sign boards

The damaged sign boards of traffic sign boards, track sign boards, facility sign boards, and area sign boards will be replaced. The list of sign boards to be replaced is shown

below.

Table 3.3-5 List of Sign Board Repaired/ Replaced

Facility No	Sub category	Sub location	Cost (PGK)
12	Facility sign board	Main road	344.3243
67	Area sign board	Gare's lookout	344.3243
68	Track sign board	Gare's lookout	344.3243
71	Track sign board	Gare's lookout	344.3243
76	Traffic sign board	Main road	344.3243
77	Traffic sign board	Main road	344.3243
78	Traffic sign board	Main road	344.3243
79	Traffic sign board	Main road	344.3243
80	Traffic sign board	Main road	344.3243
189	Track sign board	Scarp track	344.3243
208	Track sign board	Gare's lookout track	344.3243
209	Track sign board	Gare's lookout track	344.3243
Total	12 sign boards		4,131.8916
		GST	413.1892
		Ground Total	4,545.0808
		Round	4,545

(4) Bridge

The bridge repair, replacement are classified into three types based on the depth of water way of planed place as below.

- Small size: the depth of water way is less than 10cm,
- Medium size: the depth of water way is less than 50cm, and
- Big size: the depth water way is equal or more than 50cm.

The list of bridges which will be developed during short- term period is shown below.

Table 3.3-6 List of Bridge Repaired/ Replaced

Facility No	Sub location	Type of repair-replacement	Cost (PGK)
23	Main picnic area	replacement of whole bridge (big size)	49,213.0000
92	Self guide track	replacement of whole bridge (big size)	49,213.0000
99	Self guide track	replacement of whole bridge (small size)	1,200.7676
103	Self guide track	replacement of whole bridge (small size)	1,200.7676
105	Self guide track	replacement of whole bridge (small size)	1,200.7676
107	Self guide track	replacement of whole bridge (small size)	1,200.7676
109	Self guide track	replacement of whole bridge (medium size)	3,885.0865
113	Self guide track	replacement of whole bridge (small size)	1,200.7676
114	Self guide track	replacement of whole bridge (small size)	1,200.7676
116	Self guide track	replacement of whole bridge (medium size)	3,885.0865
119	Self guide track	replacement of whole bridge (small size)	1,200.7676
120	Self guide track	replacement of whole bridge (small size)	1,200.7676
127	Circuit track	replacement of whole bridge (big size)	49,213.0000
132	Circuit track	replacement of whole bridge (medium size)	3,885.0865
143	Circuit track	replacement of whole bridge (medium size)	3,885.0865
178	Boundary track	replacement of whole bridge (big size)	49,213.0000
182	Boundary track	replacement of whole bridge (medium size)	3,885.0865
183	Boundary track	replacement of whole bridge (medium size)	3,885.0865
184	Boundary track	replacement of whole bridge (medium size)	3,885.0865
Total	21 Bridges		233,653.7463

GST	23,365.3746
Ground Total	257,019.1209
Round	257,019

(5) Hand trail

Two hand trails on the track have been disappeared or almost broken already. These will be replaced to the new trails. The list of hand trail is shown below.

Table 3.3-7 List of Hand Trail Repaired/ Replaced

Facility No	Sub location	Damage level	Type repair-replacement	Cost_(PGK)
125	Self guide track	Replacement is required or broken completely	replacement	3,885.0865
134	Circuit track	Replacement is required or broken completely	replacement	3,885.0865
Total	2 hand trails			7,770.1730
			GST	777.0173
			Ground Total	8,547.1903
			Round	8,547

(6) Fence

No. 207 and 213 are necessary to prevent an accident that the visitors would fall down the slope. No.254 stops the visitors who would enter the park through wrong entering place.

Table 3.3-8 List of Fence Repaired/ Replaced

Facility No	Subcategory	Sub location	Damage level	Type of repair-replacement	Cost (PGK)
207	Fence	Gare's lookout track	Replacement is required or broken completely	Replacement	3,885.0865
213	Fence	Gare's lookout track	Replacement is required or broken completely	Replacement	3,885.0865
254	Fence	Entrance gate site	Repair is required	Replacement	49,213.0000
Total	3 Fences				56,983.1730
				GST	5,698.3173
				Ground Total	62,681.4903
				Round	62,681

(7) Gate

The entrance gate is currently under repairing by CEPA (February, 2016). Also, CEPA is going to repair the gate at Lodge area and the main lookout. The gate at the main lookout is new gate which limits car entrance into the lookout, because police patrol vehicle comes into the main lookout once a week. However, general visitors are prohibited to enter the lookout. In this Development plan, the cost of repair or new installation of gates are not included.

Facility No	Subcategory	Description	Sub location	Type of repair-replacement
-------------	-------------	-------------	--------------	----------------------------

4	Gate	Tollgate gate	Entrance gate site	Replacement
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(8) Toilet

The condition of toilet is classified as i) seat is damaged, ii) floor is damaged, iii) both are damaged, and iv) whole toilet is damaged. The list of toilet which will be developed is shown below.

Table 3.3-9 List of Toilet Repaired/ Replaced

Facility No	Description	Type of repair-replacement	Cost (PGK)
28	for visitors	replacement of whole toilet	12,468.0000
32	for visitors	replacement of seat & floor only of toilet	1,585.9225
33	for visitors	replacement of seat & floor only of toilet	1,585.9225
41	for visitors	replacement of whole toilet	12,468.0000
72	for visitors	replacement of whole toilet	12,468.0000
83	for visitors	replacement of whole toilet	12,468.0000
158	for visitors	replacement of seat & floor only of toilet	1,585.9225
172	for rangers	replacement of whole toilet	12,468.0000
176	for rangers	replacement of whole toilet	12,468.0000
Total	7 Toilets		79,565.7675
		GST	7,956.5768
		Ground Total	87,522.3443
		Round	87,522

(9) Shelter

Most of the shelters in VNP are not bad conditions except the ones located in the lake side. The list of shelters which are necessary to be replaced is shown below.

Table 3.3-10 List of Shelters Repaired/ Replaced

Facility No	Sub location	Damage level	Type of repair-replacement	Cost (PGK)
48	Open area	Replacement is required or broken completely	replacement of whole shelter	56,533.0000
51	Lake site	Repair is required	replacement of whole shelter	56,533.0000
53	Lake site	Repair is required	replacement of whole shelter	56,533.0000
54	Lake site	Repair is required	replacement of whole shelter	56,533.0000
Total	4 shelters			226,132.0000
			GST	22,613.2000
			Ground Total	248,745.2000
			Round	248,745

(10) BBQ set

Some of BBQ sets are broken and necessary to be replaced. The list of BBQ sets which will be replaced is shown below.

Table 3.3-11 List of BBQ Sets Repaired/ Replaced

Facility No	Sub location	Damage level	Cost (PGK)
18	Main picnic area	Repair is required	1,140.6250
49	Open area	Repair is required	1,140.6250

70	Gare's lookout	Slightly damage	1,140.6250
87	Picnic site 3	Repair is required	1,140.6250
89	Picnic site 3	Repair is required	1,140.6250
156	Lake site	Repair is required	1,140.6250
157	Lake site	Replacement is required or broken completely	1,140.6250
Total	7 BBQ sets		7,984.3750
		GST	798.4375
		Ground Total	8,782.8125
		Round	8,783

(11) Buildings

The buildings which are necessary to be developed during the Revival stage are i) workshop, ii) Koiari tree house, and iii) Information center.

Necessary cost of those are shown below.

Table 3.3-12 Workshop Replaced

Facility No	Sub location	Cost (PGK)
27	Main picnic area	125,394.5000
		12,539.4500
		137,933.9500
		137,934

Table 3.3-13 Tree House Replaced

Facility No	Subcategory	Description	Cost (PGK)
253	Other	Koiari Tree House	50,160.0000
			5,016.0000
			55,176.0000
			55,176

Table 3.3-14 Information Center Replaced

Facility No	Sub location	Type of repair-replacement	Cost (PGK)
26	Main picnic area	replacement of whole center	278,660.0000
		GST	27,866.0000
		Ground Total	306,526.0000
		Round	306,526

3.4 Tentative implementation schedule of Revival Plan

(1) Implementation methodology

There are two types of implementation methodology for facility development; i) direct construction by the project or CEPA, ii) contract basis construction (by the contractor).

Because of much expensive cost by quotation submitted by some contractor companies, it is considered to implement by the Project or CEPA using some employees such as, carpenter, worker, supervisor, etc. most of the wood small sized facilities will be implemented by the direct implementation (Distance pile, Sign Board for distance pile, Car stop pile, Sign Board, Bridge, Hand rail, Fence. Some specific and big sized facilities

will be implemented contract basis (toilet, Shelter, BQ set, Workshop, Tree house, Information center).

(2) Implementation schedule

The implementation schedule is considered tentatively as below.

No.	Work Item	Cost	2016												2017											
			Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
(1)	Distance pile																									
	Sign Board for distance pile	7,774																								
(2)	Car stop pile	10,439																								
(3)	Sign Board	4,545																								
(4)	Bridge	257,019																								
(5)	Hand rail	8,547																								
(6)	Fence	62,681																								
(7)	Toilet	87,522																								
(8)	Shelter	248,745																								
(9)	BBQ set	8,783																								
(10)	Workshop	137,934																								
(11)	Tree house	55,176																								
(12)	Information center	306,526																								

The monthly cost of each work item is averaged and total cost of each month is calculated as below.

1st year (tentatively 2016)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1,555	1,555	1,555	1,555	4,165	3,746	3,746	3,746	42,126	40,990	105,727	105,727

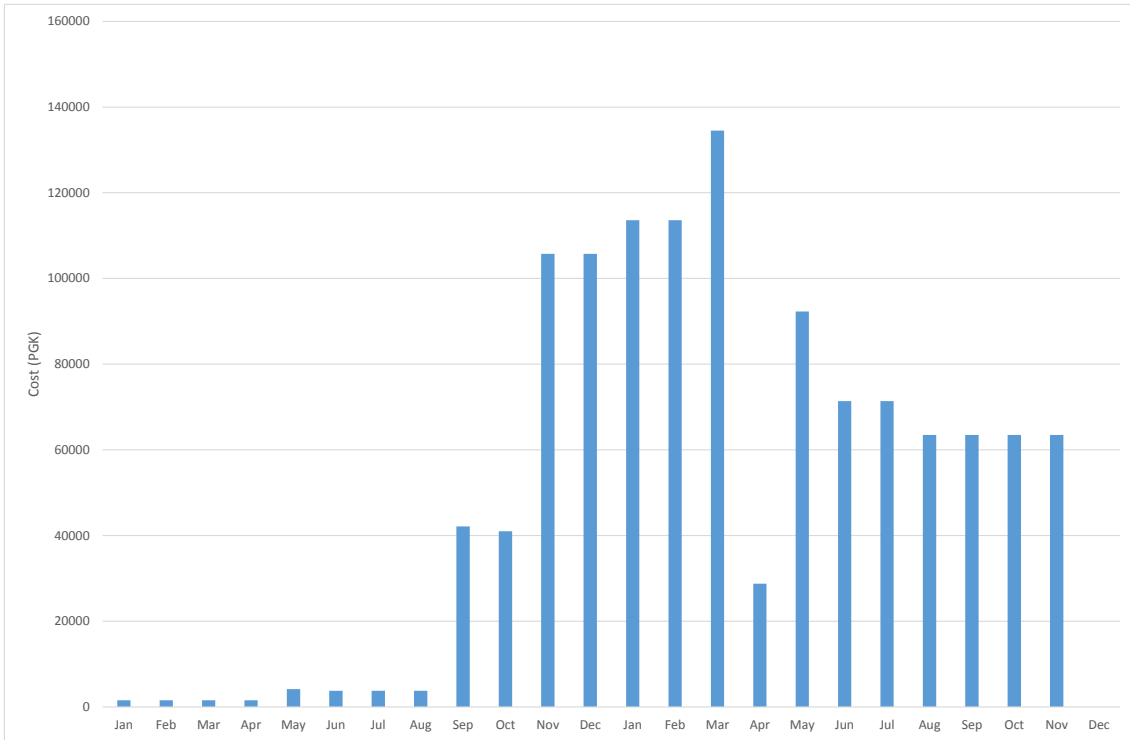
2nd year (tentatively 2017)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
113,609	113,609	134,502	28,775	92,270	71,376	71,376	63,494	63,494	63,494	63,494

(The unit is PGK, including GST)

Note: The actual payment is composed as 50% at the beginning of work, 30% at middle of the work and 20% at the end of the work. Therefore, the cost distribution above is different from the actual condition. Also, the all cost is estimated based on some price research and collection of quotations. However, even the quotation, the cost will be changed by the contractors or suppliers at the actual implementation. Therefore, the cost above is absolutely estimation and when start implementation, serious quotations are required.

The monthly cost transition is shown as below.



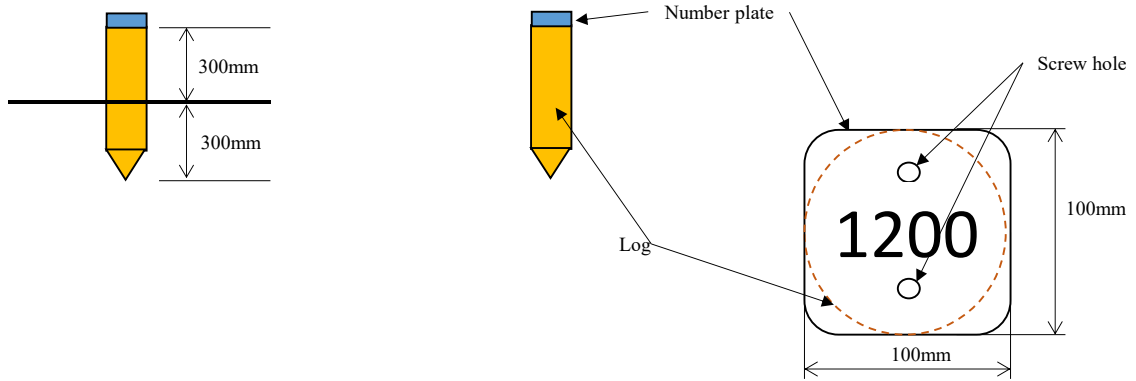
It is considered to prepare the contract with some contractors for the contract basis implementation; therefore, most of them are scheduled in the 2nd year. The each cost of contract basis implementation is higher than the direct implementation. Therefore, the cost of the 2nd year is much higher than the 1st year.

3.5 Budget plan of the Revival Plan

- (1) Summary of current budget
- (2) Gaps of planned cost requirement and current renew
- (3) Fund source

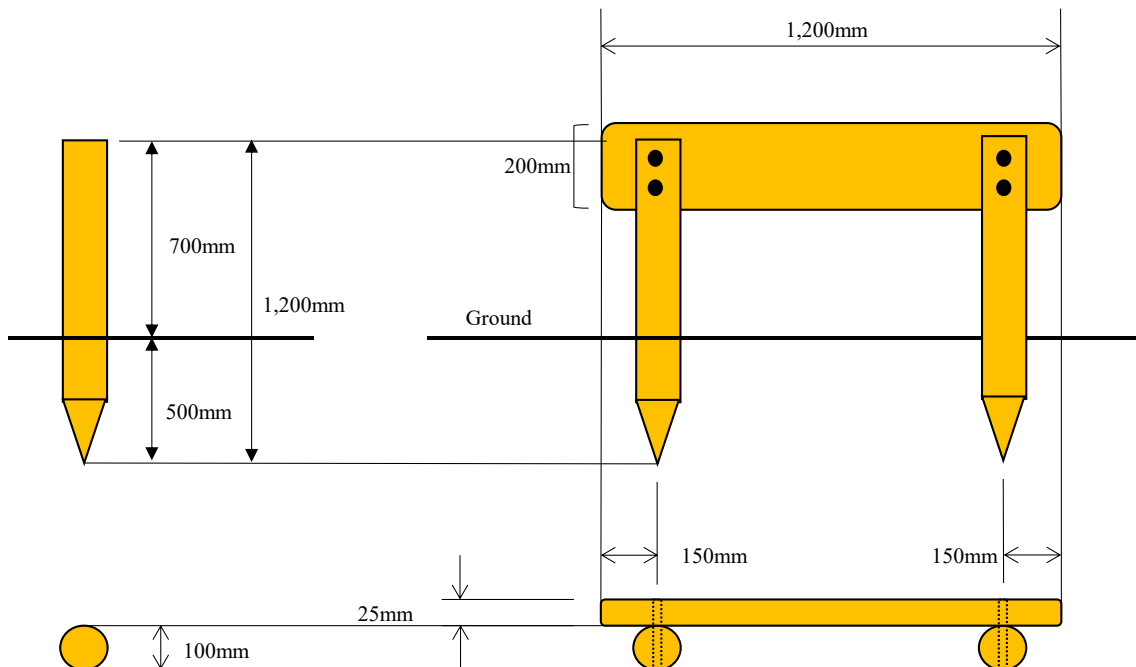
Appendix-A Outline of Design (Wood Facility for the Direct implementation)

Outline design (1): Distance pile

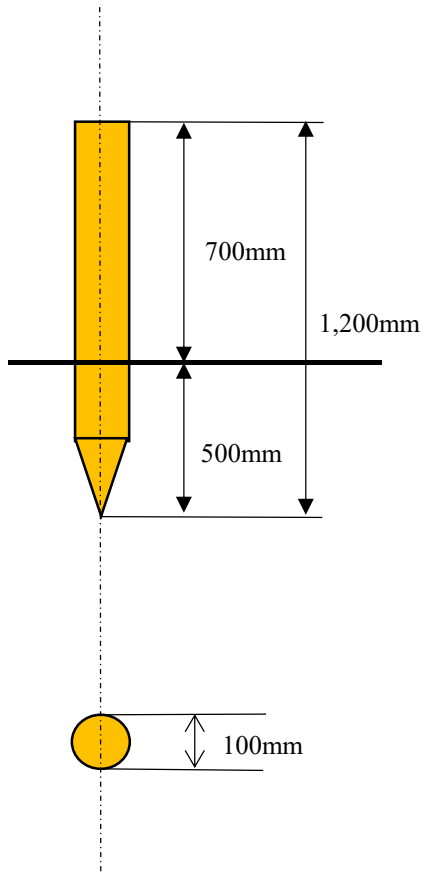


Enlarged Illustration of Distance Plate

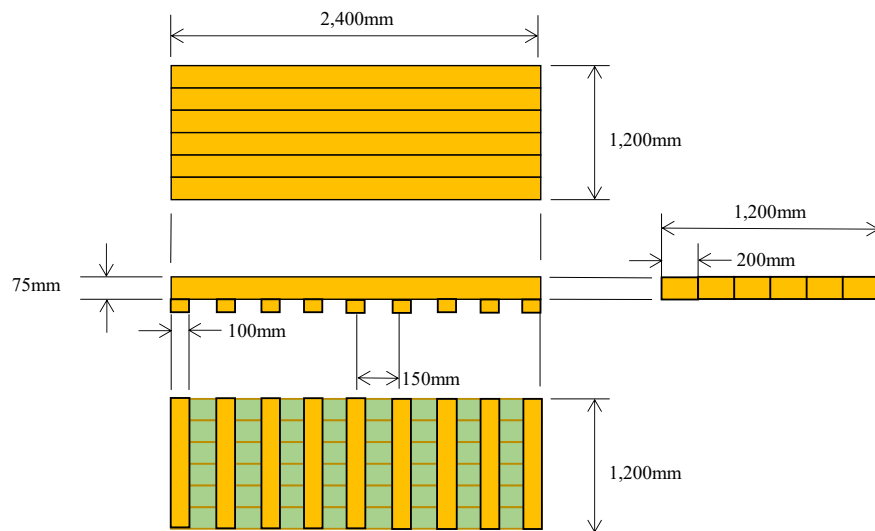
Outline design (2): Sign board



Outline design (3): Car stopping pile



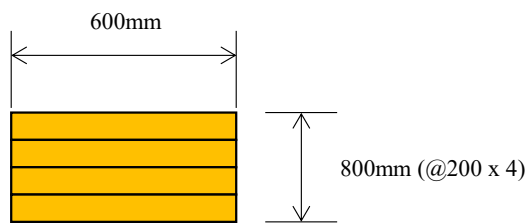
Outline design (4): Medium sized bridge



Note 1: This type will be used for place with less than 50cm of depth of water way.

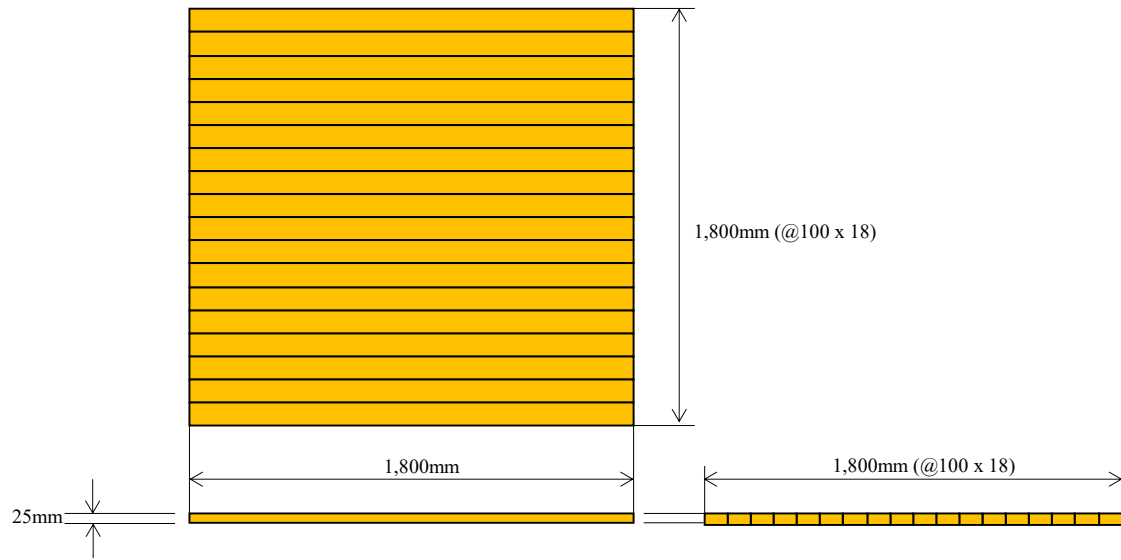
Note 2: The length of bridge is shorter than this type, cost will be estimated by proportional allotment.

Outline design (5): Small sized bridge

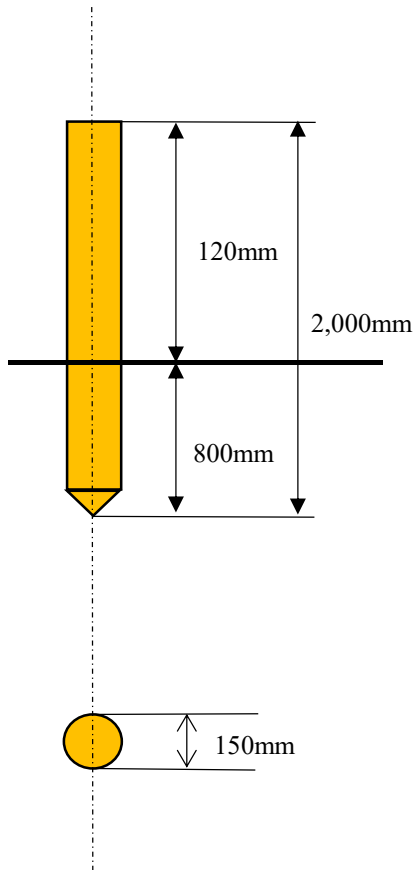


Note 1: This type will be used for place with less than 10cm of depth of water way.
Note 2: The length of bridge is shorter than this type, cost will be estimated by proportional allotment.

Outline design (6): Floor of toilet


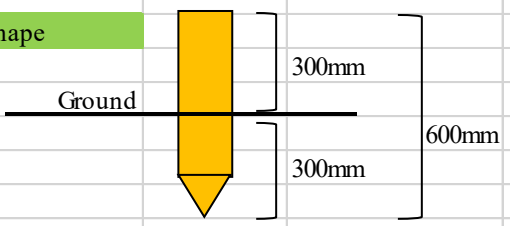


Outline design (7): Hand rail


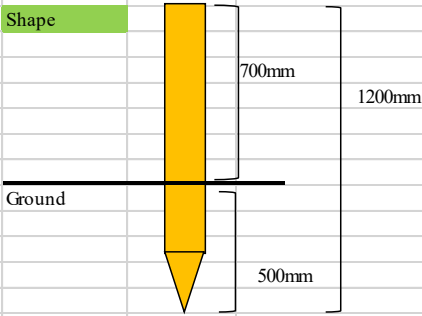


Appendix B Calculation of Volume of wood material


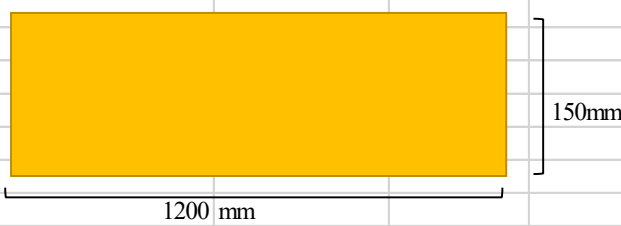
(1) Distance pile

Material amount calculation		Distance pile
Material shape & dimension at shop		
		
	ϕ 10cm	2.4m
Dimension of distance pile		
Length:	600 mm	
Diameter	100 mm	
Shape		
	Ground	
	300mm	600mm
	300mm	
Required amount of material		
	0.25 timber/ pile	(600/2400)
Paint area	78.53981634 cm ²	(5*5*pai)
	1884.955592 cm ²	(10*Pai*60)
	1963.495408 cm ²	
	0.1963 m ²	


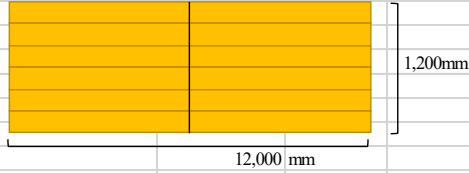
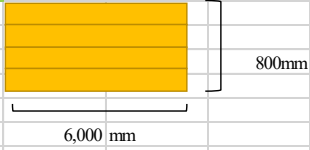
(2) Pile of sign board, and car stop pile

Material amount calculation					
Use material:	Timb-00				
					
	Diameter: 10cm	timber length: 2.4m			
Facility	Pile for sign board	Facility	Car stop pile		
Length:	1200 mm/ pile 2 piles/ sign board	Length:	1200 mm/ pile		
Shape		Shape	Same as left		
Required amount of material	1 timber/ sign board (1200/2400*2)	Required amount of material	0.5 timber/ pile (1200/2400)		
Paint area	157.0796327 cm ² (5*5*pi*2) 7539.822369 cm ² (10*pi*120*2) 7696.902001 cm ² 0.7697 m ² / sign board	Paint area	78.53981634 cm ² 3769.911184 cm ² 3848.451001 cm ² 0.3848 m ² / pile		


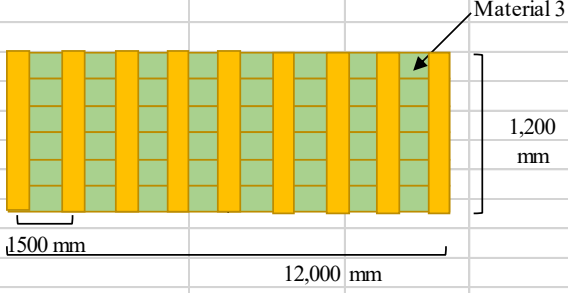
(3) Board (sign board)

Material amount calculation		
Use material:	Timb-02	
25mm		
	150mm	4200mm
Usage:	Board of sign board	
Length:	100 cm/ board	
Shape		
Required amount of material	0.285714286 timber/ sign board	
Paint area	75 cm ²	2*2.5*15
	600 cm ²	2*2.5*120
	3600 cm ²	2*15*120
	4275 cm ²	
	0.4275 m ²	


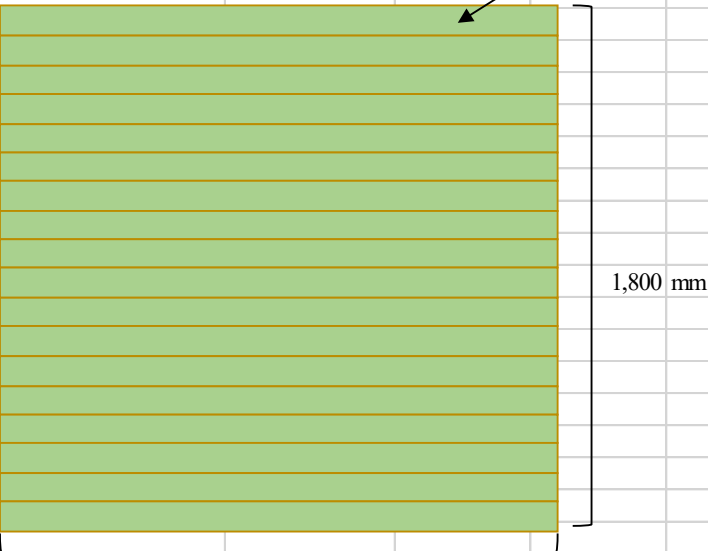
(4) Bridge

Material amount calculation									
Use material:	Timb-03								
75mm									
	200mm							6000 mm	
Usage:	main board of medium sized Bridge					Usage:	main board of small sized Bridge		
Length:	12,000 mm/ bridge					Length:	6000 mm/ bridge		
Shape						Shape			
	12,000 mm						6,000 mm		
Required amount of material	12 timber/ bridge					Required amount of material	4 timber/ bridge		
Paint area	3,600 cm ² (2*7.5*20*12)					Paint area	no paint (slip prevention)		
	108,000 cm ² (2*7.5*600*12)								
	288,000 cm ² (2*20*600*12)								
	399,600 cm ²								
	39.96 m ²								

(5) Medium size bridge

Material amount calculation							
Use material:	Timb-05						
25mm							
	100mm			4200 mm			
Usage:	side board of middle sized Bridge						
Length:	1,200 mm/ bridge						
Shape							
Required amount of material	2.571428571	timber/ bridge	(9* 1200/4200)				
Paint area	450	cm2	(2* 2.5* 10*9)				
	54,000	cm2	(2* 2.5* 1200*9)				
	21,600	cm2	(2* 10* 120*9)				
	76,050	cm2					
	7.605	m2					

(6) Toilet Floor

Material amount calculation		floor of toilet		
Use material:	Timb-05			
25mm				
	100mm		4200 mm	
Usage:	Flooring of toilet			
Length:	2,000mm x 2,000mm			
Shape				
	1,800 mm		1,800 mm	
Required amount of material				
	1,800 mm/ bar			
	2 bars/ piece			
	18 bars/ toilet			
	9 pieces/ toilet			
Paint area	900 cm2	(2*2.5*10*18)		
	16200 cm2	(2*2.5*180*18)		
	64800 cm2	(2*10*180*18)		
	81900 cm2			
	8.19 m2			

Appendix C Cost estimation sheet

[1] Direct Implementation Costs

(1) Material cost estimation

Material cost estimation													
No.	Sub category	Type of repair/ replacement	Material itself										
			Material-1 code	unit price	unit	required amount	unit	Material-2 code	unit price	unit	required amount	unit	
1	Sign Board	replacement of board only	Timb-02	37.49	PGK/ material	0.285714286	board/ sign board						
2	Sign Board	replacement whole sign board	Timb-02	37.49	PGK/ material	0.285714286	board/ sign board	Timb-00	23	PGK/ material		1	timber/ sign board
3	Distance pile	replacement whole distance pile	Timb-00	23	PGK/ material	0.25	timber/ pile	Plate-01	21.5	PGK/ material		1	plate/ pile
4	Car parking	replacement of whole car stop pile	Timb-00	23	PGK/ material	0.5	timber/ pile						
5	Toilet	replacement of seat only	T-seat-01	1000	PGK/ material		1	material/ seat					
6	Toilet	replacement of floor only of toilet	Timb-05	22.93	PGK/ material		9	pieces/ toilet					
7	Toilet	replacement of seat & floor only of toilet											
8	Toilet	replacement of whole toilet											
9	Lodge	replacement of lock of lodge only	Lock-01	29.99	PGK/ material		1	set/ lodge					
10	Lodge	replacement of whole lodge (2 rooms)											
11	Lodge	replacement of whole lodge (4 rooms)											
12	Shelter	replacement of whole shelter											
13	Bridge (small size)	replacement of whole bridge (small size)	Timb-03	257.04	PGK/ material		4	timber/ bridge					
14	Bridge (medium size)	replacement of whole bridge (medium size)	Timb-03	257.04	PGK/ material		12	timber/ bridge	Timb-05	22.93	PGK/ material	2.571428571	timber/ bridge
15	Bridge (big size)	replacement of whole bridge (big size)											
16	Information center	replacement of whole center											

Material cost estimation													
No.	Sub category	Type of repair/ replacement	Painting										
			code	unit price	unit	required amount for material-1	unit	required amount for material-2	unit	total amount	unit		
1	Sign Board	replacement of board only	Paint-01	54.99	PGK/ litter	0.4275	m2	0.04275	litter/sign board				
2	Sign Board	replacement whole sign board	Paint-01	54.99	PGK/ litter	0.4275	m2	0.04275	litter/sign board	0.7697	m2	0.07697	litter/sign board
3	Distance pile	replacement whole distance pile	Paint-01	54.99	PGK/ litter	0.1963	m2	0.01963	litter/pile				0.01963
4	Car parking	replacement of whole car stop pile	Paint-01	54.99	PGK/ litter	0.3848	m2	0.03848	litter/pile				0.03848
5	Toilet	replacement of seat only											
6	Toilet	replacement of floor only of toilet	Paint-01	54.99	PGK/ litter	8.19	m2	0.819	litter/toilet				0.819
7	Toilet	replacement of seat & floor only of toilet											
8	Toilet	replacement of whole toilet											
9	Lodge	replacement of lock of lodge only											
10	Lodge	replacement of whole lodge (2 rooms)											
11	Lodge	replacement of whole lodge (4 rooms)											
12	Shelter	replacement of whole shelter											
13	Bridge (small size)	replacement of whole bridge (small size)											
14	Bridge (medium size)	replacement of whole bridge (medium size)	Paint-01	54.99	PGK/ litter	39.96	m2	3.996	litter/bridge	7.605	m2	0.7605	litter/bridge
15	Bridge (big size)	replacement of whole bridge (big size)											
16	Information center	replacement of whole center											

Material cost estimation												
No.	Sub category	Type of repair/ replacement	Cost									
			Material-1	Material-2	Subtotal of material 1 & 2	Paint cost	Sub-total Material cost	Implementation: Direct or Contract	Processing cost	Tool cost (10% of material cost)	Total Matrial cost	unit
1	Sign Board	replacement of board only	10.71142857	0	10.71142857	2.3508	13.0622	Direct	175.0000	1.3062	189.3684	PGK/ sign board
2	Sign Board	replacement whole sign board	10.71142857	23	33.71142857	6.5834	40.2948	Direct	218.7500	4.0295	263.0743	PGK/ sign board
3	Distance pile	replacement whole distance pile	5.75	21.5	27.25	1.0795	28.3295	Direct	11.6666	2.8330	42.8291	PGK/ pile
4	Car parking	replacement of whole car stop pile	11.5	0	11.5	2.116	13.616	Direct	11.6666	1.3616	26.6442	PGK/ pile
5	Toilet	replacement of seat only	1000	0	1000	0	1000	Direct	0.0000	100.0000	1,100.0000	PGK/ toilet
6	Toilet	replacement of floor only of toilet	206.37	0	206.37	45.0368	251.4068	Direct	87.5000	25.1407	364.0475	PGK/ toilet
7	Toilet	replacement of seat & floor only of toilet						Direct			1,464.0475	PGK/ toilet
8	Toilet	replacement of whole toilet						Contract				
9	Lodge	replacement of lock of lodge only	29.99	0	29.99		29.99	Direct	0.0000	2.9990	32.9890	PGK/ lodge
10	Lodge	replacement of whole lodge (2 rooms)						Contract				
11	Lodge	replacement of whole lodge (4 rooms)						Contract				
12	Shelter	replacement of whole shelter						Contract				
13	Bridge (small size)	replacement of whole bridge (small size)	1028.16	0	1028.16	0	1028.16	Direct	29.1666	102.8160	1,160.1426	PGK/ bridge
14	Bridge (medium size)	replacement of whole bridge (medium size)	3084.48	58.96285714	3143.442857	261.5599	3405.0028	Direct	58.3334	340.5003	3,803.8365	PGK/ bridge
15	Bridge (big size)	replacement of whole bridge (big size)						Contract				
16	Information center	replacement of whole center						Contract				

(2) Material processing cost

Cost estimation of processing of material											
(Direct implementation only)											
Wood processing, painting, assembling, etc.											
unit cost of supervisor: 250 PGK/ man-day											
unit cost of man-power: 50 PGK/ man-day											
unit cost of fuel: 18.75 PGK/ work day											
No.	Sub category	Type of repair/ replacement	Man power of Carpenter			Cost					
			Work efficient	unit	work day of carpenter	Required man-power/ party	Man power	Supervisor	Total	unit	Remarks
1	Sign Board	replacement of board only	1	board/ party-day	1	1	50.0000	125.0000	175.0000	PGK/ sign board	man-power includes carving text
2	Sign Board	replacement whole sign board	0.8	board/ party-day	1.25	1	62.5000	156.2500	218.7500	PGK/ sign board	man-power includes carving text
3	Distance pile	replacement whole distance pile	15	pile/ party-day	0.066666667	1	3.3333	8.3333	11.6666	PGK/ pile	
4	Car parking	replacement of whole car stop pile	15	pile/ party-day	0.066666667	1	3.3333	8.3333	11.6666	PGK/ pile	
5	Toilet	replacement of seat only	0	seat/ party-day	0	0	0.0000	0.0000	0.0000	PGK/ toilet	
6	Toilet	replacement of floor only of toilet	2	floor/ party-day	0.5	1	25.0000	62.5000	87.5000	PGK/ toilet	
7	Toilet	replacement of seat & floor only of toilet	2	floor/ party-day	0.5	1	25.0000	62.5000	87.5000	PGK/ toilet	
8	Toilet	replacement of whole toilet							0.0000		
9	Lodge	replacement of lock of lodge only	0	lock/ man	0	0	0.0000	0.0000	0.0000	PGK/ lodge	
10	Lodge	replacement of whole lodge (2 rooms)							0.0000		
11	Lodge	replacement of whole lodge (4 rooms)							0.0000		
12	Shelter	replacement of whole shelter							0.0000		
13	Bridge (small size)	replacement of whole bridge (small size)	6	bridge/ party-day	0.166666667	1	8.3333	20.8333	29.1666	PGK/ bridge	
14	Bridge (medium size)	replacement of whole bridge (medium size)	3	bridge/ party-day	0.333333333	1	16.6667	41.6667	58.3334	PGK/ bridge	
15	Bridge (big size)	replacement of whole bridge (big size)							0.0000		
16	Information center	replacement of whole center							0.0000		

* Supervisor's unit is calculated as 1/2 of man-power

(3) Construction cost (at the site)

Cost estimation of construction/ installation/ repair of facility (Direct implementation only)											
								unit cost of supervisor	250 PGK/ man-day		
								unit cost of man-power	50 PGK/ man-day		
								unit cost of fuel	18.75 PGK/ work day		
No.	Sub category	Type of repair/ replacement	Man power of Carpenter		Required man-power/ party	work day (day/ material)	Cost			unit	
			Work efficient	unit			Man power	Superv'isour*	Fuel cost for vehicle		
1	Sign Board	replacement of board only	5	board/ party-day	2	0.2	20.0000	25.0000	3.75	48.7500	PGK/ sign board
2	Sign Board	replacement whole sign board	3	board/ party-day	2	0.333333333	33.3333	41.6667	6.25	81.2500	PGK/ sign board
3	Distance pile	replacement whole distance pile	15	pile/ party-day	2	0.066666667	6.6667	8.3333	1.25	16.2500	PGK/ pile
4	Car parking	replacement of whole car stop pile	10	pile/ party-day	2	0.1	10.0000	12.5000	1.875	24.3750	PGK/ pile
5	Toilet	replacement of seat only	6	seat/ party-day	2	0.166666667	16.6667	20.8333	3.125	40.6250	PGK/ toilet
6	Toilet	replacement of floor only of toilet	3	floor/ party-day	2	0.333333333	33.3333	41.6667	6.25	81.2500	PGK/ toilet
7	Toilet	replacement of seat & floor only of toilet	2	floor/ party-day	2	0.5	50.0000	62.5000	9.375	121.8750	PGK/ toilet
8	Toilet	replacement of whole toilet									
9	Lodge	replacement of lock of lodge only	10	lock/ man	1	0.1	5.0000	12.5000	1.875	19.3750	PGK/ lodge
10	Lodge	replacement of whole lodge (2 rooms)									
11	Lodge	replacement of whole lodge (4 rooms)									
12	Shelter	replacement of whole shelter									
13	Bridge (small size)	replacement of whole bridge (small size)	6	bridge/ party-day	2	0.166666667	16.6667	20.8333	3.125	40.6250	PGK/ bridge
14	Bridge (medium size)	replacement of whole bridge (medium size)	3	bridge/ party-day	2	0.333333333	33.3333	41.6667	6.25	81.2500	PGK/ bridge
15	Bridge (big size)	replacement of whole bridge (big size)									
16	Information center	replacement of whole center									

* Supervisor's inut is calculated as 1/2 of man-power

(3)-1 Fuel cost

Calculation of fuel cost			
Driving distance	50	km/work day	CEPA office-VNP round trip & inside of VNP
Fuel consumption efficient	8	km/ litter	Consideration of road conditon based on official data by TOYOTA
Fuel consumption	6.25	litter/ work day	
unit price of fuel	3	PGK/ litter	Market research, Octover 2015
Cost of fuel	18.75	PGK/ work day	

[2] Contract basis implementation

Estaimation of facility constructed by contractor						
Basis						
(1) Quotation of Information Center						
PGK, without GST						
	Category	Cost	Ratio			
	Material cost	63,098	100.00%			
	Contruction cost	215,562	341.63%			
	Total Cost	278,660	441.63%			
(2) Material cost estimation based on area size comparison between Information Center and other facilities						
	Type of Facility	Size				Material Cost (PGK)
		Length (m)	Width (m)	Area (m ²)	Ratio (%)	
	replacement of whole toilet	1.8	1.8	3.24	3.24	4,088
	replacement of whole lodge (2 rooms)	3	3	9	9.00	11,358
	replacement of whole lodge (4 rooms)	6	5	30	30.00	28,394
	replacement of whole shelter	3	4	12	12.00	15,144
	replacement of bridge (big size)	12	1.2	14.4	14.40	18,172
	replacement of whole center	10	10	100	100.00	63,098
Unit cost of small facility is expensive than big facility.						
Therefore, the material cost shall be modified based on size of facility.						
	Type of Facility	Ratio (%)	Correction coefficient	Modified material cost		
	replacement of whole toilet	3.24	2.0	4,088		
	replacement of whole lodge (2 rooms)	9.00	2.0	11,358		
	replacement of whole lodge (4 rooms)	30.00	1.5	28,394		
	replacement of whole shelter	12.00	2.0	15,144		
	replacement of bridge (big size)	14.40	2.0	18,172		
	replacement of whole center	100.00	1.0	63,098		
(3) Coefficient based on complexity of construction						
Construction of Information center is the most complicated.						
	Type of Facility	Coefficient	Rario *1			
	replacement of whole toilet	60%	204.98%			
	replacement of whole lodge (2 rooms)	100%	341.63%			
	replacement of whole lodge (4 rooms)	100%	341.63%			
	replacement of whole shelter	80%	273.30%			
	replacement of bridge (big size)	50%	170.82%			
	replacement of whole center	100%	341.63%			
*1: Ratio of construction cost compaired with material cost						
(4) Total cost of facility (excluding GST)						
No.	Type of Facility	Material cost	Construction cost	Total cost	unit	
8	replacement of whole toilet	4,088	8,380	12,468	PGK/ toilet	
10	replacement of whole lodge (2 rooms)	11,358	38,802	50,160	PGK/ lodge	
11	replacement of whole lodge (4 rooms)	28,394	97,001	125,395	PGK/ lodge	
12	replacement of whole shelter	15,144	41,389	56,533	PGK/ shelter	
15	replacement of bridge (big size)	18,172	31,041	49,213	PGK/ bridge	
16	replacement of whole center	63,098	215,562	278,660	PGK/ center	

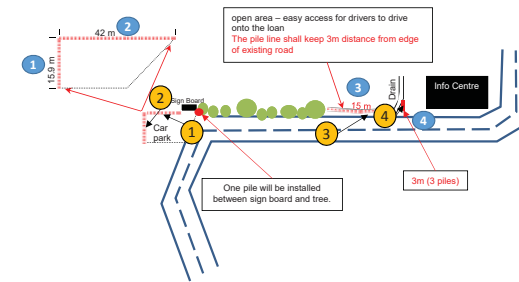
添付資料 2.1.2 Report of renovation of the existing facilities at VNP

Achievements of car stopping piles renewal work

Before installation of new piles
September 22, 2019
CEPA-JICA Project

VNP Car Stop Piles Locations for Repair and Maintenance Work

1. Main Picnic Area



- The PVC piles will be used for this area, because this area is quite artificial. All the exiting piles will be removed and replaced to the new ones.
- The distance between pile to pile is 1m.

Key

- Sign Boards, buildings, etc
- Trees/ vegetation
- xxxxxxx Car stop piles Location
- ② Car stop piles photographs prior to repair/ maintenance work
- ←● Position and directions of taking photos

1. Main picnic area 1/2

Photo-1 (before)



Photo-1 (after)



1. Main picnic area 1/2

Photo-2 (before)



Photo-2 (after)



1. Main picnic area 2/2

Photo-3 (before)

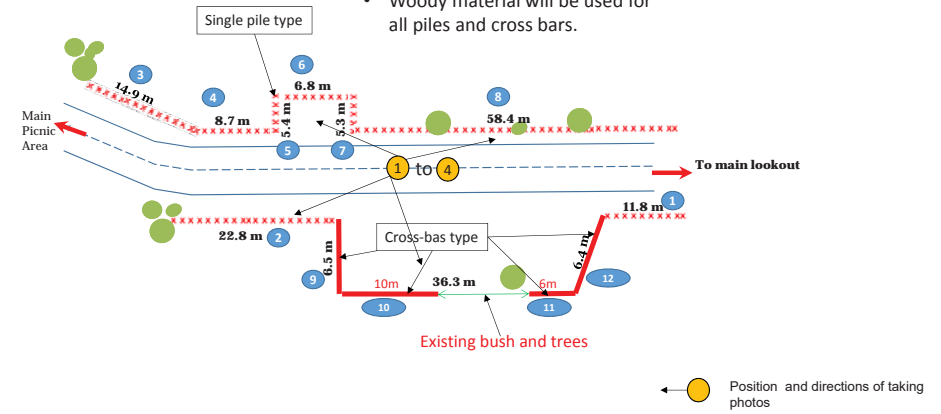


Photo-3 (after)



2. Picnic Site 3

- This area is surrounded by natural trees; therefore, the material of piles shall be fit with in the trees.
- Woody material will be used for all piles and cross bars.



2. Picnic site 3 (1/2)

Photo-1 (before)



Photo-1 (after)



2. Picnic site 3 (1/2)

Photo-2 (before)



Photo-2 (after)



2. Picnic site 3 (2/2)

Photo-3 (before)



Photo-3 (after)



2. Picnic site 3 (2/2)

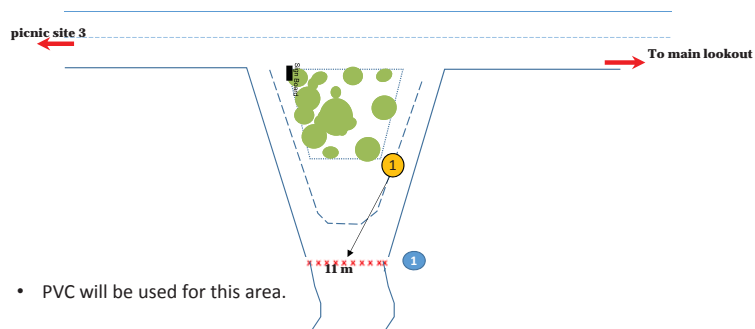
Photo-4 (before)



Photo-4 (after)



3. Camp Site



3. Camp site

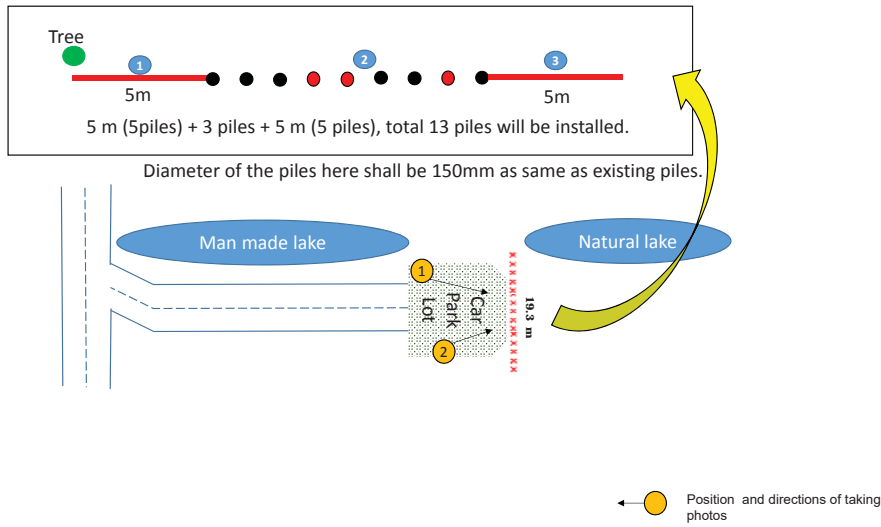
Photo-1 (before)



Photo-1 (after)



4. Lake side



4. Lake site

Photo-1 (before)



Photo-1 (after)



4. Lake site

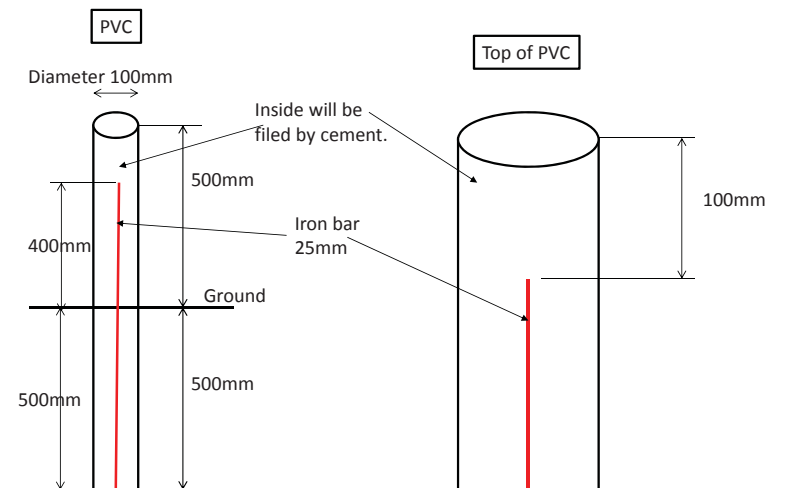
Photo-2 (before)



Photo-2 (after)



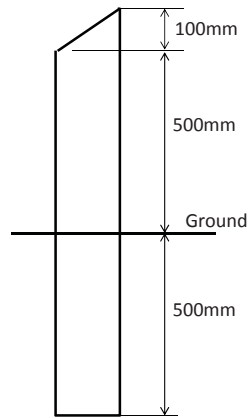
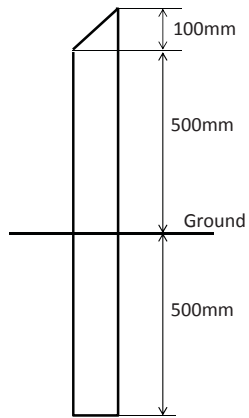
Typical design of pile (PVC type)



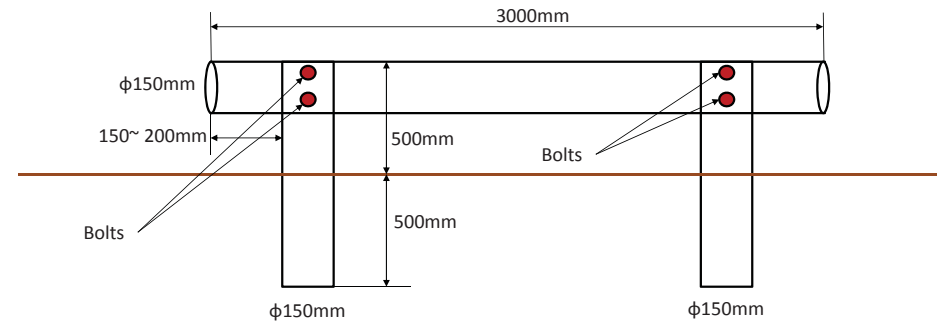
Typical design of pile (Wood type)

Diameter 100mm at other areas

Diameter 150mm at Lake Side



Typical design of pile (Wood Cross Bar type)



Achievements of facility renovation in VNP

Comparison between Before and After of key facilities

November 4, 2016

CEPA-JICA Project

1. Wood bridge at main picnic area

Photo-1 (before)



Old bridge was aged, broken and not appropriate for use. There was a big risk for the visitors to get serious accidents.

Photo-1 (after)



The bridge was strengthened with additional supporting poles with the basement fixed by concrete. Wood flooring was totally replaced and painted. The risk of accident for visitor was eliminated.

2. Distance piles on all 4 tracks (79 distance piles, all tracks 100m each)

Photo-1 (before)



Old piles were aged and no longer functioning. We did a detailed survey, and found only 35 piles remained otherwise disappeared.

Photo-1 (after)



After careful measuring of each 100 m, all piles were replaced by 79 wood poles of stronger structure (30% bigger diameter, corrosion proof paint). Plate was carefully designed and all-weather proof plates were installed.

3. Parking piles innovation

(80 PVC piles and 153 wood poles at **Main picnic area, picnic site 3, camp site, lake site** were installed)

Photo-2 (before) (Main picnic area)



Approx. 70% of parking piles were damaged, disappeared and no longer functioning. Cars freely enter into the lawn area, and destroyed the environment. Some lawn were seriously damaged.

Photo-2 (after) (Main picnic area)



All piles were replaced by 80 PVC poles and 153 wood poles of stronger structure (corrosion proof paint). Poles were fixed with 50 cm depth under ground. No car can enter and damage the lawn area at present.

4. Sign Boards

(23 Sign boards were renovated)

Photo-2 (before) (Main lookout area)



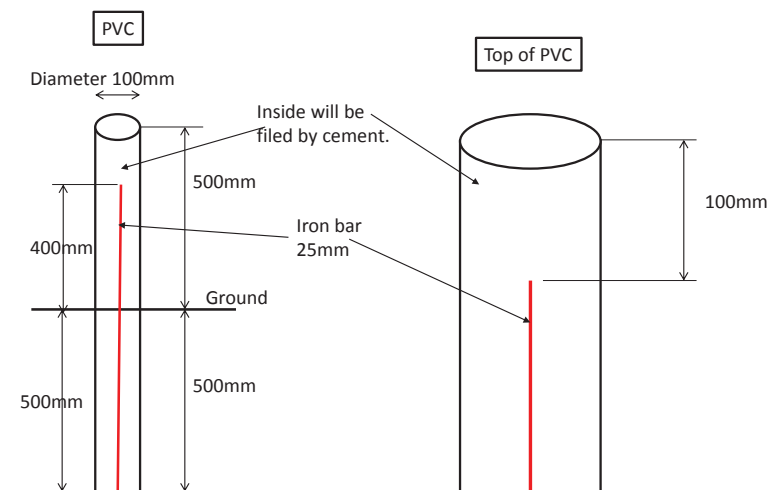
Old sign boards were aged and mostly broken. No visitors could understand the sign.

Photo-2 (after) (Main lookout area)



We replaced 23 sign boards of all-weather corrosion proof materials. Sign board are fully functioning now.

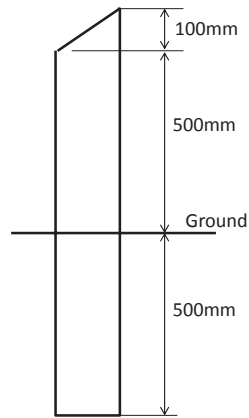
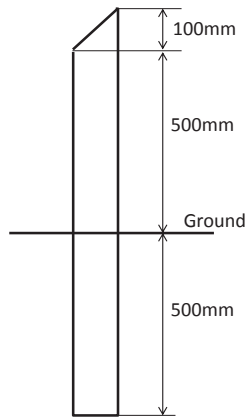
Typical design of car stop pile (1) (PVC type)



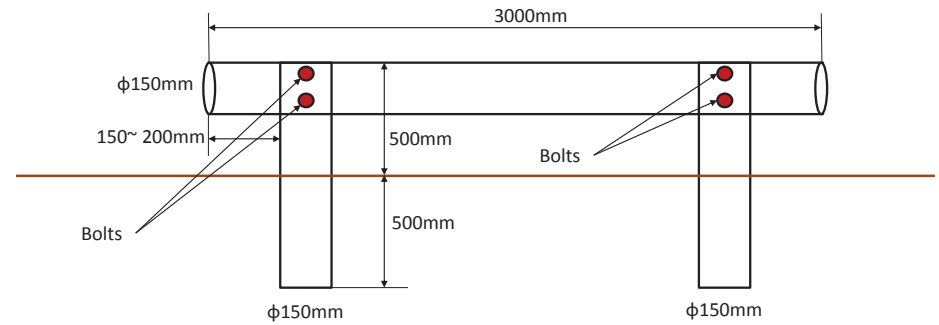
Typical design of ca stop pile (2) (Wood type)

Diameter 100mm at other areas

Diameter 150mm at Lake Side

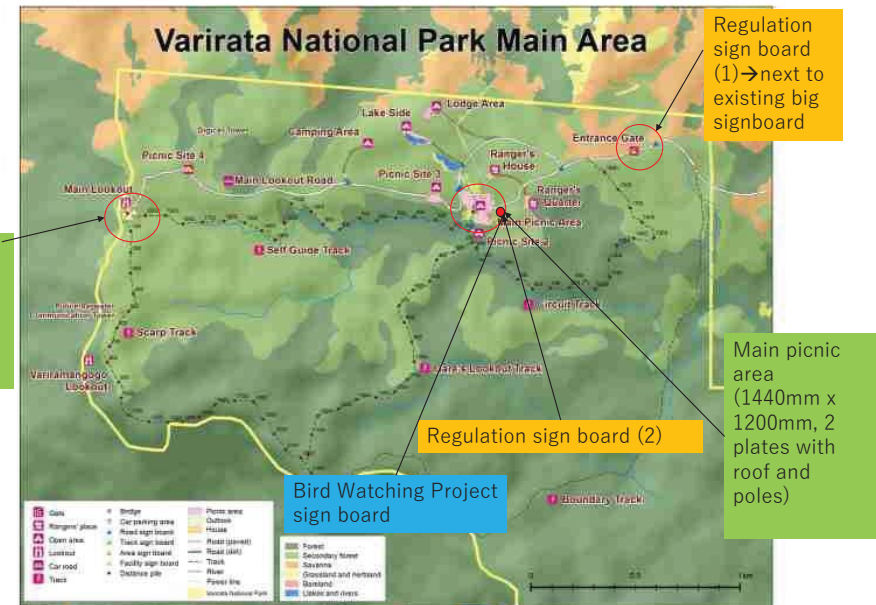


Typical design of car stop pile (3) (Wood Cross Bar type)



Distribution and Photos of Main Signboards in VNP

December, 2016
CEPA-JICA Project



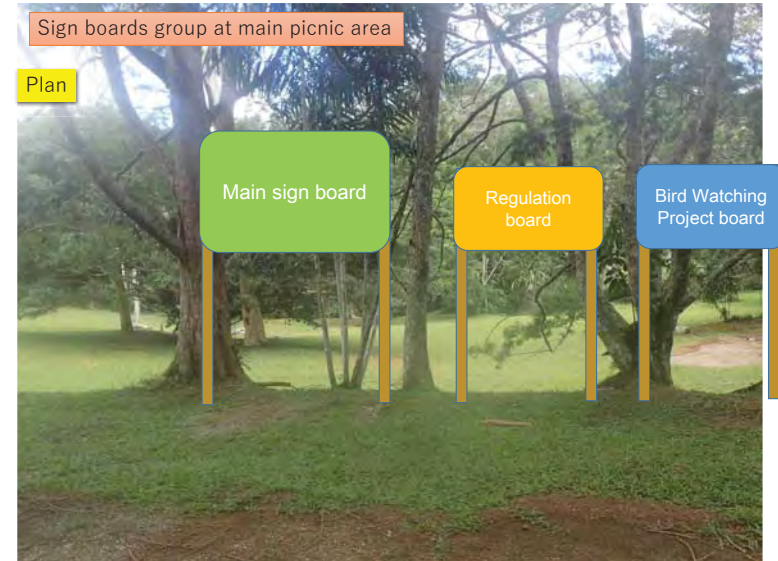
Main lookout

Main signboard (900mm x 750mm, 2 plates with roof and poles)



Sign boards group at main picnic area

Plan



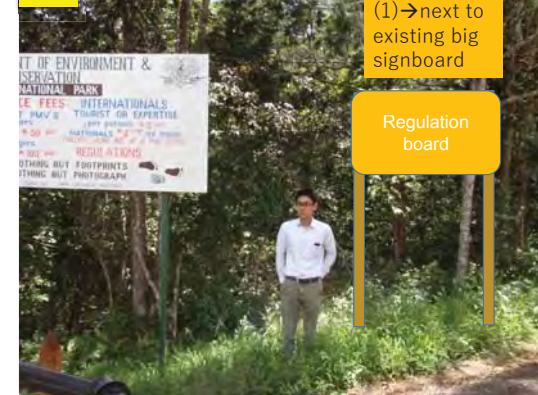
Main Picnic Area (3 major signboards)

Main signboard (1440x1200), Regulation board (2), and Bird watching project board

Achievement



Plan

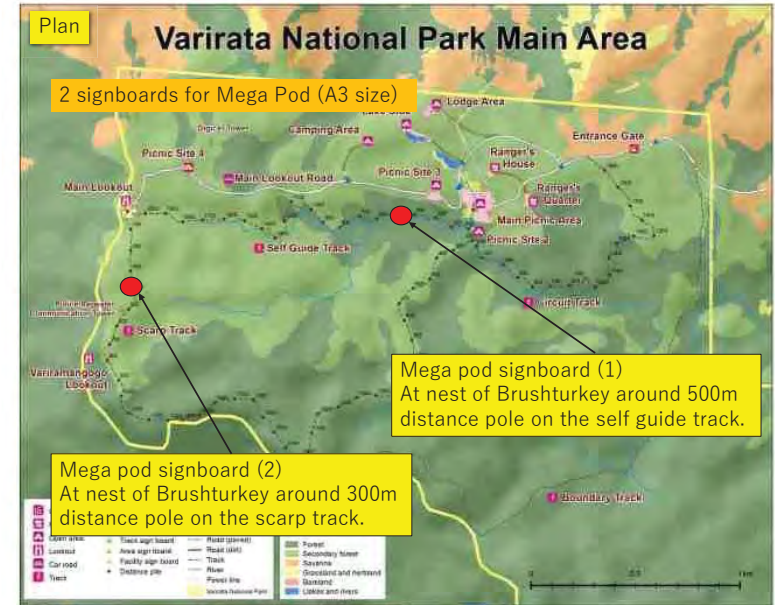


Regulation sign board (1) → next to existing big signboard

Regulation board

Regulation sign board (1) at the toll gage

Achievement



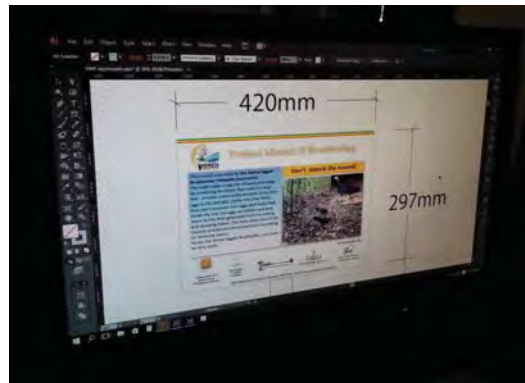
2 signboards for Mega Pod (A3 size)

Mega pod signboard (1)
At nest of Brushturkey around 500m distance pole on the self guide track.

Mega pod signboard (2)
At nest of Brushturkey around 300m distance pole on the scarp track.

Dimensions of Mega pod signboards x 2 – A3 (420mm x 297mm)

Dimensions



Mega pod signboard (1)
At nest of Brushturkey around 500m distance pile on the self guide track.

Achievement



Mega pod signboard (2)
At nest of Brushturkey around 300m distance pole on the scarp track.

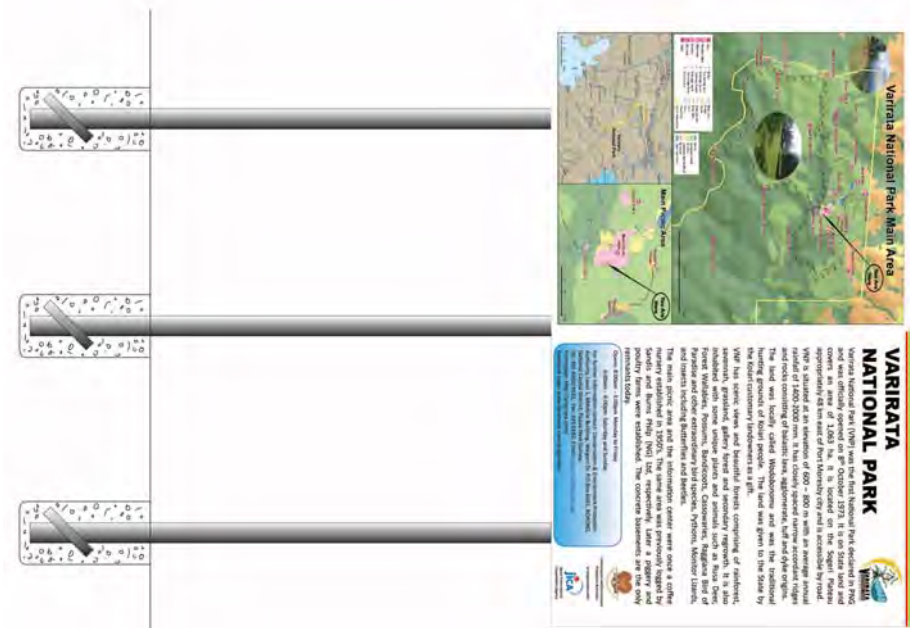
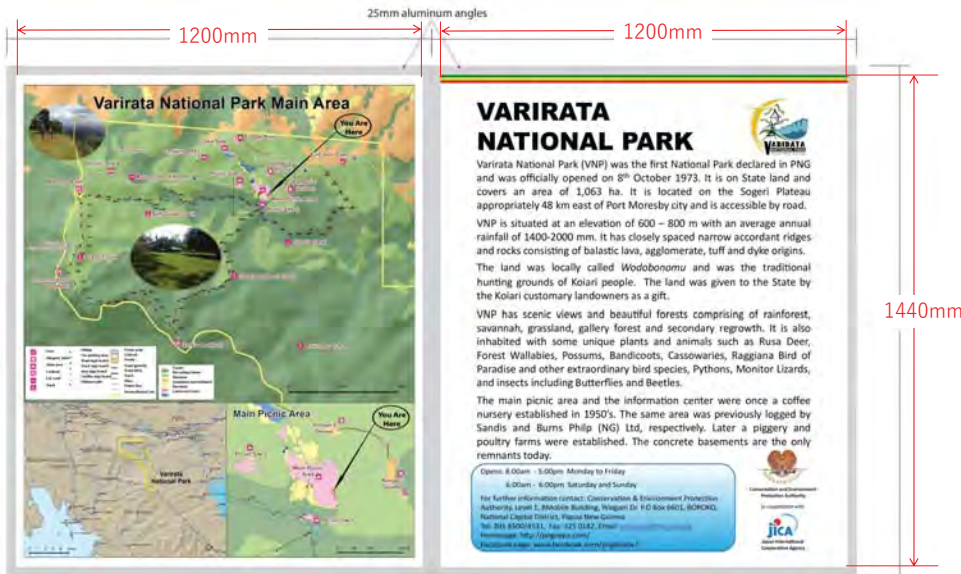
Achievement



PAU Bird Watching signboard, at PAU main entrance near Sogeri Road

For your information only

Achievement





Varirata National Park Rules and Regulations

- Take your litter or rubbish with you
Kisim pipia bilong yu i go wantain yu
- Make fire at permitted place(s) only
Wokim pata long ples ol makim pinis long em
- Pets and feral animals are not allowed in the Park
Itambu long kisim ol animol bilong haus ikam long pak
- Removal or damage of any animals and plants is prohibited
Noken rausim o bagrapim ol animol na plant insait long pak
- Alcohol consumption is not permitted (on road, tracks & main lookout) except in designated places only
Itambu long dring kainkain spak bia nabaut insait long pak

Penalty: K\$500.00

- Safety Tips**
- Please stay on road and track for your own safety
 - Please follow instructions given by the Park Ranger

Let's Conserve Our National Park!
Take nothing but Photographs
Leave nothing but Footprints

In cooperation with
Japan International Cooperation Agency

900mm

1200mm

VARIRATA NATIONAL PARK

The Varirata National Park (VNP) was the first National Park declared on the island of PNG. It was proclaimed on 17 October 1973. It is on Samar Plateau and was officially declared on 1 October 1974. It is located on a saddle by road, covers nearly 48 km east of Port Moresby City, with an average annual rainfall of 1500-2000 mm. It has a core of narrow, narrow, narrow ridges and rocks consisting of basalt, andesite, gabbro and was the terrain by the land was locally and mostly. The land was given to the State by hunting ground/land as a gift.

The Varirata National Park is a beautiful forest consisting of rainforest, VNP has grassland, gallery forest and animals such as Kaka Deer, Pigmy Hog, and many other animals. The park is also rich in biodiversity, with many species of plants, animals and birds. The park is also a source of timber, and other forest products. The park is also a source of water, and other forest products. The park is also a source of water, and other forest products. The park is also a source of water, and other forest products.

Contact: 1. 3255, Sirinumu, Laloki Catchment
2. Conservation and Environment Protection Authority (CEPA)
3. Pacific Adventist University (PAU)
4. Japan International Cooperation Agency (JICA)

Varirata National Park Bird Watching Site



We are the Friends of Varirata!
Let's Join Hands & Work Together
To Protect the Birds of Varirata

Contact:
Conservation & Environment Protection Authority (CEPA)
Tel: 301 4500/4531, Fax: 325 0182, Email: enquiries@dec.gov.pg
Homepage: <http://pngcepa.com/>
Facebook page: www.facebook.com/pngbiodiv/



900mm

In Partnership with

Bird Watching Project in/around VNP, PAU and Sirinumu/Laloki Catchment

420mm x 297mm

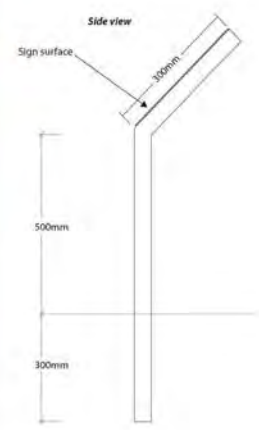
Protect Mound of Brushturkey

Don't disturb the mound!

This mound was made by the **Yellow-legged Brushturkey (*Talegalla fuscirostris*)**. The male makes a big pile of leaves and twigs by scratching the forest floor with his large feet. Females come to the mounds to lay their eggs in the leaf-pile. Unlike the other birds, they don't incubate their eggs with body heat. Inside the pile, the eggs are hidden and kept warm by the heat generated from the rotting and decaying leaves. The male takes care of the mound, and adjusts the temperature by adding or removing leaves. To see the Yellow-legged Brushturkey, you must be very quiet.

In Partnership with

Bird Watching Project in/around VNP, PAU and Sirinumu/Laloki Catchment





Updating facility database

VNP facility management
 July, 2016
 CEPA-JICA Project Prepared

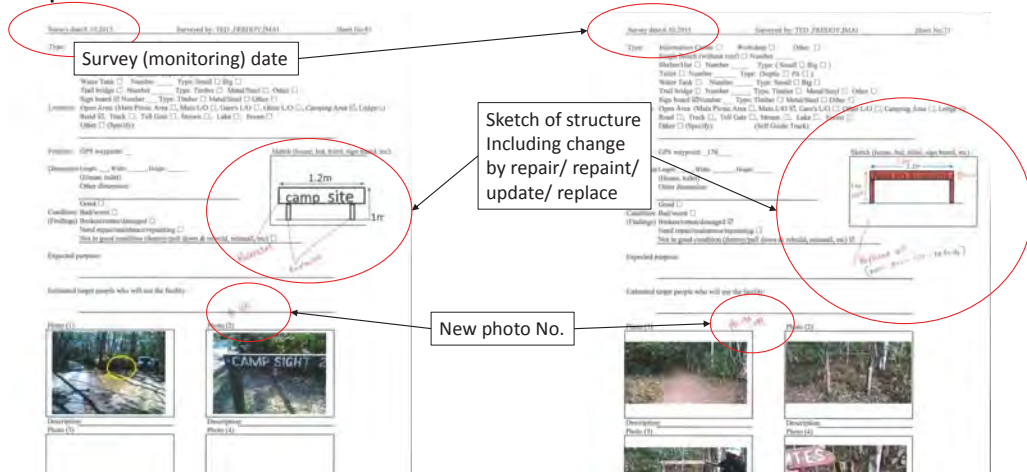
Procedure of updating the database

- At the site
 1. Check the condition of facility
 2. Record on existing profile
 3. Record photos which show condition such as, change, repair, replace conditions
- In the office
 1. Collect photos of updated facilities
 2. Resize photos in size of 1024 x 768 pixels and save in a specific holder
 3. Add one page next to the existing sheet of profile
 4. Fill necessary data

Updating activities at the site

- Case 1: repair, repaint, replace
 - Record on hard copy paper of the previous sheet [Point]
 - What parts were repaired?
 - How?
 - Current condition: size (measured record), condition (narratively record)
 - →with sketch, memo
- Case 2: newly set up
 - Fill out the full sheet

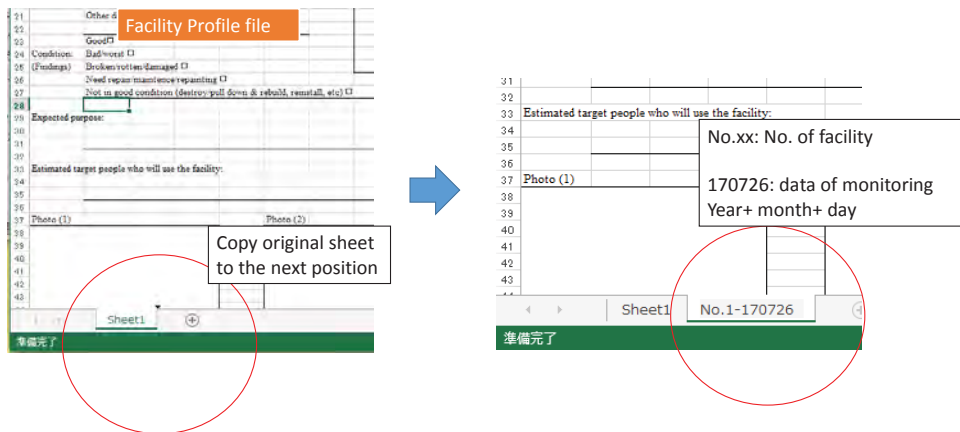
Example of records on hard copy paper of previous sheet



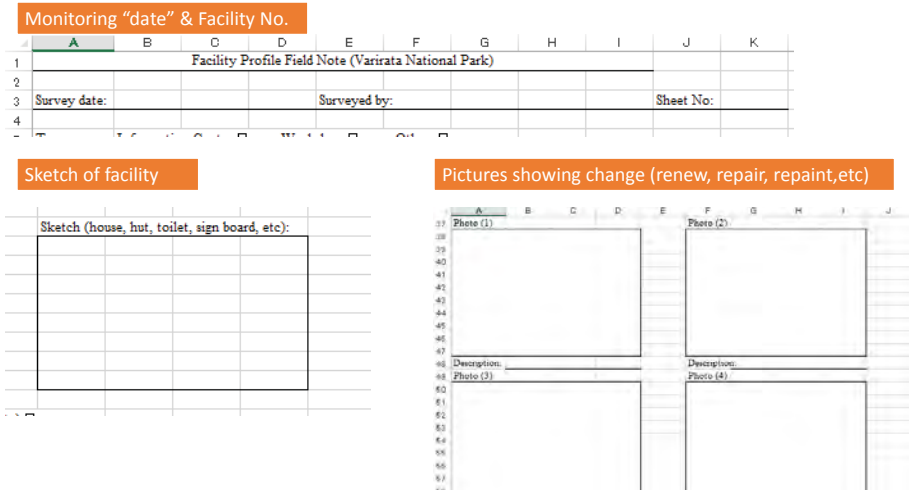
1. Collect photos of updated facilities &
2. Resize photos in size of 1024 x 768 pixels and save in a specific holder



Add one page next to the existing sheet of profile



Fill necessary data (Important information)



Example of monitoring format (Excel file)

New dimension shall be described here
 Dimension: Length: 3m, Width: 0.3m, Height: 1.5m

Condition shall be described here
 Monitoring results: Crack on timber was filled and repainted.

New photos by monitoring
 Photos shall show repair/repaint/replace conditions

Update list of facility

4 columns are added to record results and plan of monitoring.

Monitoring will be implemented twice a year

Twice a year
 August, February

Results and date of updating
 Date: year and month

Results of Monitoring

Schedule of next Monitoring

Circumference (m)	Area (m ²)	Damage level	Update/repair	Date of update/repair	Monitoring (August 2016)	Monitoring (February 2017)
		Slightly damage	Repainted	April 2016	good condition	
		Good condition				
		Good condition				
		Replacement is required or broken completely				
		Good condition				
		Good condition				
		Slightly damage				
		Slightly damage				
		Slightly damage				
		Slightly damage				
		Good condition				

Purpose of Updating list

- Recording history of each facility
- Specify not-updated facilities (= update required facilities)
- Specify next timing of updating

→ This is management of facility

End of presentation

Thanks for listening!

添付資料 2.1.3 VNP Guide Map

Varirata National Park

Varirata National Park (VNP) was the first National Park declared in PNG on 10th December 1969 and was officially opened on 18th October 1973. It is on State land and covers an area of 1,063 ha. It is located on the Sogerí Plateau appropriately 48 km east of Port Moresby city and is accessible by road.

VNP is situated at an elevation of 600 – 800 m with an average annual rainfall of 1400-2000 mm. It has closely spaced narrow accordant ridges and rocks consisting of balastic lava, agglomerate, tuff and dyke origins.

The land was locally called *Wodobonomu* and was the traditional hunting grounds of Koiari people.

VNP has scenic views and beautiful forests comprising of rainforest, savannah, grassland, gallery forest and secondary regrowth. It is also inhabited with some unique plants and animals such as Rusa Deer, Forest Wallabies, Possums, Bandicoots, Cassowaries, Raggiana Bird of Paradise and other extraordinary bird species, Pythons, Monitor Lizards, and various insects including Butterflies and Beetles.

The main picnic area and the information center were once a coffee nursery established in 1950's. The same area was previously logged by Sandis and Burns Philp (NG) Ltd, respectively. Later a piggery and poultry farms were established. The concrete basements are the only remnants today.

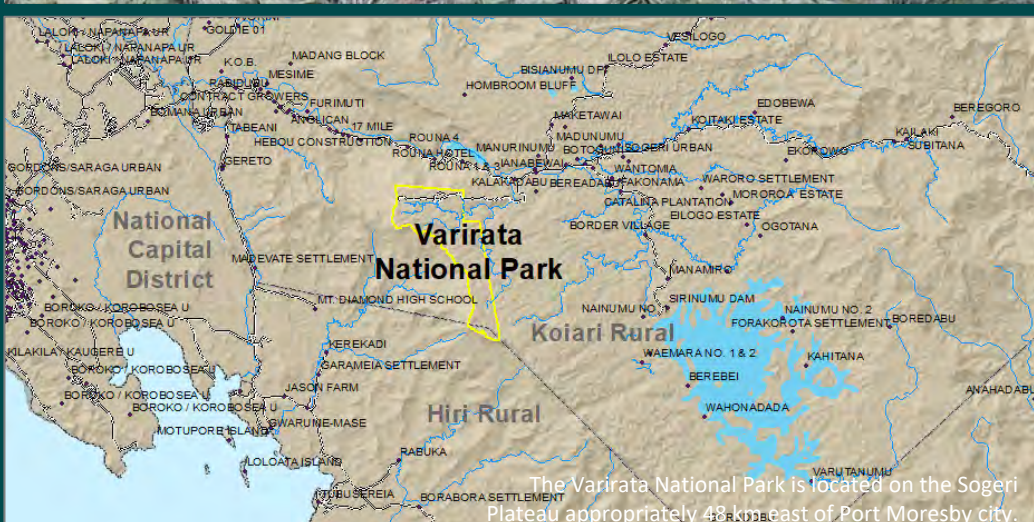
Tracks of Varirata National Park

Self Guide Track – This is one of the common tracks which connect the main picnic area and main lookout. It is one of the most easily accessible tracks and mostly frequented by visitors. Many different kinds of wildlife can be seen whilst walking along the track. It is also full of bird life and enjoyed by many bird watchers who intend to visit VNP. The track also runs parallel to the Nairogo Creek. The sacred and shy Forest Bittern (*Zonodius heliosylus*) and the small Azure Kingfisher (*Ceyx azureus*) can be seen during the stroll along the track.

Gare's Lookout Track – This is the shortest track but is quite steep, which connects the main picnic area and Gare's lookout. It starts from the main picnic area across the Nairogo Creek and diverts from the Circuit Track. It takes a slow stroll along the ridge leading towards the Gare's lookout. The first Koiari-tree house was built along this track in the early 1960's. The scenic view from the Gare's lookout is breath taking and ideal for photography fanatics.

Circuit Track – The track has an array of vegetation types including the natural rainforest, secondary regrowth, savannah and grassland. You can also enjoy watching many different birds within those forest types. It starts from the main picnic area and ends at the main VNP road, few distance from the toll gate. It is the most exciting track with the meandering streams and drainage systems, which you will cross on wooden bridges whilst walking along the track.

Scarp Track – This track connects the main lookout and Gare's lookout. The track is long covering approximately 2km. It is steep in few places along the track but the climb is not that difficult. The forest is dominant with Fagaceae trees (*Lithocarpus* and *Nothofagus*) on the ridges, which you tend to see and hear beautiful calls of the common White Cockatoo (*Kau* in local Koiari dialect). You will enjoy seeing the *Kau* feeding on the Fagaceae nuts.



EMERGENCY COMMUNICATIONS INFORMATION

Mobile/Satellite Phones: You may not be in network range in some areas of the Varirata National Park. Please contact CEPA for further information; Tel: +675 301 4500/4531 Email: enquires@dec.gov.pg

Conservation and Environment Protection Authority (CEPA)

Address: P.O Box 6601, Boroko, National Capital District, Papua New Guinea
Phone: (+675) 301-4500 Fax: (+675) 325-0182
Facebook page: <https://www.facebook.com/pngbiodiv/>

This Guide Map was produced through the activities of CEPA-JICA Biodiversity Project (2015-2020), which was the joint initiative between the governments of PNG and Japan for the revitalization of Varirata National Park.

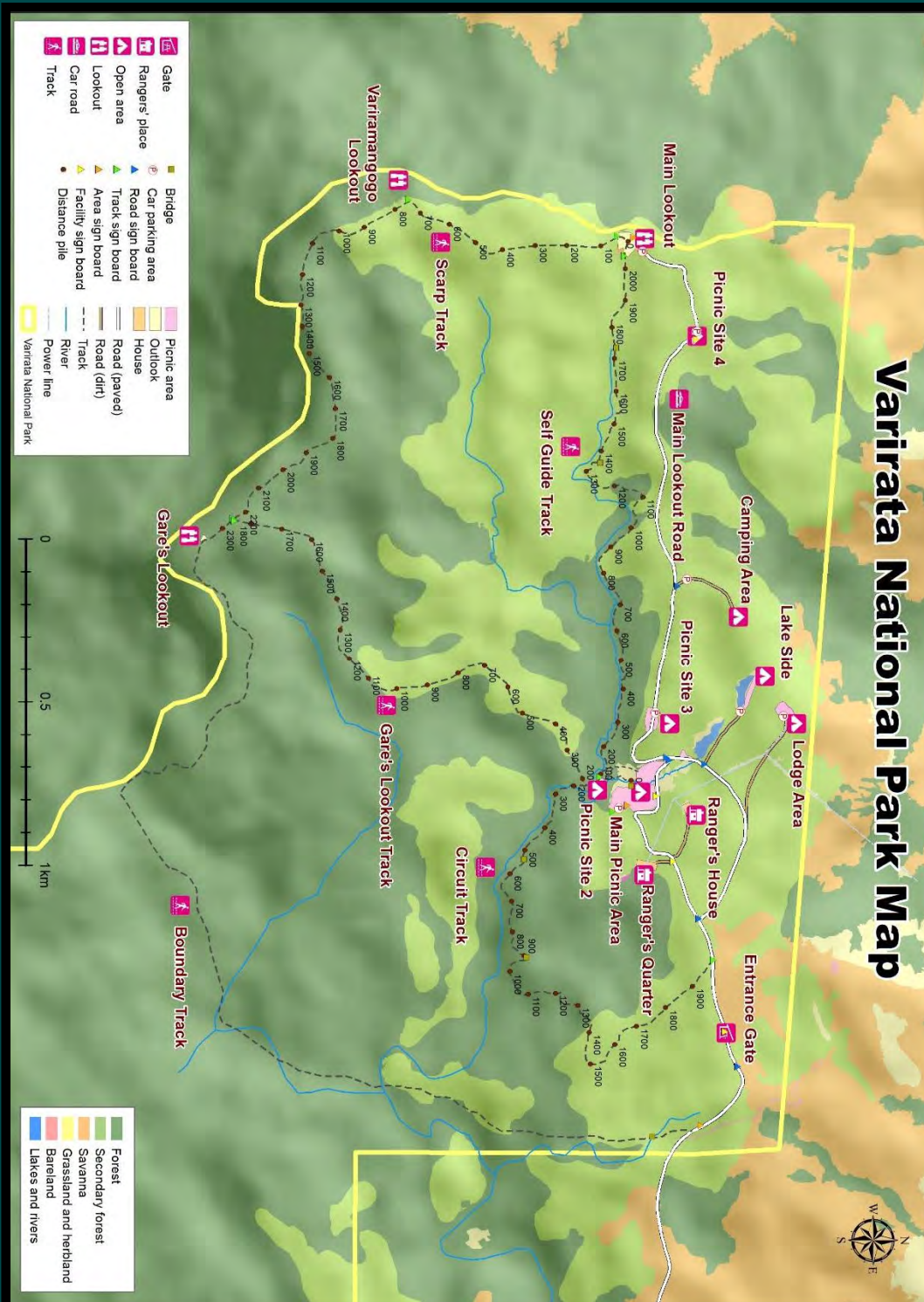


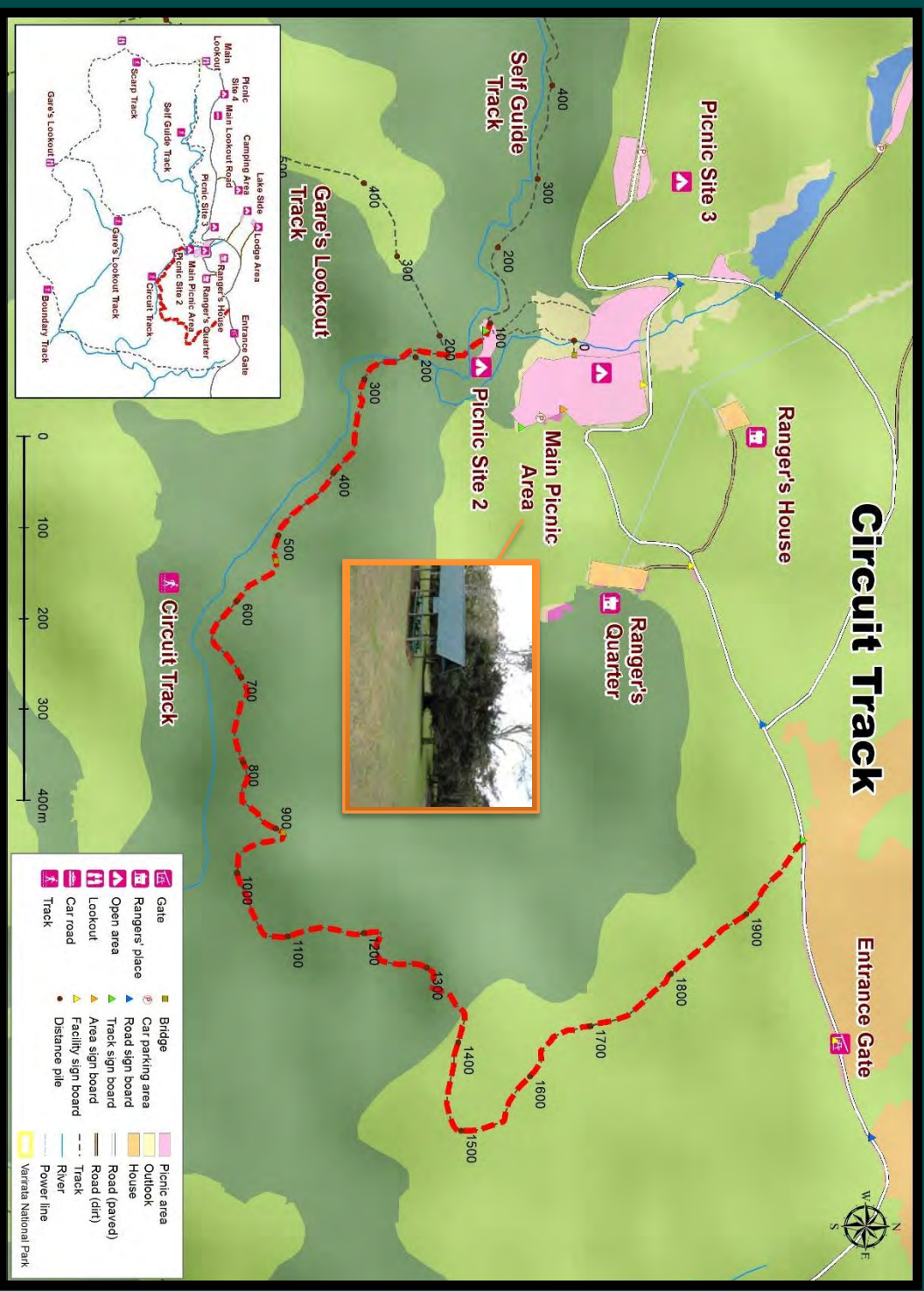
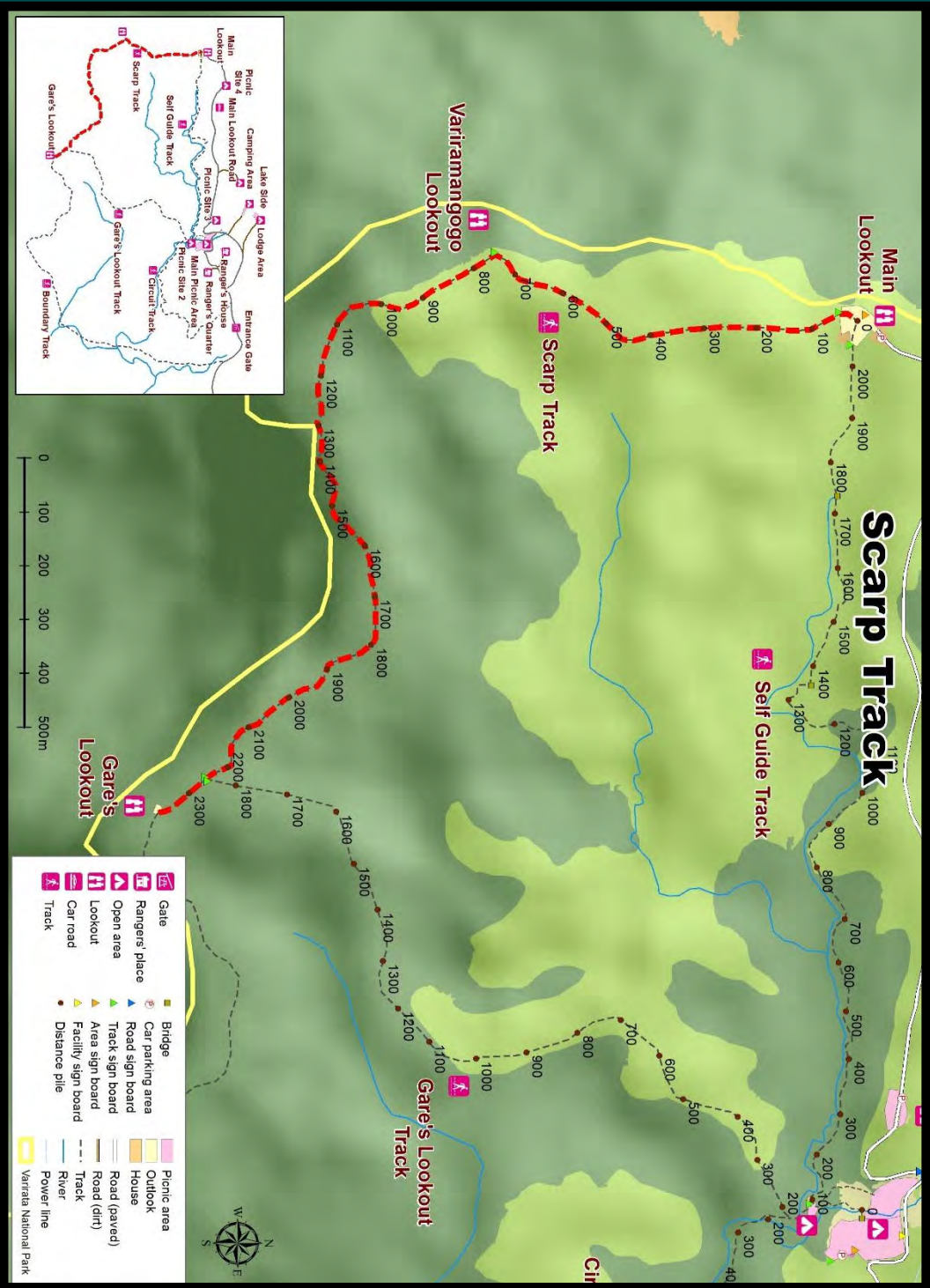
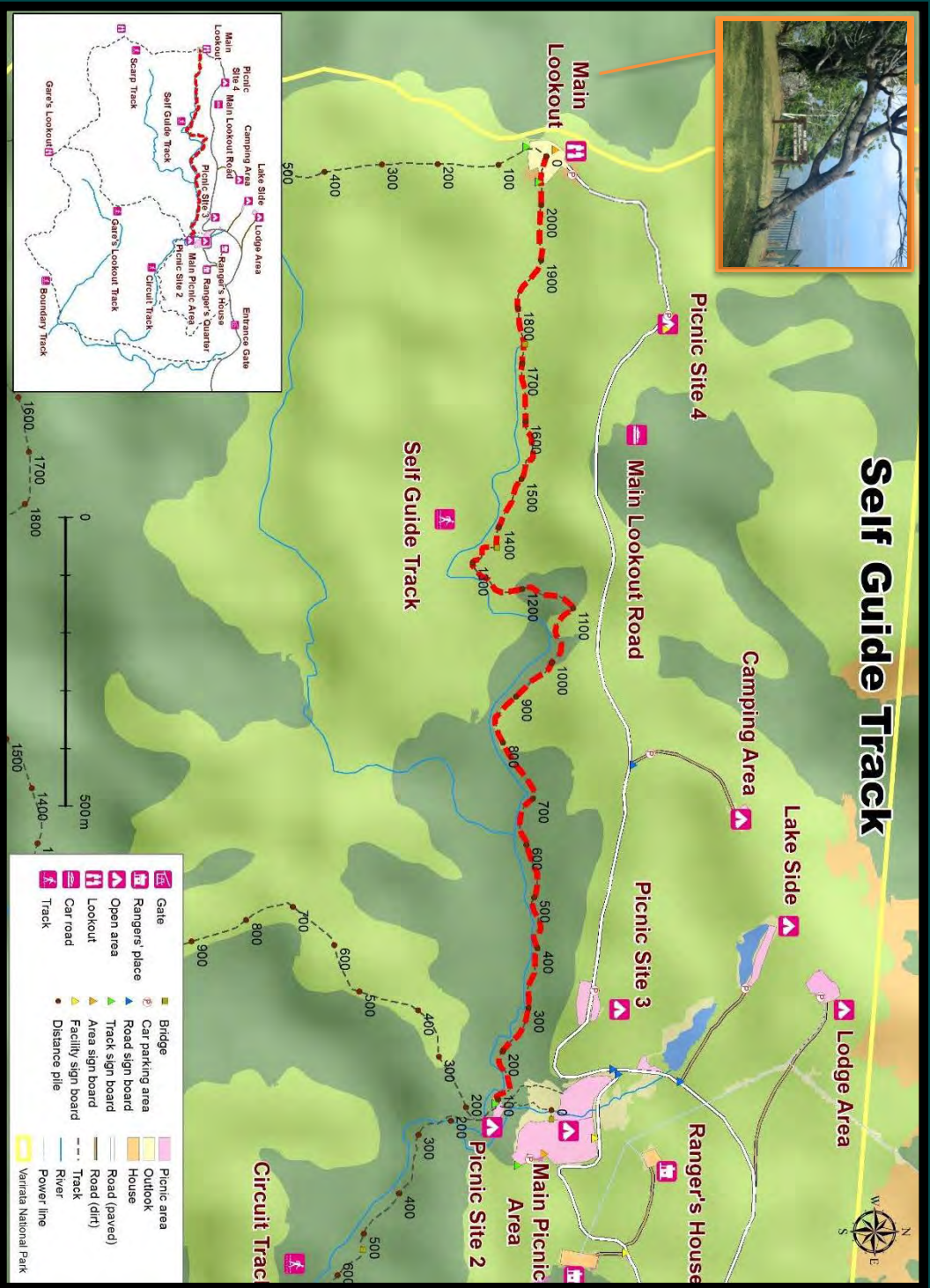
Varirata National Park Guide Map

2nd Edition - 2020

Basic Information of the Varirata National Park

Location:	Sogerí Plateau, Central Province, Papua New Guinea (near Port Moresby city)
Area:	1,063 ha
Opens:	8:00 am – 5:00 pm from Monday to Friday 6:00 am – 6:00 pm from Saturday and Sunday <i>* It may be changed without notice.</i>
Entrance Fee:	Adults – Citizen: K5.00, Non-citizen: K10.00 Students (with ID) – Citizen: K4.00, Non-citizen: K8.00 Children (3-14 yrs.) – Citizen: K3.00, Non-citizen: K6.00
Foundation:	18 th October 1973





C-2 インフォメーションセンターコンプレックスの 整備

各活動コンポーネントの概要及び主要な成果品 インフォメーションセンターコンプレックスの整備

1. 背景及び概要

プロジェクト開始時にバリラタ国立公園の施設について調査したところ、公園内のインフォメーションセンターは老朽化が進み使用不可能な状況であり、そのためインフォメーションセンターが担っていた機能は完全に失われていることが判明した。

公園を回復させ更に将来に渡って発展させるためには、老朽化したインフォメーションセンターの修繕もしくは改築、新たなインフォメーションセンターの建設、周辺整備により、公園機能を充実させるなどが必要であった。そのためプロジェクトでは、施設整備のマスタープランとして「Information Center Complex 基本計画」を作成した。本基本計画に基づき、旧インフォメーションセンターの改修、新インフォメーションセンターの建築を含めたインフォメーションセンターコンプレックスの整備支援を行った。

2. 目的

インフォメーションセンターコンプレックスの整備を行い、それによる公園機能の回復及び拡充を図る。

3. 活動内容

- (1) 基礎調査の実施
- (2) 新 IC 建設許可手続き
- (3) 入札図書を作成
- (4) 建設業者の決定
- (5) 工事監理
- (6) 新 IC 竣工
- (7) ウッドデッキ工事
- (8) 展示工事

4. 活動経緯と実績

- (1) 基礎調査の実施

2016年10月～2017年1月 添付資料	➤ 既存施設の状況、インフラ、敷地の形状と地盤、法規制、土地の所有権の確認とインフォメーションセンターの建設に向けた条件について調査を行った。
--------------------------	---

2.2.1	
2017年1月 ～3月 添付資料 2.2.2	➤ Information Center Complex の基本計画を作成した。

(2) 新 IC 建設許可手続き

2017年2月	➤ Department of Works および Papua New Guinea Fire Service に建設許可手続きを開始した。
---------	--

(3) 入札図書の作成

2017年4月 ～6月	➤ 2017年4月から入札図書の作成を行った。
----------------	-------------------------

(4) 建設業者の決定

2017年6月 添付資料 2.2.3 及び 2.2.4	<p>➤ 現地業者を訪問し、その実績、能力を調査した上で、入札に招待する建設業者4社をショートリストした。</p> <p>➤ 2017年6月6日に新 IC の建設にかかる入札を JICA パプアニューギニア事務所で行い、AES 社と Rhodes PNG 社が応札した。Rhodes 社は予定価格内で落札し、7月17日付で JICA と契約した。</p>
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(5) 工事監理

2017年9月 ～年10月 添付資料 2.2.5	<p>➤ 2017年9月に建設許可の申請を行った。</p> <p>➤ 2017年10月に建築許可を受領した。</p>
2017年11 月～2018年 1月 添付資料 2.2.6	<p>➤ 2017年11月に鉄骨組立を開始した。</p> <p>➤ 2017年12月に鉄骨組立の中間検査を行った。</p> <p>➤ 2018年1月に鉄骨組立が完了した。</p>
2018年2月 ～5月 添付資料 2.2.7 及び 2.2.8	<p>➤ 2018年3月に工期を延長するための第1回目の変更契約を取り交わした。</p> <p>➤ 2018年5月に工期を延長するための第2回目の変更契約を取り交わした。</p>

(6) 新 IC 竣工

2018年5月 添付資料 2.2.9	➤ 2018年5月25日に竣工し、26日に引渡しを行った。
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(7) ウッドデッキ工事

2017年7月 ～2018年6 月 添付資 2.2.6	➤ 旧インフォメーションセンター整備のための材料を調達した。 ➤ 旧インフォメーションセンターの屋根及び外壁を整備した。
2018年7月 添付資料 2.2.10及び 2.2.11	➤ ウッドデッキの設計図を最終化した。 ➤ ウッドデッキおよび関連工事について現地再委託先と契約した。
2018年7月 ～10月 添付資料 2.2.6	➤ ウッドデッキおよび旧インフォメーションの整備を行った。

(8) 展示工事

2018年8月 ～10月	➤ 新インフォメーションセンターの展示デザインを最終化した。 ➤ 壁紙が印刷され、新インフォメーションセンターの内装工事を行った。
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5. 評価

(1) 成果到達度の評価

評価指標	指標の到達度の自己 評価	評価結果
2018年3月ま でに、新イン フォメーショ ンセンターを 建設する。	Achieved	当初の想定よりも作業に遅れが生じ、2度の契約変更が発生したものの、2018年5月に新インフォメーションセンターが建設された。
2018年10月ま	Achieved	旧インフォメーションセンターの屋根や床の整

で、旧インフォメーションセンターを講堂として改修する。		備を行い、2018年10月までに講堂の改修が完了した。
2018年10月までに、新旧インフォメーションセンターを繋ぐウッドデッキ、その他の周辺整備を行う。	Achieved	Information Center Complexの基本計画に基づき、ウッドデッキとその周辺の整備が2018年10月までに完了した。
2018年10月までに、新インフォメーションセンターの展示を整備する。	Achieved	2018年9月にデザインを最終化し、2018年10月に内装工事が完了した。

(2) 目標到達度の評価

評価指標	指標の到達度	評価結果
インフォメーションセンターコンプレックスの整備が行われ、それによる公園機能の回復及び拡充が図られる。	Achieved	Information Center Complexの基本計画に基づき施設整備が行われ、それにより公園の機能回復及び拡充が達成された。

6. 教訓

(1) 柔軟な契約変更及びプロジェクトによる継続的な働きかけ

インフォメーションセンターコンプレックスの整備作業は、建設業者との再委託契約及び、地元工務店や人員の直接雇用などにより行った。それらを計画する段階では、

関係者すべてが合意した目標期限があったものの、すべての作業が計画とおりに行われなかった。PNG の建設業者や工務店においては、工期が守られることは極めて稀である。したがって契約延長や変更などを柔軟に行うとともに、更に JICA 専門家及びローカルスタッフの頻繁な訪問と強い働きかけを行うことが重要である。

7. 提言

(1) 整備・メンテナンスのための予算確保

他の公園施設にも言えるが、施設の機能を継続して発揮させるためには、管理に加えて補修などのメンテナンス費用が必要である。現状では内部手続きに時間を要し、更に必要な経費が支給されない事態が起きている。バリラタ国立公園で独立した予算枠をつくり、必要額の予算を確保しておくとともに、公園管理委員会などの裁量で執行できるようなシステムが求められる。

8. 主要な成果品リスト:

- 1) パプアニューギニア バリラタ国立公園インフォメーションセンター新築に関する基礎調査 調査報告書(添付資料 2.2.1)
- 2) Information Center Complex のマスタープラン(添付資料 2.2.2)
- 3) 新 IC 建設工事契約書(添付資料 2.2.3)
- 4) 新 IC 設計図(添付資料 2.2.4)
- 5) 新 IC 建設許可証(添付資料 2.2.5)
- 6) 工事記録写真(添付資料 2.2.6)
- 7) 新 IC 建設工事契約書 第 1 回修正(添付資料 2.2.7)
- 8) 新 IC 建設工事契約書 第 2 回修正(添付資料 2.2.8)
- 9) 新 IC 確認済み証(添付資料 2.2.9)
- 10) ウッドデッキ及び関連工事の契約書(添付資料 2.2.10)
- 11) ウッドデッキ工事設計図(提案書)(添付資料 2.2.11)

以上

**添付資料 2.2.1 Master Plan of Information Center
Complex March 2017**

Master Plan of Information Center Complex (Version 1)

March 2017

CEPA-JICA Technical Cooperation Project Team

The Project for Biodiversity Conservation through Implementation of the PNG Policy
on Protected Areas

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Annex

Annex 01	Facility Distribution Map
Annex 02	List of Facility
Annex 03	Facility Profiles

Master Plan of Information Center Complex in Varirata National Park

1. Background

(Facility development plan)

The facility development plan was prepared based on the facilities assessment report in the Varirata National Park (VNP) in February, 2016 by the CEPA-JICA Project. The development plan recommended two steps development of the facilities in VNP as, the revival stage and the progress stage. The strategy for the facility development in VNP in the development plan was summarized in the Table 1.1-1 in the plan. The strategy of improvement/ development of information center is described as “Simple and same structure is revived in short term, another new and different system center will be developed in long term.” The next generation information center (such as live video, on time camera traps, etc.) will be considered, planned and implemented with long term period.

Meanwhile, the information center is located in the corner of the main picnic area and associated with car parks and empty lot of the park management office. The area seems to be used as complex of the information center in the old days. (Please see Annex-01, Information Center Complex Location Map). The area seems to be used as an independent compartment with functions. Therefore, for the development of the information center, we need to consider the comprehensive development of the area not only development of the information center.

(History of consideration of use of the complex area)

(1) Idea of re-use of the old information center building

The CEPA-JICA Project team has discussed the comprehensive development of the area above since October 2016, when an expert of architect joined to the JICA Expert Team (JET). During the expert examined, the old information center was judged not be used for the information center with full functions, and a new information center would be built on the place near to the old one. The Project again, discussed and got a results, the old information center demolition will cost again; therefore, re-use of the old information center shall be considered.

The expected functions for the information center in VNP are:

- 1) Guide the visitors to the park,
- 2) Give an explanation of information of the park,
- 3) Accelerate experience learning,
- 4) Supply rest or evacuation place for visitor,
- 5) Provide place and materials for research and study, and
- 6) Manage the park

The old information center was examined to be used as the information center which has all the necessary functions above. However, it was decided not to be possible, because 1) it is difficult to confirm stability and reliability of the foundation, 2) aging of roof and walls are significant, and 3)

refurbishment cost would be more than new construction and the period will be longer.

However, utilization of the old information center as a simple facility for meeting and etc. after rehabilitation of roof and walls with lightweight material is considered to be possible.

(2) Request from CEPA

CEPA has considered the function of experience leaning for VNP such as installation of koiari Tree House. During the discussion of utilization of the old information center, CEPA proposed the usage of the show-case function such as local culture display.

(3) Demand of livelihood improvement activity

Regards to the livelihood improvement activity of the Project Output-2, CEPA-JICA Project aims to introducing the eco culture tourism as one of measures. An event (dance and cooking introducing to the tourists) is one of the measures and the event space securement is the essential issue. The local people proposed to use any places of VNP for the space. The old information center can be used for the event space.

(4) Recent discussion in CEPA-JICA Project

The JICA Expert Team and CEPA counterparts continued to discuss the utilization of the information center complex including the old information center. Then, the consensus of re-use of the old information center, comprehensive development of the area including old and new information center, renewal of the parking spaces, and corridors which connects the old and new information center, parking area, car road and the main picnic area are considered becoming to a consensus.

As the results of historical discussion among experts of JET and counterparts of CEPA, the image of the utilization and comprehensive development of the information complex area has been becoming a consensus. However, any plans have not been prepared yet. Thus, hereby, the CEPA-JICA Project would like to prepare the Master Plan of Information Center Complex (version 1) and fix the consensus among the related organizations, CEPA, JICA, and the JICA Expert Team.

2. Objectives of preparation of the Master Plan

The objectives of preparation of the master plan are:

- 1) Demonstration of the concept of the information center complex development,
- 2) Consensus building of the concept among the actors, and
- 3) Setting principles of development of the complex for implementation of the development.

Also, this master plan is realization of the historical discussion results. Therefore, the plan will be updated whenever any new discussion or examinations will be held.

3. Principle of Master Plan

The Master Plan of information center complex (hereinafter referred to as “the Complex Master Plan”)

covers the area shown in the Annex-01. The target area is located at the corner of the main picnic area of VNP and is expected to fulfill the general function of information center. And all facilities in the complex are connected and function organically.

3.1 Necessary facilities in the complex

The necessary facilities in the complex are listed below.

- (1) New information center
- (2) Re-used old information center
- (3) Car parking areas (three)
- (4) Corridors connecting each facility and the main picnic area
- (5) Demonstration (show-case) of Koiari Tree House: additional

3.2 Expected function of each facility

- (1) New Information center and (2) re-used old information center

Generally, the expected functions for information center are described below.

- 1) Guide the visitors to the park,
- 2) Give an explanation of information of the park,
- 3) Accelerate experience learning,
- 4) Supply rest or evacuation place for visitor,
- 5) Provide place and materials for research and study, and
- 6) Manage the park

With assumption of re-use of the old information center building, the expected functions above will be demarcated to the two facilities, new and re-used information center.

The expected functions which can be expected to the re-used old information center are limited, because of strength of the building. The expected functions to the re-used old information center are planned below.

- 4) Supply rest or evacuation place for visitor,
- 5) Provide place and materials for research and study, and

Therefore, the expected functions to the new information center are focused on the remaining functions as below.

- 1) Guide the visitors to the park,
- 2) Give an explanation of information of the park,
- 3) Accelerate experience learning, and
- 6) Manage the park

- (3) Car parks

There are four (4) car parking areas beside the main picnic area as shown in Annex-01. One of the

areas is located at the south-west direction from the complex and the distance is approximately 120m along the main road. The car parks inside the complex are necessary to lead the visitors to the information center complex. The car parks beside inside of the complex will be used for the visitors who will use the information centers.

(4) Corridors connecting each facility and the main picnic area

The surface of the complex is covered grasses and sometimes wet. Therefore, the corridors connecting each facility are necessary for the visitors. Also, some of the visitors are assumed to go to the main picnic area after visiting the complex. Therefore, the corridors are expected to connect the facilities and the main picnic area.

(5) Demonstration (show-case) of Koiari Tree House: additional

Koiari tree House is a symbolic architecture for the local people in Koiari. There is an empty lot of old Koiari Tree House near the main picnic area. Unfortunately, it was aged much and almost broken. The Koiari local people, especially the Clan members of VNP has been expecting re-construction of the tree house. Due to consideration of safety, the re-construction of the tree house has not been decided yet. Then, the demonstration of the Koiari Tree House in the complex can satisfy both demands of local people and visitors' interest.

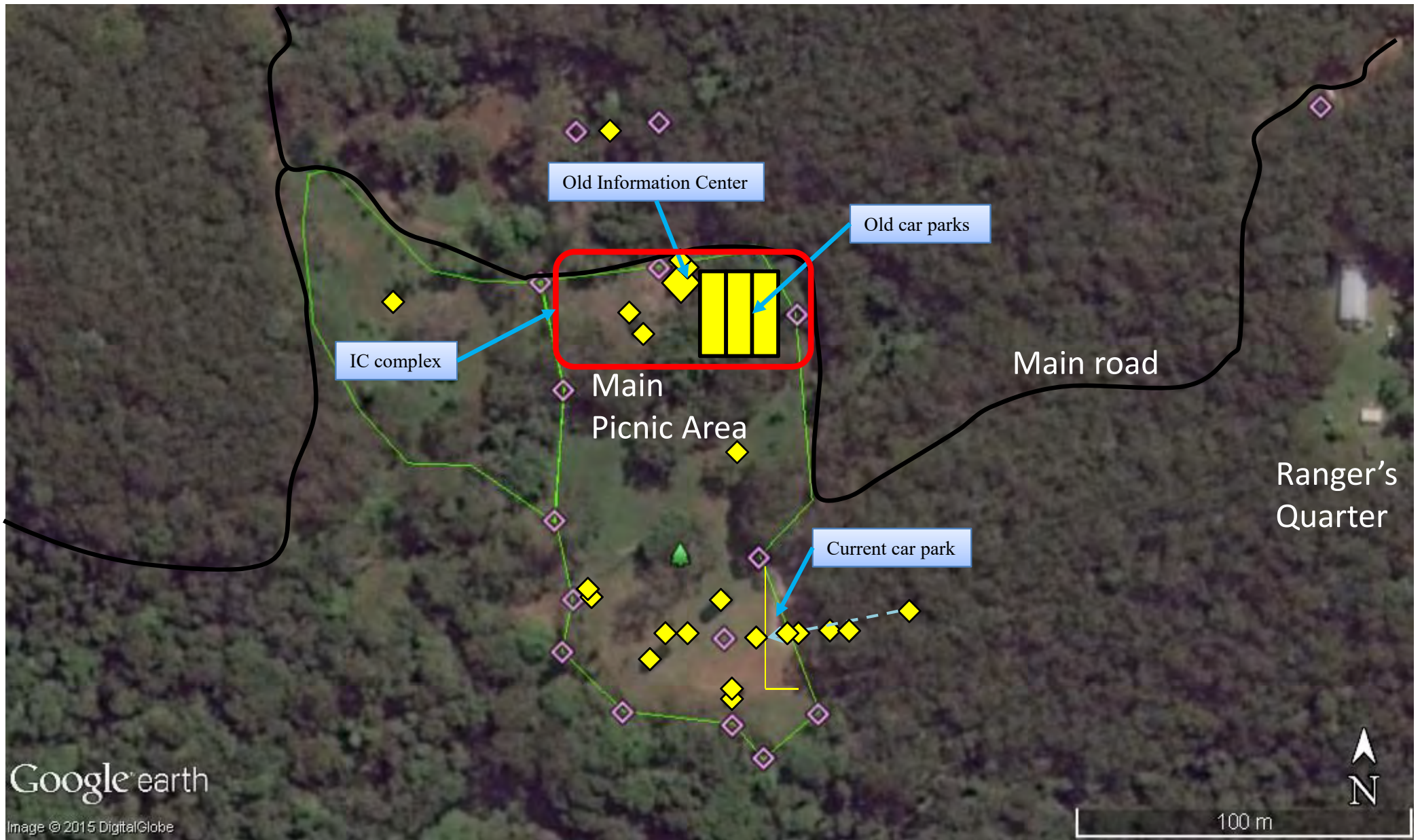
4. Outline of Facility Development Plan

The outline of facilities are shown below and Annex-02, Master Plan of Information Complex Development.

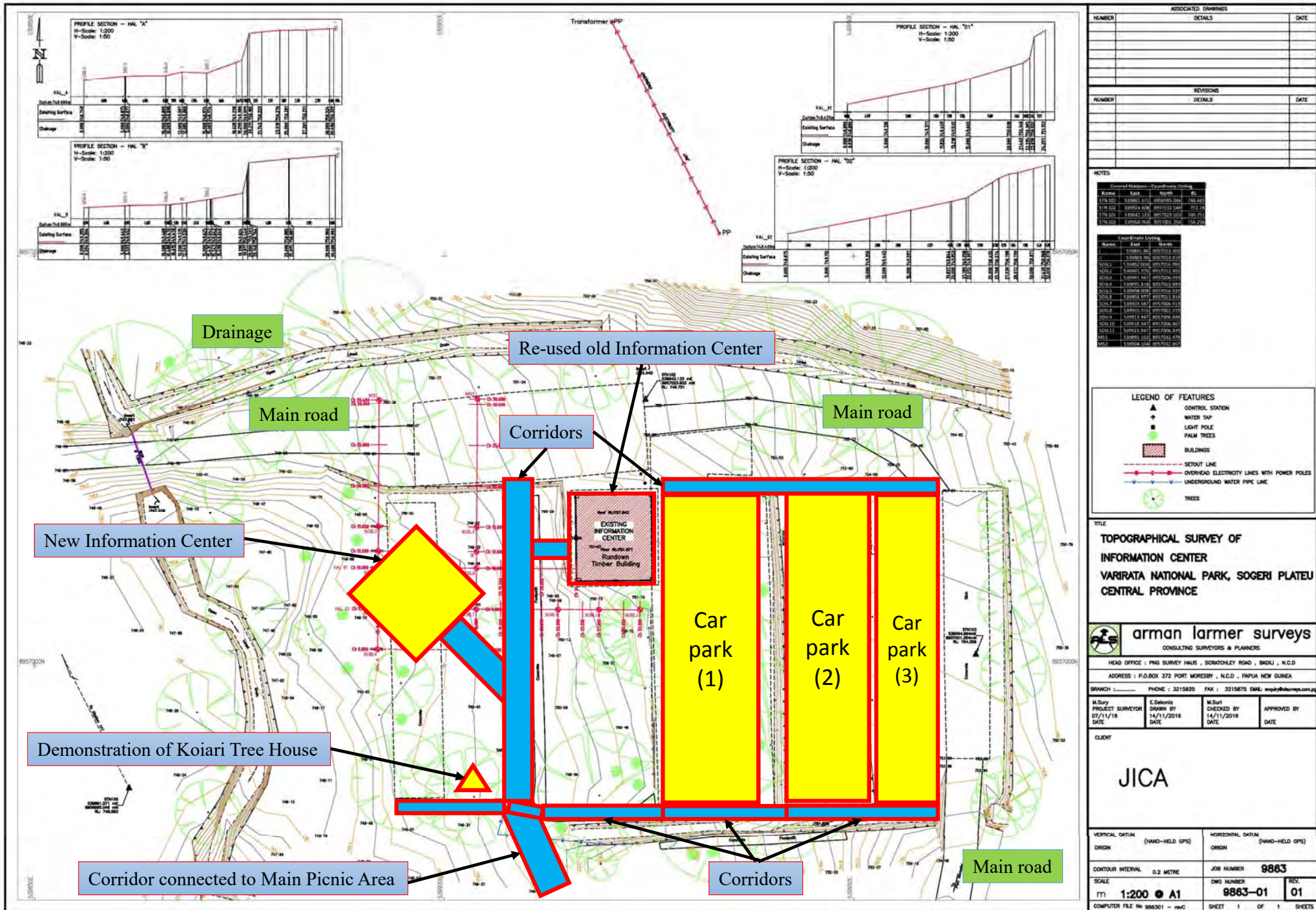
Outline of Facilities in the Information Complex

Facility	Number, amount	Dimension
(1) New information center	1 building	10m x 10m
(2) re-used old information center	1 building	10m x 10m
(3) Car parks	3 parks	40m x 7m (1) 40m x 9m (2) 40m x 6m (3)
(4) Corridors	North side of parks	25m x 1m
	South side of parks	25m x 1m
	South side of information buildings	25 m x 2m
	South-north between new/old information center building	40m x 4m
	Old information center-corrido	5m x 4m
	New information center-corridor	10m x 4m
(5) Demonstration (show-case) of Koiari Tree House	1	3m x 3m x 1m (Lx W x H)

--End of Document--



Annex-01_Information Center Complex Location Map



ASSOCIATED DRAWINGS		
NUMBER	DETAILS	DATE

REVISIONS		
NUMBER	DETAILS	DATE

NOTES

Control Station - Coordinate Listing				
Name	East	North	E	N
STN 02	539843.327	8959483.584	746.443	8959483.584
STN 03	539843.327	8959483.584	746.443	8959483.584
STN 04	539843.327	8959483.584	746.443	8959483.584
STN 05	539843.327	8959483.584	746.443	8959483.584
STN 06	539843.327	8959483.584	746.443	8959483.584
STN 07	539843.327	8959483.584	746.443	8959483.584
STN 08	539843.327	8959483.584	746.443	8959483.584
STN 09	539843.327	8959483.584	746.443	8959483.584
STN 10	539843.327	8959483.584	746.443	8959483.584
STN 11	539843.327	8959483.584	746.443	8959483.584
STN 12	539843.327	8959483.584	746.443	8959483.584
STN 13	539843.327	8959483.584	746.443	8959483.584
STN 14	539843.327	8959483.584	746.443	8959483.584
STN 15	539843.327	8959483.584	746.443	8959483.584
STN 16	539843.327	8959483.584	746.443	8959483.584
STN 17	539843.327	8959483.584	746.443	8959483.584
STN 18	539843.327	8959483.584	746.443	8959483.584
STN 19	539843.327	8959483.584	746.443	8959483.584
STN 20	539843.327	8959483.584	746.443	8959483.584

Coordinate Listing				
Name	East	North	E	N
STN 01	539843.327	8959483.584	746.443	8959483.584
STN 02	539843.327	8959483.584	746.443	8959483.584
STN 03	539843.327	8959483.584	746.443	8959483.584
STN 04	539843.327	8959483.584	746.443	8959483.584
STN 05	539843.327	8959483.584	746.443	8959483.584
STN 06	539843.327	8959483.584	746.443	8959483.584
STN 07	539843.327	8959483.584	746.443	8959483.584
STN 08	539843.327	8959483.584	746.443	8959483.584
STN 09	539843.327	8959483.584	746.443	8959483.584
STN 10	539843.327	8959483.584	746.443	8959483.584
STN 11	539843.327	8959483.584	746.443	8959483.584
STN 12	539843.327	8959483.584	746.443	8959483.584
STN 13	539843.327	8959483.584	746.443	8959483.584
STN 14	539843.327	8959483.584	746.443	8959483.584
STN 15	539843.327	8959483.584	746.443	8959483.584
STN 16	539843.327	8959483.584	746.443	8959483.584
STN 17	539843.327	8959483.584	746.443	8959483.584
STN 18	539843.327	8959483.584	746.443	8959483.584
STN 19	539843.327	8959483.584	746.443	8959483.584
STN 20	539843.327	8959483.584	746.443	8959483.584

LEGEND OF FEATURES

- ▲ CONTROL STATION
- ⊕ WATER TAP
- LIGHT POLE
- PALM TREES
- ▭ BUILDINGS
- - - - - SETOUT LINE
- - - - - OVERHEAD ELECTRICITY LINES WITH POWER POLES
- - - - - UNDERGROUND WATER PIPE LINE
- TREES

TITLE

TOPOGRAPHICAL SURVEY OF INFORMATION CENTER VARIRATA NATIONAL PARK, SOGERI PLATEAU CENTRAL PROVINCE

arman larmer surveys
CONSULTING SURVEYORS & PLANNERS

HEAD OFFICE: PNG SURVEY HAUS, SCOTCHLEY ROAD, BAOBU, N.C.D
ADDRESS: P.O. BOX 372 PORT MORESBY, N.C.D., PAPUA NEW GUINEA

BRANCH: PHONE: 3215825 FAX: 3215875 EMAIL: enquiry@arman.com.au
M SURV PROJECT SURVEYOR 07/11/16 DATE: E.Sekoria DRAWN BY 14/11/2016 DATE: M SURV CHECKED BY 14/11/2016 DATE: APPROVED BY DATE:

CLIENT

JICA

VERTICAL DATUM ORIGIN (HAND-HELD GPS)	HORIZONTAL DATUM ORIGIN (HAND-HELD GPS)
CONTOUR INTERVAL: 0.2 METRE	JOB NUMBER: 9863
SCALE: 1:200 A1	DWG NUMBER: 9863-01
COMPUTER FILE No 986301 - rwc	SHEET 1 OF 1 SHEETS

**添付資料 2.2.2 Contract agreement for construction of
new information center**

Contract Agreement

THIS AGREEMENT made the 17 day of ^{month} July, ^{year} 2017, between Japan International Cooperation Agency Papua New Guinea Office (hereinafter "the Employer"), of the one part, and Rhodes PNG Limited (hereinafter "the Contractor"), of the other part:

WHEREAS the Employer desires that the Works known as The Design-Build Project on Construction of New Information Center at Varirata National Park should be executed by the Contractor, and has accepted a bid by the Contractor for the execution and completion of these Works and the remedying of any defects therein,

The Employer and the Contractor agree as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Contract documents referred to.
2. The following documents (hereinafter "Contract documents") shall be deemed to form and be read and construed as part of this Agreement. This Agreement shall prevail over all other Contract documents.
 - (a) the Conditions of Contract;
 - (b) the Specification; and
 - (c) the Drawings.For the purpose of interpretation, the priority of the listed documents shall be in accordance with the above listed order.
3. In consideration of the payments to be made by the Employer to the Contractor as indicated below, the Contractor hereby covenants with the Employer to execute the Works and to remedy defects therein in conformity in all respects with the provisions of the Contract documents.
4. The Employer hereby covenants to pay the Contractor the amount of PGK676,688,10 [Six Hundred Seventy Six Thousand Six Hundred Eighty Eight Kina and Ten Toea] (hereinafter "Contract Amount") in consideration of the execution and completion of the Works by the day of 7th, ^{Month} March (hereinafter "Intended Completion Date") and the remedying of defects therein. 2018.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of Papua New Guinea on the day, month and year indicated above.

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Signed by: [Signature]
for and on behalf of the Employer

Signed by: [Signature]
for and on behalf of the Contractor

in the presence of:

Witness:
Signature: [Signature]
Name: Mr. Gunther Joku
Position: Managing Director, CEPA
Date: 11/07/17

Witness:
Signature: Mr. Asano
Name: Mr. Koji Asano
Position: Chief Technical Advisor, CEPA-
JICA Project Office
Date: _____

AA [Signature]

Conditions of Contract

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 - 23. Payment upon Termination


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A. General

Definitions

- 1.1 The following words and expressions shall have the meanings hereby assigned to them.
- (a) "Completion Date" is the date of completion of the Works as certified by the Employer, in accordance with Clause 19.
 - (b) "Contract" means the Contract Agreement between the Employer and the Contractor to execute, complete, and maintain the Works. It consists of the documents listed in Sub-Clause 2.2.
 - (c) "Contract Amount" means the price payable to the Contractor as specified in the Contract Agreement.
 - (d) "day" means calendar day.
 - (e) "Defect Liability Period" is the period pursuant to Sub-Clause 15.1.
 - (f) "Intended Completion Date" is the date, which is specified in the Contract Agreement Clause 4, on which it is intended that the Contractor shall complete the Work.
 - (g) "Project Manager" is a person appointed by the Employer and notified to the Contractor, who is responsible for supervising the execution of the Works and administering the Contract.
 - (h) "Taking-Over Certificate" is the certificate issued by the Employer upon deciding that the whole of the Works is completed for the purpose of taking-over.
 - (i) "Works" means the design, the permanent works and the temporary works (works designed, constructed, installed, and removed that are temporarily needed for construction or installation of the Works) to be executed by the Contractor under this Contract.

Interpretation

- 2.1 In interpreting this Conditions of Contract, words indicating one gender include all gender. Words indicating the singular also include the plural and words indicating the plural also include the singular. Headings have no significance. Words have their normal meaning under the language of the Contract unless specifically defined. The Project Manager shall provide instructions clarifying queries about this Conditions of Contract.
- 2.2 The documents forming the Contract shall be interpreted in the following order of priority:
- (a) Contract Agreement,
 - (b) Conditions of Contract,
 - (c) Specification, and
 - (d) Drawings.
- 2.3 The Contract constitutes the entire agreement between the

Employer and the Contractor and supersedes all communications, negotiations and agreements (whether written or oral) of the parties with respect thereto made prior to the date of the Contract.

2.4 No amendment or other variation of the Contract shall be valid unless it is in writing, is dated, expressly refers to the Contract, and is signed by a duly authorized representative of each party thereto.

Language 3.1 The language of the Contract shall be the English language.

Notices 4.1 Any notice given by one party to the other pursuant to the Contract shall be in writing to the address hereunder. The term "in writing" means communicated in written form with proof of receipt.

[The Employer]

Attention: Mr. Masatake Harada, Assistant Representative

Address: JICA Papua New Guinea Office

2nd Floor, PWC Haus, Harbour City, Port Moresby, N.C.D.,

P.O. Box 1660, Port Moresby, N.C.D., Papua New Guinea

Telephone: (675) 321 2677

E-mail address: pn_oso_rep@jica.go.jp

[The Contractor]

Attention: Emanuel Papastamatis

Address: Portion 2733 Napa Napa Road, Porebada, Central Province, Papua New Guinea

Telephone: +675 7091 4457

E-mail Address: e.papas@rhodesprojects.com.au

Subcontracting 5.1 The Contractor may subcontract with the approval of the Project Manager, but may not assign the Contract without the approval of the Employer in writing. Subcontracting shall not alter the Contractor's obligations.

Employer's Risk 6.1 From the start of the Works until the date of the taking-over of the Works by the Employer, the following are Employer's risks:

(a) The risks of loss of or damage to property (excluding the Works, plant, materials, and equipment), which are due to:

(i) use or occupation of the Site by the Works or for the purpose of the Works, which is the unavoidable result of the Works; or

(ii) negligence, breach of statutory duty, or interference with any legal right by the Employer or by any person employed by or contracted to him except the Contractor.

(b) The risk of damage to the Works, plant, materials, and equipment to the extent that it is due to a fault of the Employer or in the Employer's design, or due to war, hostilities (whether war declared or not), invasion, act of foreign enemies, rebellion, terrorism, revolution, insurrection, military or usurped power,

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civil war, riot, commotion of disorder or radioactive contamination directly affecting the country where the Works are to be executed.

- 6.2 From the date of taking-over of the Works by the Employer until the end of the Defect Liability Period prescribed in Sub-Clause 15.1, the risk of loss of or damage to the Works, plant, and materials is an Employer's risk except loss or damage due to:
- (a) a defect which existed on the Completion Date,
 - (b) an event occurring before the Completion Date, which was not itself an Employer's risk, or
 - (c) the activities of the Contractor on the Site after the Completion Date.

Contractor's Risk 7.1 From the start of the Works until the end of the Defect Liability Period, the risk of personal injury, death, and loss of or damage to property (including, without limitation, the Works, plant, materials, and equipment) which are not Employer's risks are Contractor's risks.

Approval by the Project Manager 8.1 The Contractor shall be responsible for design of the temporary works in accordance with the requirements specified in the Specification.

8.2 The Contractor, if requested, shall submit design documents of the temporary works to the Project Manager for his approval. The Project Manager's approval shall not alter the Contractor's responsibility for design of the temporary works.

Safety 9.1 The Contractor shall:

- (a) comply with all applicable safety regulations;
- (b) take care for the safety of all persons entitled to be on the Site;
- (c) use reasonable effort to keep the Site and Works clear of unnecessary obstruction so as to avoid danger to these persons; and
- (d) provide necessary fencing, lighting, guarding and watching of the Works until completion and the taking-over.

Access to the Site 10.1 The Employer shall give possession of all parts of the Site to the Contractor.

10.2 The Contractor shall allow the Project Manager and any person authorized by the Project Manager access to the Site and to any place where work in connection with the Contract is being carried out or is intended to be carried out.

Settlement of Disputes 11.1 The Employer and the Contractor shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.

11.2 Notice

(a) If the parties are in dispute over any matter in connection with this document, either party may give Notice and particulars of the dispute to the other and require the dispute to be resolved by an independent expert with at least 10 years' experience in the area of the dispute and who is acceptable to both parties.

(b) any expert determination conducted pursuant to this clause 11 must be held in Port Moresby.

11.3 Nomination of independent expert

If the parties do not agree on an independent expert within 15 Business Days of the date of the Notice issued under clause 11.1, either party may request the President of the Papua New Guinea Law Society to nominate an independent expert in the area of the dispute to determine the dispute.

11.4 Procedures

(a) The parties must require the independent expert to:

- (i) act as an expert and not as an arbitrator;
- (ii) make a determination as soon as possible; and
- (iii) give written reasons for that determination.

11.5 Binding nature of determination

The parties will be bound by the determination of the independent expert, except in the case of manifest error or as specified in clause 11.9.

11.6 Rules of determination

The Expert Determination Rules of the New South Wales Chapter of the Australian Commercial Disputes Centre current as at the date of the dispute apply to the determination of a dispute under this clause, except where those rules conflict with a clause in this document, in which case, this document prevails.

11.7 Costs

The parties must share the Costs of the determination of the dispute under this clause 11 equally unless the independent expert specifies otherwise, in which case, the Costs must be paid by the parties as specified by the independent expert.

11.8 Interlocutory relief

Nothing in this clause 11 will operate to prevent a party approaching a court for interim or urgent interlocutory relief.

11.9 Final and binding decision

Unless there is an obvious error, the independent expert's decision is final and binding on the parties, except where the decision involves an amount exceeding K1,000,000, in which case the parties may institute proceedings in the Courts of Papua New Guinea in respect of the dispute at any time. The parties hereby irrevocably submit to the non-exclusive jurisdiction of the Courts of Papua New Guinea to resolve any such disputes.

B. Time Control

- Program** 12.1 Within fourteen (14) days after the date of the signing of the Contract, the Contractor shall submit to the Project Manager a program showing the general methods, arrangements, order, and timing for all activities relating to the Works.
- Management Meetings** 13.1 Either the Project Manager or the Contractor may require the other to attend one or more management meetings at a time reasonably convenient to both the Project Manager and the Contractor. The business of a management meeting shall be to review the plans for remaining work and to deal with matters that may likely arise in future and adversely affect the execution of the Works.

C. Quality Control

- Identifying Defects** 14.1 The Project Manager shall check the Contractor's work and notify the Contractor of any defects that are found. The Project Manager may instruct the Contractor to search for a defect and to uncover and test any work in conformity with the Specification.
- Correction of Defects** 15.1 The Employer shall give notice to the Contractor of any defects before the end of the Defect Liability Period, which extends over three-hundred sixty-five (365) days calculated from the Completion Date.
- 15.2 If a defect is corrected under this Clause, the Defect Liability Period shall be extended to the defect as corrected for a further period of 365 days.
- 15.3 Every time notice of a defect is given, the Contractor shall correct the notified defect as soon as practicable after such notice.
- 15.4 If the Contractor has not corrected a defect within the reasonable time, the Employer shall assess the cost of having the defect corrected, and the Contractor shall pay this amount.

D. Cost Control

- Payment** 16.1 The Employer shall pay the Contractor the amounts, and on the conditions specified as follows:
- (a) Advance Payment
The Employer shall make advance payment to the Contractor of the amounts PGK270,675.24 [Two Hundred Seventy Thousand Six Hundred Seventy Five Kina and Twenty Four

Toea], which corresponds to forty percent (40%) of the Contract Amount, against provision by the Contractor of an unconditional bank guarantee acceptable to the Employer in amounts and currencies equal to the advance payment. The guarantee shall remain effective until the Completion Date.

(b) First Interim Payment

The Employer shall make first interim payment to the Contractor of the amounts PGK101,503.21 [One Hundred One Thousand Five Hundred Three Kina and Twenty One Toea], which corresponds to fifteen percent (15%) of the Contract Amount, against completion certificate of the following works, issued by the Project Manager and verified by the Employer.

- Reinforced concrete foundation work

(c) Second Interim Payment

The Employer shall make second interim payment to the Contractor of the amounts PGK67,668.81 [Sixty Seven Thousand Six Hundred Sixty Eight Kina and Eighty One Toea], which corresponds to ten percent (10%) of the Contract Amount, against completion certificate of the following works, issued by the Project Manager and verified by the Employer.

- Erection of main structure work

(d) Final Payment

The Employer shall make final payment to the Contractor of the amounts PGK236,840.84 [Two Hundred Thirty Six Thousand Eight Hundred Forty Kina and Eighty Four Toea], which corresponds to thirty five percent (35%) of the Contract Amount, against the Taking-Over Certificate issued by the Employer.

16.2 All payments by the Employer to the Contractor above, shall be made upon a request for payment by the Contractor accompanied by the necessary documents and certificates, within twenty-eight (28) days of the date of the request is received. If the Employer makes a late payment, the Contractor shall be paid interest on the late payment, calculated from the date by which the payment should have been made up to the date when the late payment is made, at the rate of five (5) percent per annum calculated on the basis of a year of 365 days for the number of days elapsed.

Liquidated Damages

17.1 In case that the Contractor does not complete the Work by the Intended Completion Date, the Contractor shall pay liquidated damages to the Employer at the rate of zero point one percent (0.1%) of the Contract Amount for each day from the Intended Completion Date up to and including the Completion Date. The total amount of liquidated damages shall not exceed twenty-five percent (25%) of the Contract Amount. The Employer may deduct liquidated damages from payments due to the Contractor.

- Securities**
- 18.1 The Performance Security shall be provided to the Employer within twenty eight (28) days after the Employer notifies the Contractor that the Contractor's bid has been accepted. The Performance Security shall be issued by a bank or surety acceptable to the Employer, and denominated in the same currency as the Contract Amount, for an amount equal to twenty five percent (25%) of the Contract Amount.
 - 18.2 Performance Security shall be valid and enforceable until the Contractor has executed and completed the Works and remedied any defects.
 - 18.3 The Performance Security shall be returned to the Contractor within twenty-eight (28) days after the end of the Defect Liability Period.

E. Finishing the Contract

- Completion**
- 19.1 The Contractor shall request the Employer to issue a Taking-Over Certificate for the Works, and the Employer shall do so upon deciding that the whole of the Works is completed for the purpose of taking-over.
- Taking Over**
- 20.1 The Employer shall take over the Site and the Works within seven (7) days of the issuing date of the Taking-Over Certificate.
- Termination**
- 21.1 The Employer or the Contractor may terminate the Contract if the other party breaches a fundamental term of the Contract.
 - 21.2 Fundamental breaches of the Contract shall include, but are not limited to, the following:
 - (a) the Contractor stops work for more than twenty-eight (28) days when no stoppage of work is shown on the current program, prescribed in Clause 12, and the stoppage has not been authorized by the Project Manager;
 - (b) the Contractor is made bankrupt or goes into liquidation other than for a reconstruction or amalgamation;
 - (c) a request for payment is not paid by the Employer to the Contractor within eighty-four (84) days after the Employer receives such request;
 - (d) the Employer gives notice that failure to correct a particular defect is a fundamental breach of the Contract and the Contractor fails to correct it within a reasonable period of time determined by the Employer;
 - (e) the Contractor does not maintain a Security, which is required;
 - (f) the Contractor has delayed the completion of the Works by the

number of days for 100 or more days;

(g) if the Contractor, in the judgment of the Employer, has engaged in corrupt or fraudulent practices in competing for or in executing the Contract, pursuant to Clause 22; or

(h) if the Contractor continuously fails to comply with the instructions provided by the Project Manager.

21.3 Notwithstanding the above, the Employer may at any time and for any reason terminate the Contract (that is, termination for convenience).

**Corrupt or
Fraudulent
Practices**

22.1 If the Employer determined, based on reasonable evidence, that the Contractor has engaged in corrupt, fraudulent, collusive, coercive or obstructive practices, in competing for or in executing the Contract, then the Employer may, after giving fourteen (14) days notice to the Contractor, terminate the Contractor's employment under the Contract and expel the Contractor from the Site.

**Payment upon
Termination**

23.1 If the Contract is terminated because of a fundamental breach of the Contract by the Contractor, the Employer shall issue a certificate for the value of the work done and materials ordered, less the amount of the payments already made by the Employer, and less twenty percent (20%) of the value of the work not completed. The amount so certified shall in the absence of manifest error and assuming that it is a positive number be payable by the Employer to the Contractor within 28 days after the certificate is issued. Additional liquidated damages shall not apply. If the total amount due to the Contractor in accordance with this clause 23.1 is less than the aggregate of any payments due by the Contractor to the Employer under this Contract, the difference shall be a debt payable by the Contractor to the Employer and may be set off by the Employer against the amount otherwise payable by the Employer to the Contractor under this clause 23.1.

23.2 If the Contract is terminated for the Employer's convenience or because of a fundamental breach of the Contract by the Employer, the Contractor shall issue a certificate for the value of the work done, materials ordered, the reasonable cost of removal of equipment, repatriation of the Contractor's personnel employed solely on the Works, and the Contractor's cost of protecting and securing the Works, and less amount of payments already received. The amount so certified shall in the absence of manifest error be payable by the Employer to the Contractor within 28 days after the certificate is issued.

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Specification (Work Requirements)

A. Scope of Works

1. Design-Build system

The Contractor shall fulfil the following works to complete "The Design-Build Project on Construction of New Information Center at Varirata National Park".

- a. Detail design & shop drawings
- b. Structural design & calculation for RC foundation and main structure, which shall be certified by a qualified engineer
- c. Acquisition of building permit, fire service approval, and others, if any, from the relevant authorities prior to construction work commencing
- d. Construction of the building

2. Design criteria

- a. Location: The Varirata National Park, outside Port Moresby towards Sogeri, Central Province
- b. Floor space: Approximately 100 square metres
- c. Building height: Approximately 9.5 metres high from the average Ground Level.
- d. Foundation: Reinforced concrete spread / pedestal footing
- e. Main structure: Steel construction
- f. Finishes:
 - (Exterior finishes)
 - Roof: Square hipped roof of 45 degrees pitch
Galvanized steel corrugated roofing with resin paint coated (colour bond) with water-proofing sheet (roofing felt) on plywood sheathing underlayment
Gutter of PVC or steel paint finished
 - Soffit: Calcium silicate board paint finished
 - Wall: HardiePlank Lap Siding (Fiber cement siding) paint finished with water-proofing sheet on plywood underlayment
 - Roof top skylight: 6mm thick toughened glass

(Interior finishes)

[Gallery, Study & Information]

- Floor: T&G timber plank flooring varnish finished
- Skirting: Timber board varnish finished
- Wall: Plaster board (water proofing type) or Calcium silicate board paint finished (Off-white colour)
- Ceiling: Timber board varnish finished

[Offices & Stores]

- Floor: T&G timber plank flooring varnish finished

- Skirting Timber board varnish finished
- Wall Plaster board or Calcium silicate board paint finished (Off-white colour)
- Ceiling Timber board varnish finished
- Top of Ceiling Plywood varnish finished
- g. Furniture & Fittings:
 - [Gallery]
 - Display table with cupboard beneath along the wall
 - Display wall
 - Picture rail & hanging wire
 - Entrance doors
 - [Study]
 - Oval shape table & 14 round shape stools
 - [Information]
 - Information counter (fixed) & 2 chairs
 - [Administration Office]
 - 2 working desks & 2 chairs
 - 1 book shelf (movable)
 - Door & window with blind
 - [Research Office]
 - 3 working desks & 3 chairs
 - 2 book shelves (movable)
 - Windows with blinds
 - [Store (1)]
 - Entrance doors & interior door and windows
 - [Store (2)]
 - Door and window
 - [Exterior]
 - Security grills for windows
 - JICA sign board
- h. Electrical work (Lighting fittings and equipment):
 - [Gallery]
 - Spot light (down light) with lighting rail (33 nos.) above display table & display wall
 - [Study]
 - Special lighting fitting above table, hung from the ceiling
 - [Information]
 - Concealed type down light (6 nos.)
 - [Administration Office]
 - Linear type ceiling light (2 nos.)
 - [Research Office]
 - Linear type ceiling light (2 nos.)
 - [Store (1)]
 - Linear type ceiling light (2 nos.)
 - [Store (2)]
 - Linear type ceiling light (1 no.)
- i. Rain water collection system:
 - Tuffa Rainwater Tank 9000 liters capacity (2 nos.)
- j. Security camera: Security camera (2 nos.) with monitor and recorder
- k. Fire Extinguisher: 4.5Kg CO2 Fire Extinguisher (1 no.)


B. Specification

All the relevant works to complete "The Design-Build Project on Construction of New Information Center at Varirata National Park" shall follow and comply with the related Australian / PNG Codes, Standards and Regulations.

1. Detail Design & Shop Drawings

- a. The Contractor is requested to prepare detail design & shop drawings, which shall be submitted to the Supervisor for approval.

- b. Structure of reinforced concrete foundation shall be determined by qualified structural engineer from the Contractor taking into consideration the soil conditions of the site and the structural design conditions prevailing in the country.
 - c. The design of main structure shall be determined by a qualified structural engineer appointed by or employed by the Contractor taking into consideration the structural design conditions prevailing in the country.
 - d. Certificate for the structural design of reinforced concrete foundation and main structure, certified by the qualified engineer, shall be submitted to the Supervisor.
 - e. The Contractor is requested to obtain the building permit, fire service approval, and others, if any, from the relevant authorities prior to the construction work.
 - f. Fee for the application of permit/approval shall be inclusive in the contract and born by the Contractor.
2. Preliminaries & Temporary Work
- a. The Contractor is required for site clearance to demolish the existing concrete slab to the extent of the limited area necessary for the construction of the building.
 - b. The debris derived from the demolition of existing concrete slab shall be taken out of the park for disposal.
 - c. It is not allowed for the Contractor to construct the temporary accommodation for labourers inside the park area.
3. Reinforced Concrete Foundation Work
- a. Following concrete shall be used for reinforced concrete work;
 - Footings: 25MPa reinforced concrete
 - Columns: 25MPa reinforced concrete
 - b. The Contractor is required, due to the nature of the soil, for back filling and compaction of soil to use the soil recommended and approved by the Supervisor.
4. Main Structure
- a. Main structure shall be steel construction.
 - b. The Contractor is required to propose the main structure system (framing system) to the Supervisor during the Design stage. The main structure system shall be finalized after the study, review and consultation with the Supervisor and the Contractor.
5. Finishing Work
- a. Roof top skylight
 - Skylight comprises aluminium or stainless steel supporting frames with 6mm thick toughened glass, complete with all accessories
 - Apex on top of aluminium or stainless steel
 - b. Roof cladding
 - Roof cladding shall be galvanized steel corrugated roofing with resin paint coated (colour bond).
 - Roof cladding shall be installed on water-proofing sheet (roofing felt) on plywood sheathing underlayment
 - c. Exterior wall cladding
 - Exterior wall cladding shall be HardiePlank Lap Siding (Fiber cement siding) with resin paint finish


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- d. Painting
 - Exterior wall cladding shall be installed on water-proofing sheet on plywood underlayment
 - 3 coats of varnish finish for interior timber of T&G timber flooring, skirting and ceiling
 - 1 undercoat paint and 2 coats of acrylic resin paint finish for exterior wall and timber doors
 - 1 undercoat paint and 2 coats of acrylic emulsion paint finish for interior wall
 - Urethane resin paint finish for furniture
 - e. Termite-proof
 - f. Insulation
 - All the timbers are termite-proof treated
 - Fiber glass thermal insulation shall be installed inside the whole area of exterior wall and roof
6. Furniture & Fittings
- a. Gallery
 - Fixed display table of timber top (30mm thick) with cupboard beneath, 400mm wide x 750mm high, urethane resin paint finished (refer to the attached drawing)
 - Fixed display wall (refer to the attached drawing)
 - Picture rail & hanging wire above display table and display wall (refer to the attached drawing)
 - Double leaf swinging doors of solid core timber with slit windows of 6mm thick toughened glass, with lockset and other hardware, 1,800mm wide x 2,100mm high (refer to the attached drawing)
 - Exterior finish of the doors shall be the same as the exterior wall finish, and the interior shall be paint finished (refer to the attached drawing)
 - b. Study
 - High grade working table of timber top (30mm thick) with round corner treated, urethane resin paint finished for furniture (refer to the attached drawing)
 - Oval shape table, with size of 1,000mm wide x 3,000mm long x 750mm high
 - Size of timber chair (stool), 450mm dia. x 420mm high
 - c. Information
 - Fixed information counter of timber top (30mm thick), 500mm wide x 3,000mm long x 750mm high, urethane resin paint finished (refer to the attached drawing)
 - d. Administration Office
 - Medium grade office furniture, 2 working desks & 2 chairs, subject to the selection of the Supervisor
 - Size of desk, 600mm wide x 1,200mm long x 750mm high
 - 1 ready-made book shelf, 300mm wide x 900mm long x 1,800mm high
 - Hollow core timber door with lockset and other hardware, 900mm wide x 2,100mm high, paint finished

- e. Research Office
 - Aluminium sliding window with 6mm toughened glass, 2,100mm wide (2 series) x 1,100mm high, fly screen, security grill outside, and blind inside
 - Medium grade office furniture, 3 working desks & 3 chairs, subject to the selection of the Supervisor
 - Size of desk, 600mm wide x 1,200mm long x 750mm high
 - 2 ready-made book shelves, 300mm wide x 900mm long x 1,800mm high each
 - Aluminium sliding window with 6mm toughened glass, 2,100mm wide (2 series) x 1,100mm high, fly screen, security grill outside, and blind inside
 - Aluminium sliding window with 6mm toughened glass, 1,000mm wide x 1,100mm high, fly screen, security grill outside, and blind inside
- f. Store (1)
 - Double leaf swinging doors of solid core timber, with lockset and other hardware, 1,800mm wide x 2,100mm high
 - Exterior finish of the doors shall be the same as the exterior wall finish, and the interior shall be paint finished (refer to the attached drawing)
 - 2 aluminium sliding windows with 6mm toughened glass, 1,000mm wide x 450mm high each, fly screen, security grill outside
- g. Store (2)
 - Hollow core timber door with lockset and other hardware, 900mm wide x 2,100mm high, paint finished
 - Aluminium sliding window with 6mm toughened glass, 1,000mm wide x 450mm high, fly screen, security grill outside
- h. Exterior
 - Security grills for all aluminium windows
 - Sign board of JICA either carved on timber board designed and hand-made by local artist or printed on stainless steel panel of 900mm square

7. Electrical Work

Application and payment to PNG POWER for power supply extension and installation of primary cabling outside shall be inclusive in the contract and the cost shall be paid by the Contractor.

Attached hereto, as Appendix IV, is the quotation from PNG POWER for power supply extension, for reference.

Installation of control panel, lighting fittings, sockets, switches and domestic cabling, complete, shall be executed.

All the lighting fittings shall be equipped with LED lamps.

Lighting fittings and equipment for each room are as follows;

- a. Gallery
 - 33 nos. of removable spot lights (down lights) with lighting rail (lighting duct) above display table and display wall

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- b. Study - Special lighting fitting above table, hung from the ceiling (refer to the attached drawing)
 - c. Information - 6 nos. of concealed type down lights inside the ceiling
 - d. Administration Office - 2 nos. of linear type ceiling lights
 - e. Research Office - 2 nos. of linear type ceiling lights
 - f. Store (1) - 2 nos. of linear type ceiling lights
 - g. Store (2) - 1 no. of linear type ceiling light
8. Rain Water Collection System
2 nos. of Tuffa Rainwater Tanks, 9,000 liter capacity each, with accessories, locks, complete, shall be installed for collection of rain water from the roof. Roof gutter and downpipes to divert rain water into the tanks shall also be installed. Concrete slab to support the tanks shall be provided.
9. Security Camera
2 nos. of security cameras shall be installed for CCTV system; one inside, at the corner of Gallery, and the other, outside on the soffit of entrance. The camera inside shall be an ordinary type. The camera outside shall be water-proof type and wide lens equipped. The monitor (display) and recorder for security cameras shall be installed inside Administration Office.
10. Fire Extinguisher
1 no. of 4.5Kg CO2 Fire Extinguisher shall be installed inside Gallery.

C. Drawings

Refer to the following drawings attached hereto;

- 1. Building Layout Plan.
- 2. Floor Plan, Elevations, and Section of the Building.
- 3. Ceiling Plan and Details

D. Supplementary Information

- 1. Proposal of the bidder's intended schedule.
The bidder is required to propose its intended working schedule in Gantt chart (Bar chart) which clearly indicates how all the works, including Design and Build, are to be sequenced and scheduled from the commencement date to the completion date of the works.
The schedule shall be described in Section II. Bidding Forms : BF-7 : Construction Schedule.
Attached hereto, as "Appendix I", the overall schedule of the works for reference.
- 2. Geotechnical investigation
Attached hereto, as "Appendix II", the Topo Survey Map and, as "Appendix III", the Report on Geotechnical Investigation of the construction site.

The bidder is required to examine the contents of the map and the report, and to utilize them for structural design of the building.


3. Quotation from PNG POWER

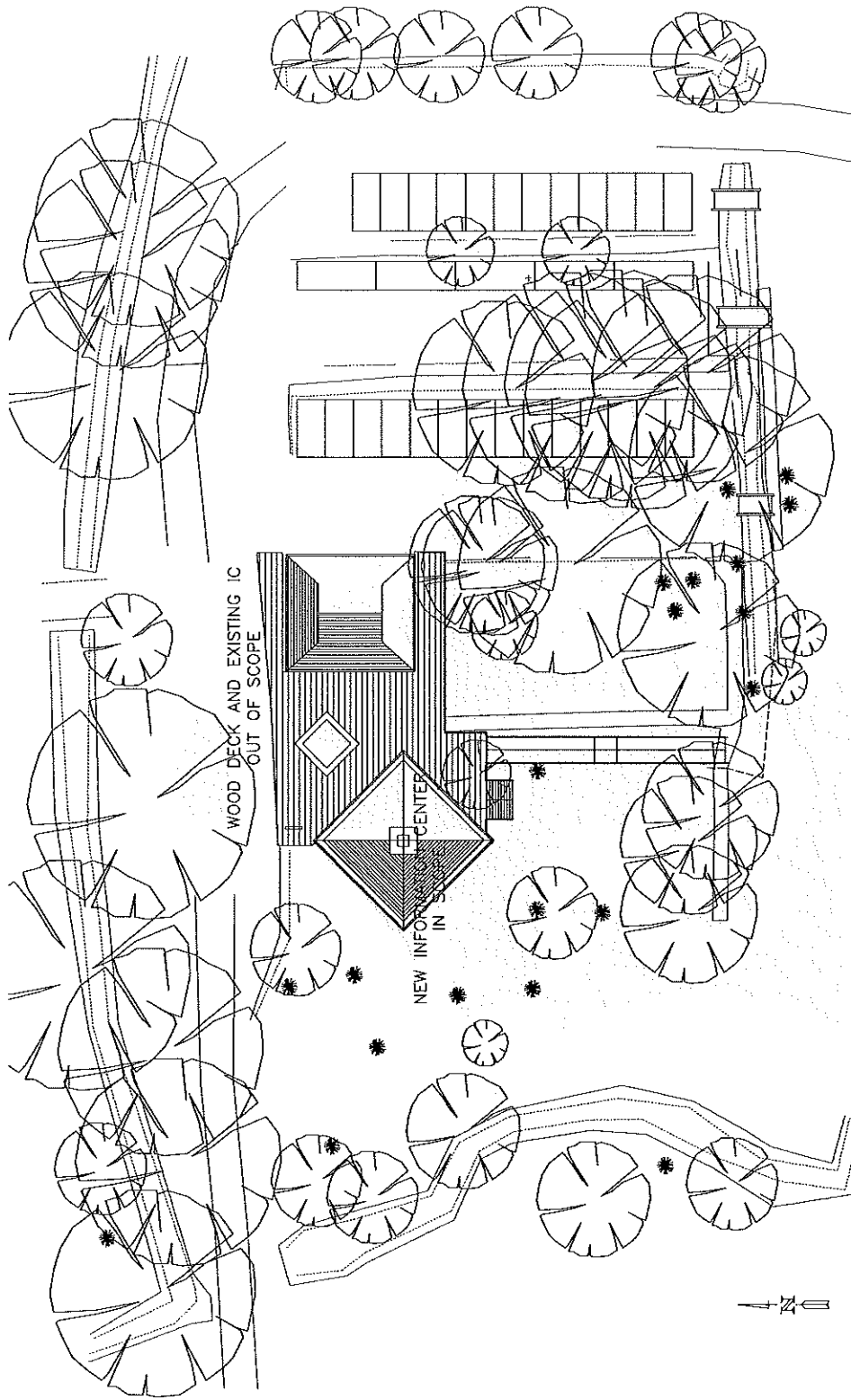
Attached hereto, as Appendix IV, the quotation letter from PNG POWER for power supply extension to Varirata Information Center, dated 14th December, 2016, addressed to JICA Expert Team, for reference.

The bidder is required to refer to the letter from PNG POWER, not only for the amount to pay but also for payment term, and include the necessary expenses in bidding amount.

[Appendices]

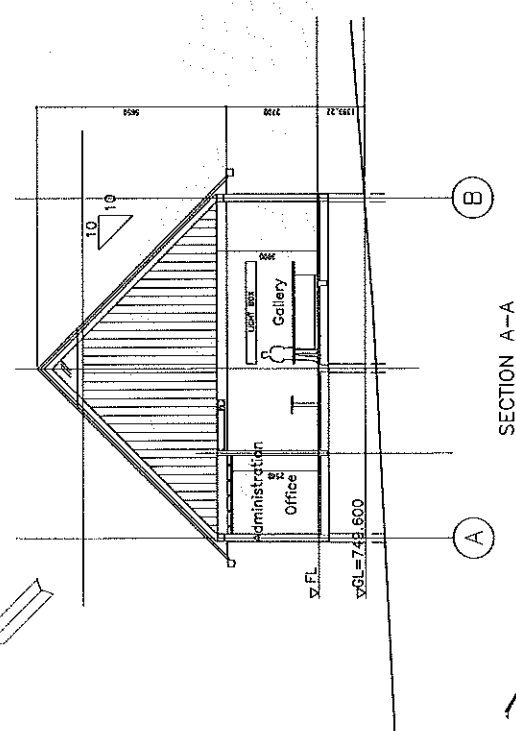
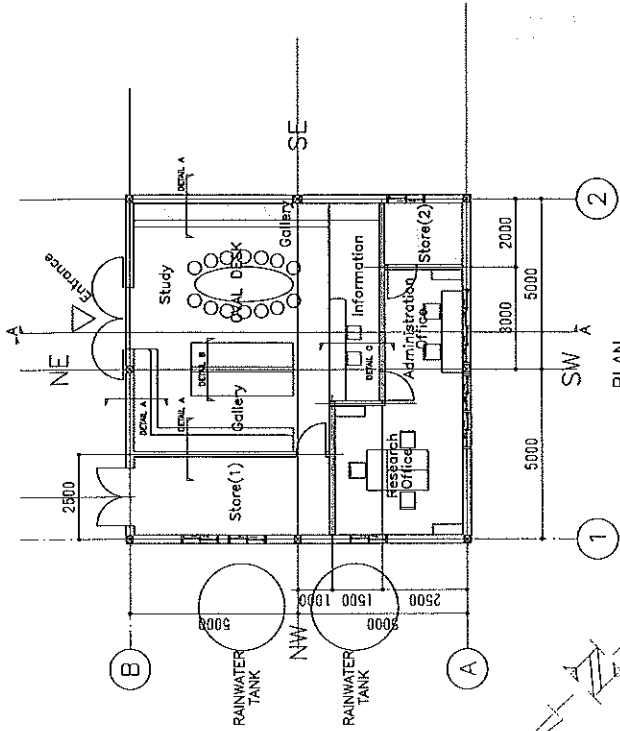
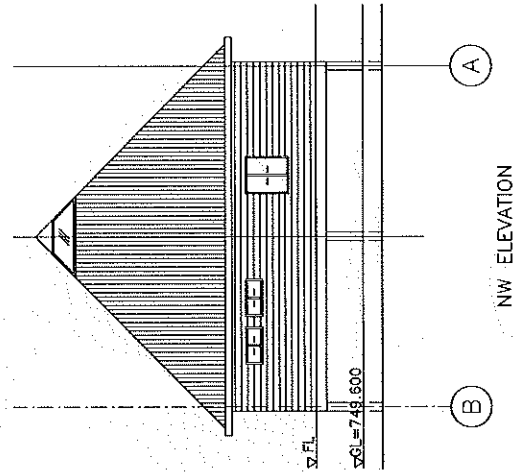
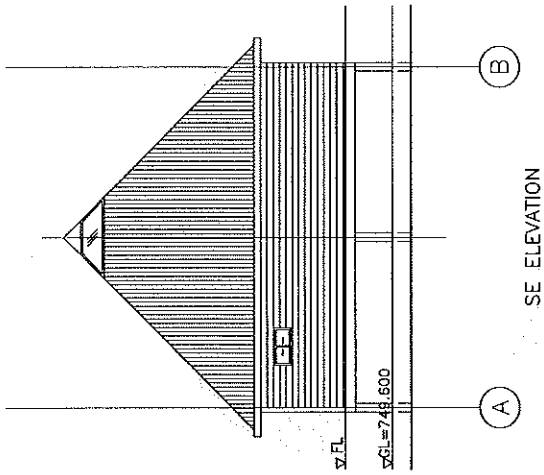
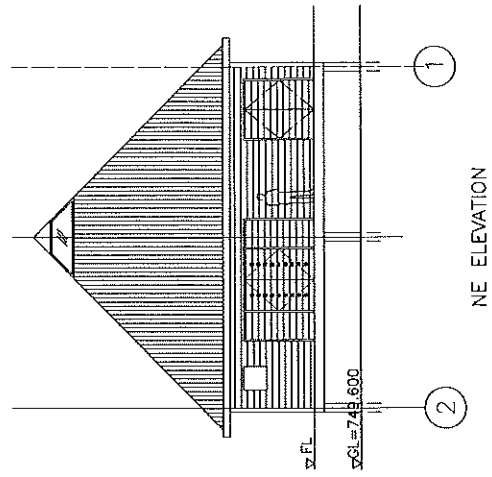
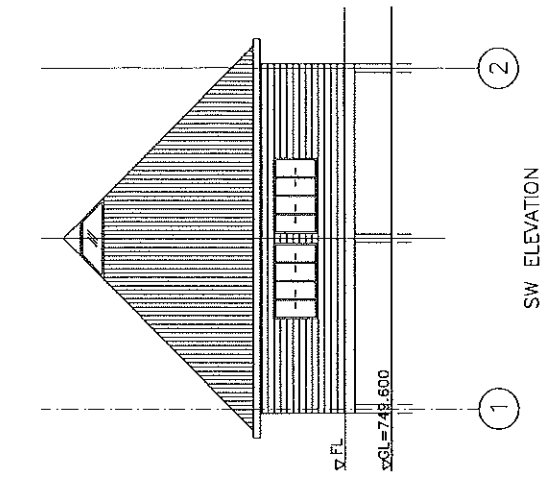
- Appendix I: Overall schedule
- Appendix II: Topo Survey Map
- Appendix III: Report on Geotechnical Investigation
- Appendix IV: Quotation letter from PNG POWER

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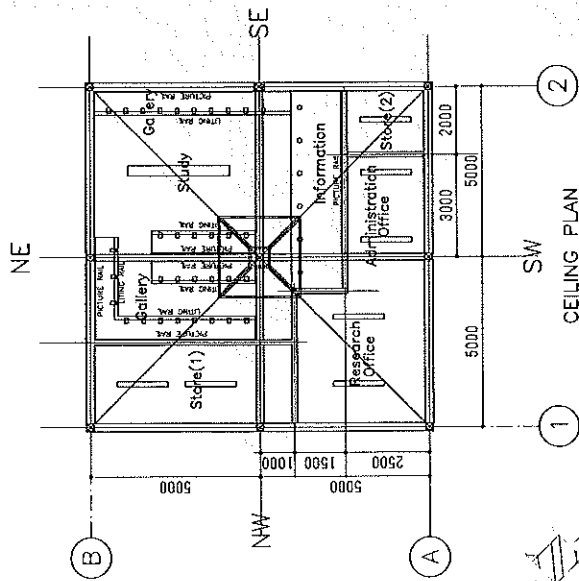
SITE PLAN S=1/400 (A3)

AA 3K

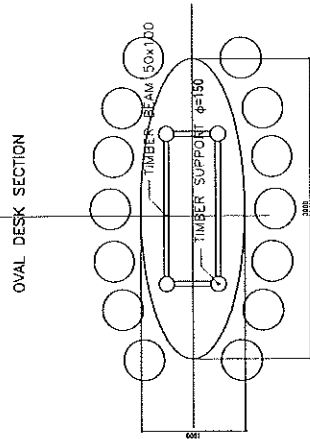
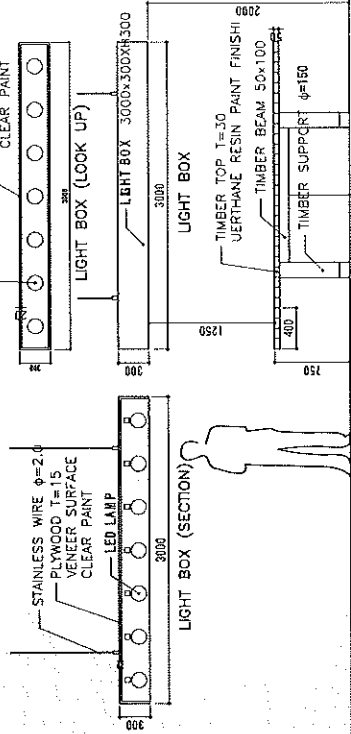
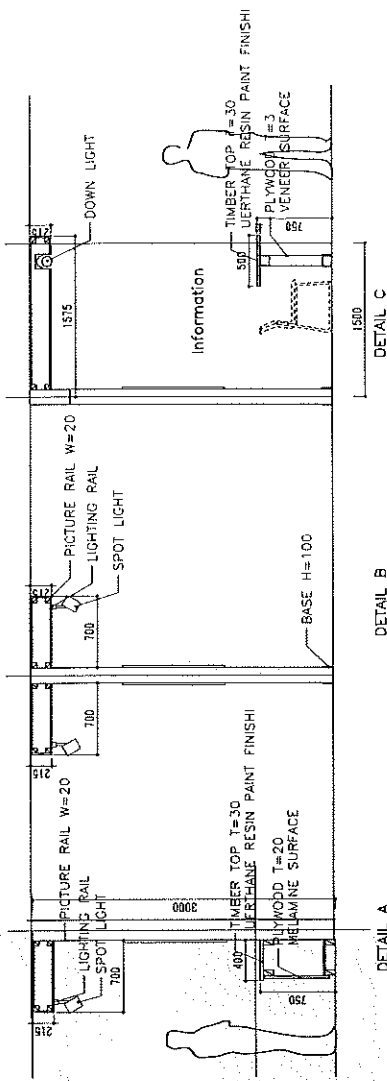


PLAN SECTION ELEVATION S=1/150 (A3)

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JK



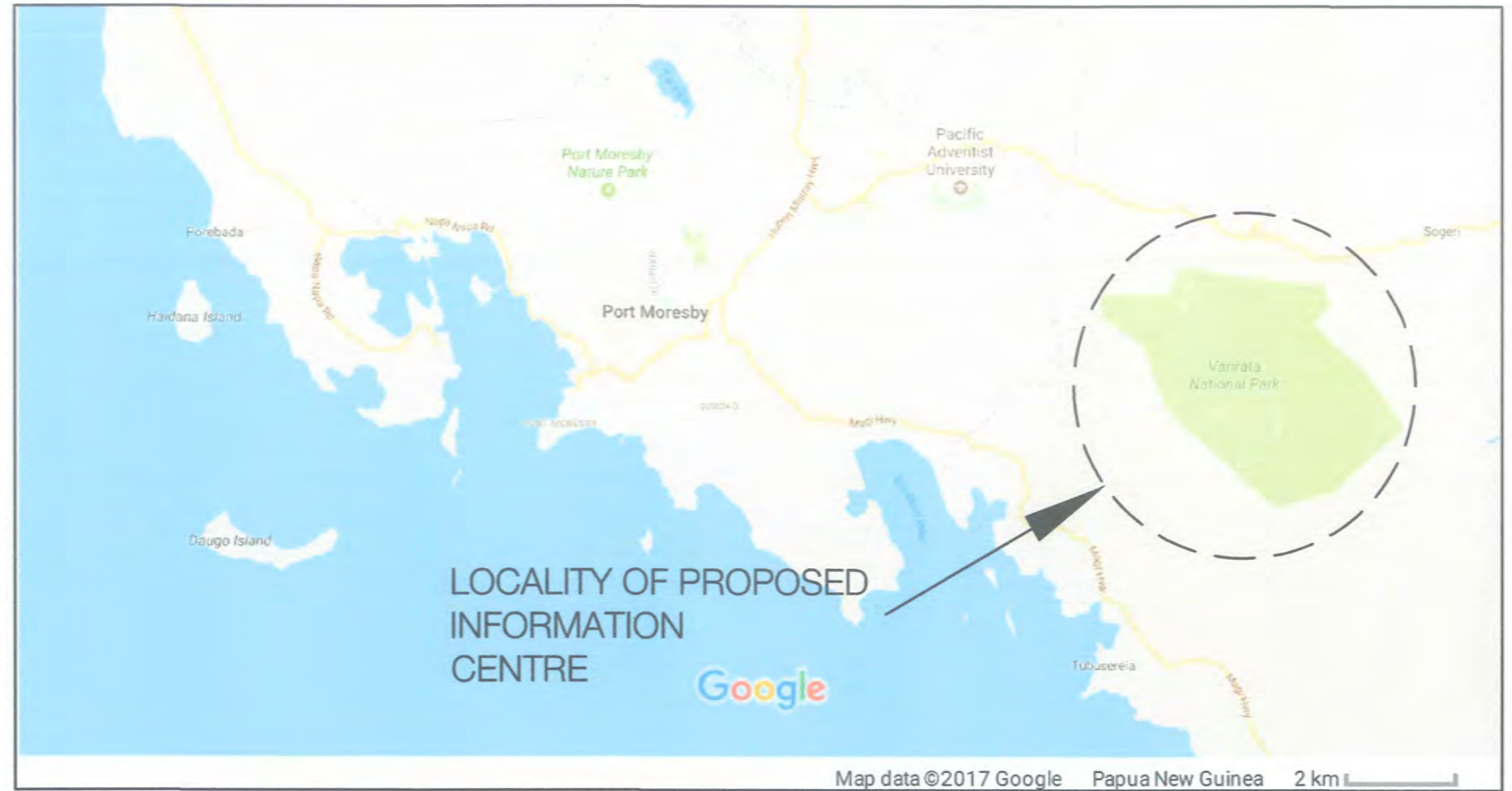
OVAL DESK PLAN

DETAILS S=1/50 (A3)

**添付資料 2.2.3 Final Design Drawing of new
information center**

VARIRATA INFORMATION CENTRE ARCHITECTURAL SET

DRAWING ID	DRAWING NO.	DESCRIPTION
201726-ARC-VAR-A-000	A-00-000	INDEX
201726-ARC-VAR-A-001	A-01-000	SITE PLAN
201726-ARC-VAR-A-002	A-02-000	FOOTING PLAN / FLOOR PLAN
201726-ARC-VAR-A-003	A-02-001	FLOOR FRAMING PLAN
201726-ARC-VAR-A-004	A-02-002	ELECTRICAL PLAN
201726-ARC-VAR-A-005	A-02-003	FURNITURE PLAN
201726-ARC-VAR-A-006	A-02-004	WALL & FLOOR FINISHES PLAN
201726-ARC-VAR-A-006A	A-02-005	REFLECTED CEILING PLAN
201726-ARC-VAR-A-007	A-03-000	ROOF PLAN
201726-ARC-VAR-A-008	A-04-000	ELEVATIONS
201726-ARC-VAR-A-009	A-05-000	SECTION A-A
201726-ARC-VAR-A-010	A-05-001	SECTION B-B
201726-ARC-VAR-A-0011	A-06-000	DETAILS 1
201726-ARC-VAR-A-0012	A-06-001	DETAILS 2
201726-ARC-VAR-A-0013	A-06-002	DETAILS 3
201726-ARC-VAR-A-0013A	A-06-003	DETAILS 4
201726-ARC-VAR-A-0013B	A-06-004	DETAILS 5
201726-ARC-VAR-A-0014	A-07-000	DOOR & WINDOW SCHEDULE
201726-ARC-VAR-A-0014A	A-07-001	DOOR & WINDOW DETAILS
201726-ARC-VAR-A-0015	A-08-001	TANK SLAB DETAILS
201726-ARC-VAR-A-0015A	A-08-002	TANK DRAWINGS 1
201726-ARC-VAR-A-0015B	A-08-003	TANK DRAWINGS 2



GENERAL:

- THIS DRAWING SET IS TO BE READ IN CONJUNCTION WITH ALL STRUCTURAL SET, CLIENT'S DRAWINGS, SPECIFICATIONS AND WITH ANY OTHER WRITTEN INSTRUCTION AS MAY BE ISSUED DURING THE COURSE OF CONSTRUCTION. ANY DISCREPANCY SHALL BE REFERRED TO THE PROJECT MANAGER BEFORE PROCEEDING WITH THE WORK.
- ALL WORK AND MATERIAL SHALL CONFORM TO CURRENT PNG STANDARDS.
- ALL DIMENSIONS SHOWN ARE TO BE VERIFIED ON SITE. DRAWINGS SHALL NOT BE SCALED.
- SUBSTITUTIONS SHALL BE APPROVED BY THE PROJECT MANAGER.

INSULATION NOTES:

- WHERE REQUIRED, INSULATION MUST BE INSTALLED SO THAT IT:
 - ABUTS OR OVERLAPS ADJOINING INSULATION OTHER THAN AT SUPPORTING MEMBERS SUCH AS STUDS, NOGGINGS, JOISTS, FURRING CHANNELS AND THE LIKE WHERE THE INSULATION MUST BE AGAINST THE MEMBER; AND
 - FORMS A CONTINUOUS BARRIER WITH CEILINGS, WALLS, BULKHEADS, FLOORS OR THE LIKE THAT INHERENTLY CONTRIBUTE TO THE THERMAL BARRIER; AND
 - DOES NOT AFFECT THE SAFE OR EFFECTIVE OPERATION OF A SERVICE OR FITTING.

MATERIAL FIRE RATING:

- PAINT USED AS INTERNAL FINISH TO BE NON-FLAMMABLE

ROOFING:

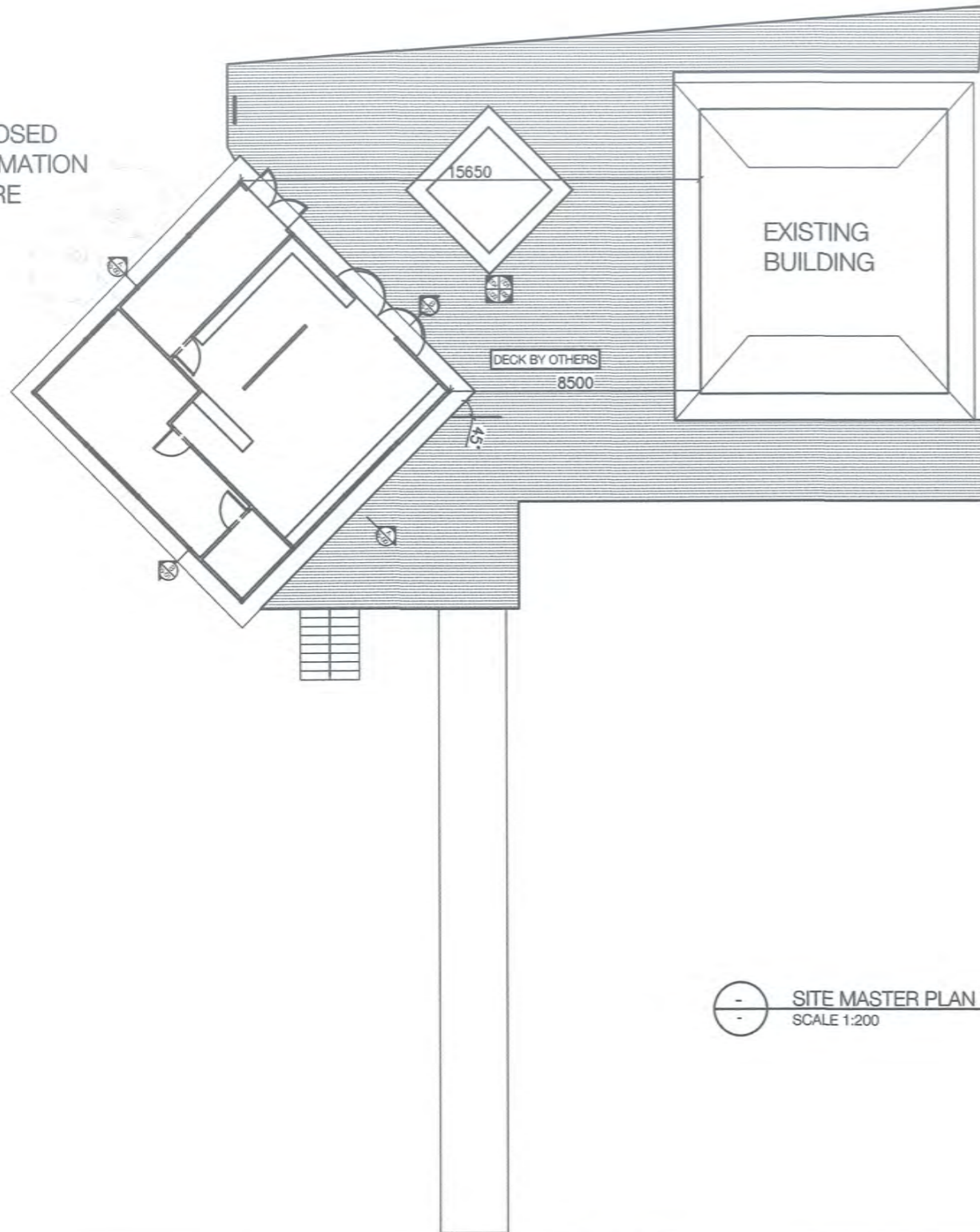
- METAL ROOF CLADDING, ROOF CONNECTIONS AND IMMEDIATE SUPPORTING MEMBERS DESIGNED TO COMPLY WITH THE PNG BUILDING REGULATIONS 1994.

Z. Nakano
2018.07.05

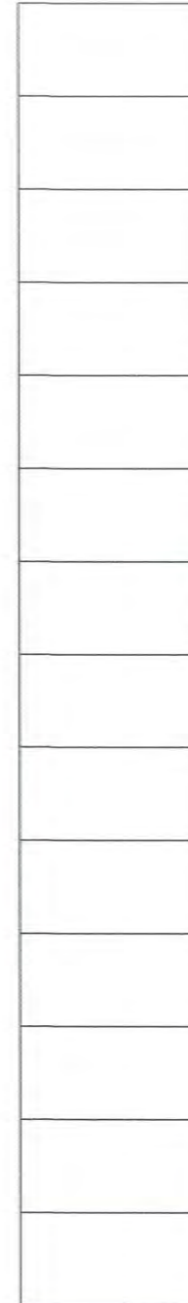
FOR CONSTRUCTION

THIS DRAWING IS OWNED BY RHODES (PNG) LIMITED. IT IS ISSUED IN THE UNDERSTANDING THAT IT WILL NOT BE REPRODUCED OR COPIED IN WHOLE OR IN PART, NOR IS INFORMATION TO BE RELEASED TO THIRD PARTIES WITHOUT THE WRITTEN PERMISSION OF THE ABOVE COMPANY.	REVISIONS <table border="1" style="width: 100%; border-collapse: collapse; font-size: 8px;"> <thead> <tr> <th>REV</th> <th>BY</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td>5</td><td>GU</td><td>ADDED TANK SLAB SHT AND DELETED SEC.DOOR SHT</td><td>12/12/2017</td></tr> <tr><td>6</td><td>GU</td><td>APPROVAL ISSUE</td><td>05/01/2018</td></tr> <tr><td>7</td><td>GU</td><td>FOR CONSTRUCTION ISSUE - ADDED 2 NEW PAGES</td><td>12/02/2018</td></tr> <tr><td>8</td><td>GU</td><td>ADDED TANK DETAILS SHEET</td><td>03/03/2018</td></tr> </tbody> </table>	REV	BY	DESCRIPTION	DATE	5	GU	ADDED TANK SLAB SHT AND DELETED SEC.DOOR SHT	12/12/2017	6	GU	APPROVAL ISSUE	05/01/2018	7	GU	FOR CONSTRUCTION ISSUE - ADDED 2 NEW PAGES	12/02/2018	8	GU	ADDED TANK DETAILS SHEET	03/03/2018	DRAWING INFORMATION DRAWN BY: GU 14/07/17 CHECKED BY: ST 05/12/17 CLIENT APPROVED:	RHODES PNG POREBADA, CENTRAL PROVINCE PORTION 2702 NAPA NAPA ROAD PAPUA NEW GUINEA (P) +675 705 08372 (E) office@rhodespng.com (W) www.rhodesprojects.com	VARIRATA INFORMATION CENTRE INDEX SCALE: NTS PROJECT NO: 201726-ARC-VAR-A-000 DRAWING NO: A-00-00	LOCATION VARIRATA ,PAPUA NEW GUINEA REV: 8
REV	BY	DESCRIPTION	DATE																						
5	GU	ADDED TANK SLAB SHT AND DELETED SEC.DOOR SHT	12/12/2017																						
6	GU	APPROVAL ISSUE	05/01/2018																						
7	GU	FOR CONSTRUCTION ISSUE - ADDED 2 NEW PAGES	12/02/2018																						
8	GU	ADDED TANK DETAILS SHEET	03/03/2018																						

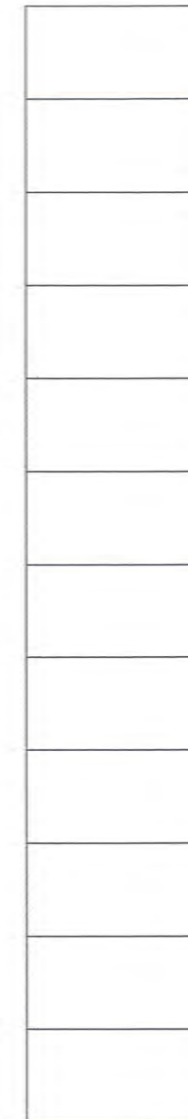
PROPOSED
INFORMATION
CENTRE



 SITE MASTER PLAN
SCALE 1:200



EXISTING
CARPARK



T. Nakano
2018-03-05

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REVISIONS			
REV	BY	DESCRIPTION	DATE
5	GU	ADDITION OF SIGNBOARD LOCATION	12/12/2017
6	GU	APPROVAL ISSUE	28/12/2017
7	GU	FOR CONSTRUCTION ISSUE	07/02/2018

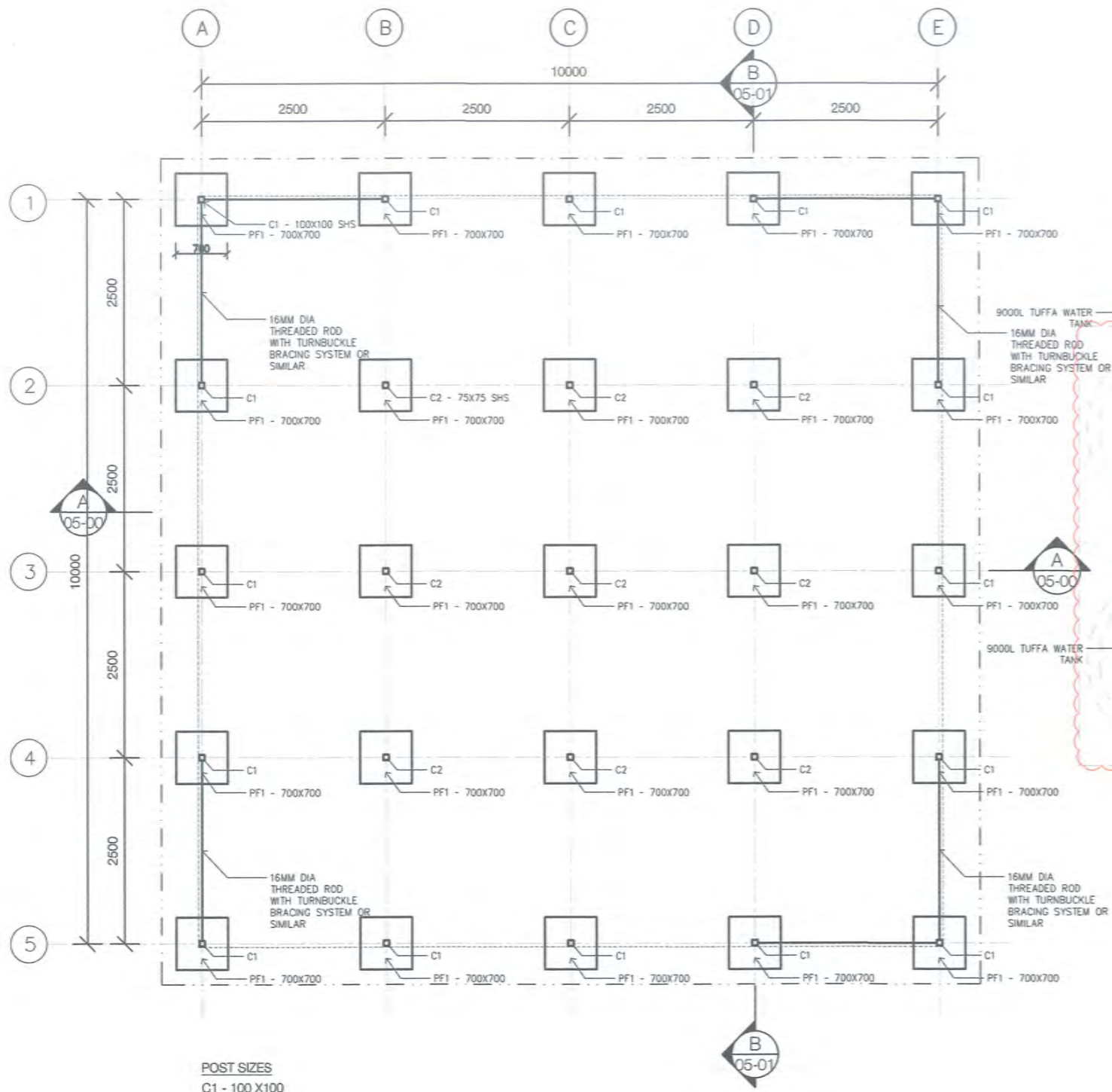
DRAWING INFORMATION		
DRAWN BY:	GU	14/07/17
CHECKED BY:	ST	05/12/17
CLIENT APPROVED:		

RHODES PNG
POREBADA, CENTRAL PROVINCE
PORTION 2702 NARA NARA ROAD
PAPUA NEW GUINEA

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(E) office@rhodespng.com
(W) www.rhodesprojects.com

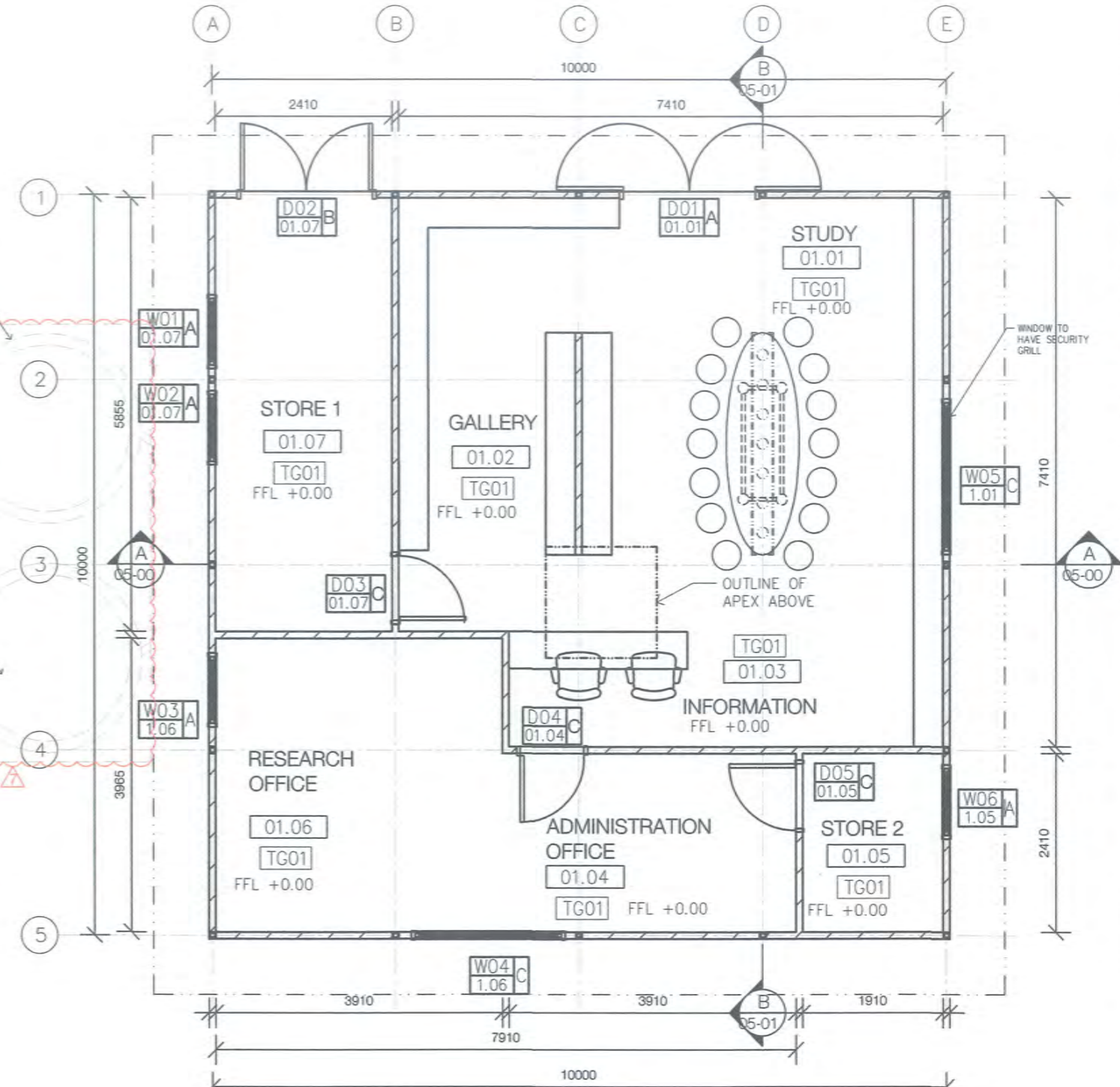


VARIRATA INFORMATION CENTRE		LOCATION VARIRATA ,PAPUA NEW GUINEA
SITE PLAN		
SCALE: 1: 200 @ A3	PROJECT NO: 201726-ARC-VAR-A-001	DRAWING NO: A-01-00



POST SIZES
 C1 - 100 X 100
 C2 - 75 X 75
 PF1 - 700 X 700 X 700 DP WITH 800 MASS CONCRETE BLINDING

FOOTING PLAN
 SCALE 1:75



FLOOR PLAN
 SCALE 1:75

T. Williams
 2018-03-25

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REV	BY	DESCRIPTION	DATE
5	GU	RELOCATED WINDOW DOWNPIPE FALL	12/12/2017
6	GU	APPROVAL ISSUE	28/12/2017
7	GU	FOR CONSTRUCTION ISSUE - UPDATED TANK	10/02/2018

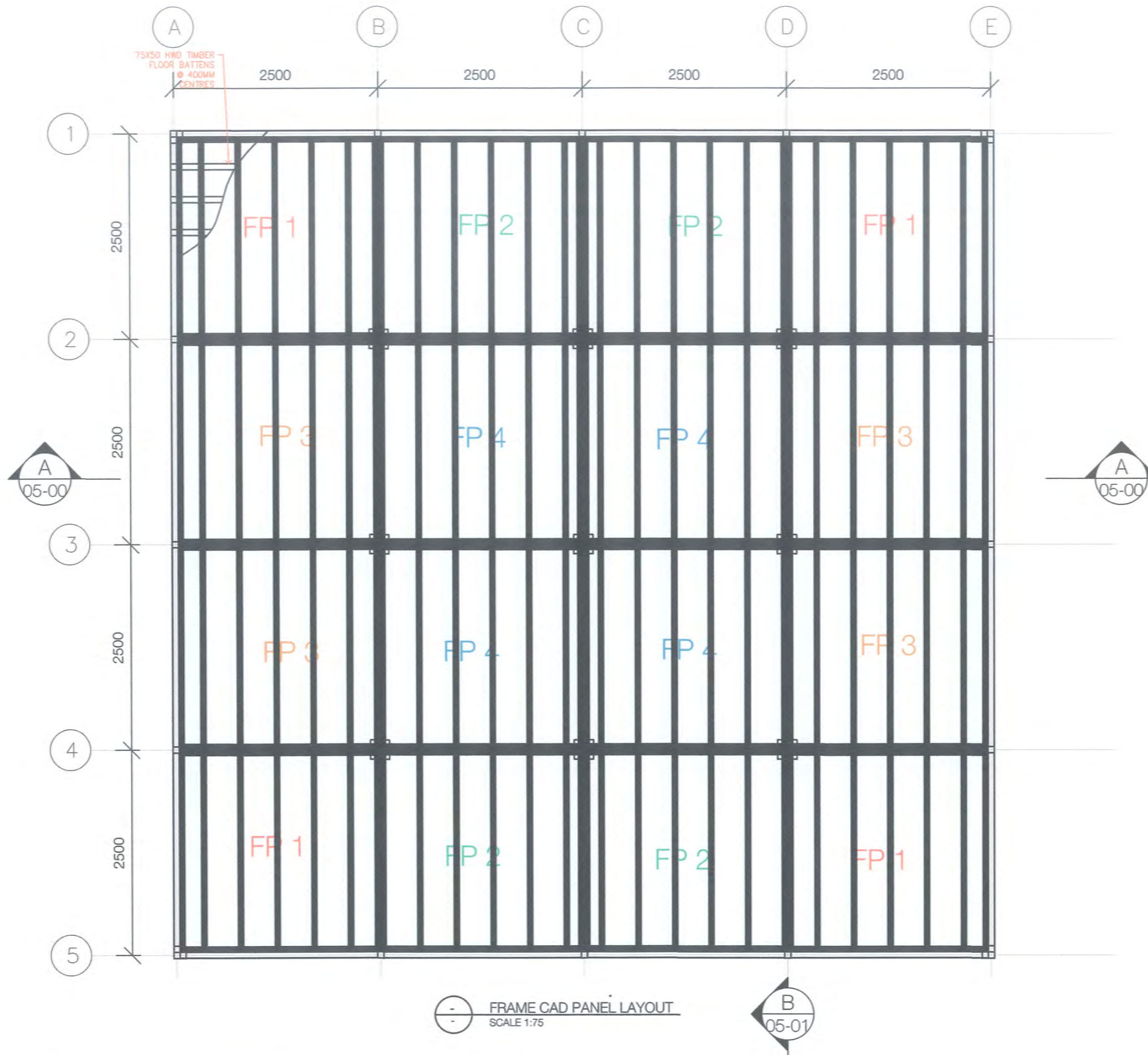
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DRAWN BY:	GU	14/07/17
CHECKED BY:	ST	05/12/17
CLIENT APPROVED:		

RHODES PNG
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 PAPUA NEW GUINEA

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 (M) www.rhodesprojects.com



VARIRATA INFORMATION CENTRE		LOCATION VARIRATA, PAPUA NEW GUINEA
FOOTING / FLOOR PLAN		
SCALE: 1:75 @ A3	PROJECT NO: 201726-ARC-VAR-A-002	DRAWING NO: A-02-00



FRAMECAD PANELS
 FP 1 - 2450 X2450
 FP 2 - 2500X2450
 FP 3 - 2450 X2500
 FP 4 - 2500X2500

FRAME CAD PANEL LAYOUT
 SCALE 1:75

Z. Nakano
 2018.03-05
 FOR CONSTRUCTION

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REV	BY	DESCRIPTION	DATE
5	GU	RELOCATED WINDOW	12/12/2017
6	GU	APPROVAL ISSUE	28/12/2017
7	GU	FOR CONSTRUCTION ISSUE	07/02/2018

DRAWING INFORMATION		
DRAWN BY:	GU	14/07/17
CHECKED BY:	ST	05/12/17
CLIENT APPROVED:		

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VARIRATA INFORMATION CENTRE		LOCATION VARIRATA ,PAPUA NEW GUINEA
FLOOR FRAMING PLAN		
SCALE: 1: 75 @ A3	PROJECT NO: 201726-ARC-VAR-A-003	DRAWING NO: A-02-01

GENERAL NOTES

1. ALL ELECTRICAL WORKS TO BE CARRIED OUT BY A VALIDLY LICENSED ELECTRICAL CONTRACTOR WHO HAS NO LESS THAN 5 YEARS WORK EXPERIENCE IN SUCH WORKS.
2. ALL WORKS TO COMPLY WITH PNG POWER'S STANDARD WORK PRACTICES, AS3000 SAA RATING RULES, AND ALL OTHER RELEVANT AS/NZS STANDARDS WHICH ARE DEEMED APPLICABLE FOR THIS INSTALLATION BUT NOT LIMITED TO: PNG POWER'S REVISED ELECTRICAL CIRCULAR.
3. ALL WORKS TO COMPLY WITH PNG POWER'S STANDARD WORK PRACTICES, AS3000 SAA WIRING RULES, AND ALL OTHER RELEVANT AS/NZS WHICH ARE DEEMED APPLICABLE FOR THIS INSTALLATION.
4. THE CONTRACTOR DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENTS OF THE VARIOUS ITEMS OF THE WORKS AS DESCRIBED IN THE SPECIFICATION. THEY DO NOT NECESSARILY SHOW EXACT POSITIONS, RUNS, OF FULL DETAILS OF WORKS REQUIRED, AND IN SOME INSTANCES ARE MERELY DIAGRAMMATIC. HOWEVER, THIS SPECIFICATION AND THE DRAWINGS MUST BE UNDERSTOOD TO COVER EVERYTHING REQUIRED TO MAKE A FIRST CLASS INSTALLATION. ANYTHING SHOWN ON THE DRAWINGS WHICH IS NOT INCLUDED IN THIS SPECIFICATION, OR ANYTHING HEREIN AND NOT SHOWN ON THE DRAWINGS IN THIS SPECIFICATION, OR ANYTHING HEREIN AND NOT SHOWN ON THE DRAWINGS SHALL BE DEEMED TO BE REQUIRED AS PART OF THE CONTRACT.

for 今村君樹
Hideki (MAI) (Mk.)

CCTV SYSTEM TYPE



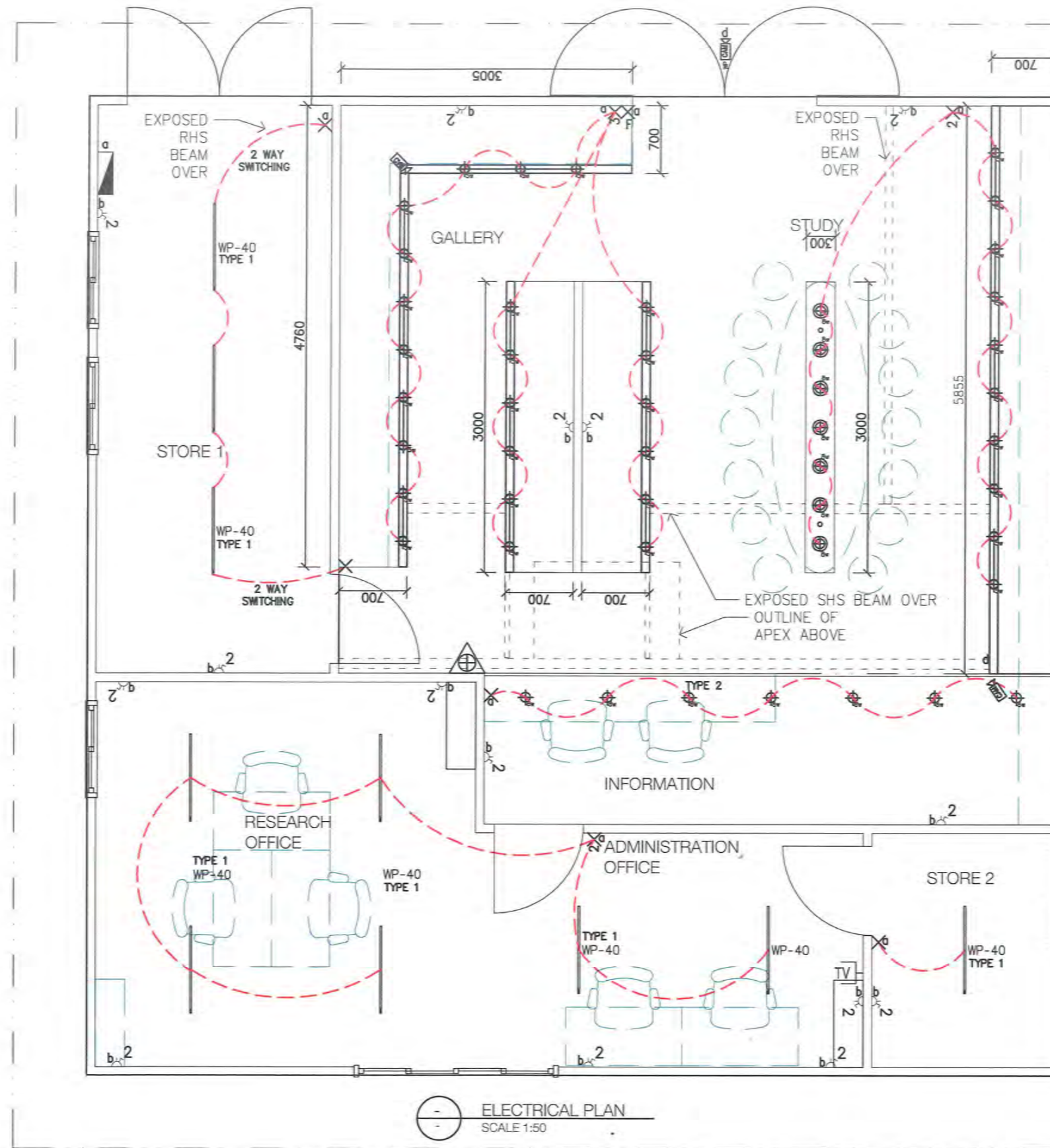
1000TVL 24 IR Led Security Surveillance Outdoor CCTV Camera



1000TVL 24PCS IR Leds Weatherproof Security Camera Had IR Cut (white)



8CH HD-TVI 720P/1080N Video DVR Video Recorder System



ELECTRICAL PLAN
SCALE 1:50

LEGEND			
SYMBOLS	NAME	LIGHT/ELECTRICAL FIXTURE TYPE	SUPPLIER
WP-40	1 x 40W FLURO W/ DIFFUSERS ENCLOSURE, CEILING MOUNTED	TYPE 1	PER LITE (SEE IMAGE BELOW)
⊕	SW LED DOWNLIGHTS, SURFACE MOUNTED	TYPE 2	AUSTRALIA LIGHTS (SEE IMAGE BELOW)
X	LIGHT SWITCH, 1-GANG, 10A	STANDARD	CLPSAL OR SIMILAR
X ²	LIGHT SWITCH, 2-GANG, 10A	STANDARD	CLPSAL OR SIMILAR
X ³	LIGHT SWITCH, 3-GANG, 10A	STANDARD	CLPSAL OR SIMILAR
—	CIRCUIT LINE	STANDARD	
—	CIRCUIT LINE DISTRIBUTION BOARDS	TBA	
⊕	CIRCUIT DESIGNATION		
2	SWITCH 15A DOUBLE GPO, STANDARD TYPE	STANDARD	CLPSAL OR SIMILAR
⊕	SECURITY CAMERA FOR CCTV (ORDINARY)	TYPE 3A	
⊕	WEATHER PROOF SECURITY CAMERA FOR CCTV (WIDE LENS)	TYPE 3B	
⊕	4.5 KG FIRE EXTINGUISHER	AS PER FIRE DEPT APPROVAL	CHUBB OR SIMILAR
⊕	SECURITY SURVEILLANCE MONITOR & RECORDER	TYPE 3C	
⊕	SW LED GLOBE, SURFACE MOUNTED	TYPE 2A	CROMPTON OR CLPSAL LAMP HOLDER
⊕	SW LED TRACK LIGHTING	TYPE 2B	www.sdl.net.au

MOUNTING ABBREVIATIONS

- a 1500 AFFL
- b 400 AFFL
- c 1200 AFFL
- d CEILING / SOFFIT MOUNTED

LIGHT FIXTURE TYPES



EC0BAT204E4

TYPE 1



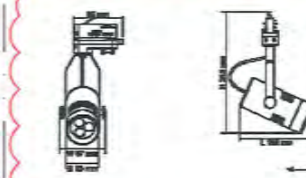
UP CL78

TYPE 2



SKU: 5199

TYPE 2A



STR4863GU

TYPE 2B

FOR CONSTRUCTION

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REV	BY	DESCRIPTION	DATE
5	GU	DELETED FANS, ADDED LIGHT & CCTV SPECS	12/12/2017
6	GU	APPROVAL ISSUE	28/12/2017
7	GU	FOR CONSTRUCTION ISSUE - REVISED TRACKLIGHTS	07/02/2018

DRAWING INFORMATION		
DRAWN BY:	GU	14/07/17
CHECKED BY:	ST	05/12/17
CLIENT APPROVED:		

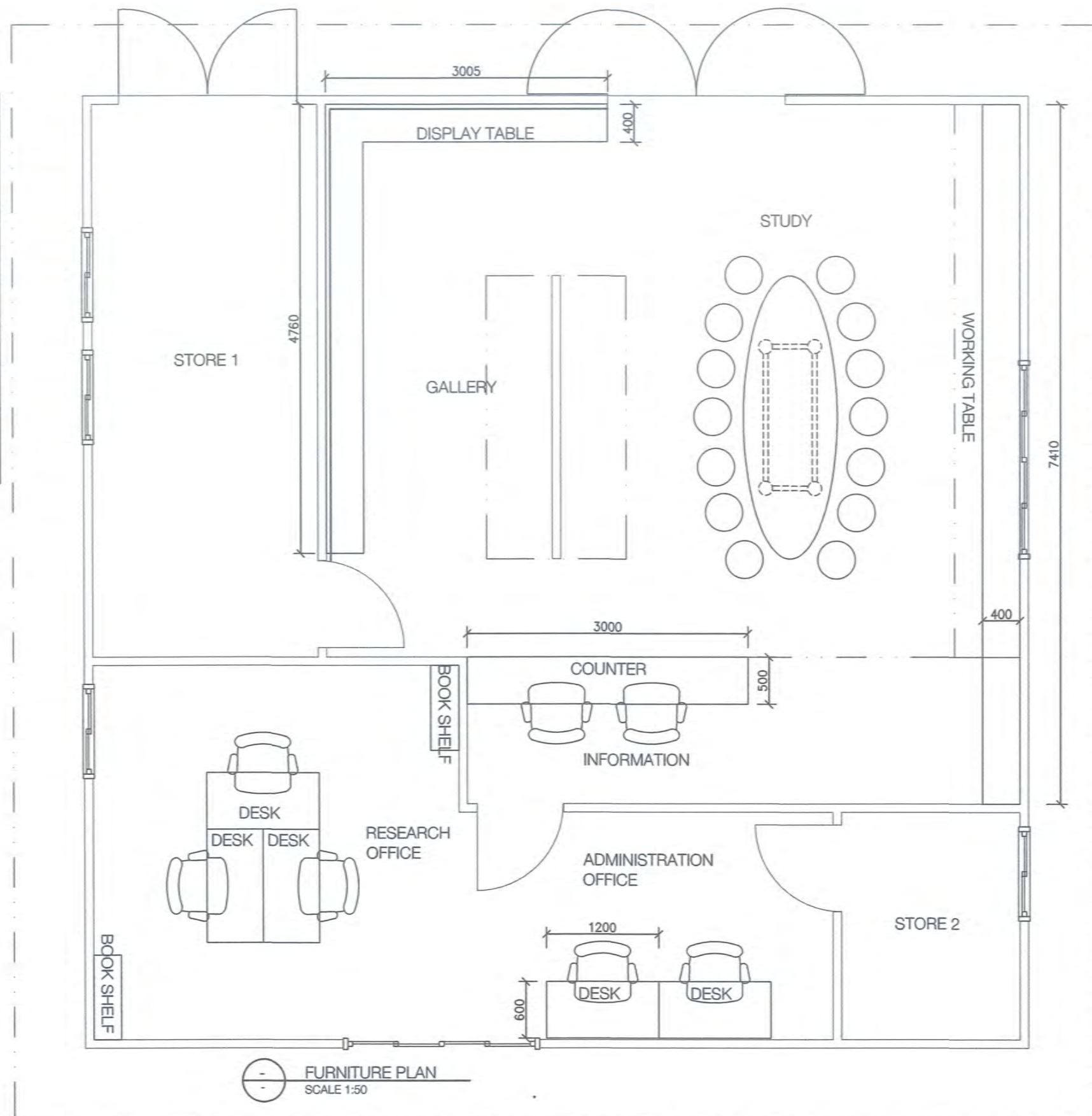
RHODES PNG
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PORTION 2702 NAPA NAPA ROAD
PAPUA NEW GUINEA
P: +675 705 08372
E: office@rhodespng.com
W: www.rhodesprojects.com



VARIRATA INFORMATION CENTRE		LOCATION VARIRATA, PAPUA NEW GUINEA
ELECTRICAL PLAN		
SCALE: 1:50 @ A3	PROJECT NO: 201726-ARC-VAR-A-004	DRAWING NO: A-02-02

REV: 7

FFE SCHEDULE (ITEM SIZES ONLY)			
LOCATION	ITEM	DESCRIPTION (L x W x H)	FINISH
STUDY	CONF. TABLE	1x (9000x 1000 x 750)	URETHANE RESIN PAINT FINISH ON TOP
STUDY	ROUND STOOLS	14 x (400mm DIA)	TO MANUFACTURER'S SPECS
STUDY	WORKING TABLE	1x 30mm thick table top (400 x 7.2UM x 750)	URETHANE RESIN PAINT FINISH ON ROSEWOOD TOP
GALLERY	DISPLAY TABLE	1x 30mm thick table top (400 x 5.9UM x 750)	URETHANE RESIN PAINT FINISH ON ROSEWOOD TOP
INFORMATION CENTRE	COUNTER	1 x (3000x500x750MM)	URETHANE RESIN PAINT FINISH ON TOP
RESEARCH OFFICE	DESKS & CHAIRS	3 x DESKS (1200x600x750MM) & 3 CHAIRS	TO MANUFACTURER'S SPECS
RESEARCH OFFICE	BOOK SHELF	1 x (600x300x1800MM)	TO MANUFACTURER'S SPECS
ADMINISTRATION OFFICE	DESKS & CHAIRS	2 x DESKS (1200x600x750MM) & 3 CHAIRS	TO MANUFACTURER'S SPECS
ADMINISTRATION OFFICE	BOOK SHELF	2 x (600x300x1800MM)	TO MANUFACTURER'S SPECS

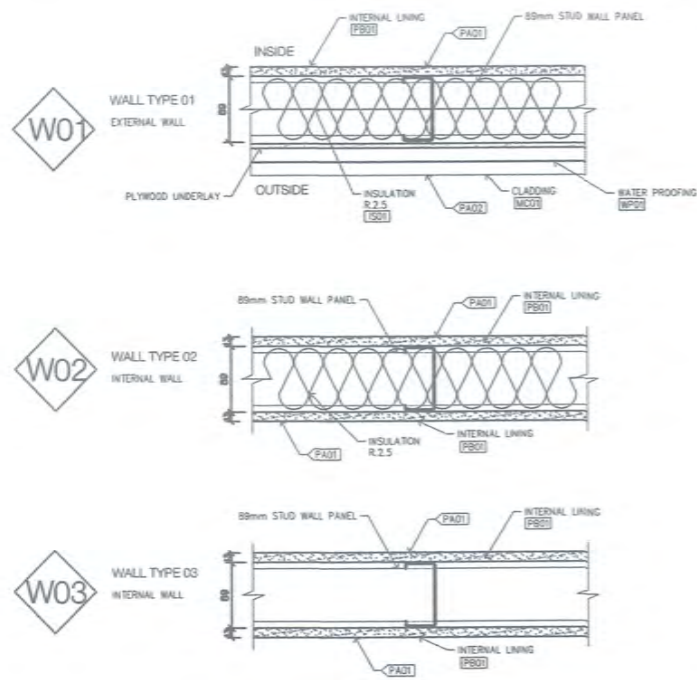


- NOTE:
1. ALL LEVELS AND DIMENSIONS MUST BE CHECKED AND VERIFIED BEFORE COMMENCEMENT OF WORK.
 2. ALL WORKS MUST BE EXECUTED IN A WORKMAN LIKE MANNER AND ALL MATERIALS MUST CONFORM TO THE PNG STANDARD CODES.
 3. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALE. DO NOT SCALE FROM DRAWING.
 4. WINDOW SIZES ARE NOMINAL ONLY.
 5. THIS DRAWING(S) IS TO BE READ IN CONJUNCTION WITH THE PROJECT SCHEDULE AND SPECIFICATIONS, ENGINEERS COMPUTATIONS AND / OR PLANS AND SOIL TEST REPORT WHERE INDICATED.
 6. ALL THE LEVELS AND NUMBER OF STAIRS TO BE DETERMINED ON SITE BY AGL SITE SUPERVISOR
 7. FINISHED FLOOR LEVEL TO BE DETERMINED ON SITE

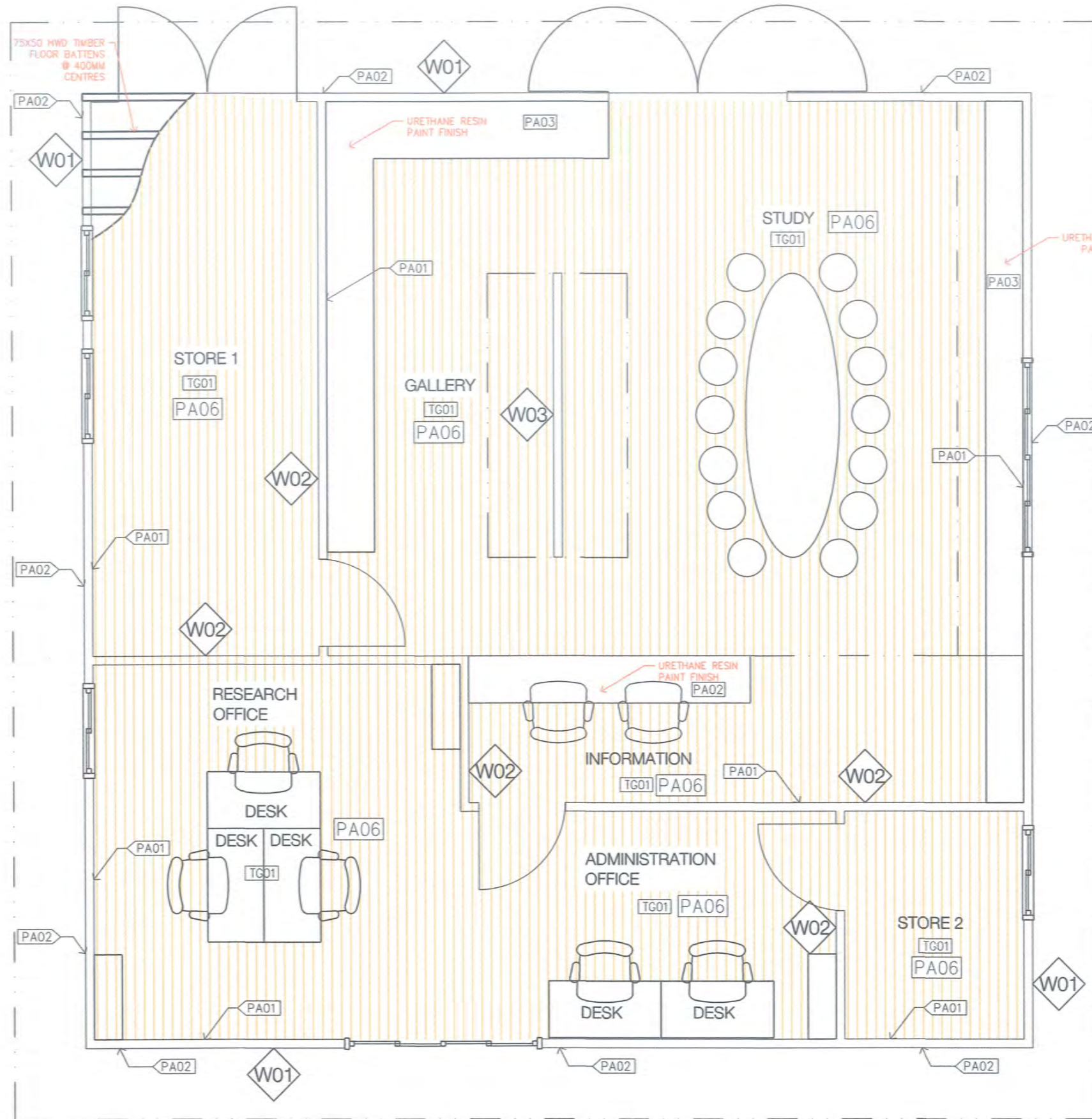
FURNITURE PLAN
SCALE 1:50

T. Akano
2018-03-05
FOR CONSTRUCTION

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	<table border="1"> <thead> <tr> <th>REV</th> <th>BY</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>GU</td> <td>RE-ARRANGED OFFICE FURNITURE</td> <td>12/12/2017</td> </tr> <tr> <td>6</td> <td>GU</td> <td>APPROVAL ISSUE</td> <td>28/12/2017</td> </tr> <tr> <td>7</td> <td>GU</td> <td>FOR CONSTRUCTION ISSUE</td> <td>07/02/2018</td> </tr> <tr> <td>8</td> <td>GU</td> <td>UPDATED BOOKSHELF QTY</td> <td>19/02/2018</td> </tr> </tbody> </table>	REV	BY	DESCRIPTION		DATE	5	GU	RE-ARRANGED OFFICE FURNITURE	12/12/2017	6	GU	APPROVAL ISSUE	28/12/2017	7	GU	FOR CONSTRUCTION ISSUE	07/02/2018	8	GU	UPDATED BOOKSHELF QTY	19/02/2018	<table border="1"> <tbody> <tr> <td>DRAWN BY:</td> <td>GU</td> <td>14/07/17</td> </tr> <tr> <td>CHECKED BY:</td> <td>ST</td> <td>05/12/17</td> </tr> <tr> <td>CLIENT APPROVED:</td> <td></td> <td></td> </tr> </tbody> </table>	DRAWN BY:	GU	14/07/17	CHECKED BY:	ST	05/12/17	CLIENT APPROVED:			Rhodes better buildings	FURNITURE PLAN	SCALE: 1: 50 @ A3
REV	BY	DESCRIPTION	DATE																																
5	GU	RE-ARRANGED OFFICE FURNITURE	12/12/2017																																
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DRAWN BY:	GU	14/07/17																																	
CHECKED BY:	ST	05/12/17																																	
CLIENT APPROVED:																																			



FLOOR FINISHES SCHEDULE		
SYMBOL	ITEM	DESCRIPTION
TG01	FLOOR FINISH	100X25 T&G TIMBER PLANK BOARDING
INTERNAL WALL FINISHES SCHEDULE		
PB01	PLASTERBOARD	1X LAYER OF 13MM GYPROCK OR SIMILAR PLASTERBOARD
SK01	SKIRTING	75X12 APAC TIMBER SKIRTING
EXTERNAL WALL FINISHES SCHEDULE		
MC01	HARDI PLANKS	HARDIE PLANK OR SIMILAR FC 'LAP SIDING'
PAINT FINISHES SCHEDULE		
PA01	INTERIOR PAINT FINISH	'BEIGE' SEMI GLOSS - NIPPON PAINT - 1302
PA02	EXTERIOR PAINT FINISH	'CLASSIC CREAM' FULL GLOSS - TAUBMANS PAINT
PA03	JOINERY BENCH TOP FINISH	URETHANE RESIN PAINT FINISH (ON ROSEWOOD)
PA04	TRIMS	'BEIGE' FULL GLOSS - NIPPON PAINT - 1302
PA05	POSTS / SUB FLOOR	FULL GLOSS - LEATHER - NIPPON PAINT 1200
PA06	FLOOR STAIN	NIPPON INSPIRATIONA - T125 GOLDEN CHERRY and FINISHED WITH NIPPON TIMBERLAC



FURNITURE PLAN
SCALE 1:50

Z. Arkano
2018-03-05
FOR CONSTRUCTION

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REVISIONS			
REV	BY	DESCRIPTION	DATE
5	GU	RE-ARRANGED OFFICE FURNITURE	12/12/2017
6	GU	APPROVAL ISSUE	06/01/2018
7	GU	FOR CONSTRUCTION ISSUE	07/02/2018

DRAWING INFORMATION		
DRAWN BY:	GU	14/07/17
CHECKED BY:	ST	05/12/17
CLIENT APPROVED:		

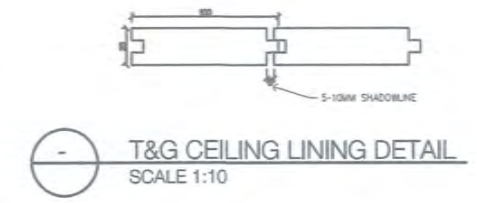
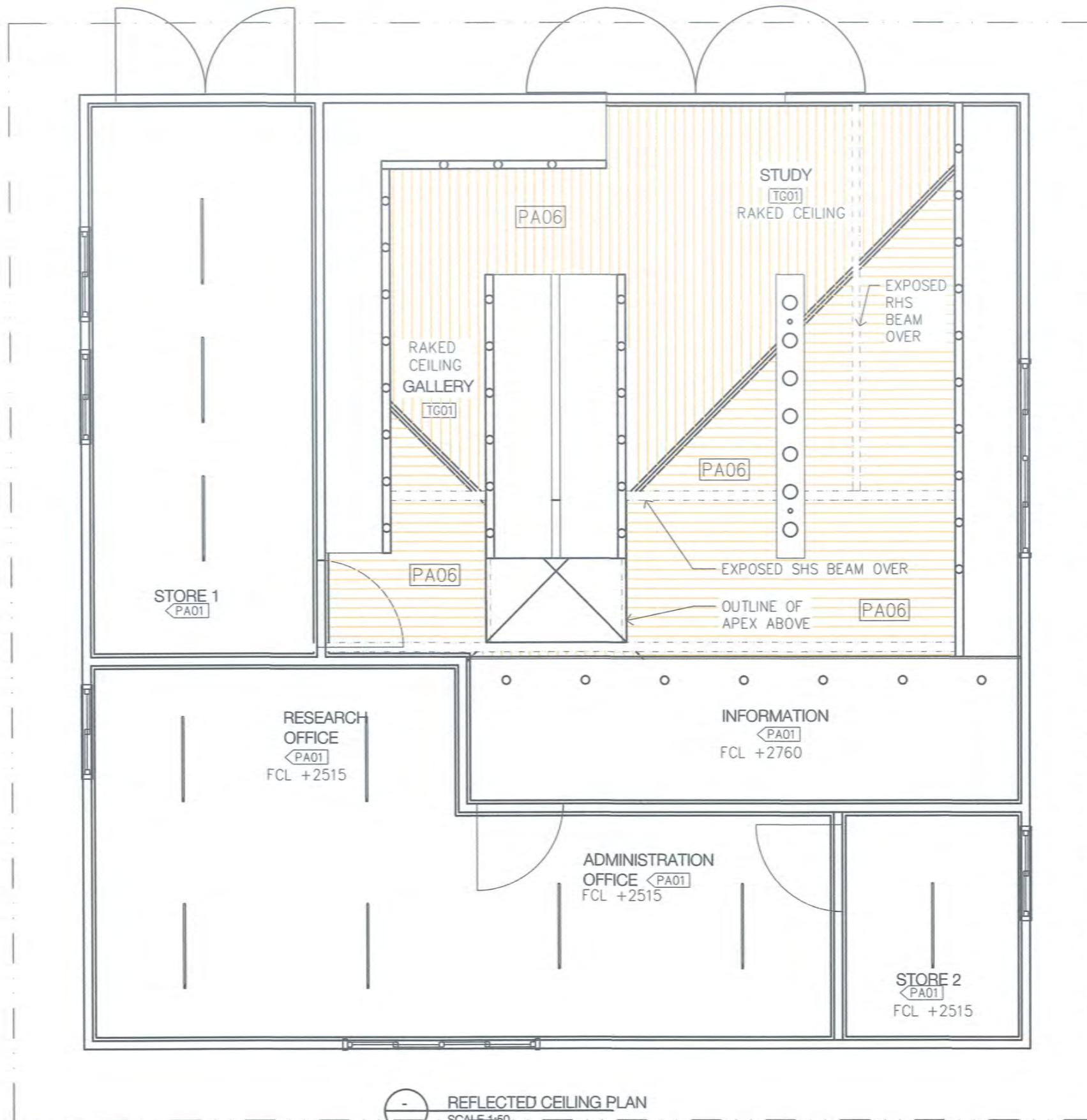
RHODES PNG
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PORTION 2702 NAPA NAPA ROAD
PAPUA NEW GUINEA

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VARIRATA INFORMATION CENTRE		LOCATION
WALL & FLOOR FINISHES SCHED.		VARIRATA, PAPUA NEW GUINEA
SCALE: 1:50 @ A3	PROJECT NO: 201726-ARC-VAR-A-006	DRAWING NO: A-02-04

FLOOR FINISHES SCHEDULE		
SYMBOL	ITEM	DESCRIPTION
TG01	FLOOR FINISH	100X25 T&G TIMBER PLANK BOARDING
INTERNAL WALL FINISHES SCHEDULE		
PB01	PLASTERBOARD	1X LAYER OF 13MM GYPROCK OR SIMILAR PLASTERBOARD
SK01	SKIRTING	75X12 APAC TIMBER SKIRTING
EXTERNAL WALL FINISHES SCHEDULE		
MC01	HARDI PLANKS	HARDIE PLANK OR SIMILAR FC 'LAP SIDING'
PAINT FINISHES SCHEDULE		
PA01	INTERIOR PAINT FINISH	'BEIGE' SEMI GLOSS - NIPPON PAINT - 1302
PA02	EXTERIOR PAINT FINISH	'CLASSIC CREAM' FULL GLOSS - TAUBMANS PAINT
PA03	JOINERY BENCH TOP FINISH	URETHAN RESIN PAINT FINISH (ON ROSEWOOD)
PA04	TRIMS	'BEIGE' FULL GLOSS - NIPPON PAINT - 1302
PA05	POSTS / SUB FLOOR	FULL GLOSS - LEATHER - NIPPON PAINT 1200
PA06	FLOOR STAIN	NIPPON INSPIRATIONA - T125 GOLDEN CHERRY and FINISHED WITH NIPPON TIMBERLAC



REFLECTED CEILING PLAN
SCALE 1:50

T. Nakano
2019.03.05
FOR CONSTRUCTION

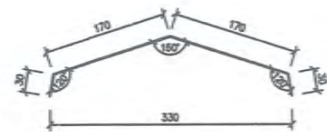
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	REV	BY	DESCRIPTION	DATE																												
5	GU	DELETED FANS, ADDED LIGHT FITTINGS	12/12/2017																													
6	GU	APPROVAL ISSUE	04/01/2018																													
7	GU	FOR CONSTRUCTION	07/02/2018																													
DRAWN BY:	GU	14/07/17																														
CHECKED BY:	ST	05/12/17																														
CLIENT APPROVED:																																
REFLECTED CEILING PLAN		SCALE: 1:50 @ A3	PROJECT NO: 201726-ARC-VAR-A-006A	DRAWING NO: A-02-05	REV: 7																											



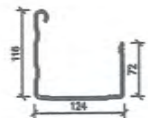
ROOF SCHEDULE		
SYMBOL	ITEM	DESCRIPTION
R1	HIP / RIDGE CAPPING	0.6 BMT COLORBOND (MIST GREEN)
R2	TRIMLINE GUTTER	CLIPS MAKE FIXING TRIMLINE GUTTER, COLOUR: (MIST GREEN)
R3	TIMBER FASCIA BOARD	250X75 HW
R4	DOWNPIPE	100 DIA GALV. STEEL OR ALTERNATIVE TO SUIT REGIONAL RAINFALL, COLOUR: REFER TO ROOF SCHEDULE
R5	ROOF SHEETING	0.48 BMT COLORBOND CUSTOM ORB, COLOUR (MIST GREEN)

NOTES:

- REFER TO ROOF SCHEDULE FOR ALL ROOFING MATERIAL SPECIFICATIONS.
- LOCATION OF PLUMBING SERVICES TO BE DETERMINED BY CONTRACTOR ON SITE.
- CHECK STRUCTURAL DRAWING FOR DESIGNED POINT LOADS TO ROOF



1 R1
SCALE 1:5

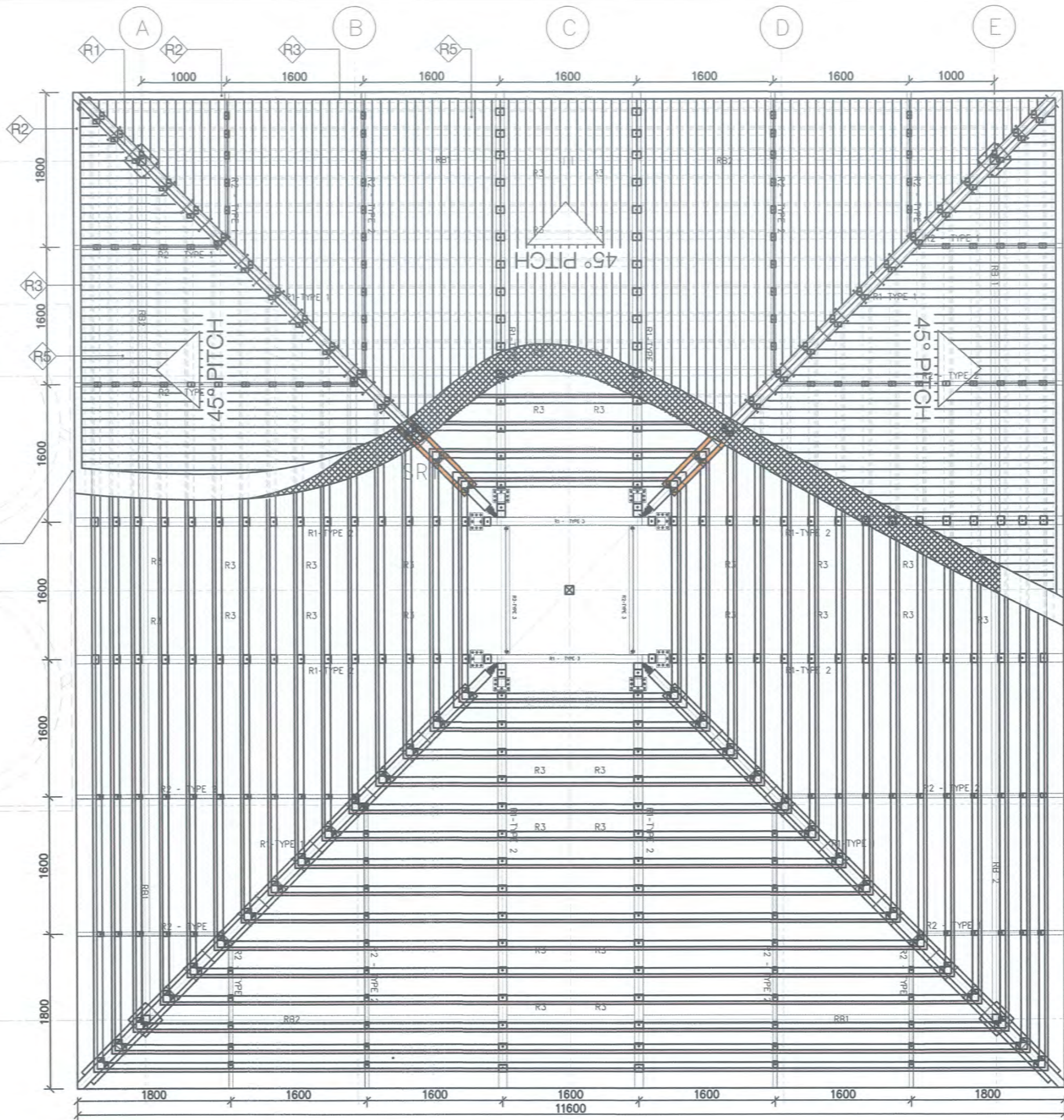


2 R2
SCALE 1:5

ROOF PLAN
SCALE 1:50

9000L TUFFA WATER TANK

9000L TUFFA WATER TANK



J. Sakar
2018-03-05

FOR CONSTRUCTION

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REVISIONS			
REV	BY	DESCRIPTION	DATE
5	GU	UPDATED ROOF NOTES & AMENDED DOWN PIPE FALLS	12/12/2017
6	GU	APPROVAL ISSUE	28/12/2017
7	GU	CONSTRUCTION ISSUE	07/02/2018

DRAWING INFORMATION		
DRAWN BY:	GU	14/07/17
CHECKED BY:	ST	05/12/17
CLIENT APPROVED:		

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PORTION 2702 NAPA NAPA ROAD
PAPUA NEW GUINEA

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(E) office@rhodespng.com
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VARIRATA INFORMATION CENTRE

ROOF PLAN

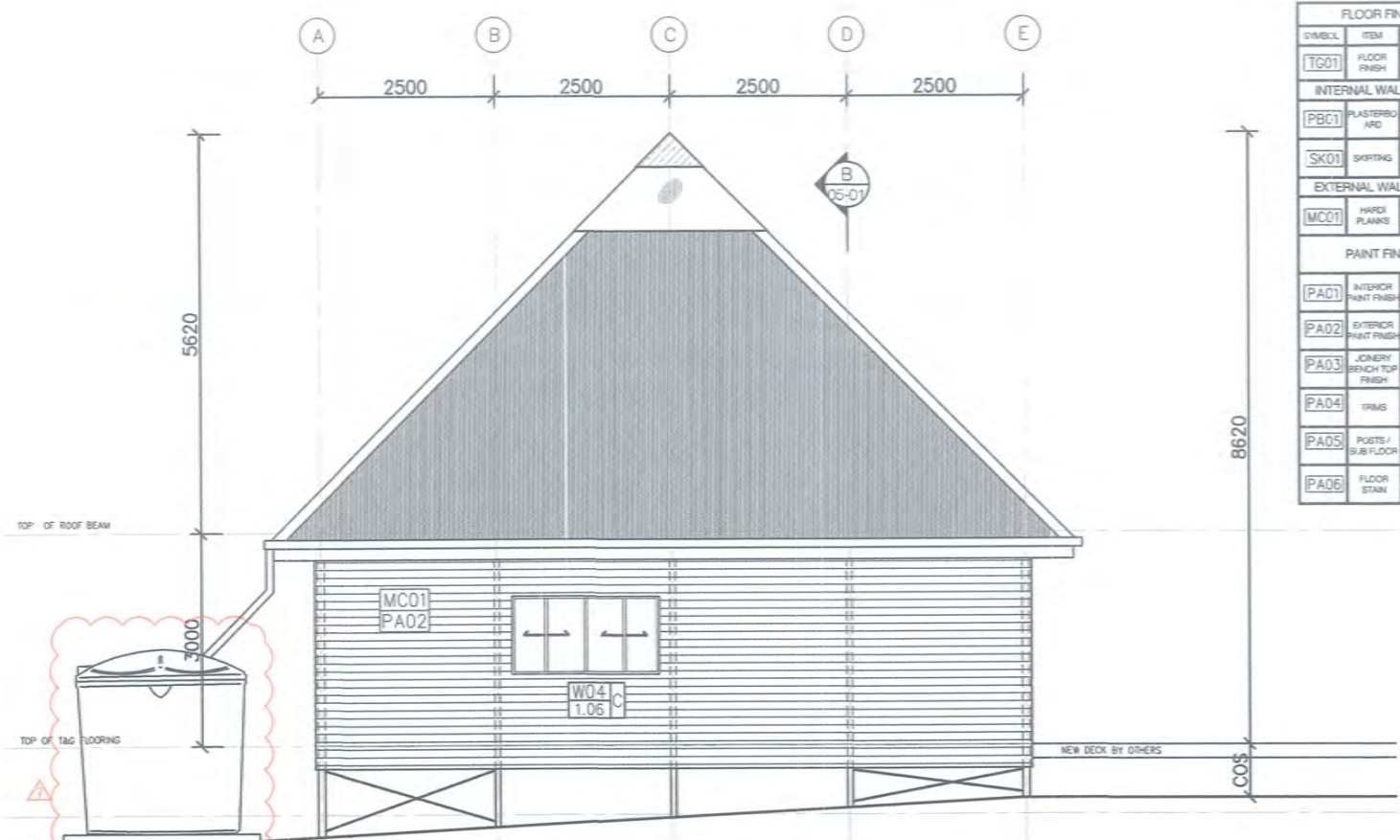
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PROJECT NO:
201726-ARC-VAR-A-007

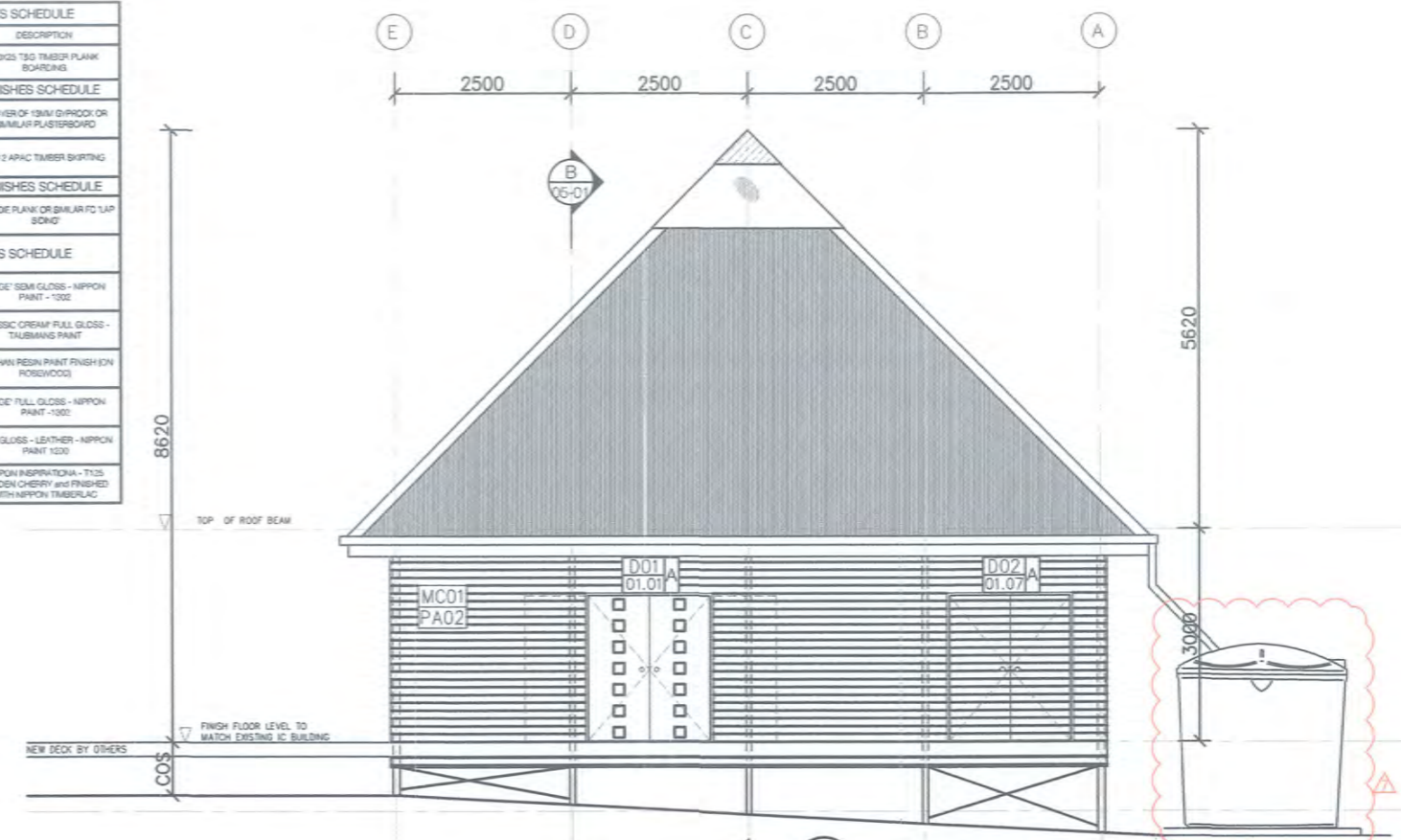
LOCATION
VARIRATA ,PAPUA NEW GUINEA

DRAWING NO:
A-03-00

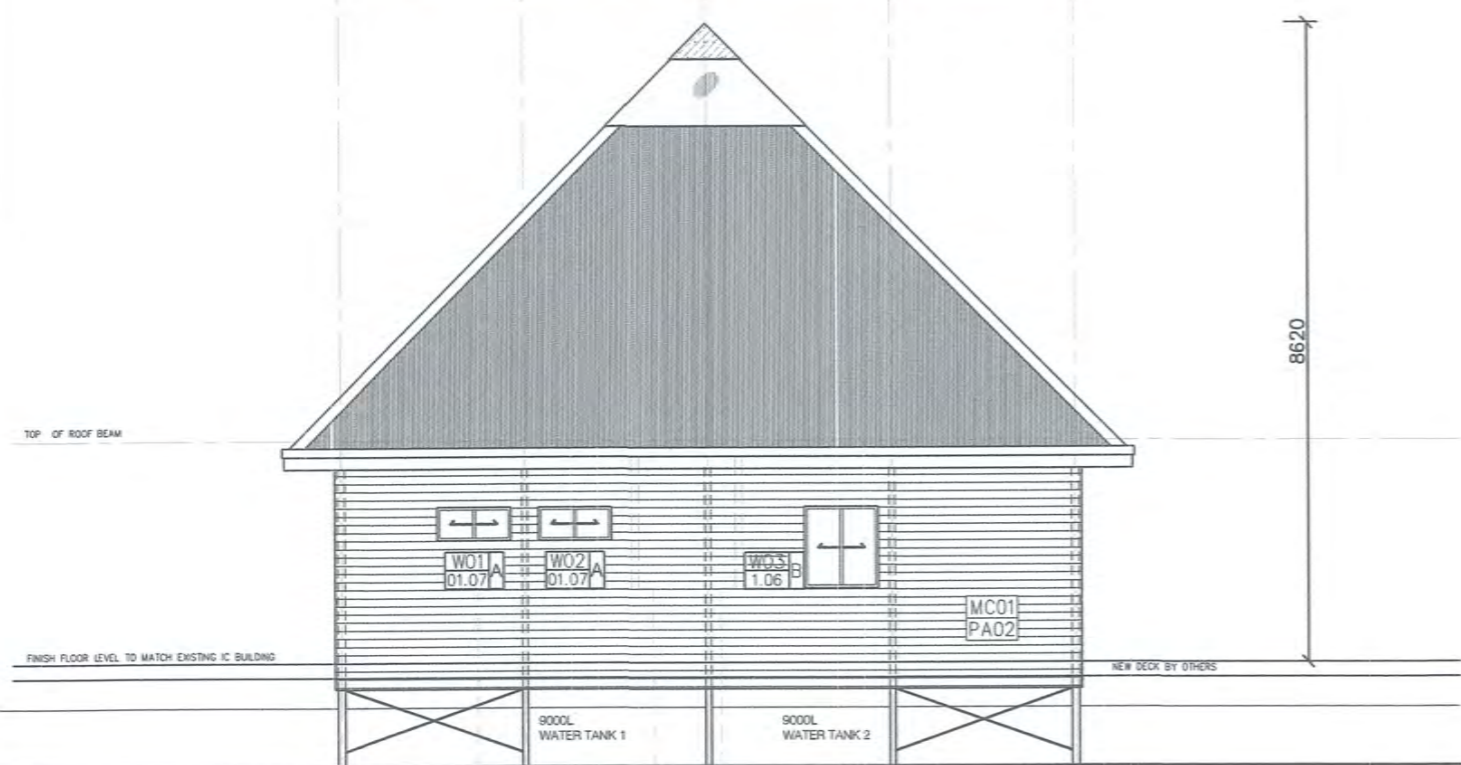
7



E1 SW ELEVATION
SCALE 1:100



E3 NE ELEVATION
SCALE 1:100



E2 NW ELEVATION
SCALE 1:100



E4 SE ELEVATION
SCALE 1:100

FLOOR FINISHES SCHEDULE		
SYMBOL	ITEM	DESCRIPTION
TG01	FLOOR FINISH	10002 T&G TIMBER PLANK BOARDING
INTERNAL WALL FINISHES SCHEDULE		
PBC1	PLASTERBOARD	10LAYER OF 12MM GIBROCK OR SIMILAR PLASTERBOARD
SK01	SKirting	10012 APAC TIMBER SKIRTING
EXTERNAL WALL FINISHES SCHEDULE		
MC01	HARD PLANKS	HARD PLANK OR SHALAR FC LAP BOARD
PAINT FINISHES SCHEDULE		
PA01	INTERIOR PAINT FINISH	'SECC' SEMI GLOSS - NIPPON PAINT - 1002
PA02	EXTERIOR PAINT FINISH	'CLASSIC CREAM' FULL GLOSS - TAUBMAN'S PAINT
PA03	JOINERY BRANCH TOP FINISH	'URETHAN RESIN PAINT FINISH ON ROSEWOOD'
PA04	TRIMS	'SECC' FULL GLOSS - NIPPON PAINT - 1002
PA05	POSTS / SUB FLOOR	FULL GLOSS - LEATHER - NIPPON PAINT 1001
PA06	FLOOR STAIN	NIPPON INSPIRATION - T125 GOLDEN CHERRY and FINISHED WITH NIPPON TIMBERLAC

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REVISIONS			
REV	BY	DESCRIPTION	DATE
5	GU	DELETED SECURITY GRILL DOORS AND WINDOWS AND UPDATED DOWNPIPE FALLS TO TANKS	12/12/2017
6	GU	UPDATED W05 LOCATION ON SE ELEVATION	06/01/2018
7	GU	DOOR D02 TO MATCH EXTERNAL WALL FINISH FOR CONSTRUCTION	07/02/2018

DRAWING INFORMATION		
DRAWN BY:	GU	14/07/17
CHECKED BY:	ST	14/12/17
CLIENT APPROVED:		

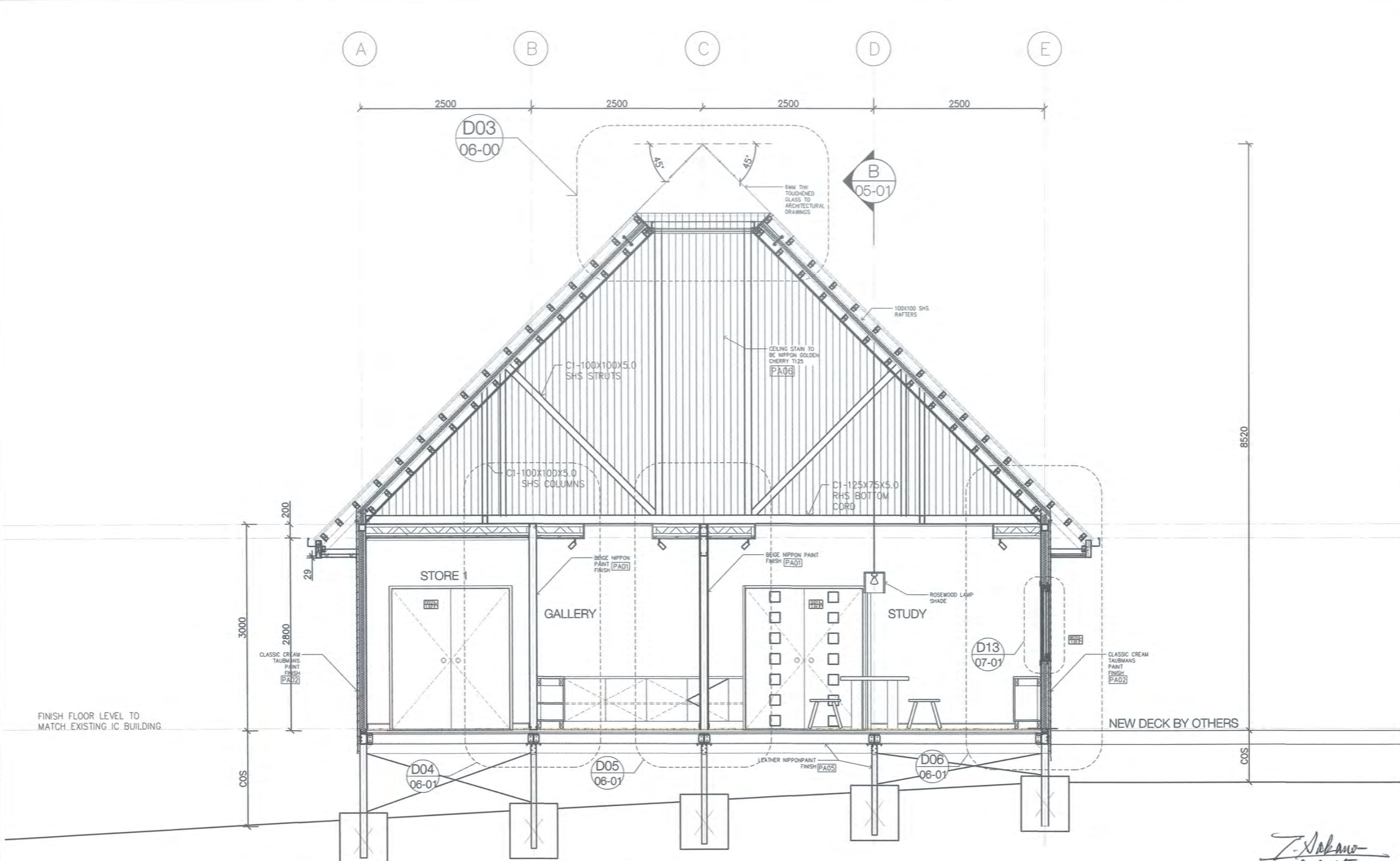
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PORTION 2702 NAPA NAPA ROAD
PAPUA NEW GUINEA

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(E) office@rhodespng.com
(W) www.rhodesprojects.com



VARIRATA INFORMATION CENTRE		LOCATION
ELEVATIONS		VARIRATA, PAPUA NEW GUINEA
SCALE:	PROJECT NO:	DRAWING NO:
1: 50 @ A3	201726-ARC-VAR-A-008	A-04-00

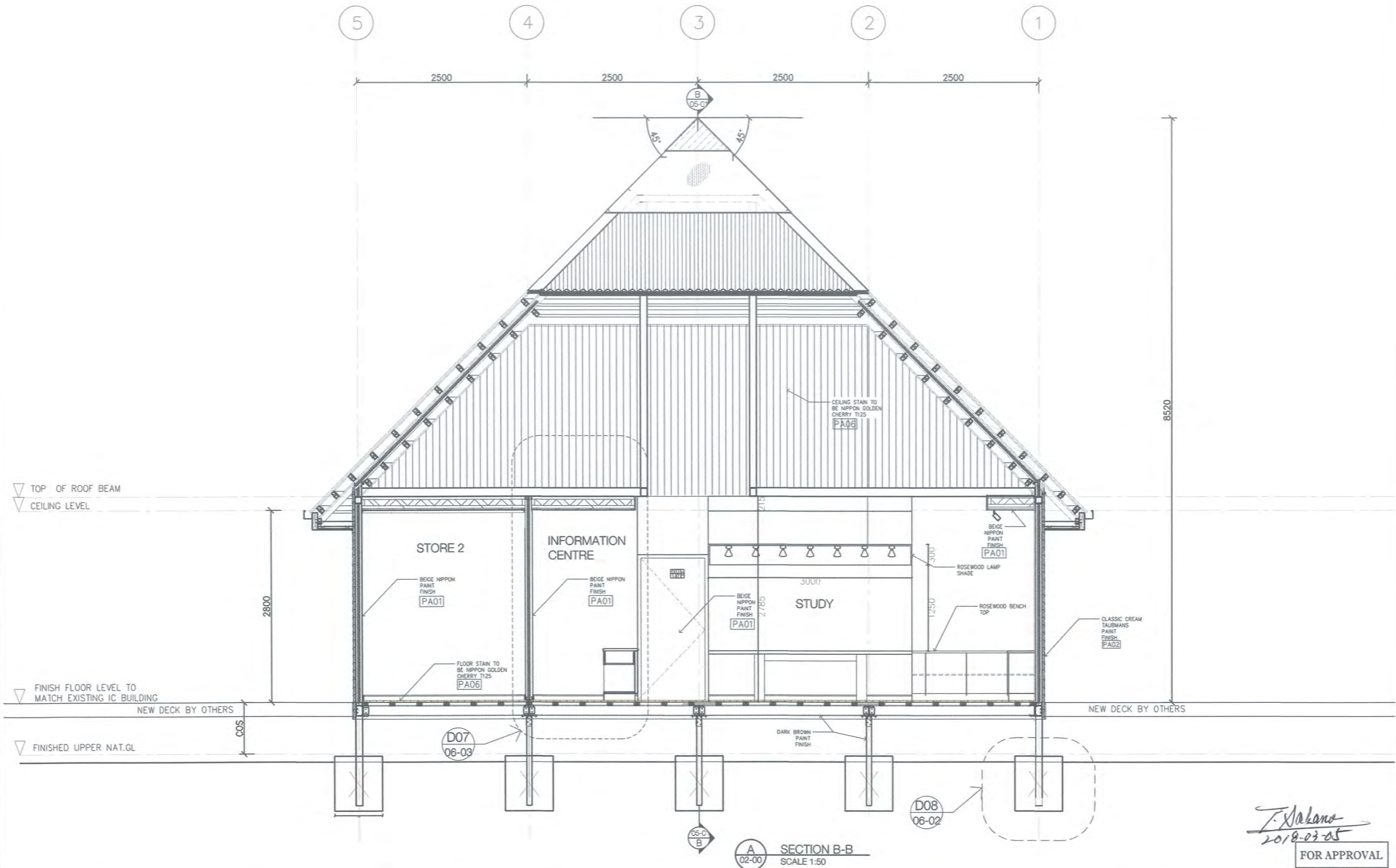
Z. Sakano
2018.03.05
FOR APPROVAL



A SECTION A-A
02-00 SCALE 1:50

Z. Sakano
2018.03.05
FOR APPROVAL

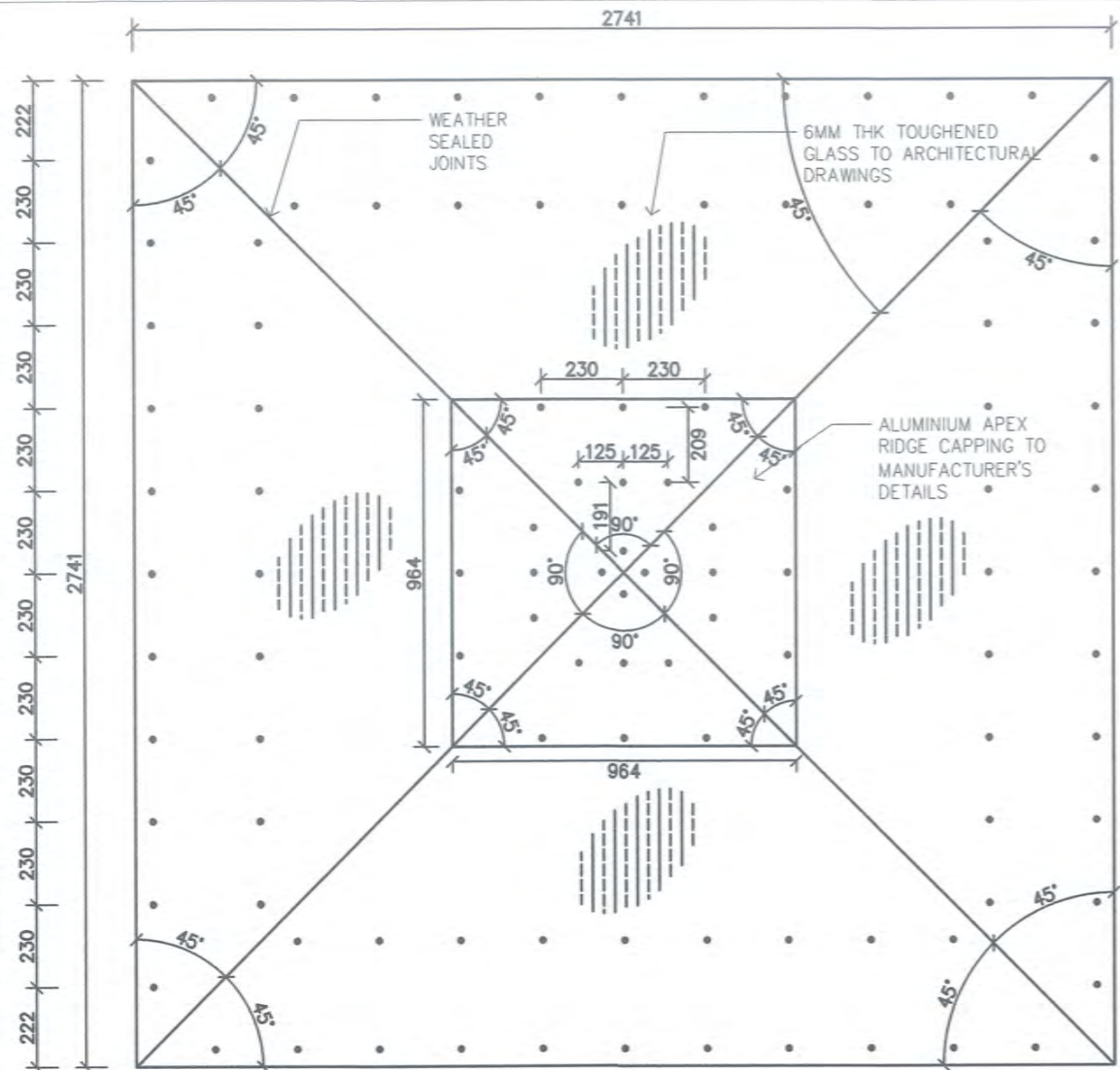
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6	GU	APPROVAL ISSUE	05/01/2018																					
7	GU	FOR CONSTRUCTION	07/02/2018																					
Rhodes better buildings		SECTION A-A SCALE: 1:50 @ A3 PROJECT NO: 201726-ARC-VAR-A-009 DRAWING NO: A-05-00																						



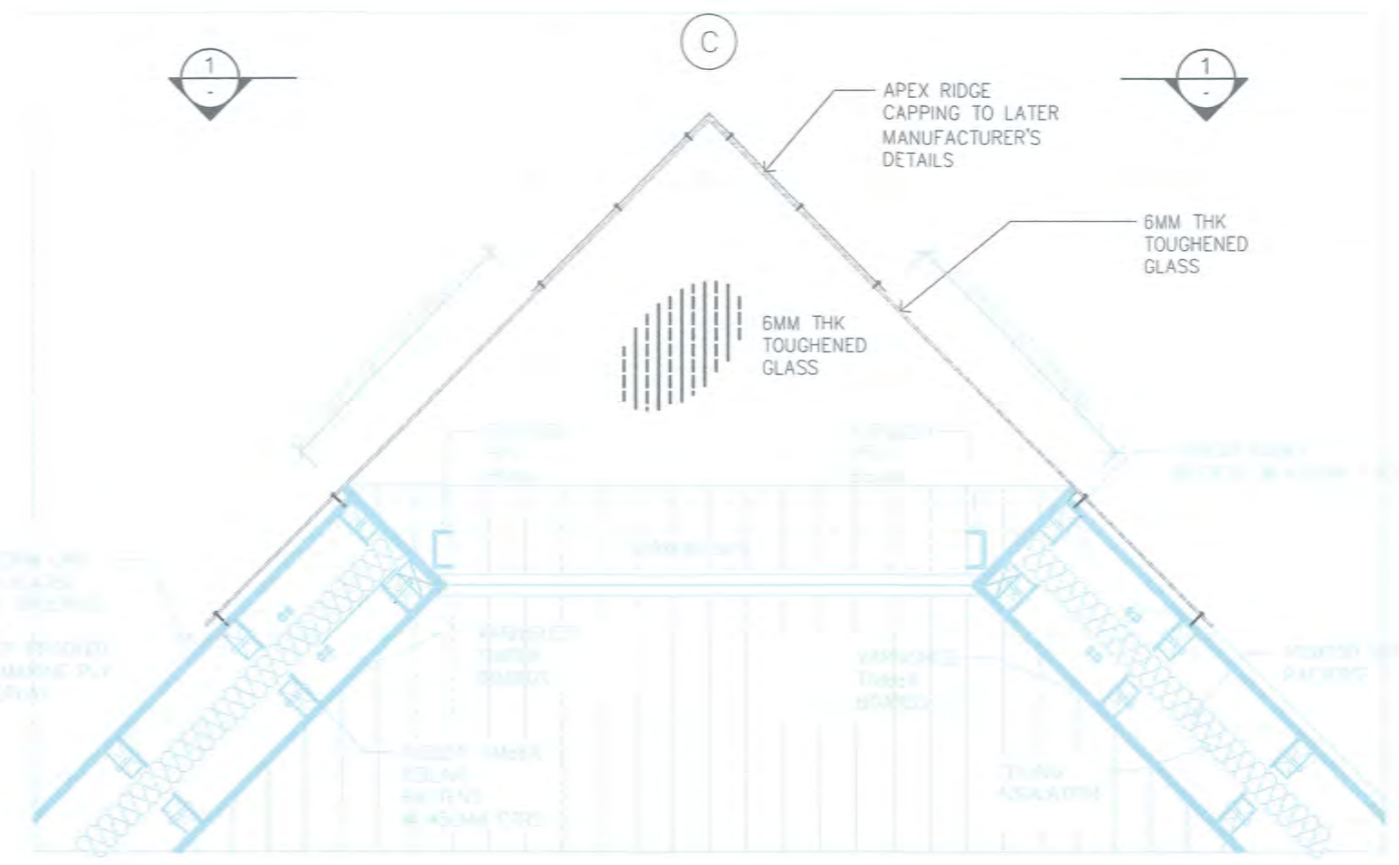
A 02-00 SECTION B-B
SCALE 1:50

F. Nakano
2018-03-05
FOR APPROVAL

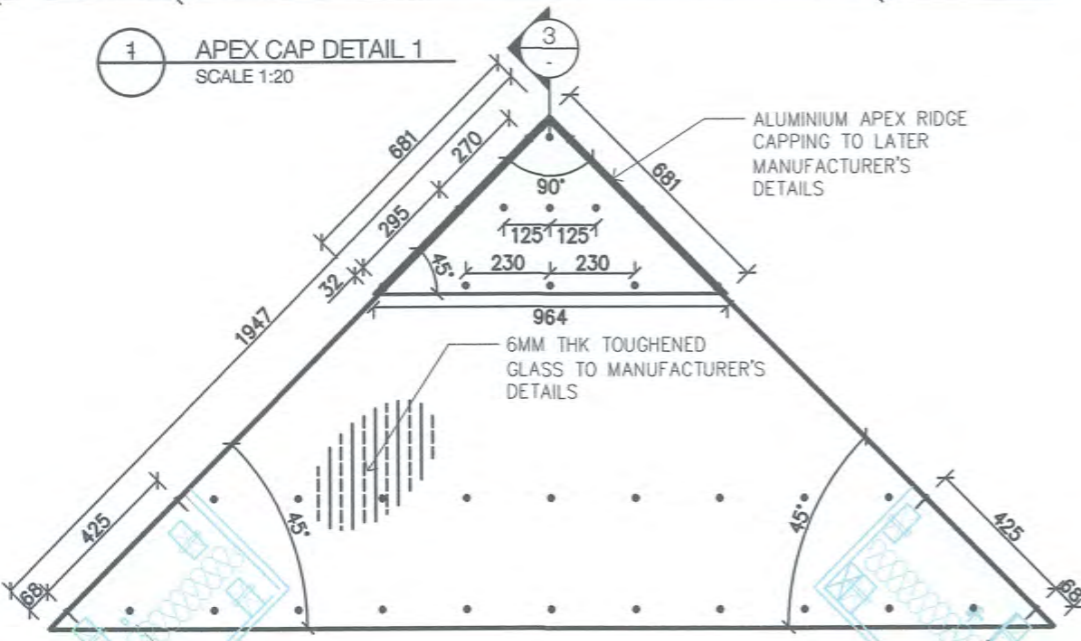
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	<table border="1"> <thead> <tr> <th>REV</th> <th>BY</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>GU</td> <td>ADDED 75x50 FLOOR SUBSTRATE</td> <td>12/12/2017</td> </tr> <tr> <td>6</td> <td>GU</td> <td>APPROVAL ISSUE</td> <td>05/01/2018</td> </tr> <tr> <td>7</td> <td>GU</td> <td>FOR CONSTRUCTION</td> <td>07/02/2018</td> </tr> </tbody> </table>	REV	BY	DESCRIPTION	DATE	5	GU	ADDED 75x50 FLOOR SUBSTRATE	12/12/2017	6	GU	APPROVAL ISSUE	05/01/2018	7	GU	FOR CONSTRUCTION	07/02/2018	<table border="1"> <tbody> <tr> <td>DRAWN BY:</td> <td>GU</td> <td>14/07/17</td> </tr> <tr> <td>CHECKED BY:</td> <td>ST</td> <td>05/12/17</td> </tr> <tr> <td>CLIENT APPROVED:</td> <td></td> <td></td> </tr> </tbody> </table>	DRAWN BY:	GU	14/07/17	CHECKED BY:	ST	05/12/17	CLIENT APPROVED:			RHODES PNG POREBADA, CENTRAL PROVINCE PORTION 2702 NAPA NAPA ROAD PAPUA NEW GUINEA (P) +675 705 08372 (E) office@rhodespng.com (W) www.rhodesprojects.com	Rhodes better buildings		SECTION B-B		SCALE: 1:50 @ A3	PROJECT NO: 201726-ARC-VAR-A-010	DRAWING NO: A-05-01
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5	GU	ADDED 75x50 FLOOR SUBSTRATE	12/12/2017																																
6	GU	APPROVAL ISSUE	05/01/2018																																
7	GU	FOR CONSTRUCTION	07/02/2018																																
DRAWN BY:	GU	14/07/17																																	
CHECKED BY:	ST	05/12/17																																	
CLIENT APPROVED:																																			



1 APEX CAP DETAIL 1
SCALE 1:20



3 APEX CAP DETAIL 3
SCALE 1:20



2 APEX CAP DETAIL 2
SCALE 1:20

Z. Nakano
2018-03-05
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REVISIONS			
REV	BY	DESCRIPTION	DATE
5	GU	UPDATED ROOF NOTES & AMENDED DOWN PIPE FALLS	12/12/2017
6	GU	APPROVAL ISSUE	05/01/2018
7	GU	FOR CONSTRUCTION ISSUE	12/02/2018

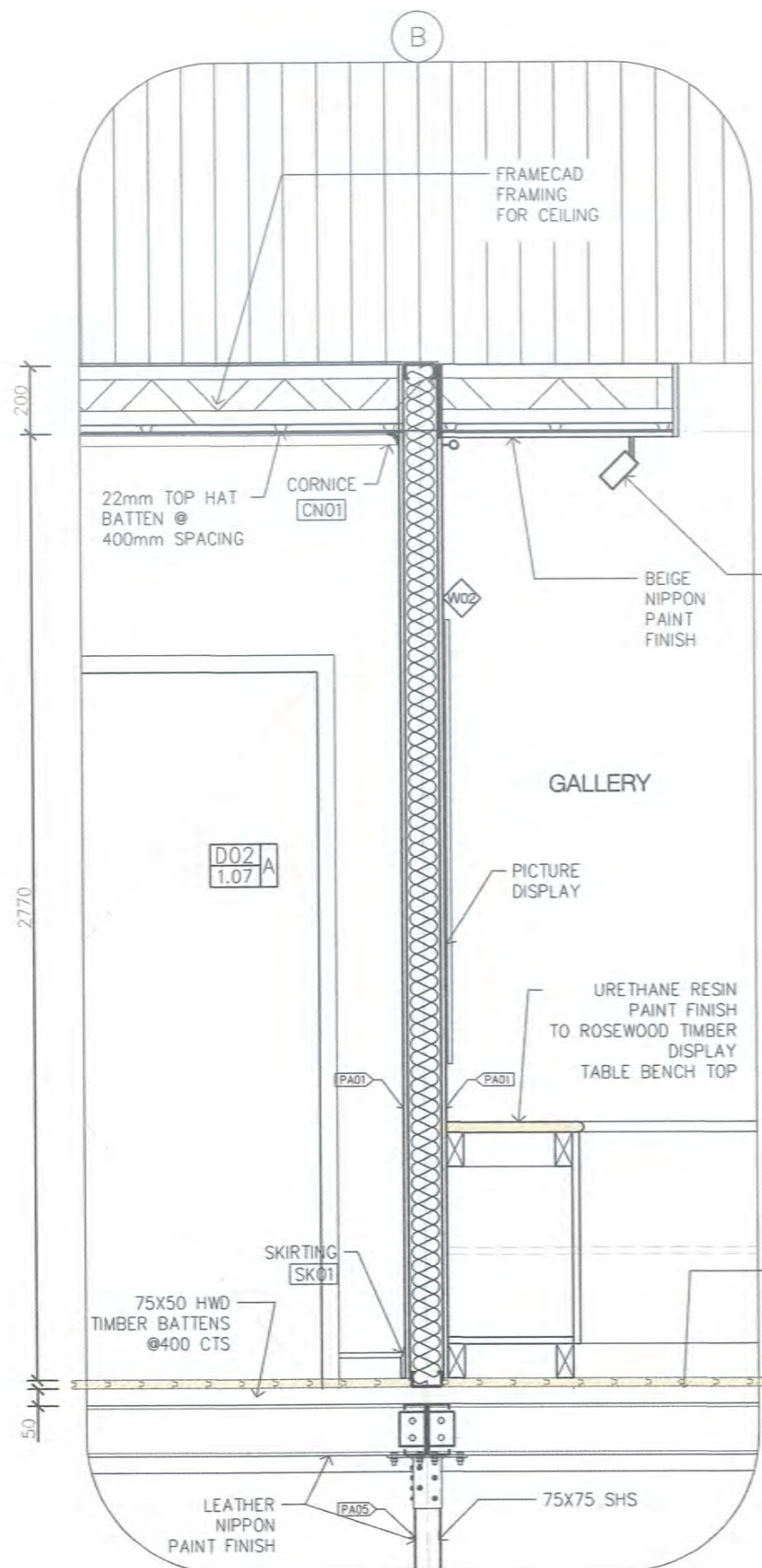
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CHECKED BY:	ST	05/12/17
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PORTION 2702 NAPA NAPA ROAD
PAPUA NEW GUINEA

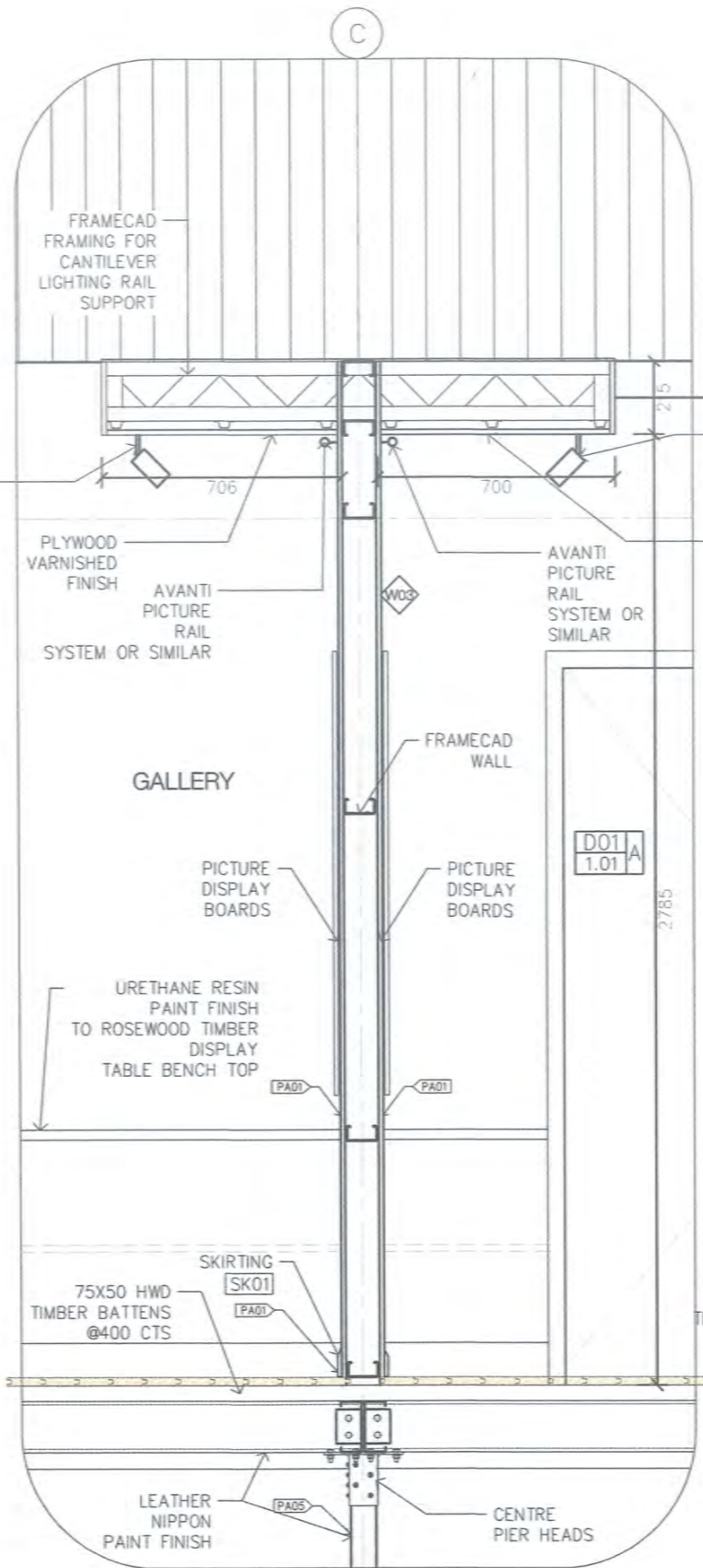
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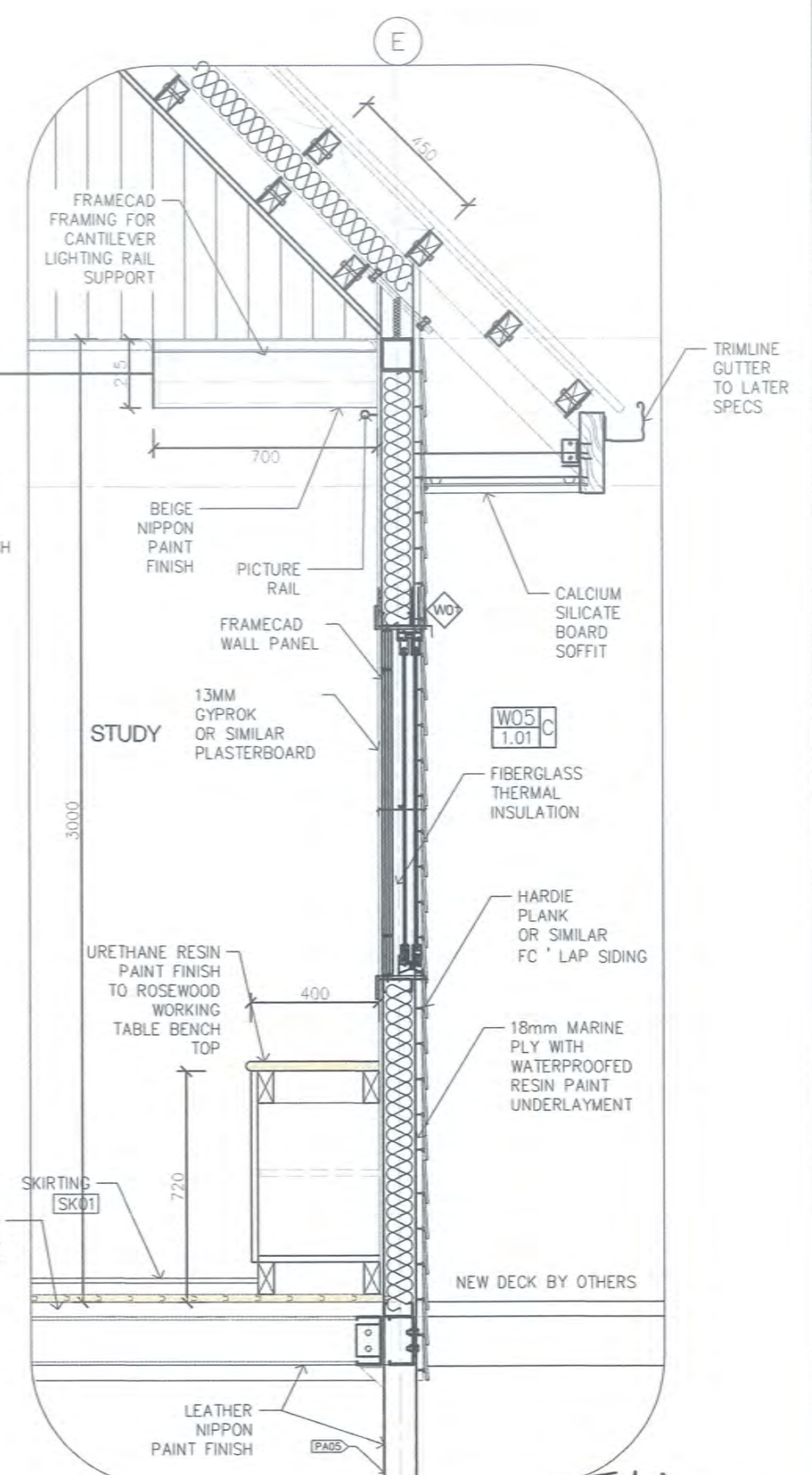
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DETAILS 1		VARIRATA, PAPUA NEW GUINEA
SCALE:	PROJECT NO:	DRAWING NO:
1:20 @ A3	201726-ARC-VAR-A-011	A-06-00



4 DETAIL 4
05-00 SCALE 1:20



5 DETAIL 5
05-00 SCALE 1:20



6 DETAIL 6
05-00 SCALE 1:20

T. Nakano
2018.03.05

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REV	BY	DESCRIPTION	DATE
5	GU	UPDATED ROOF NOTES & AMENDED DOWN PIPE FALLS	12/12/2017
6	GU	APPROVAL ISSUE	05/01/2018
7	GU	FOR CONSTRUCTION ISSUE	12/02/2018

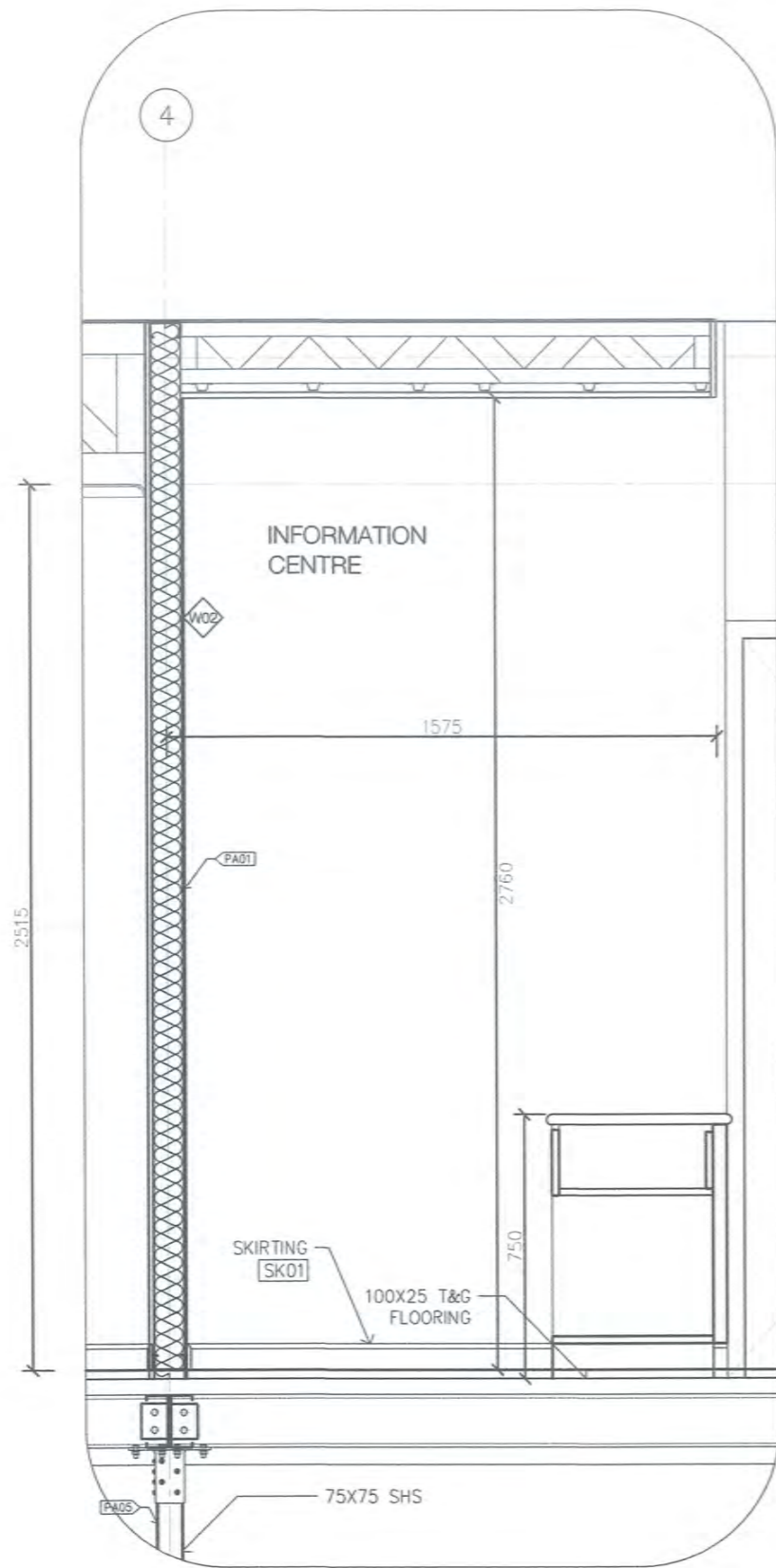
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PORTION 2702 NAPA NAPA ROAD
PAPUA NEW GUINEA

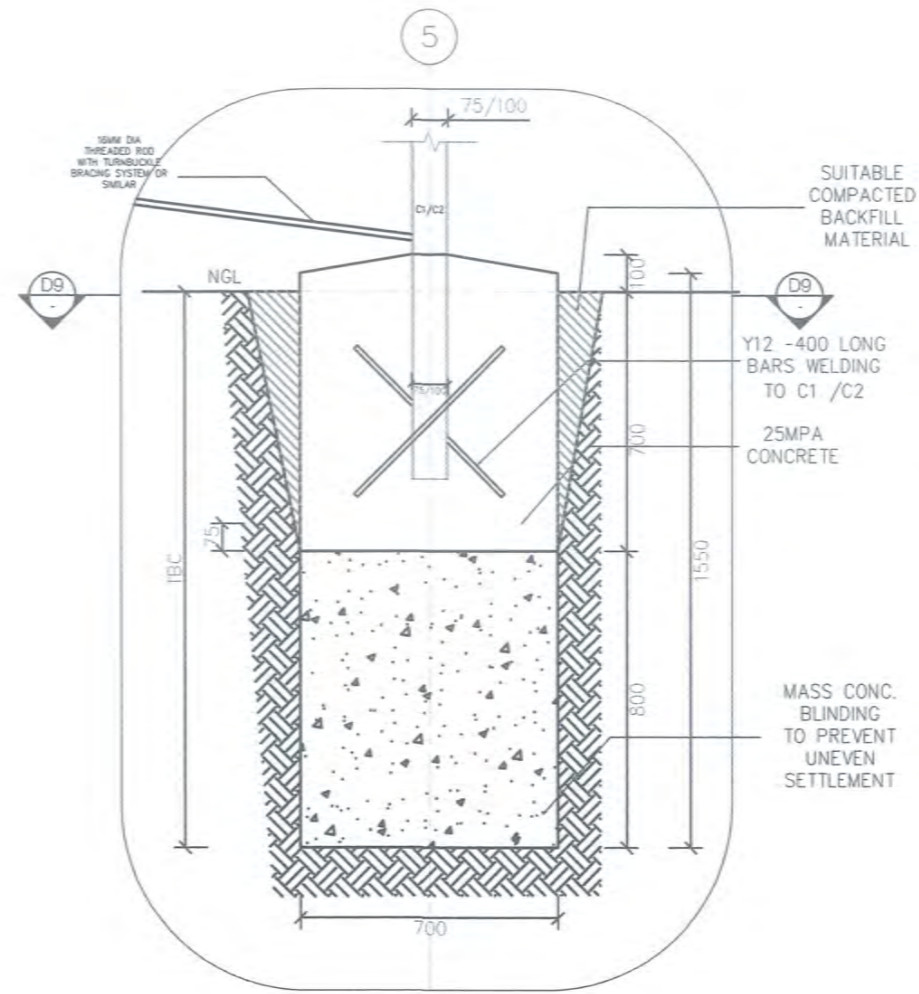
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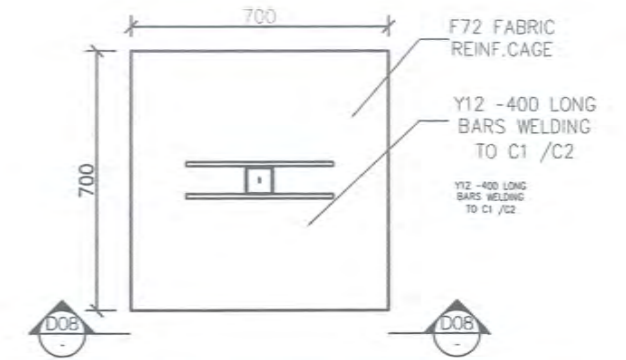
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DETAILS 2		
SCALE: 1:20 @ A3	PROJECT NO: 201726-ARC-VAR-A-012	DRAWING NO: A-06-01



7 DETAIL 7
06-02 SCALE 1:20



8 TYPICAL C1/C1 FOOTING DETAIL 1
06-02 SCALE 1:20



9 TYPICAL C1/C1 FOOTING DETAIL 2
05-01 SCALE 1:20

Z. Sabaw
2018.03.05
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REV	BY	DESCRIPTION	DATE
5	GU	UPDATED ROOF NOTES & AMENDED DOWN PIPE FALLS	12/12/2017
6	GU	APPROVAL ISSUE	05/01/2018
7	GU	FOR CONSTRUCTION ISSUE	12/02/2018

DRAWING INFORMATION		
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Rhodes
better buildings

VARIRATA INFORMATION CENTRE

LOCATION
VARIRATA ,PAPUA NEW GUINEA

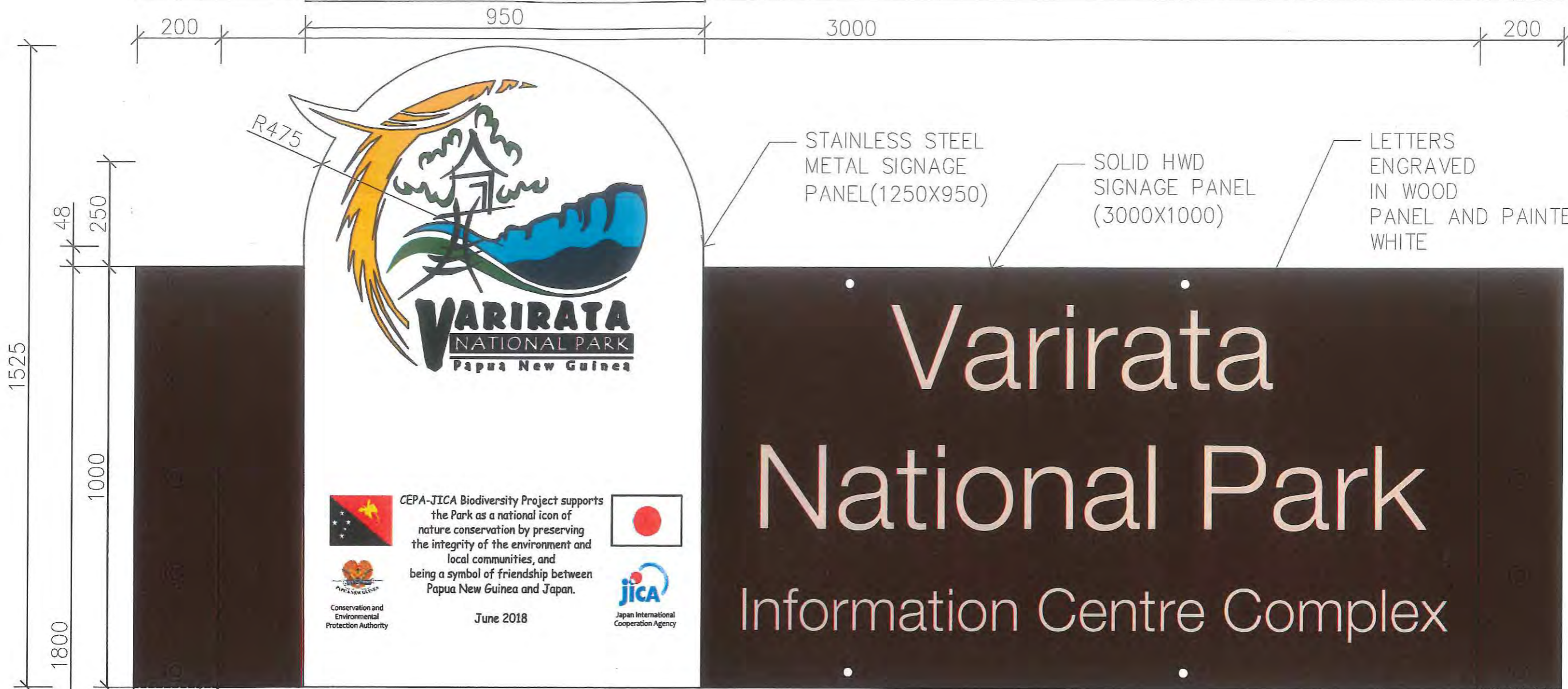
DETAILS 3

SCALE:
1:20 @ A3

PROJECT NO:
201726-ARC-VAR-A-013

DRAWING NO:
A-06-02

7



M16 GALV CUP HEAD BOLTS AND NUTS WITH WASHERS (RECESSED AT VIEWING END)

10 - DETAIL 10
SCALE 1:10

200x200 HWD
TIMBER POSTS

J. Nakano
2018.04.09

FOR APPROVAL

NATURAL GROUND LEVEL

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REV	BY	DESCRIPTION	DATE
5	GU	UPDATED ROOF NOTES & AMENDED DOWN PIPE FALLS	12/12/2017
6	GU	APPROVAL ISSUE	05/01/2018
7	GU	FOR CONSTRUCTION ISSUE- REDESIGNED SIGNBOARD	12/02/2018
8	GU	FOR CONSTRUCTION ISSUE - REVISED SIGNAGE	12/03/2018

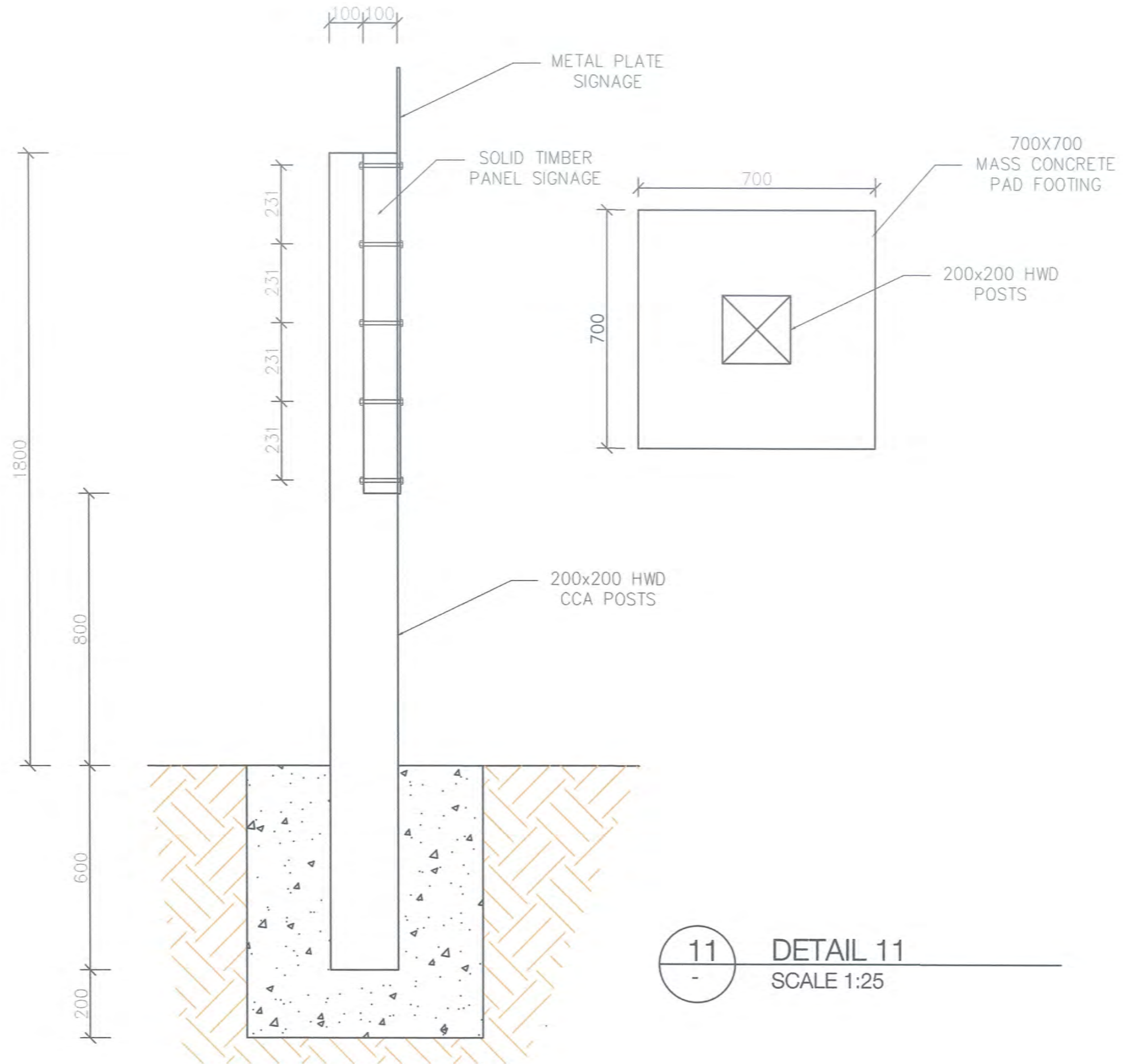
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CHECKED BY:	ST	08/03/18
CLIENT APPROVED:		

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VARIRATA INFORMATION CENTRE		LOCATION
DETAILS 4 - SIGNBOARD DETAIL		VARIRATA ,PAPUA NEW GUINEA
SCALE: 1: 20 @ A3	PROJECT NO: 201726-ARC-VAR-A-014	DRAWING NO: A-06-03
		REV: 8



11
-
DETAIL 11
SCALE 1:25

T. Arkana
2018-03-05

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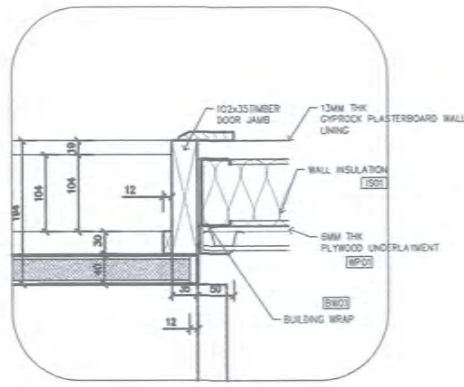
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REV	BY	DESCRIPTION	DATE
5	GU	UPDATED ROOF NOTES & AMENDED DOWN PIPE FALLS	12/12/2017
6	GU	APPROVAL ISSUE	05/01/2018

DRAWING INFORMATION		
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CHECKED BY:	ST	05/12/17
CLIENT APPROVED:		

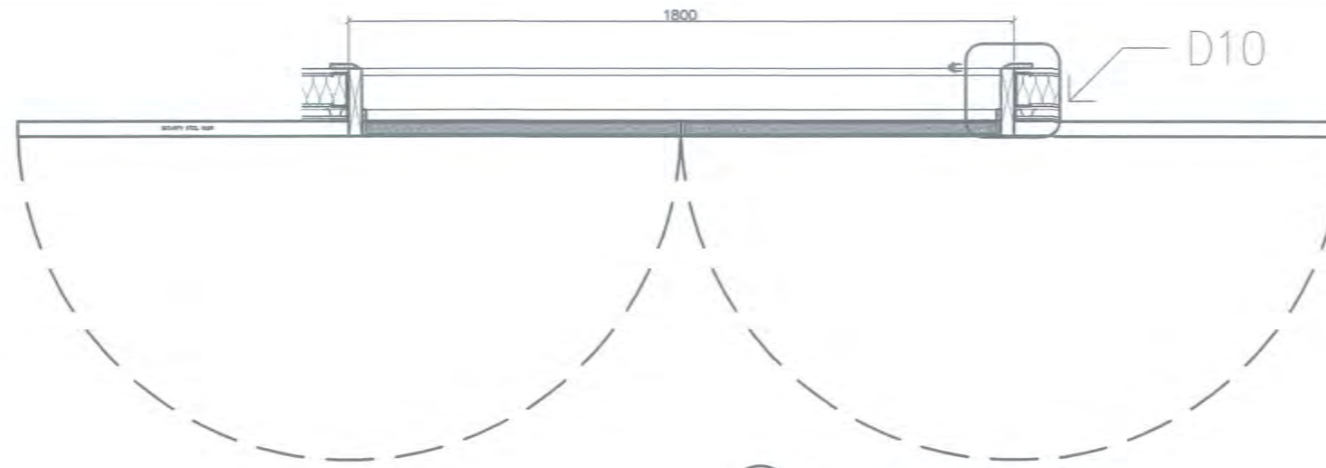
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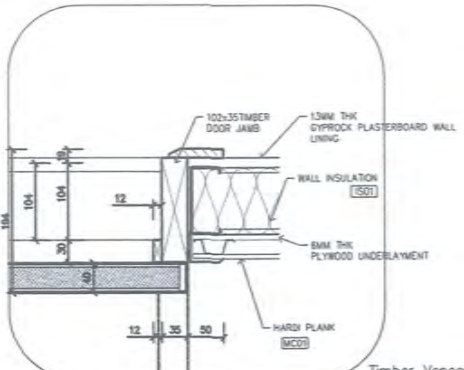
VARIRATA INFORMATION CENTRE		LOCATION VARIRATA ,PAPUA NEW GUINEA
DETAILS 5 – SIGNBOARD DETAIL		
SCALE: 1:25 @ A3	PROJECT NO: 201726-ARC-VAR-A-014A	DRAWING NO: A-06-04



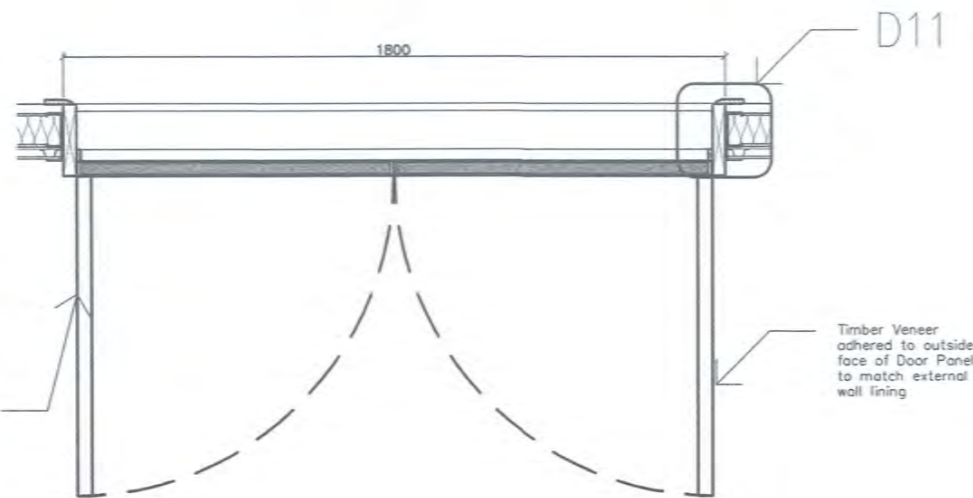
10 D1 JAMB DETAILS
SCALE 1:10



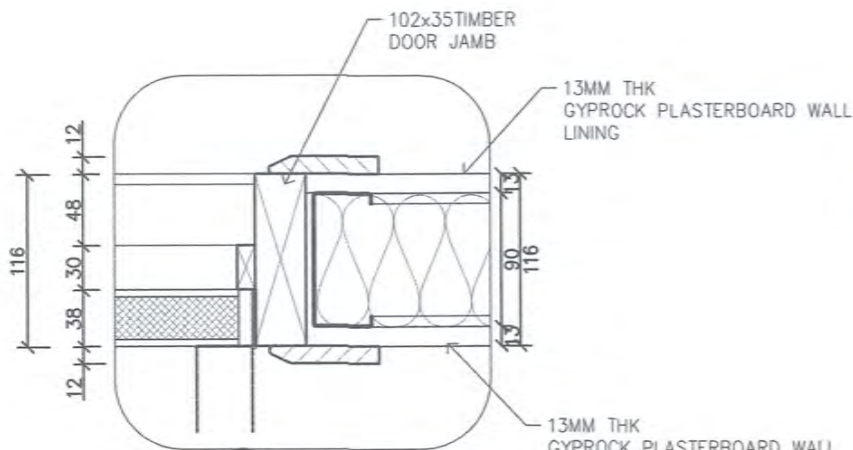
10 DOOR TYPE 1 DETAILS
SCALE 1:10



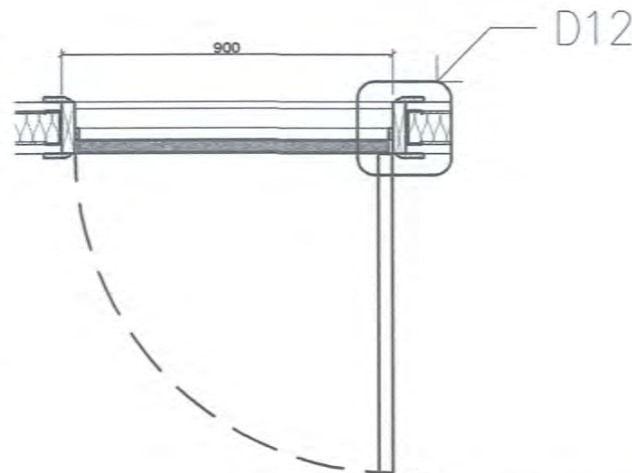
12 D2 JAMB DETAILS
SCALE 1:10



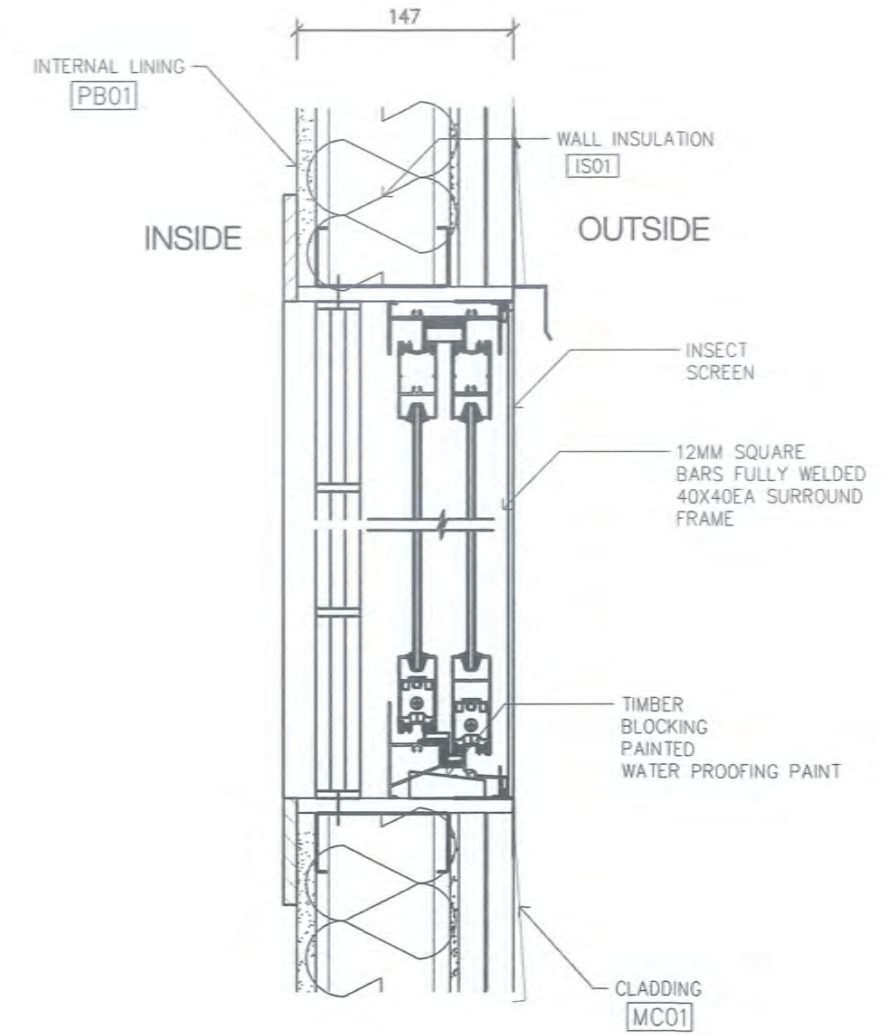
11 DOOR TYPE 2 DETAILS
SCALE 1:10



12 D3 JAMB DETAILS
SCALE 1:10



12 DOOR TYPE 3 DETAILS
SCALE 1:10



13 TYPICAL WINDOW DETAIL
SCALE 1:10

Z. Akano
2018.03.05

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REV	BY	DESCRIPTION	DATE
5	GU	DELETED EXTERNAL SECURITY DOORS	12/12/2017
6	GU	APPROVAL ISSUE	06/01/2018
7	GU	FOR CONSTRUCTION ISSUE	07/02/2018

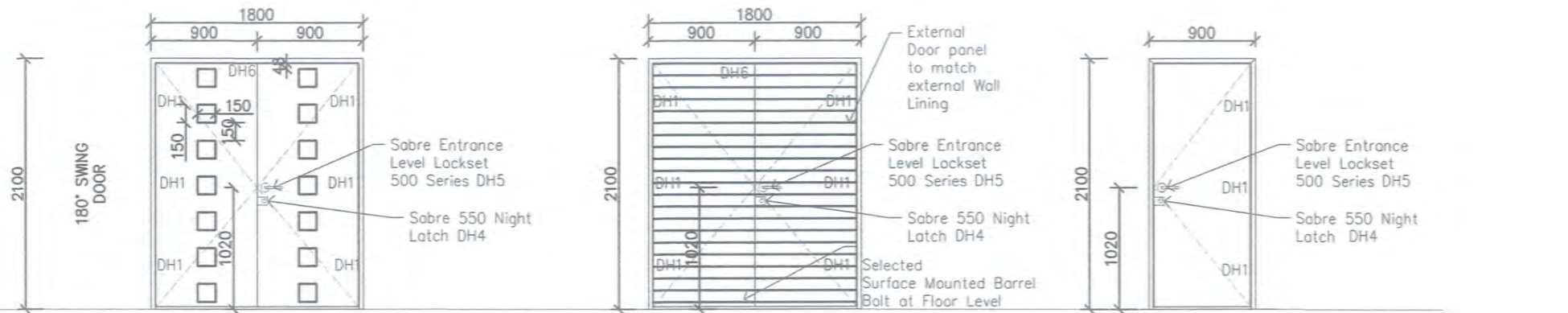
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CHECKED BY:	ST	05/12/17
CLIENT APPROVED:		

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VARIRATA INFORMATION CENTRE		LOCATION
		VARIRATA, PAPUA NEW GUINEA
DOOR AND WINDOW DETAILS		
SCALE:	PROJECT NO: 201726-ARC-VAR-A-0014A	DRAWING NO: A-07-01

DOOR TYPES



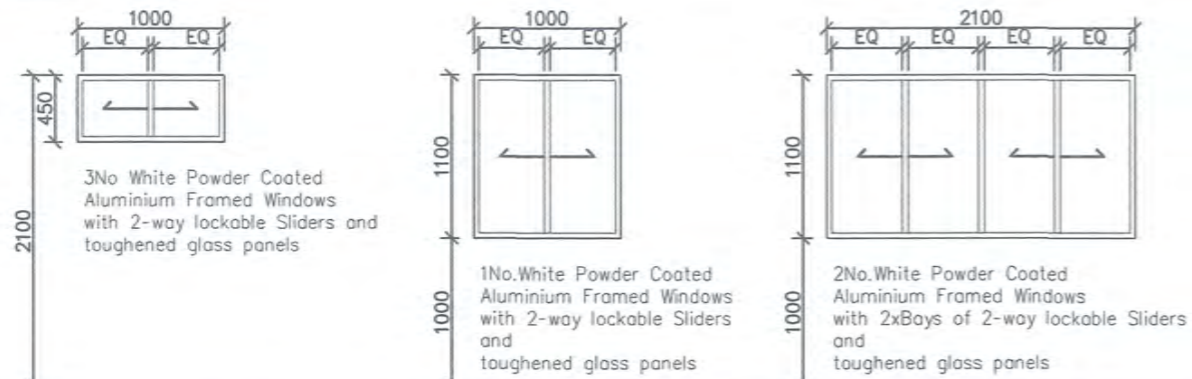
D01 1No x HW Timber Framed Solid-Core Double Swing Door with 150x150mmx6mm thk toughened Glass Vision Panels as shown hung on Lockwood or similar approved S.S Butt Hinges

D02 1No x HW Timber Framed Solid-Core Double Swing Door hung on Lockwood or similar approved S.S Butt Hinges

D03 **D04** **D05** 3No x HW Timber Framed Single Hollow Core Doors hung on Lockwood or similar approved S.S Butt Hinges

DOOR TYPES SCALE 1:50

WINDOW TYPES

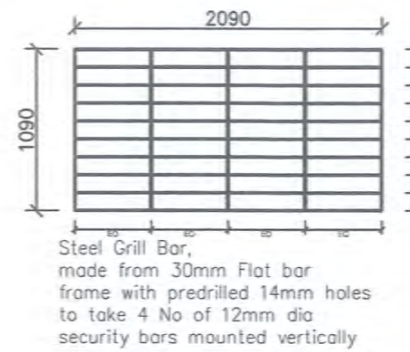


W01 3No White Powder Coated Aluminium Framed Windows with 2-way lockable Sliders and toughened glass panels

W02 1No White Powder Coated Aluminium Framed Windows with 2-way lockable Sliders and toughened glass panels

W03 2No White Powder Coated Aluminium Framed Windows with 2xBays of 2-way lockable Sliders and toughened glass panels

INTERNAL SECURITY WINDOW GRILL FOR W05



Steel Grill Bar, made from 30mm Flat bar frame with predrilled 14mm holes to take 4 No of 12mm dia security bars mounted vertically

W05

WINDOW TYPES SCALE 1:50

ITEM CODE	HARDWARE NAME	BRAND NAME	MODEL	FINISH	PHOTO	REMARKS
DH1	STAINLESS STEEL BALL BEARING HINGES	LOCKWOOD	100 SERIES LW10075 BBPSS	STAINLESS STEEL		
DH2	DOOR CLOSER	SABRE	SAB 625	DIE CAST ALUMINIUM HOUSING		
DH3	DOOR STOP	SABRE	SAB 350	STAINLESS STEEL WITH RUBBER BUFFER		
DH4	RIM NIGHT LATCH (ENTRANCE)	SABRE	SABNL550 -SSS	304 STAINLESS STEEL		201 CYLINDER TO BE INCLUDED AND STRIKE PLATES
DH5	DOOR LEVER LOCK SET (ENTRANCE)	SABRE	SAB 500	SATIN CHROME		STRIKE PLATES TO BE INCLUDED
DH6	AUTO FLUSH BOLTS	SABRE	SAB - 940 SSS	STAINLESS STEEL		TO BE INSTALLED ON INACTIVE DOOR LEAF

DOOR MARK	DOOR TYPE	DOOR SIZE		DOOR SPECS				FRAME		HARDWARE				
		WIDTH	HEIGHT	CORE	MATERIAL	FINISH	THICKNESS	MATERIAL	FINISH	MAIN LOCK	LEVER LOCKSET	DOOR STOPS	DOOR CLOSER	DOOR HANDLES
D01	DOUBLE SWING DOOR	1800	2100	SOLID	WOOD	PA01	40MM	WOOD	TO MATCH WALL COLOR	SABRE 550 NIGHT LATCH	SABRE 500 SERIES ENTRANCE SET	YES	-	
D02	DOUBLE SWING DOOR	1800	2100	SOLID	WOOD	PA01	40MM	WOOD	TO MATCH WALL COLOR	SABRE 550 NIGHT LATCH	SABRE 500 SERIES ENTRANCE SET	YES	-	
D03 D04 D05	SINGLE SWING DOOR	900	2100	HOLLOW	WOOD	PA01	40MM	WOOD	TO MATCH WALL COLOR	SABRE 550 NIGHT LATCH	SABRE 500 SERIES ENTRANCE SET	YES	D1.04 ONLY	

WINDOW MARK	WINDOW SIZE		WINDOW TYPE		GLAZING
	WIDTH	HEIGHT	MATERIAL	OPERATION	
W01 W02 W03	1000	450	ALUMINIUM	SLIDER	CLEAR
W04 W05	1000	1100	ALUMINIUM	SLIDER	CLEAR

T. Sakanu
2018-03-05

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REV	BY	DESCRIPTION	DATE
5	GU	DELETED EXTERNAL SECURITY DOORS	12/12/2017
6	GU	APPROVAL ISSUE	06/01/2018
7	GU	FOR CONSTRUCTION ISSUE	07/02/2018
8	GU	CHANGED SLIDERS TO TOUGHENED GLASS	18/02/2018

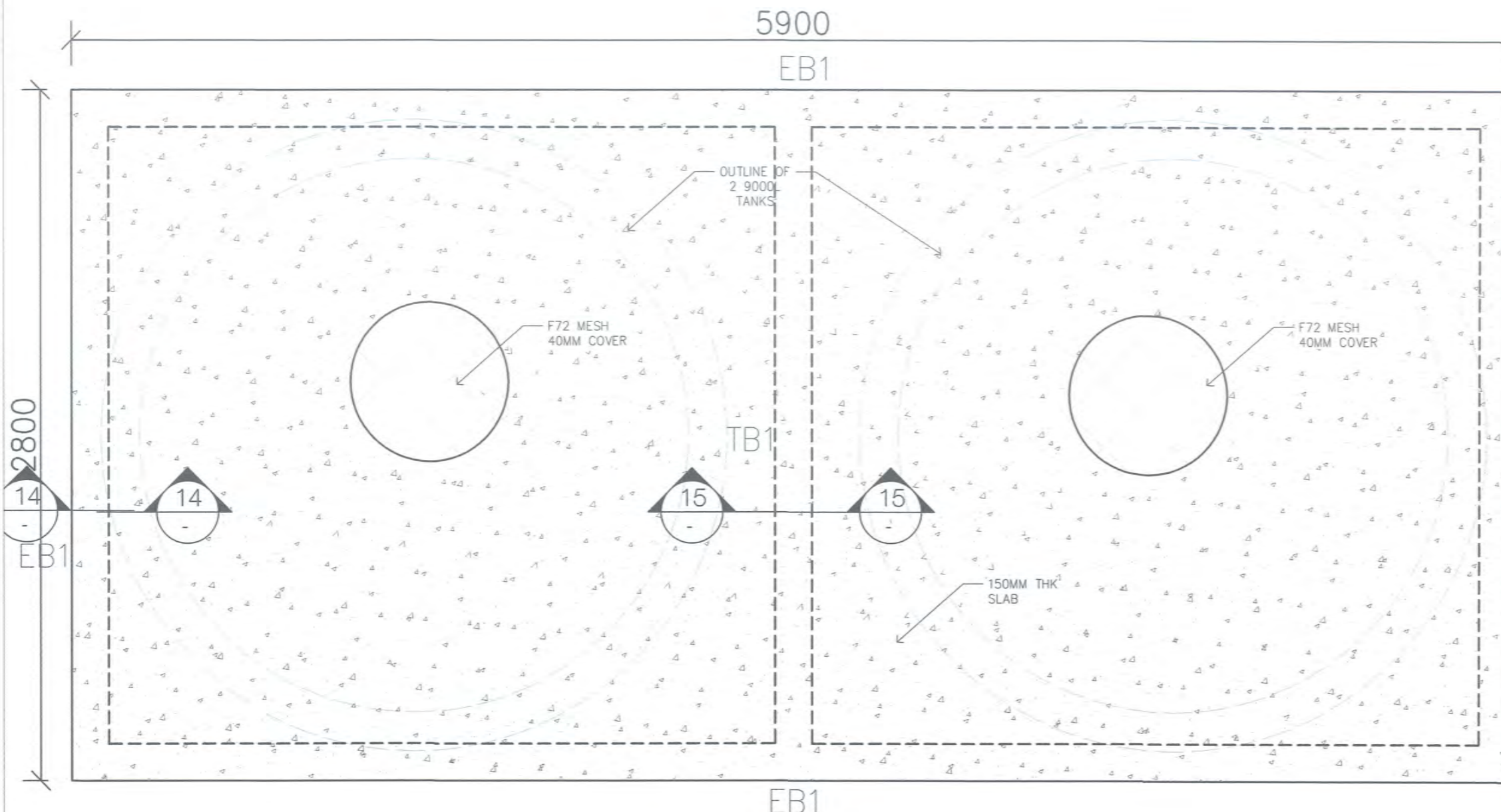
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DRAWING INFORMATION		
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CLIENT APPROVED:		

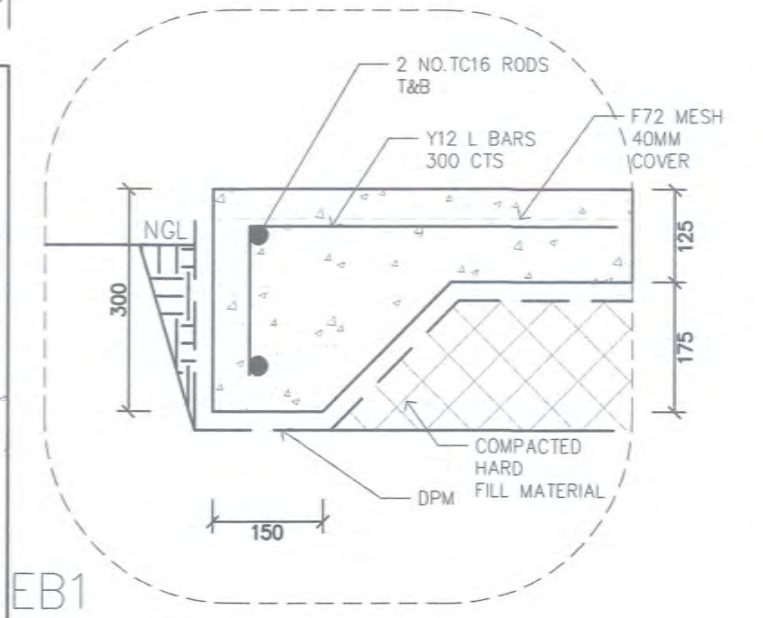
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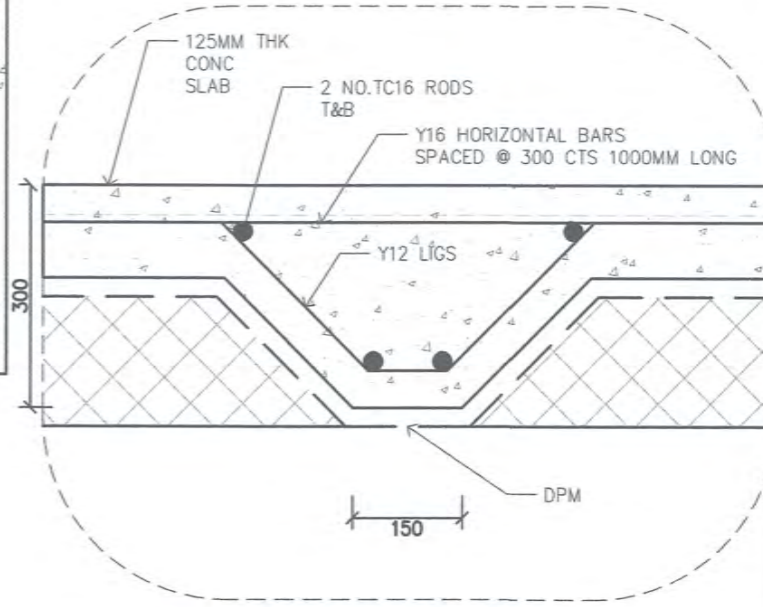
VARIRATA INFORMATION CENTRE		LOCATION VARIRATA ,PAPUA NEW GUINEA
DOOR AND WINDOW SCHEDULE		
SCALE: 1:50 @ A3	PROJECT NO: 201726-ARC-VAR-A-0014	DRAWING NO: A-07-00



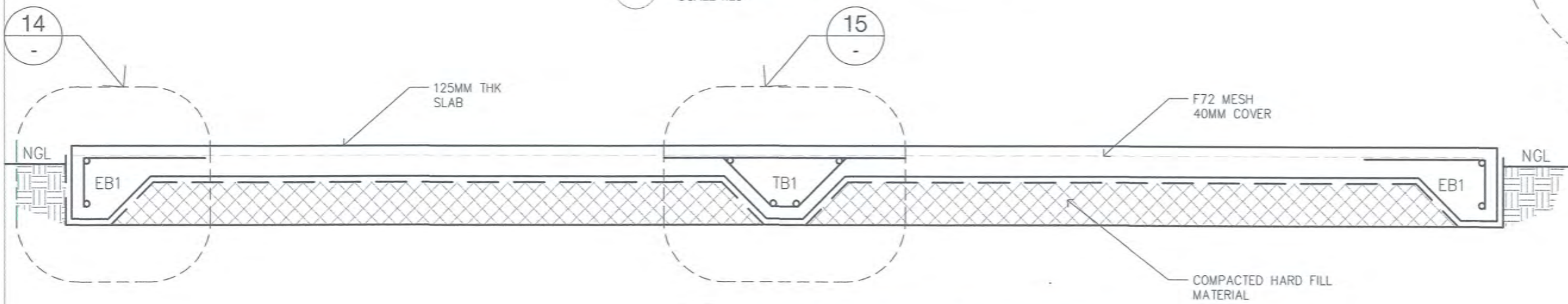
16 TANK SLAB PLAN
SCALE 1:20



14 TANK SLAB CROSS SECTION
SCALE 1:10



15 TANK SLAB CROSS SECTION
SCALE 1:10



17 TANK SLAB LONGITUDINAL CROSS SECTION
SCALE 1:20

STRUCTURAL MEMBER	SIZE (DEPTH X WIDTH)	DESCRIPTION
EB 1	300 X 150	R.C EDGE BEAM
TB 1	300 X 150	R.C TIE BEAM

J. Salema
2018-03-05

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REV	BY	DESCRIPTION	DATE
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6	GU	APPROVAL ISSUE	29/12/2017
7	GU	FOR CONSTRUCTION ISSUE	07/02/2018

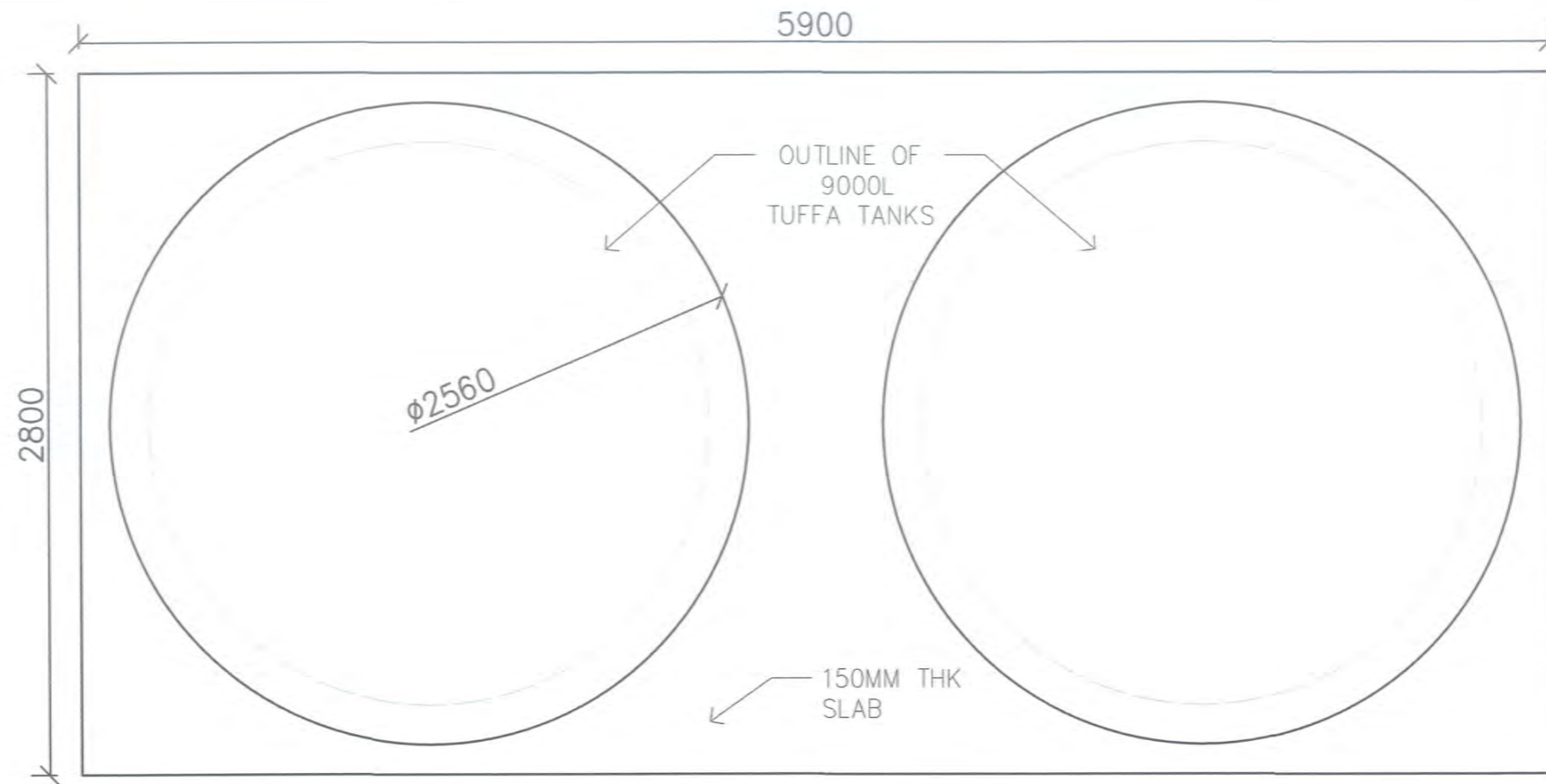
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PAPUA NEW GUINEA

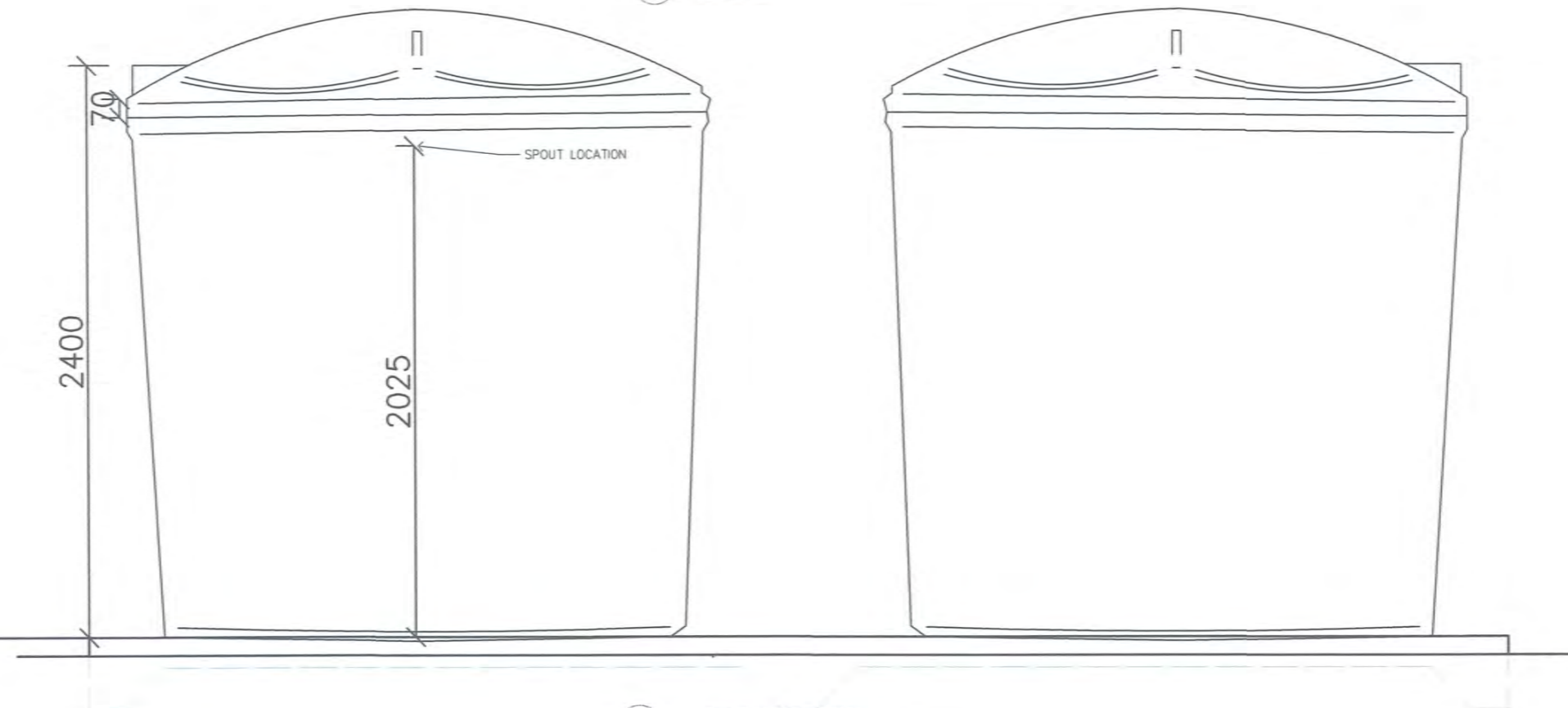
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VARIRATA INFORMATION CENTRE		LOCATION VARIRATA, PAPUA NEW GUINEA
TANK SLAB DETAILS		
SCALE:	PROJECT NO: 201726-ARC-VAR-A-0015	DRAWING NO: A-08-00



18 9000L WATER TANK PLAN
SCALE 1:20



19 WATER TANK ELEVATION
SCALE 1:20

Z. Dohaw
2018-03-05

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REVISIONS			
REV	BY	DESCRIPTION	DATE
5	GU	NEW PAGE ADDED	12/12/2017
6	GU	APPROVAL ISSUE	29/12/2017
7	GU	FOR CONSTRUCTION ISSUE	07/02/2018

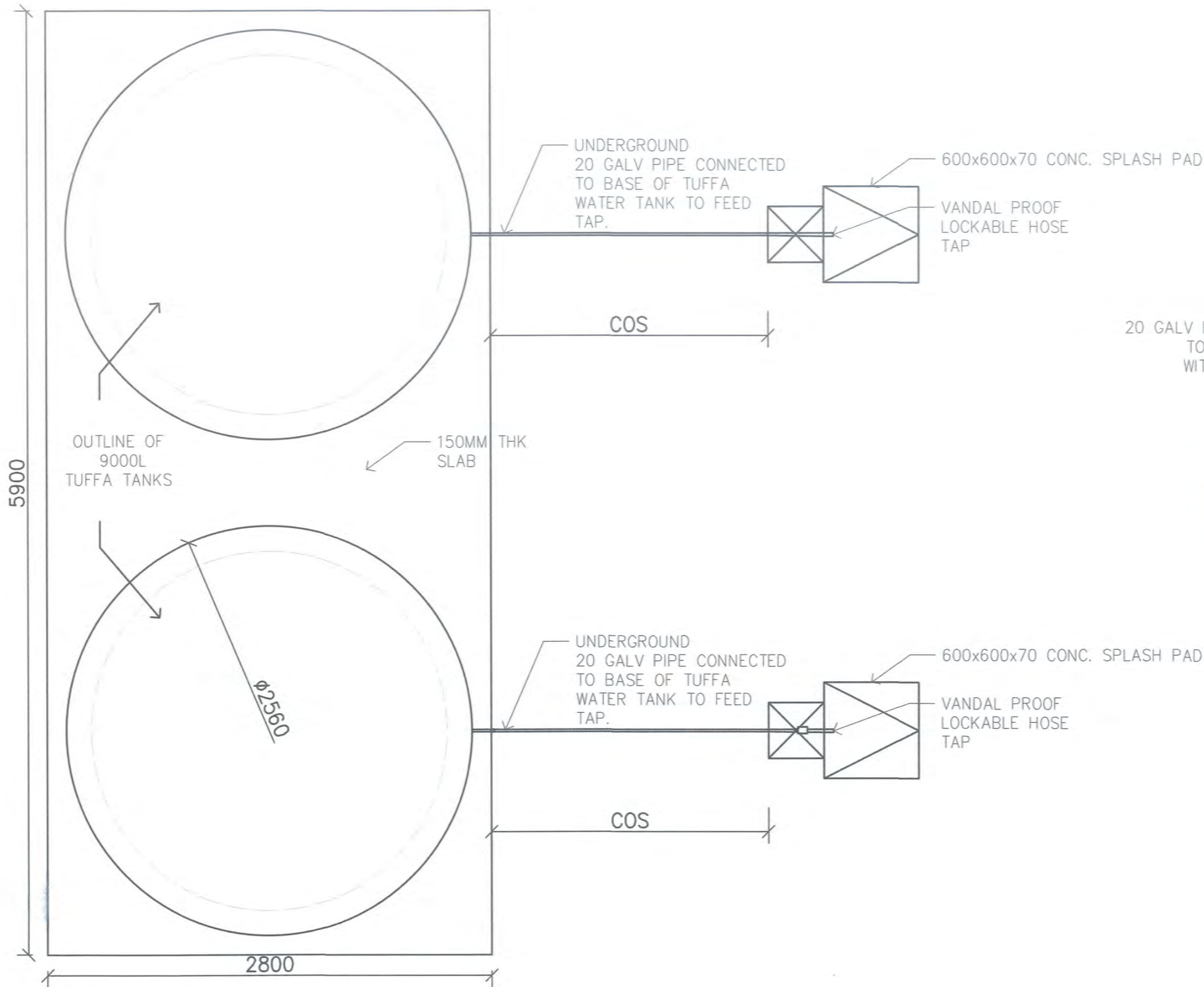
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CHECKED BY:	ST	05/12/17
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RHODES PNG
POREBADA, CENTRAL PROVINCE
PORTION 2702 NAPA NAPA ROAD
PAPUA NEW GUINEA

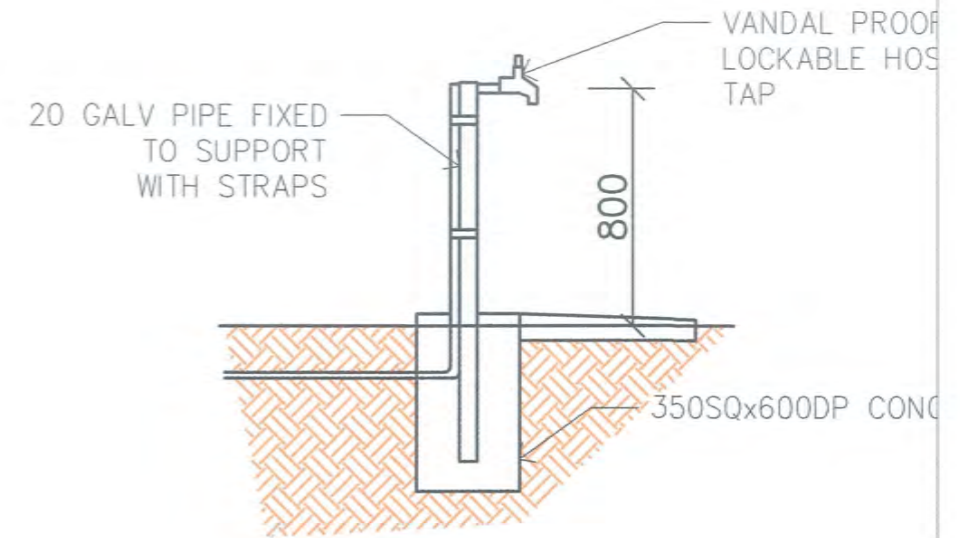
(P) +675 705 08372
(E) office@rhodespng.com
(W) www.rhodesprojects.com



VARIRATA INFORMATION CENTRE		LOCATION VARIRATA, PAPUA NEW GUINEA
TANK DETAILS		
SCALE:	PROJECT NO: 201726-ARC-VAR-A-0015A	DRAWING NO: A-08-01



20 WATER TANK LAYOUT
SCALE 1:20



21 WATER TAP STAND ELEVATION
SCALE 1:20

I. Akano
2018.03.05

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REV	BY	DESCRIPTION	DATE
5	GU	NEW PAGE ADDED	12/12/2017
6	GU	APPROVAL ISSUE	29/12/2017
7	GU	FOR CONSTRUCTION ISSUE	07/02/2018
8	GU	NEW SHEET CREATED FOR TAP DRAWING	02/03/2018

DRAWING INFORMATION		
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CHECKED BY:	ST	05/12/17
CLIENT APPROVED:		

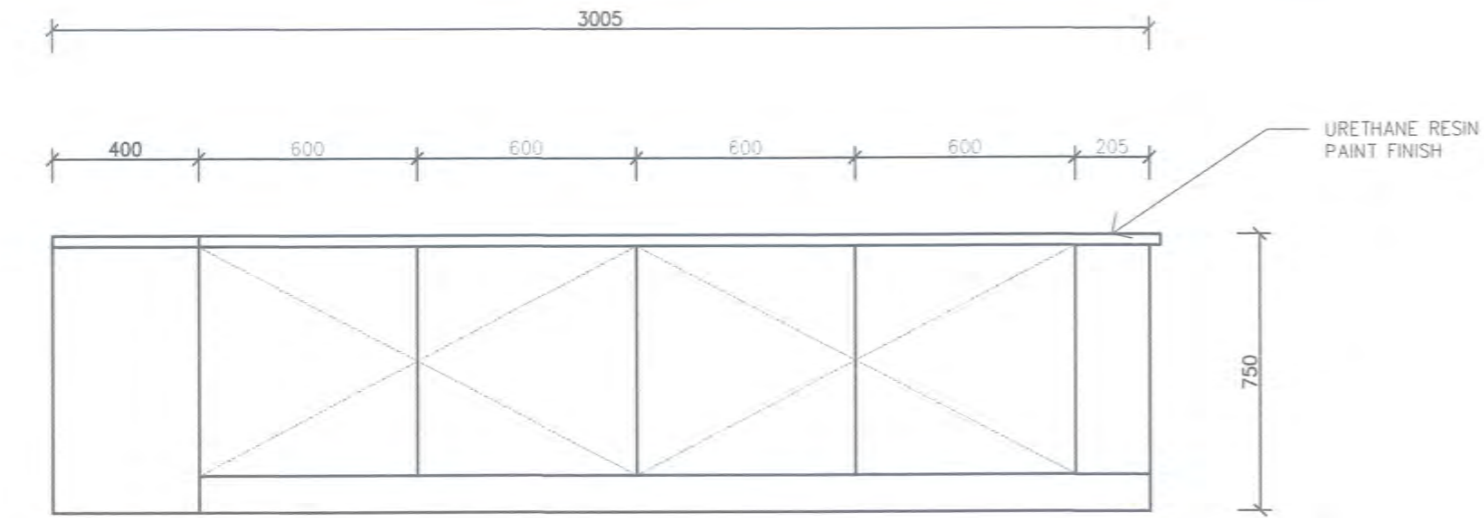
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POREBADA, CENTRAL PROVINCE
PORTION 2702 NAPA NAPA ROAD
PAPUA NEW GUINEA

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(W) www.rhodesprojects.com



VARIRATA INFORMATION CENTRE		LOCATION VARIRATA ,PAPUA NEW GUINEA
TANK DETAILS 2		
SCALE:	PROJECT NO: 201726-ARC-VAR-A-0015A	DRAWING NO: A-08-01A

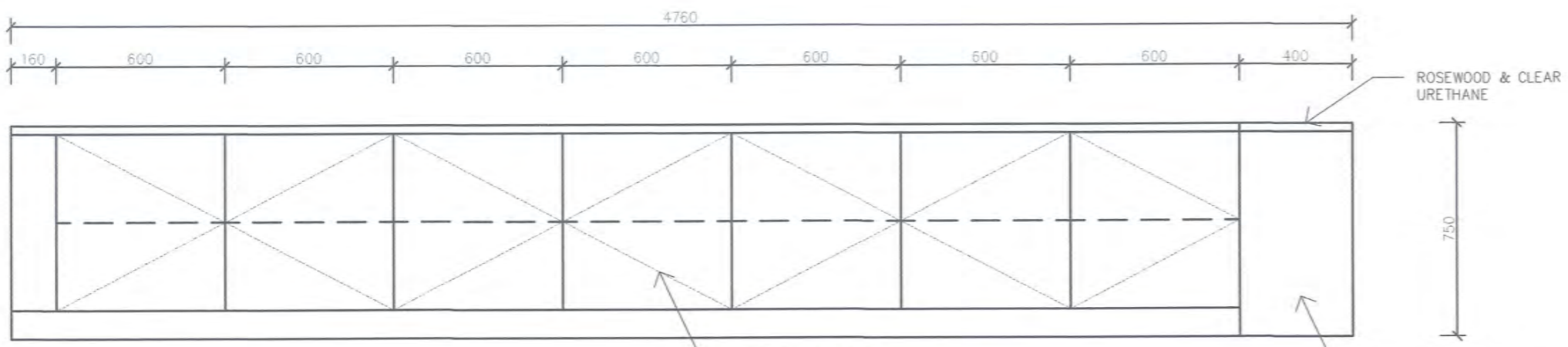
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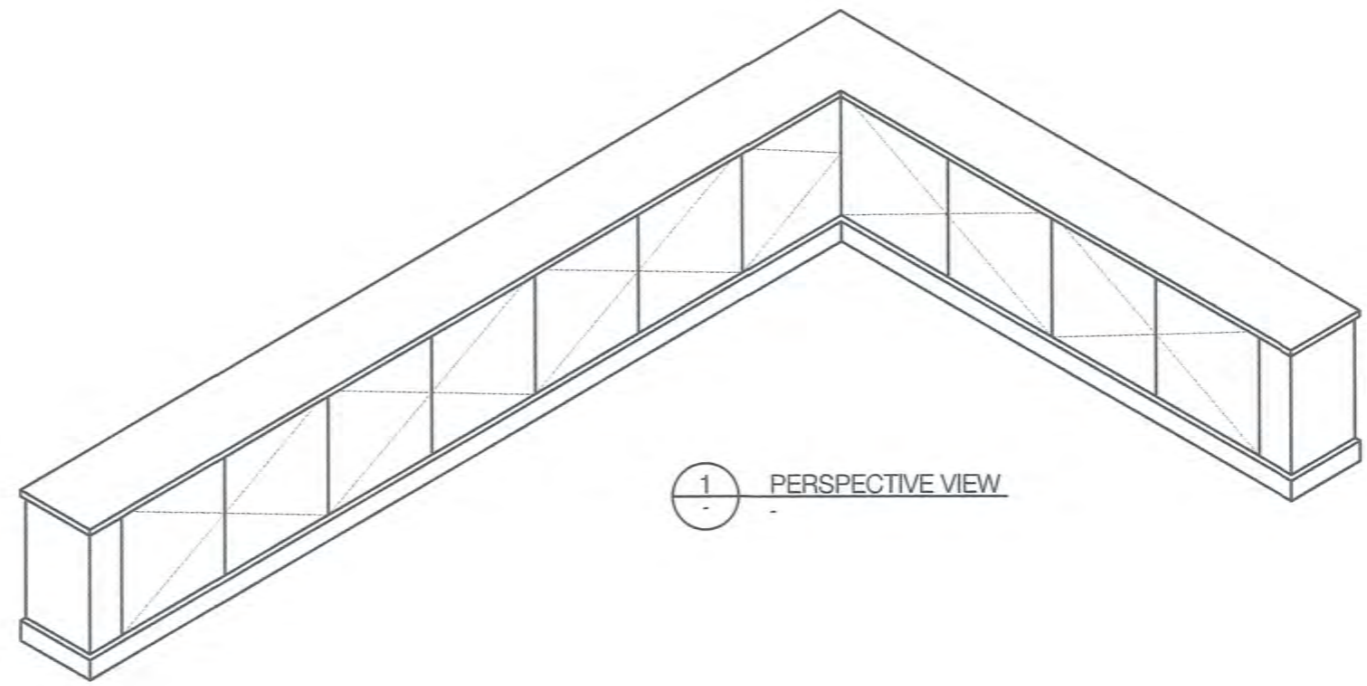
1 FRONT ELEVATION

LEGEND		
ITEM	QTY	DESCRIPTION
DISPLAY TABLE	1	FIXED DISPLAY TABLE OF TIMBER TOP(30MM THICK)WITH CUPBOARD BENEATH,400MM WIDEX 750 HIGH,URETHANE RESIN PAINT FINISHED

FOR REVIEW



1 RIGHT ELEVATION



1 PERSPECTIVE VIEW

- FABRICATION NOTES**
1. ALL MATERIAL & FABRICATION TO COMPLY WITH AS4100
 2. REMOVE ALL SHARP EDGES, BURRS, SLAG, ETC. ALSO ROUND ALL CORNERS.
 3. ALL WELDS TO BE 6mm CONT FILLET U.N.O. ALL BUTT WELDS FULL PENETRATION U.N.O.
 4. ALL NOTCHES TO HAVE 11mm RADIUS AT INTERNAL CORNERS.
 5. ALL RATHOLES TO BE 30mm RADIUS.
 6. ALL CLEATS TO BE ON CENTRELINE U.O.N.
 7. MATERIAL SIZES DO NOT ALLOW FOR WELD PREPARATIONS, FINAL SIZES TO BE DETERMINED TO SUIT WELD PROCEDURES.
 8. ALL STEEL AND WELDED SHARP EDGES SHALL BE ROUNDED.
 9. ALLOW DRAINAGE AND VENT HOLES FOR GALVANIZING.

REVISIONS			
REV	BY	DESCRIPTION	DATE
A	-	FOR REVIEW	-

PROJECT NUMBER:
201713

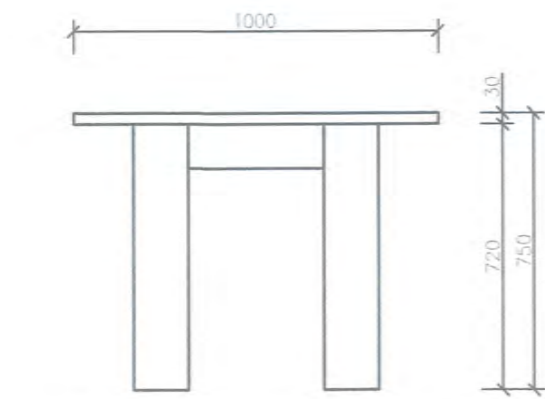
PROJECT TITLE:
VARIRATA INFORMATION

SHOP DRAWING
DRAWING TITLE:
GALLERY FURNITURES

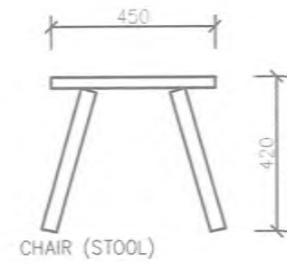
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DRAWN BY: .	REVISION: A
SIZE: A3	SCALE: AS NOTED

T. Sakana
2018-03-05



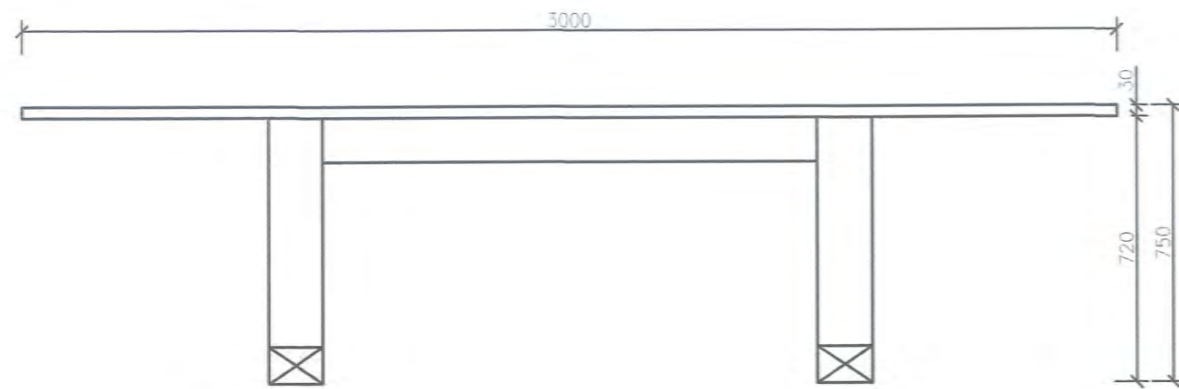
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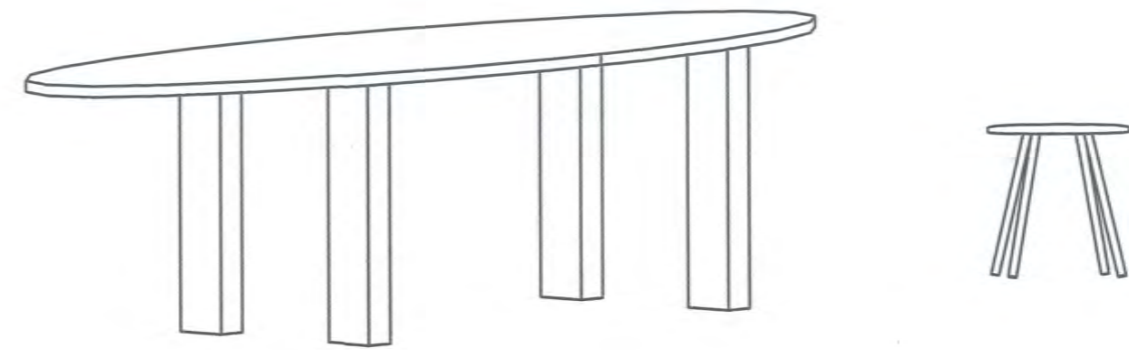
CHAIR (STOOL)

LEGEND		
ITEM	QTY	DESCRIPTION
WORKING TABLE	1	HIGH GRADE WORKING TABLE OF TIMBER TOP(30MM THICK)WITH ROUND CORNER TREATED,URETHANE RESIN PAINT FINISHED FOR FURNITURE
OVAL SHAPE TABLE	1	1,000MM WIDE X 3,000MM LONG X 750MM HIGH
CHAIR (STOOL)	14	TIMBER CHAIR (STOOL) 450MM DIA. X 420MM HIGH

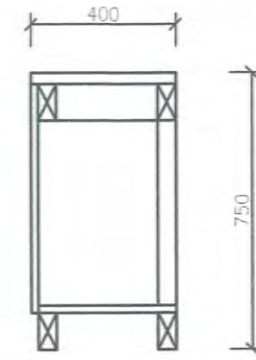
FOR REVIEW



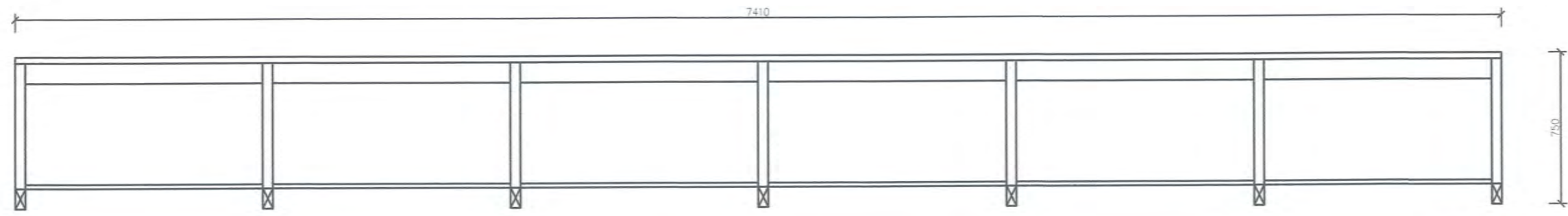
1 RIGHT ELEVATION



1 PERSPECTIVE VIEW



1 RIGHT ELEVATION



1 FRONT ELEVATION

FABRICATION NOTES

1. ALL MATERIAL & FABRICATION TO COMPLY WITH AS4100
2. REMOVE ALL SHARP EDGES, BURRS, SLAG, ETC. ALSO ROUND ALL CORNERS.
3. ALL WELDS TO BE 6mm CONT FILLET U.N.O. ALL BUTT WELDS FULL PENETRATION U.N.O.
4. ALL NOTCHES TO HAVE 11mm RADIUS AT INTERNAL CORNERS.
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REVISIONS

REV	BY	DESCRIPTION	DATE
A	-	FOR REVIEW	-

PROJECT NUMBER:

201713

PROJECT TITLE:

VARIIRATA INFORMATION

SHOP DRAWING

DRAWING TITLE:

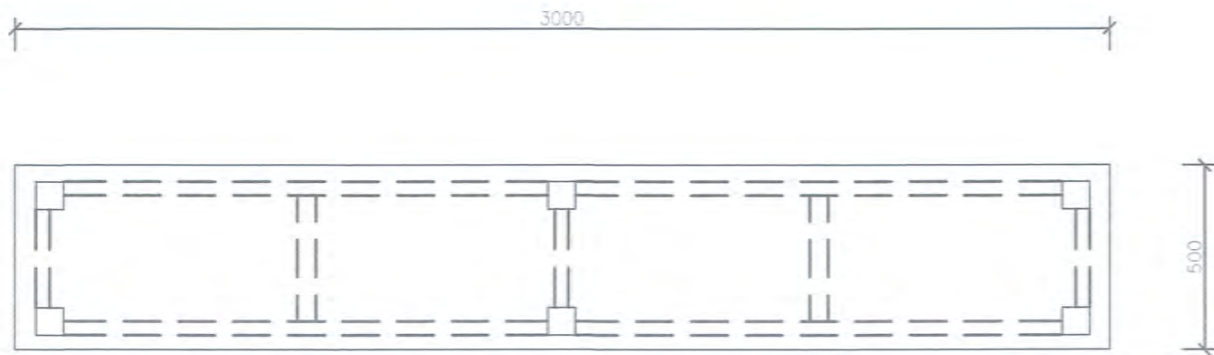
STUDY FURNITURES

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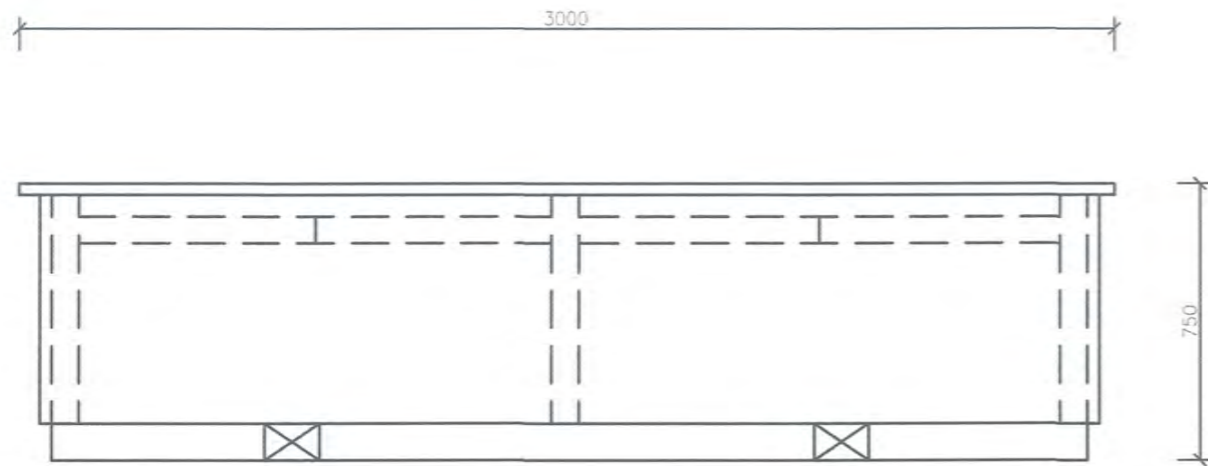
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SIZE: A3	SCALE: AS NOTED

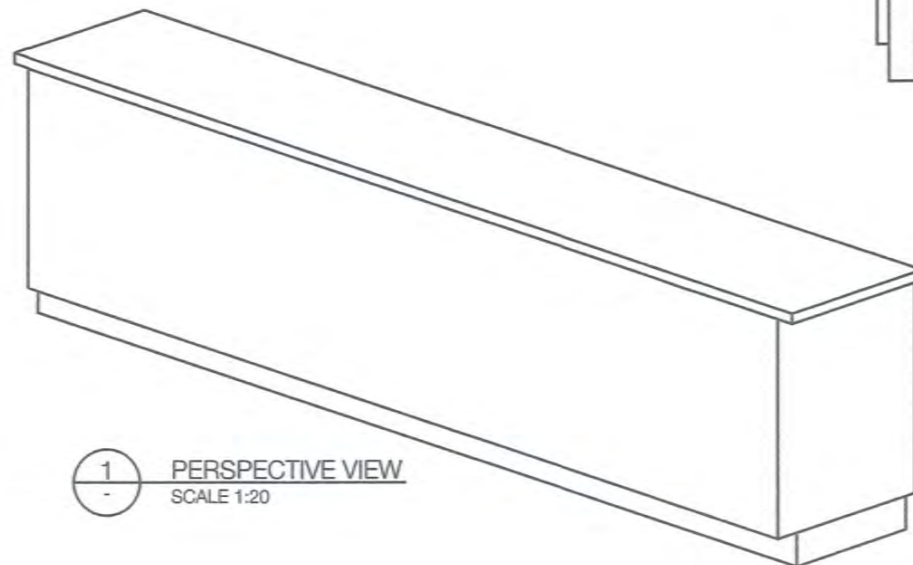
Z. Salama
2018-03-05



1 TOP VIEW
SCALE 1:20

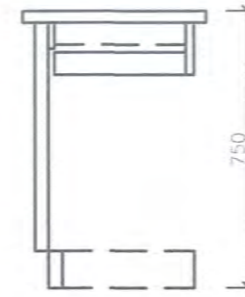


1 FRONT ELEVATION
SCALE 1:20

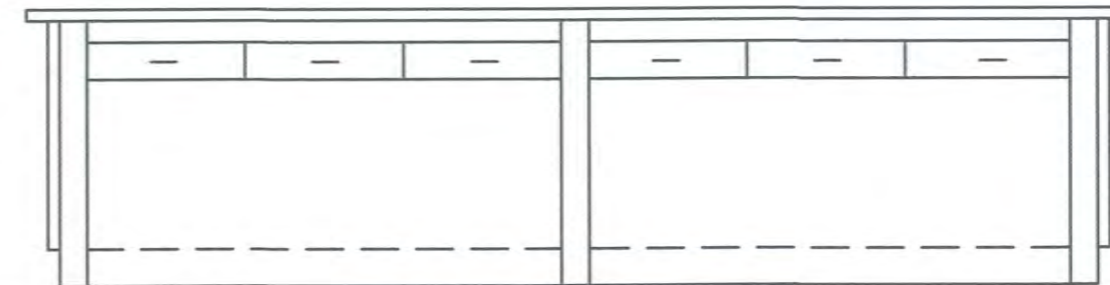


1 PERSPECTIVE VIEW
SCALE 1:20

LEGEND		
ITEM	QTY	DESCRIPTION
INFORMATION COUNTER	1	FIXED INFORMATION COUNTER OF TIMBER TOP(30MM THICK)WITH 500MM WIDE X 3,000MM LONG X 750MM HIGH,URETHANE RESIN PAINT FINISHED



1 RIGHT ELEVATION
SCALE 1:20



FOR REVIEW



FABRICATION NOTES

1. ALL MATERIAL & FABRICATION TO COMPLY WITH AS4100
2. REMOVE ALL SHARP EDGES, BURRS, SLAG, ETC. ALSO ROUND ALL CORNERS.
3. ALL WELDS TO BE 6mm CONT FILLET U.N.O. ALL BUTT WELDS FULL PENETRATION U.N.O.
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REVISIONS

REV	BY	DESCRIPTION	DATE
A	-	FOR REVIEW	-

PROJECT NUMBER:

201713

PROJECT TITLE:

VARIRATA INFORMATION

SHOP DRAWING

DRAWING TITLE:

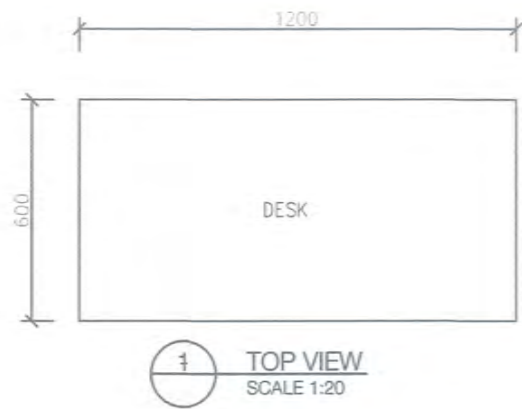
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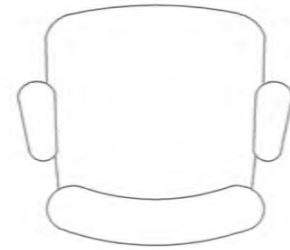
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SIZE: A3	SCALE: AS NOTED

Z. Sekane
2018.03.05



1 TOP VIEW
SCALE 1:20

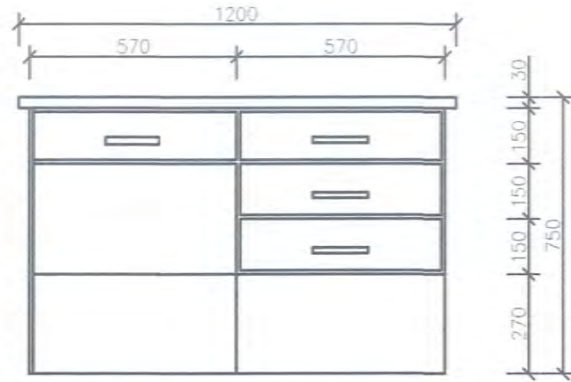


1 TOP VIEW
SCALE 1:20



1 PERSPECTIVE VIEW
SCALE 1:20

LEGEND		
ITEM	QTY	DESCRIPTION
DESK	5	600MM WIDE X 1,200MM LONG X 750MM HIGH
BOOK SHELF	3	300MM WIDE X 900 MM LONG X 1,800MM HIGH
CHAIR	7	



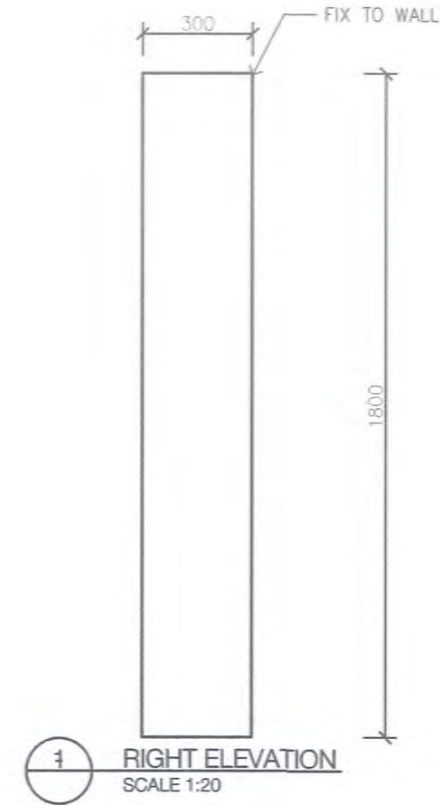
1 FRONT ELEVATION
SCALE 1:20



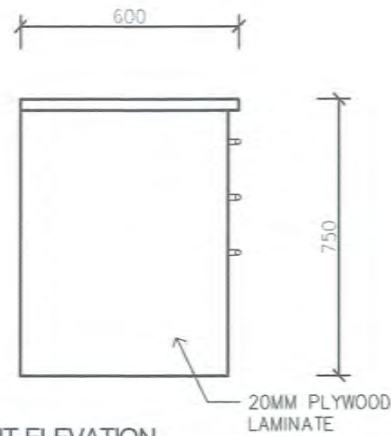
1 FRONT ELEVATION
SCALE 1:20



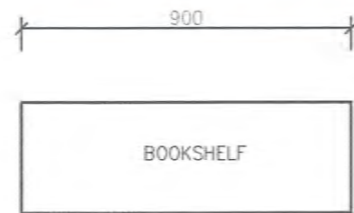
1 RIGHT ELEVATION
SCALE 1:20



1 RIGHT ELEVATION
SCALE 1:20



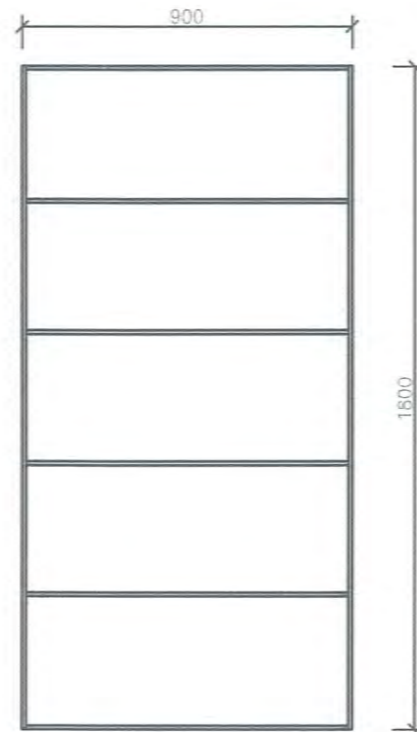
1 RIGHT ELEVATION
SCALE 1:20



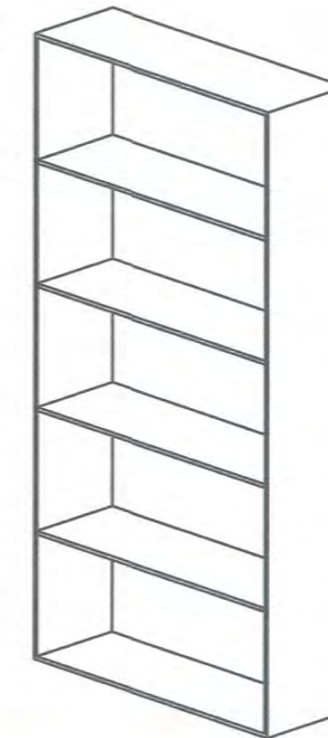
1 TOP VIEW
SCALE 1:20



1 PERSPECTIVE VIEW
SCALE 1:20



1 FRONT ELEVATION
SCALE 1:20



1 PERSPECTIVE VIEW
SCALE 1:20

FOR REVIEW



- FABRICATION NOTES
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REVISIONS			
REV	BY	DESCRIPTION	DATE
A	-	FOR REVIEW	-

PROJECT NUMBER:

201713

PROJECT TITLE:

VARIRATA INFORMATION

SHOP DRAWING

DRAWING TITLE:

ADMIN. OFFICE

DRAWING NUMBER:

A4

DRAWN BY: -	REVISION: A
SIZE: A3	SCALE: AS NOTED

Z. Dohano
2018.03.05

BUILDING ACT CHAPTER 301
REVISED LAWS OF PAPUA NEW GUINEA
STRUCTURAL ADEQUACY CERTIFICATE

This certificate is issued in accordance with Regulation No. 4 and Parts iii, iv and v of the third schedule of the Papua New Guinea Building Regulations.

Proposed Building: Single Storey Information Centre Building, Varirata National Park

Location: Varirata National Park, Sogeri, Central Province, PNG

Portions of building certified: Structure & Foundation – structure comprises steel framed roof, steel posts, 100mm light steel framed stud walls, light steel floor joists and bearers. Steel posts founded on reinforced concrete pad footings support the superstructure. A separate slab on the ground supporting 2 x 9000L water tanks is reinforced concrete, supported on well compacted granular fill.

List of drawings to which Certificate applies: Refer Drawings List below:
 Drawings by RHODES PNG Limited: Drawing Nos: 201726-S-01-00/2, SN-01/2, S-02-00/2, S-02-01/2, S-02-02/2, S-02-03/2, S-02-04/2, S-03-00/2, S-04-00/2, S-05-00/2, S-05-01/2, S-05-02/2, S-05-03/2, A-05-04/2, S-05-05/2, S-05-06/2, S-05-07/2, A-05-08/2 and S-05-09/2 (A3, Revision 2) [19 Sheets].

This is certify that the drawings and calculations for the above building or portion thereof have been prepared and checked by me, or by others under my supervision, and provided that the workmanship is in accordance with normal standard practice, the building, or portion thereof outlined above, is structurally adequate and complies with the design requirements of Papua New Guinea Standards PNGS 1001: Parts 1 to 4 and the relevant provisions of PNGS 1002 and 1003 and PNG Timber Design Standard (Draft).

Design criteria:

Seismic Coefficient:	C = 0.10 (Zone 4, Soft Soil)
Structural Type Factor:	K = 2.5 Steel Cross bracing
Wind Speed:	28m/s (50 year wind)
Terrain Category:	3


Primary Structural System: Steel framed roof, supported on steel ring beams, steel columns and 100mm steel stud walls. T&G flooring on light steel floor joists are supported on light steel bearers. The superstructure is supported on steel posts, founded on reinforced concrete pad footings, on 800mm deep mass concrete base. The water tanks are supported on reinforced concrete slab on ground, founded on well compacted granular fill.

Horizontal restraint provided by: Braced steel posts, founded on reinforced concrete pad footings.

Name of Registered Engineer: David Kawagle

Structural Registration No: 0696159

Address: RHODES PNG Limited
 Portion 2702 Napa Napa Road
 Porebada, Central Province

Signature: 

Date: 22nd November, 2017

VARIRATA INFORMATION CENTRE STRUCTURAL SET

DRAWING ID	DRAWING NO.	DESCRIPTION
201726-STR-VAR-S-000	S-01-00	INDEX
201726-STR-VAR-S-001	SN-01	STRUCTURAL NOTE
201726-STR-VAR-S-002	S-02-00	FOOTING PLAN / SUB-FLOOR FRAMING PLAN
201726-STR-VAR-S-003	S-02-01	SUBFLOOR FRAMECAD PANEL PLAN
201726-STR-VAR-S-004	S-02-02	RING BEAM LAYOUT
201726-STR-VAR-S-005	S-02-03	FRAMECAD CEILING AND BULKHEAD FRAMING PLAN
201726-STR-VAR-S-006	S-02-04	ROOF FRAMING PLAN
201726-STR-VAR-S-007	S-03-00	FRAMECAD WALL ELEVATIONS
201726-STR-VAR-S-008	S-04-00	SECTION A-A
201726-STR-VAR-S-009	S-05-00	DETAILS 1 - FOUNDATION & FOOTING DETAILS
201726-STR-VAR-S-010	S-05-01	DETAILS 2 - POST TO FLOOR CONNECTIONS 1
201726-STR-VAR-S-011	S-05-02	DETAILS 3 - POST TO FLOOR CONNECTIONS 2
201726-STR-VAR-S-012	S-05-03	DETAILS 4 - POST TO RING BEAM CONNECTION 1
201726-STR-VAR-S-013	S-05-04	DETAILS 5 - POST TO RING BEAM CONNECTION 2
201726-STR-VAR-S-014	S-05-05	DETAILS 6 - RAFTER SUPPORTS
201726-STR-VAR-S-015	S-05-06	DETAILS 7 - ROOF APEX DETAIL 1
201726-STR-VAR-S-016	S-05-07	DETAILS 8 - ROOF APEX DETAIL 2
201726-STR-VAR-S-017	S-05-08	DETAILS 9 - MAIN RAFTER DETAILS - COMMON & OBLIQUE
201726-STR-VAR-S-018	S-05-09	DETAILS 10 - TANKS SLAB DETAILS

FRAMECAD NOTES:

FRAMECAD ERECTORS MUST BE AWARE OF THE FOLLOWING POINTS BEFORE CONSTRUCTING FRAMECAD STEEL FRAMES.

- FRAMECAD STEEL FRAMES SHOULD BE INSPECTED ON ARRIVAL TO SITE. ANY DAMAGED PARTS SHOULD BE REPORTED IMMEDIATELY TO ENSURE CORRECT RECTIFICATION. PANELS MUST BE CLEANED AND FREE FROM DIRT PRIOR TO INSTALLATION. ANY DEEP SCRATCHES IN THE GALVANIZING COATING MUST BE TOUCHED UP WITH GALVANIZING PAINT. PANELS SHOULD BE KEPT UNDER COVER PRIOR TO INSTALLATION AT ALL TIMES.
- FRAME MODIFICATIONS MUST BE CHECKED BY ENGINEER. MINOR MODIFICATIONS TO FRAMES ARE EASILY MADE ON-SITE IF REQUIRED BY THE CLIENT. HOWEVER, CHECK WITH RHODES PROJECTS FOR ANY STRUCTURAL IMPLICATIONS.
- IMPORTANT NOTE:** TO ENSURE FRAME IS NOT INSTALLED UPSIDE DOWN OR WRONG WAY AROUND, MATCH THE FRAME NUMBERS AS PER THE FRAMING LAYOUT. ALL NUMBERS SHOULD BE INSTALLED THE RIGHT WAY UP. ALWAYS REFER BACK TO THE ARCHITECTURAL PLANS AND FRAMECAD ASSEMBLY DRAWINGS PRIOR TO FIXING DOWN THE FRAMES TO ENSURE CONSTRUCTION IS CORRECT.

ABBREVIATIONS:

GENERAL:

- TP TOP PLATE
- BP BOTTOM PLATE
- ST STUD
- NG NOGGING
- FP FLOOR PANEL
- O/A OVER ALL
- B/C BACK OF CHANNEL

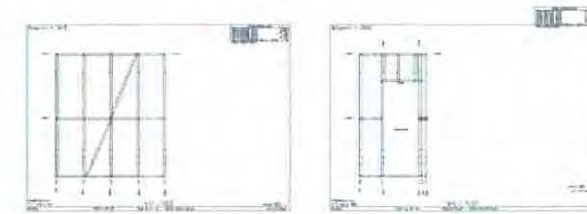
WALL:

- L LOAD BEARING WALL
- N NON-LOAD BEARING WALL
- BR BRACE
- WR WEB RAIL
- HD HEADER
- SL SILL
- LS LOW STUD
- NS NOGGING SUPPORT
- S SERVICE HOLE

TRUSS:

- T TOP RAIL
- W WEB
- B BOTTOM RAIL
- R RAFTER
- S SPLICE
- O OUTRIGGER
- F FASTENERS
- PL POINT LOAD

HOW TO READ WALL PANEL LAYOUT DRAWING:



SAMPLE - FRAMECAD ASSEMBLY DRAWINGS

STRUCTURAL:

- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND FRAMECAD DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ALL DISCREPANCIES SHALL BE REFERRED TO THE SUPERINTENDENT FOR DECISION BEFORE PROCEEDING WITH WORK.

STEELWORK NOTES:

- BOLTS ARE DESIGNATED ON THE DRAWINGS BY NUMBER, DIAMETER, GRADE. ALL BOLTS TO BE STANDARD BOLTS UNLESS NOTED OTHERWISE.
- ANY DAMAGED GALVANISED SURFACE SHALL RECEIVE ONE SITE COAT OF APPROVED ZINC EPOXY PAINT.
- FILLET WELDS SHALL BE AT LEAST 6mm CONTINUOUS FOR THE FULL CONTACT OF THE MEMBER UNLESS NOTED OTHERWISE. ALL BUTT WELDS SHALL BE FULL PENETRATION WELD.

FOOTINGS NOTES:

- THE BASE OF ALL FOOTINGS SHALL BE CLEANED OUT OF ALL LOOSE AND DISTURBED MATERIAL PRIOR TO PLACING CONCRETE. CARE SHALL BE TAKEN TO PREVENT LOOSE SURFACE MATERIAL FALLING INTO EXCAVATION.
- THE FOUNDATION EXCAVATION SHALL BE KEPT FREE OF WATER AT ALL TIME. CONCRETE SHALL NOT BE PLACED IN WATER.

DESIGN LOADS:

- DESIGN LOADS TO PNGS 1001
 - WIND - VELOCITY 28 m/s
 - TERRAIN CATEGORY 3
 - SEISMIC - ZONE 4

This drawing is certified to comply with the Engineering provisions of the Regulations under the Building Act, Chapter 301 of the Revised Laws of Papua New Guinea.

David Kawagle - 22/11/2017

Name: David Kawagle
Registered Structural Engineer No.: 0696159

FOR CONSTRUCTION

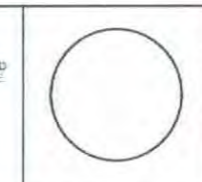


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REVISIONS			
REV	BY	DESCRIPTION	DATE
1	GU	CONSTRUCTION ISSUE	14/11/2017
2	GU	CONSTRUCTION ISSUE REV2	21/11/2017

DRAWN BY:	GU	14/07/2017	RHODES PNG
DESIGN BY:			
CHECKED BY:	DK	20/11/17	
DESIGN APPROVED:			
CLIENT APPROVED:			



VARIRATA INFORMATION CENTRE		VARIRATA PAPUA NEW GUINEA	
INDEX			
SCALE:	PROJECT NO:	DRAWING NO:	REV:
N.T.S	201726-ARC-VAR-S-000	S-01-00	2

GENERAL NOTES:

1. IN THE INTERPRETATION OF THESE DRAWINGS, INDICATED DIMENSIONS SHALL GOVERN AND DISTANCES OR SIZES SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.
2. ALL REINFORCED CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL STRUCTURAL CODE OF PNG.
3. ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH THE PNG CODE
4. SLABS ON FILL MUST BE PLACED UNLESS FILL HAS BEEN PROPERLY COMPACTED, UNLESS DETAILED OTHERWISE, ALL SLABS ON FILL SHALL BE PROVIDED WITH 50mm WELL COMPACTED CLEAN COARSE SAND BED. BACK FILLING OF ALL EXCAVATED AREAS AND PREPARATION OF SUB BASE SHALL BE WELL COMPACTED TO AT LEAST 95% OF THE MODIFIED PROCTOR DENSITY BEFORE LAYING 100mm CLEAN COARSE SAND BED.
5. SAND SHALL BE "WASHED SAND" AND FREE OF ANY MUD, DIRT AND ANY OTHER FOREIGN MATERIALS.

NOTES ON CONCRETE SLABS:

1. ALL SLABS REINFORCEMENT SHALL HAVE A CLEAR DISTANCE OF 20mm FROM THE BOTTOM AND FROM THE TOP OF SLABS.
2. IF SLABS ARE REINFORCED BOTH WAYS, BARS ALONG THE SHORTER SPAN SHALL BE PLACED BELOW THOSE ALONG THE SPAN AT THE CENTER AND OVER THE LONGER SPAN BARS NEAR THE SUPPORTS.

NOTES ON STRUCTURAL FRAMING:

LIGHT GAUGE STEEL FRAMING SYSTEM

1. STRUCTURAL FRAMING - GALVANIZED STEEL, USING UN-OILED, DRY TYPE COILS.

BMT THICKNESS

1. BASE METAL THICKNESS (EXAMPLE: 0.75 BMT = Z275 COATING (0.04mm)=APPROX. 1.20mm)

STRENGTH

1. HIGH TENSILE: G550 FOR 0.55 - 0.95mm THICK COIL
2. LOW TENSILE: G250 - G350 FOR 1.15mm THICK COIL

A CALCULATED WEIGHT

1. 1mm X 100mm X 1.0METER = 0.008488235 KGS

NOTES ON CONCRETE MIXES AND PLACING:

1. UNLESS OTHERWISE INDICATED IN PLANS OR NOTED IN THE SPECIFICATIONS THE MINIMUM 28-DAY CYLINDER COMPRESSIVE STRENGTH OF CONCRETE, f_c , SHALL BE AS FOLLOWS:

CONCRETE WALLS	25 MPA
SLABS ON GRADE	25 MPA
FOOTING	25 MPA
2. CONCRETE SHALL BE DEPOSITED IN ITS FINAL POSITION WITHOUT SEGREGATION, RE-HANDLING OR FLOWING. PLACING SHALL BE DONE PREFERABLY WITH BUGGIES, BUCKETS OR WHEEL BARROWS. NO CHUTES WILL BE ALLOWED EXCEPT TO TRANSFER CONCRETE FROM HOPPERS TO BUGGIES, WHEEL BARROWS OR BUCKETS. IN WHICH CASE, THEY SHALL NOT EXCEED SIX (6) METERS IN AGGREGATE LENGTH.
3. CONTRACTOR SHALL DESIGN, INSTALL, AND MONITOR ALL EXCAVATION RETENSION SYSTEMS AS REQUIRED FOR PROTECTION OF ADJACENT PROPERTIES AND PROVIDE ALL MEASURES AND PRECAUTIONS NECESSARY TO MINIMIZE SETTLEMENT AND PREVENT DAMAGE TO ADJACENT EXISTING OR NEW CONSTRUCTION.

NOTES ON REINFORCING STEEL BARS:

1. ALL REINFORCING BARS SHALL BE CLEANED THOROUGHLY OF ALL LOOSE RUST, SOIL OR OTHER MATERIAL IMMEDIATELY PRIOR TO PLACING CONCRETE.
2. REINFORCING BARS SHALL NOT BE WELDED WITHOUT THE STRUCTURAL ENGINEER'S WRITTEN PERMISSION. WELDING OF STIRRUPS, TIE, INSERTS OR OTHER SIMILAR ELEMENTS TO LONGITUDINAL REINFORCEMENT SHALL NOT BE ALLOWED.
3. CLEAR CONCRETE COVER FOR REINFORCING BARS SHALL BE AS FOLLOWS: (MINIMUM)

CONCRETE CAST AGAINST EARTH	-	75mm
CONCRETE EXPOSED TO EARTH OR WEATHER 16Ø BARS AND SMALLER	-	40mm
CONCRETE NOT EXPOSED TO EARTH OR WEATHER SLABS, WALLS, JOINTS	-	20mm
BEAMS AND COLUMNS	-	40mm
4. SEE TABLE "A" FOR SCHEDULE OF LAP AND SPLICES, GIRDERS

TABLE A: LAS SPLICE LENGTH

BAR DIAMETER	BEAM/GIRDERS	COLUMNS	WALLS	SLABS
10	-	-	400	400
12	-	-	400	400

NOTES ON STRUCTURAL STEEL:

1. STEEL SHALL HAVE THE FOLLOWING MINIMUM VALUES YIELD STRESS (FY) UNLESS SHOWN OTHERWISE:

SECTIONS AND PLATES TO AS 1204	- 250MPA
SQUARE AND RECTANGULAR HOLLOW SECTIONS TO AS 1163	- 250MPA
CIRCULAR HOLLOW SECTIONS TO AS 1163 OR AS 1074:	
: DIAMETERS UP TO AND INCLUDING 165MM	- 200MPA
: DIAMETERS 168MM AND LARGER	- 350MPA
PARALLEL FLANGE CHANNEL TO AS/NZS 3679.1-300	- 425MPA

This drawing is certified to comply with the Structural Engineering provisions of the Regulations under the Building Act, Chapter 301 of the Revised Laws of Papua New Guinea.

Name: **David Kawagle**

 Registered Structural Engineer No.: 0696159

FOR CONSTRUCTION



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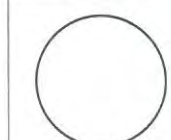
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REVISIONS			
REV	BY	DESCRIPTION	DATE
1	GU	CONSTRUCTION ISSUE	09/11/2017
2	GU	CONSTRUCTION ISSUE REVISED - FOOTING NOTE TO 25MPA	24/11/2017
3	GU	REVISION OF STRUCTURAL STEEL NOTES	09/01/2018
4	GU	UPDATED STRUCTURAL STEEL NOTES	11/01/2018

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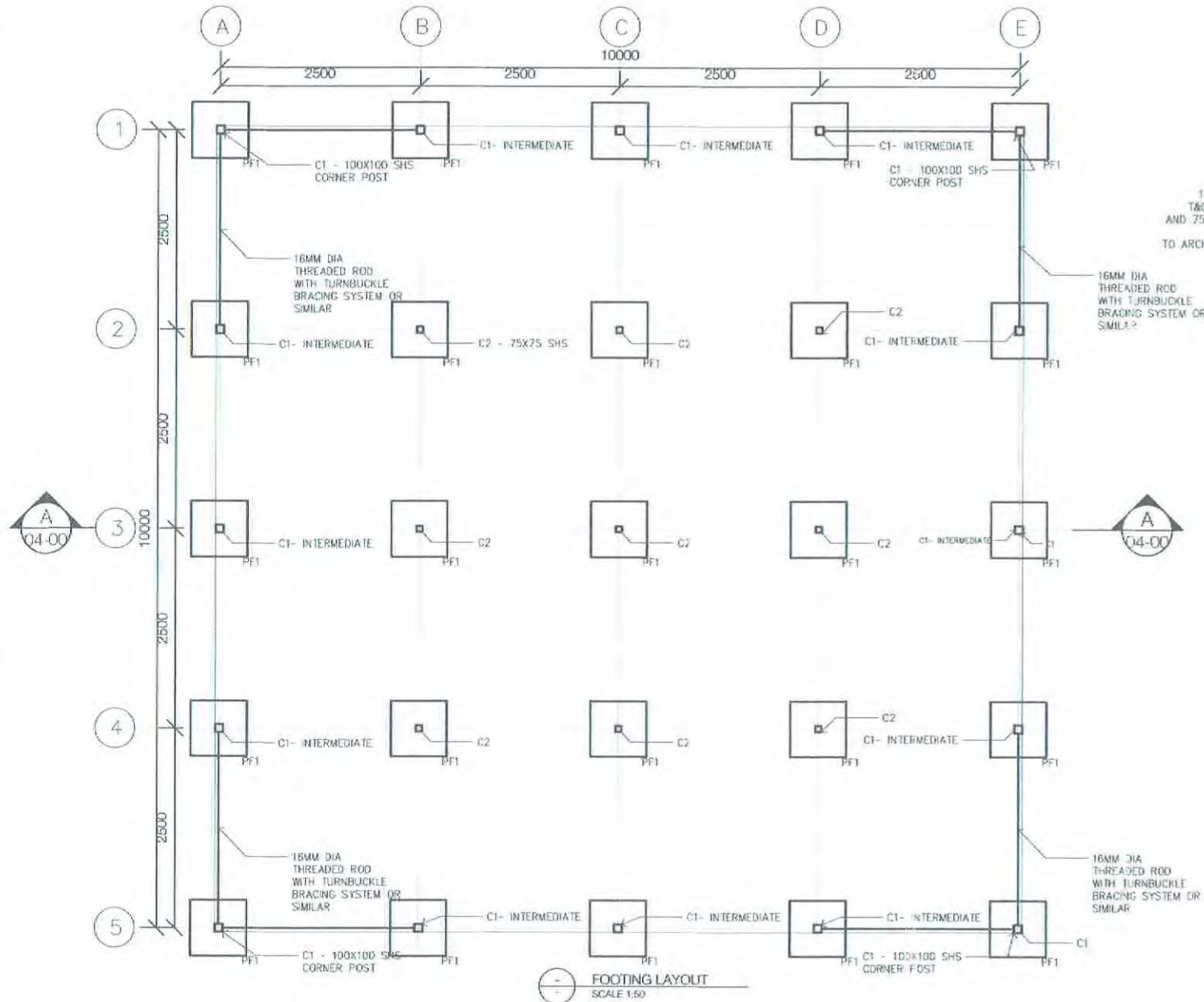
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N.T.S	201726-ARC-VAR-S-001	SN-01	5

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David Kawagle 06-22/11/2017

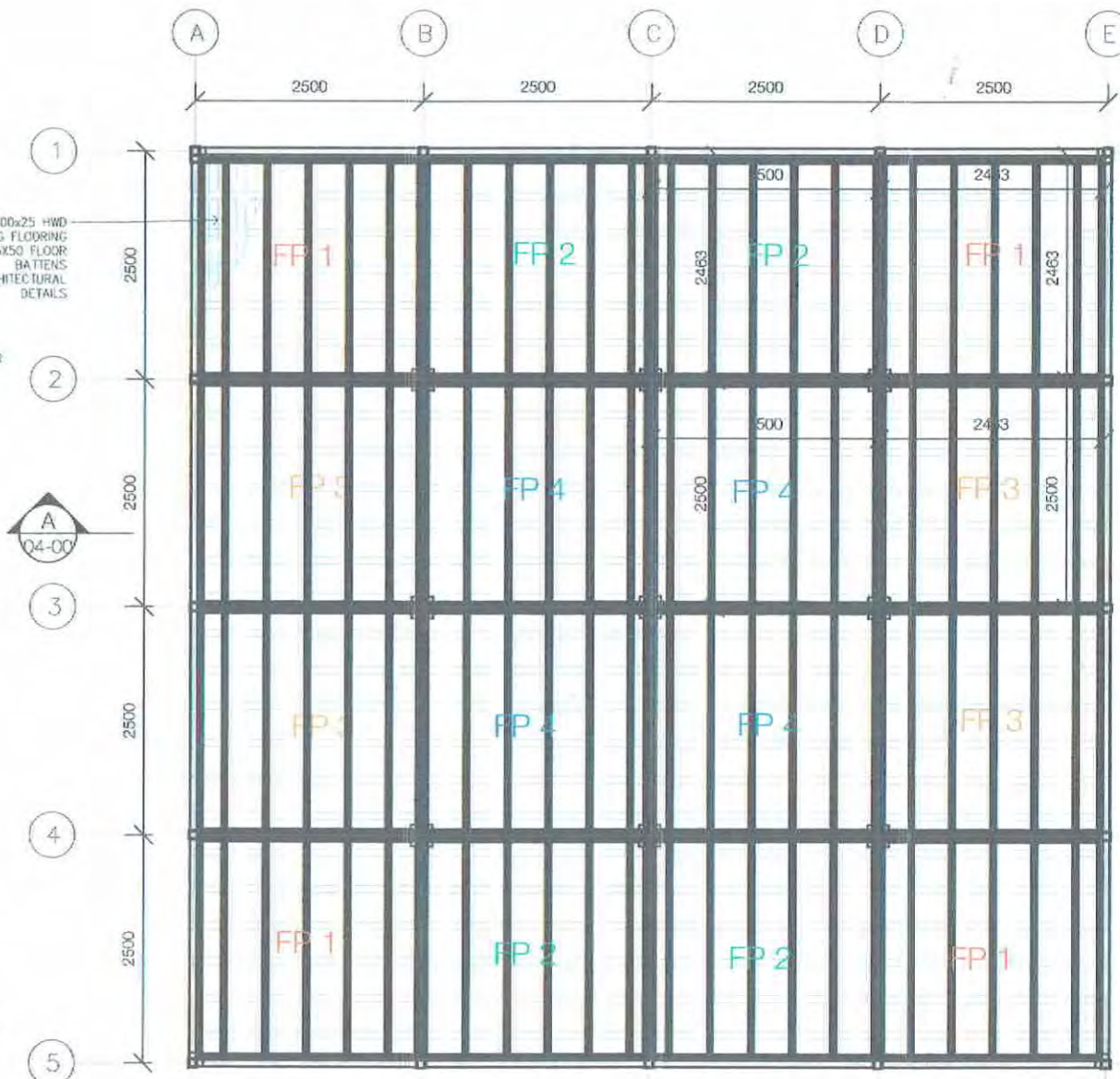
Name: David Kawagle
Registered Structural Engineer No.: 0696159

FLOOR PANEL #	SIZE	QTY
FP 1	2450 X 2450	4
FP 2	2500 X 2450	4
FP 3	2450 X 2500	4
FP 4	2500 X 2500	4



POST SIZES
C1 - 100 X 100 X 5.0
C2 - 75 X 75 X 5.0
PF1 - 700 X 700 X 800

FOOTING PLAN
SCALE 1:75



NOTE: REFER TO SUBFLOOR DETAILS ON S05-02

SUBFLOOR FRAMING PLAN
SCALE 1:75

FOR CONSTRUCTION

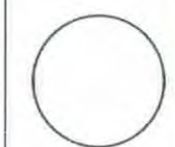


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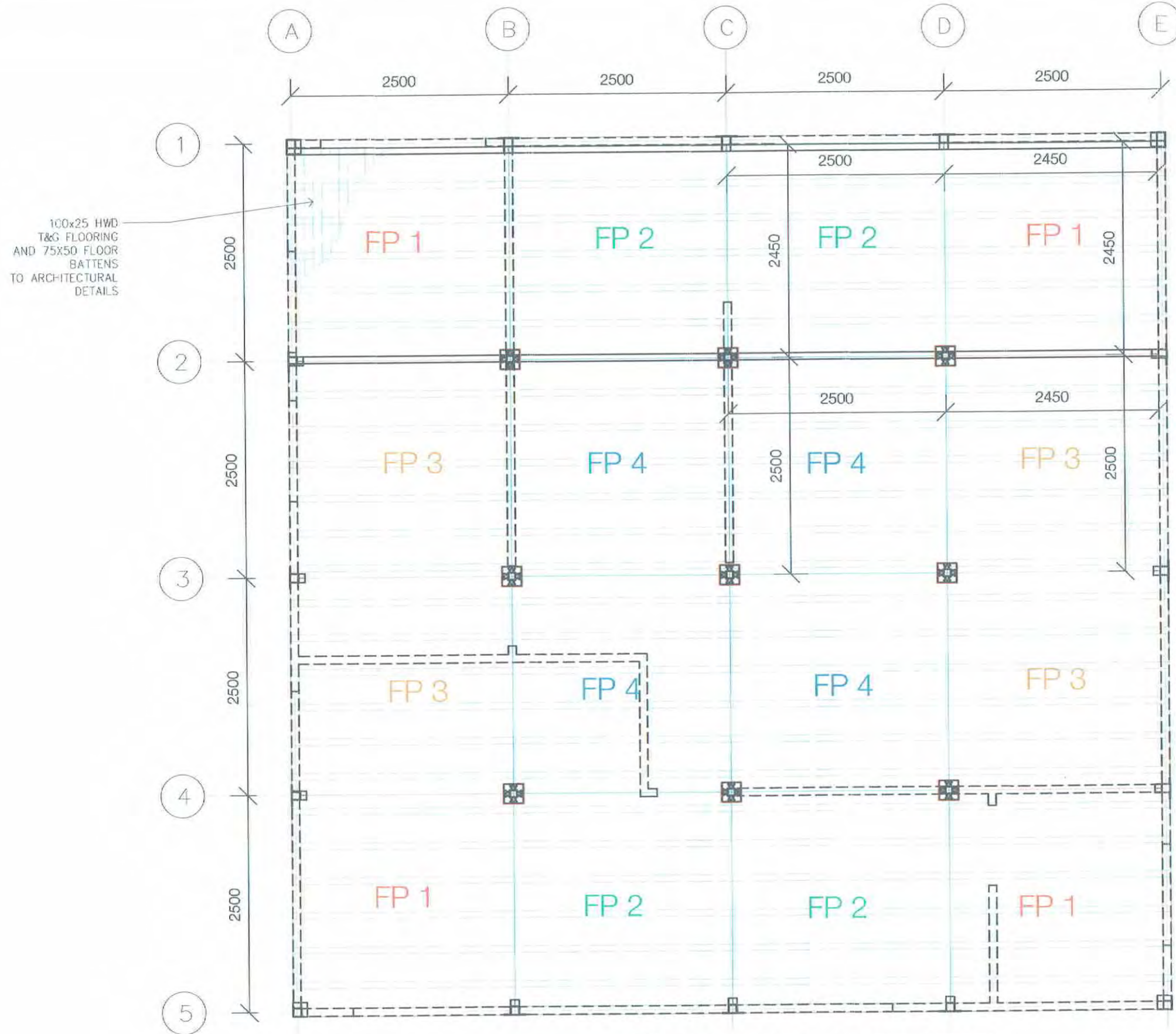
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1	GU	CONSTRUCTION ISSUE	08/11/2017
2	GU	CONSTRUCTION ISSUE REV?	21/11/2017

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VARIRATA INFORMATION CENTRE		VARIRATA PAPUA NEW GUINEA
FOOTING / SUB FLOOR FRAMING PLAN		
SCALE: 1:75 @ A3	PROJECT NO 201726-STR-VAR-S-002	DRAWING NO: S-02-00
		2



FLOOR PANEL #	SIZE	QTY
FP 1	2450 X 2450	4
FP 2	2500 X 2450	4
FP 3	2450 X 2500	4
FP 4	2500 X 2500	4

This drawing is certified to comply with the Structural Engineering provisions of the Regulations under the Building Act, Chapter 301 of the Revised Laws of Papua New Guinea.

David Kawagle - 22/11/2017
 Name: David Kawagle
 Registered Structural Engineer No.: 0698159



NOTE: REFER TO SUBFLOOR DETAILS ON S05-02

FRAME CAD PANEL LAYOUT(WALL OUTLINES)
 SCALE 1:50

FOR CONSTRUCTION

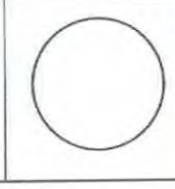


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VARIRATA INFORMATION CENTRE		VARIRATA PAPUA NEW GUINEA
SUB-FLOOR FRAMECAD FRAMING PLAN		
SCALE: 1:50 @ A3	PROJECT NO: 201726-STR-VAR-S-003	DRAWING NO: S-02-01
		REV: 2

STRUCTURAL MEMBER	SIZE	QTY	DESCRIPTION OR LOCATION
R1 TYPE 1	100 X 100 X 5.0 SHS	8	RAFTER TYPE 1
R1 TYPE 2	100 X 100 X 5.0 SHS	8	RAFTER TYPE 2
R1 TYPE 3	100 X 100 X 5.0 SHS	2	APEX RAFTER CONNECTOR
R2 TYPE 1	100 PFC	8	RAFTER TYPE 1
R2 TYPE 2	100 PFC	8	RAFTER TYPE 2
R2 TYPE 3	100 PFC	2	APEX RAFTER CONNECTOR
RB1	100 X 100 X 5.0 SHS	4	RING BEAM TYPE 1
RB2	100 X 100 X 5.0 SHS	4	RING BEAM TYPE 2
RS 1	100 X 100 X 5.0 SHS	12	RAFTER SUPPORT FOR R1 TYPE 1&2 (S05-05)
RS 2	75 X 75 X 5.0 SHS	16	RAFTER SUPPORT FOR R2 TYPE 1&2 (S05-05)
R3	50 X 50 X 4.0 SHS	16	ROOF BRACING

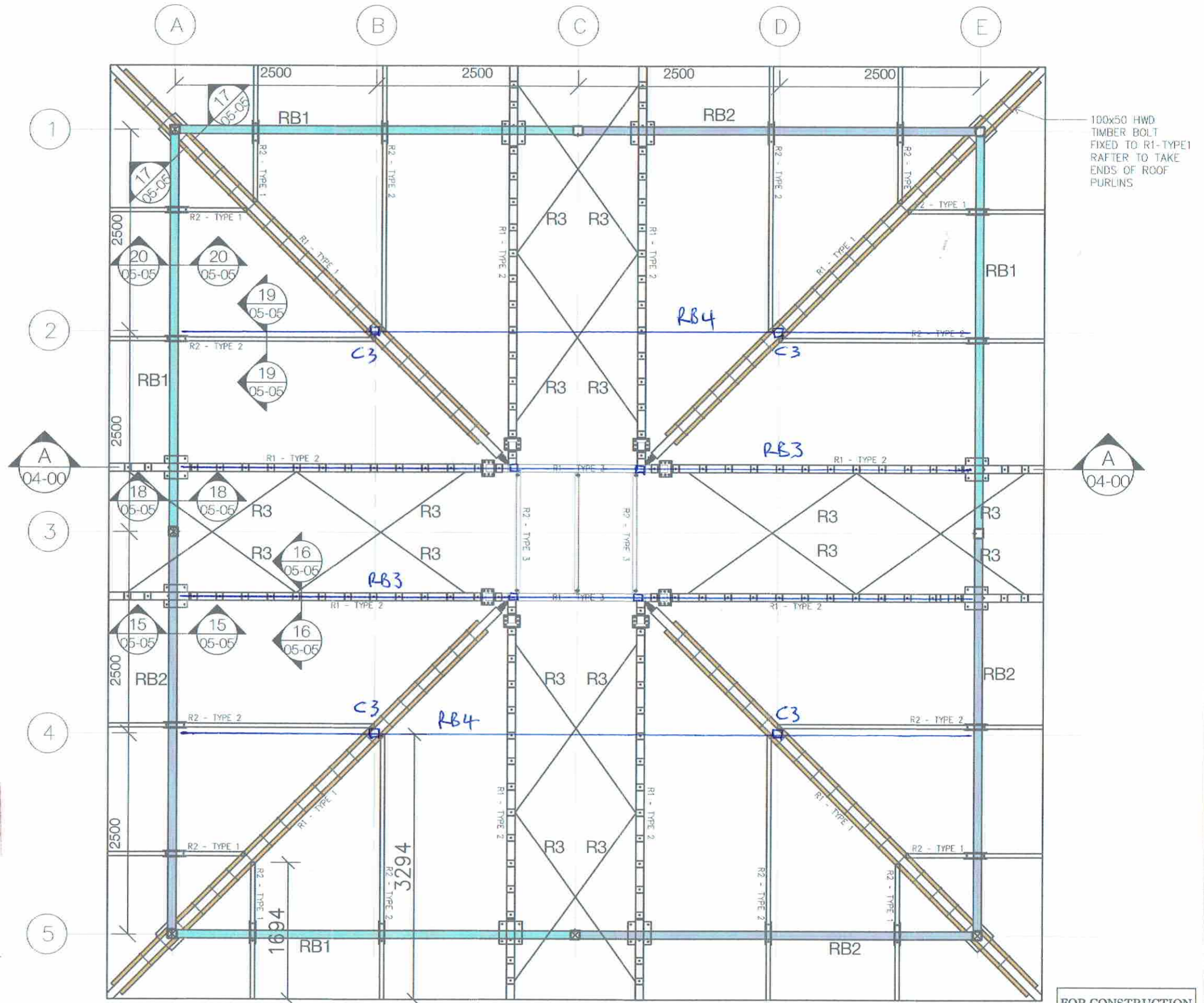
C3 100x5.0 SHS RAFTER SUPPORT
 RB3 380 PFC RAFTER SUPPORT
 RB4 300 PFC RAFTER SUPPORT

This drawing is certified to comply with the Structural Engineering provisions of the Regulations under the Building Act, Chapter 301 of the Revised Laws of Papua New Guinea.

David Kawagle - 22/11/2017

Name: David Kawagle
 Registered Structural Engineer No.: 0696159

RING BEAM LAYOUT (AT ROOF LEVEL)
 SCALE 1:50



FOR CONSTRUCTION



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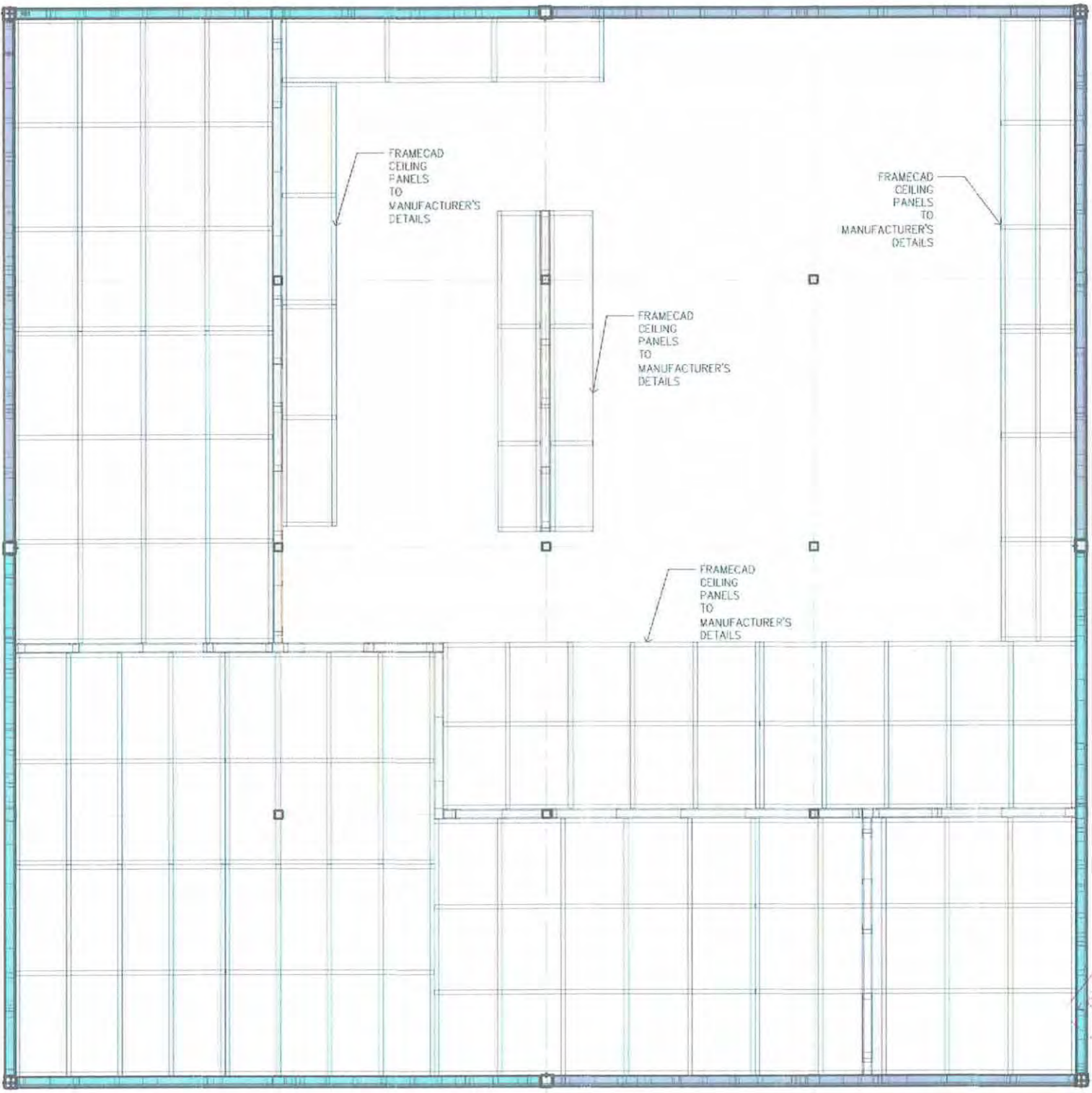
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RING BEAM LAYOUT		
SCALE: 1:50 @ A3	PROJECT NO: 201 726-STR-VAR-S-004	DRAWING NO: S-02-02
		REV: 2

1
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A B C D E



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David Kawagle - 22/11/2017
 Registered Structural Engineer No.: 0696159

FRAMECAD CEILING & BULKHEAD PLAN
 SCALE 1:50

10000

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VARIRATA INFORMATION CENTRE		VARIRATA PAPUA NEW GUINEA
FRAMECAD CEILING & BULKHEAD PLAN		
SCALE: 1:50 @ A3	PROJECT NO: 201726-STR-VAR-S-005	DRAWING NO: S02-03
		REV: 2

STRUCTURAL MEMBER	SIZE	QTY	DESCRIPTION OR LOCATION
R1 TYPE 1	100 X 100 X 5.0 SHS	8	RAFTER TYPE 1
R1 TYPE 2	100 X 100 X 5.0 SHS	8	RAFTER TYPE 2
R1 TYPE 3	100 X 100 X 5.0 SHS	2	APEX RAFTER CONNECTOR
R2 TYPE 1	100 PFC	8	RAFTER TYPE 1
R2 TYPE 2	100 PFC	8	RAFTER TYPE 2
R2 TYPE 3	100 PFC	2	APEX RAFTER CONNECTOR
RB1	100 X 100 X 5.0 SHS	4	RING BEAM TYPE 1
RB2	100 X 100 X 5.0 SHS	4	RING BEAM TYPE 2
RS 1	100 X 100 X 5.0 SHS	12	RAFTER SUPPORT FOR R1 TYPE 1&2 (S05-05)
RS 2	75 X 75 X 5.0 SHS	16	RAFTER SUPPORT FOR R2 TYPE 1&2 (S05-05)
R3	50 X 50 X 4.0 SHS	16	ROOF BRACING

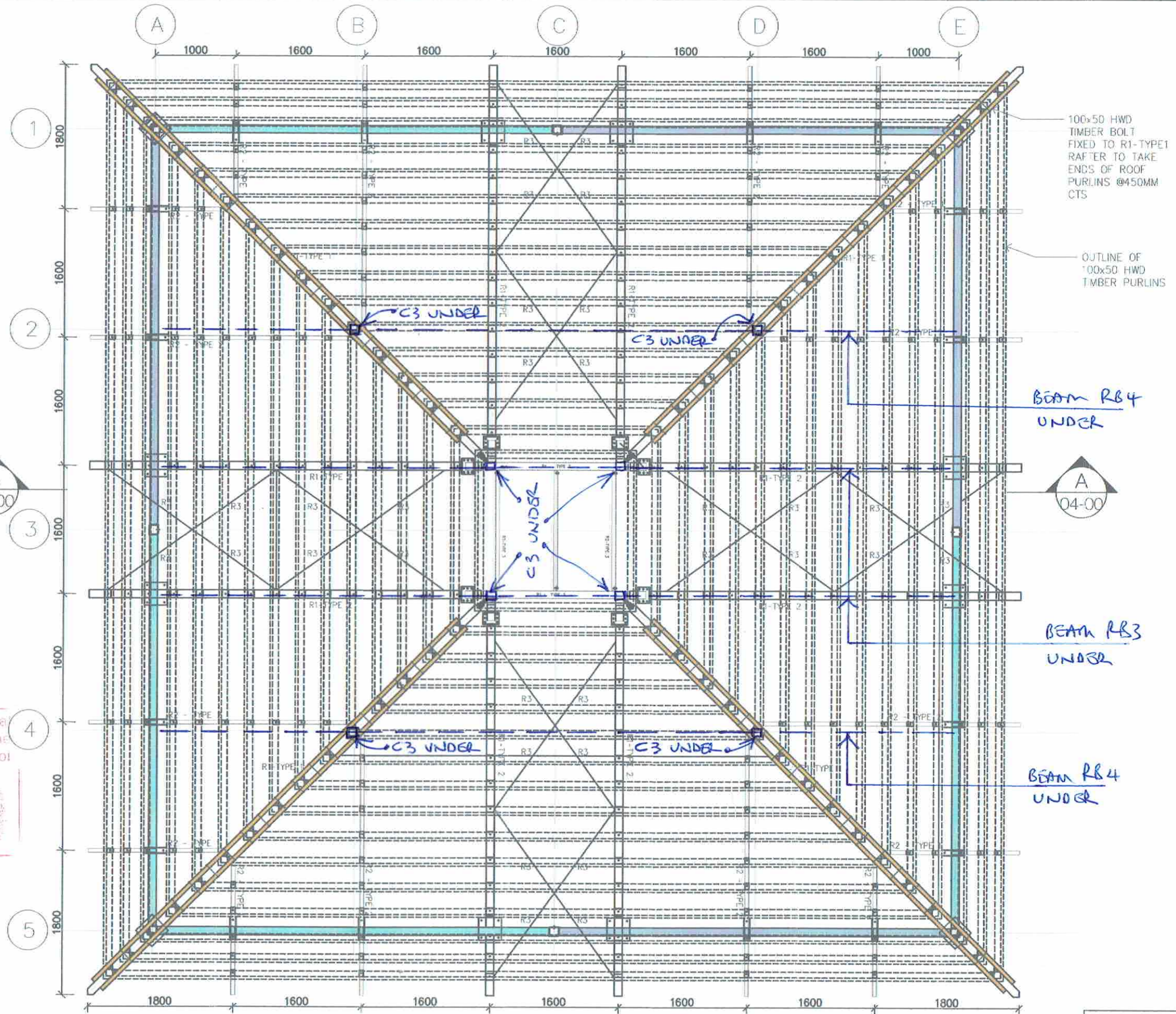
C3 100x5.0 SHS RAFTER SUPPORT
 RB3 380 PFC RAFTER SUPPORT
 RB4 300 PFC RAFTER SUPPORT

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David Kawagle - 22/11/2017

Name: David Kawagle
 Registered Structural Engineer No.: 0696159

ROOF FRAMING PLAN
 SCALE 1:50



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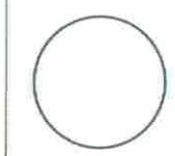


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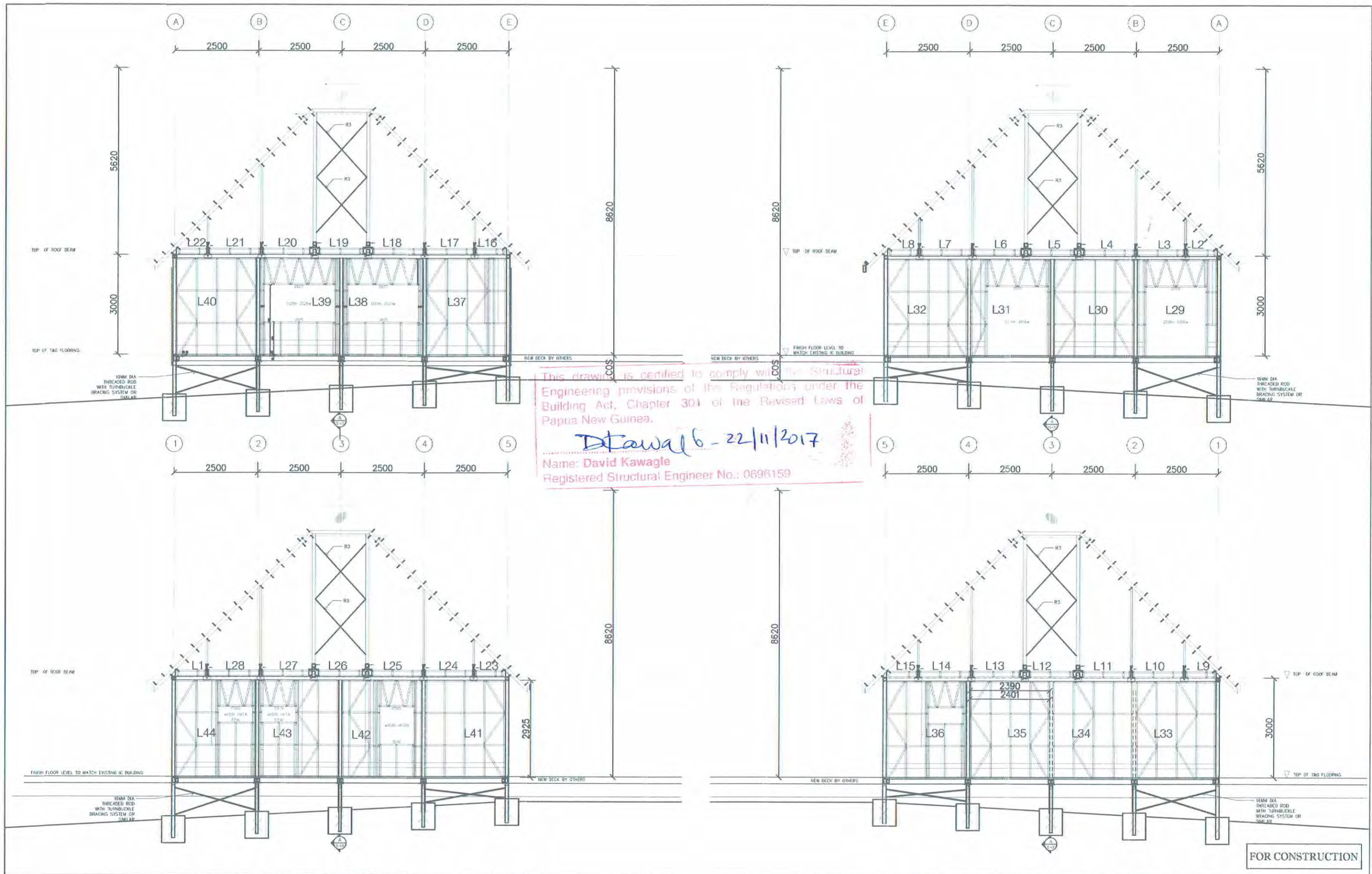
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ROOF FRAMING PLAN		
SCALE: 1:50 @ A3	PROJECT NO: 201726-STR-VAR-S-006	DRAWING NO: S02-04
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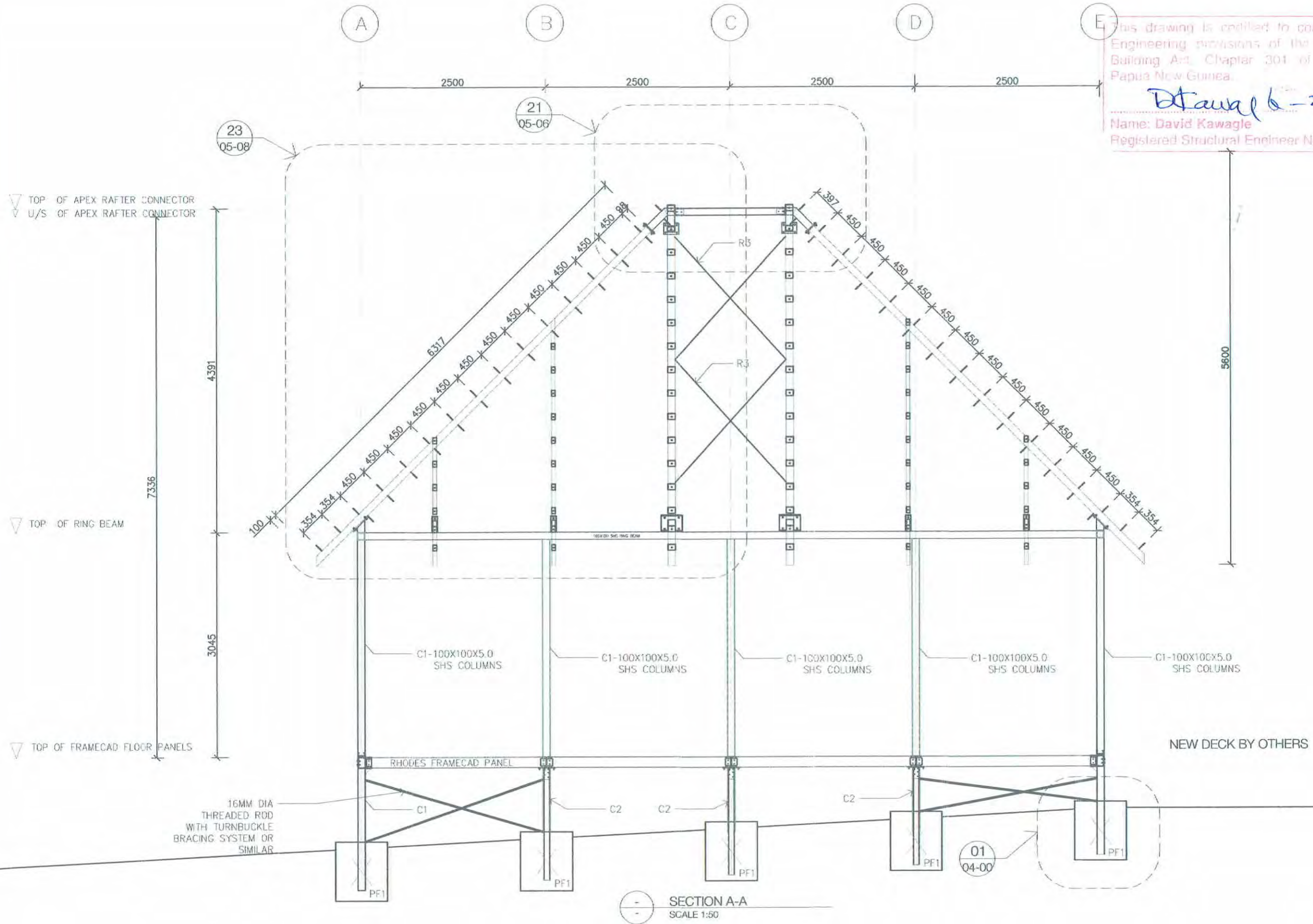
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David Kawagle - 22/11/2017

Name: David Kawagle
Registered Structural Engineer No.: 0896159



23
05-08

21
05-06

01
04-00



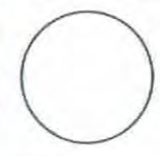
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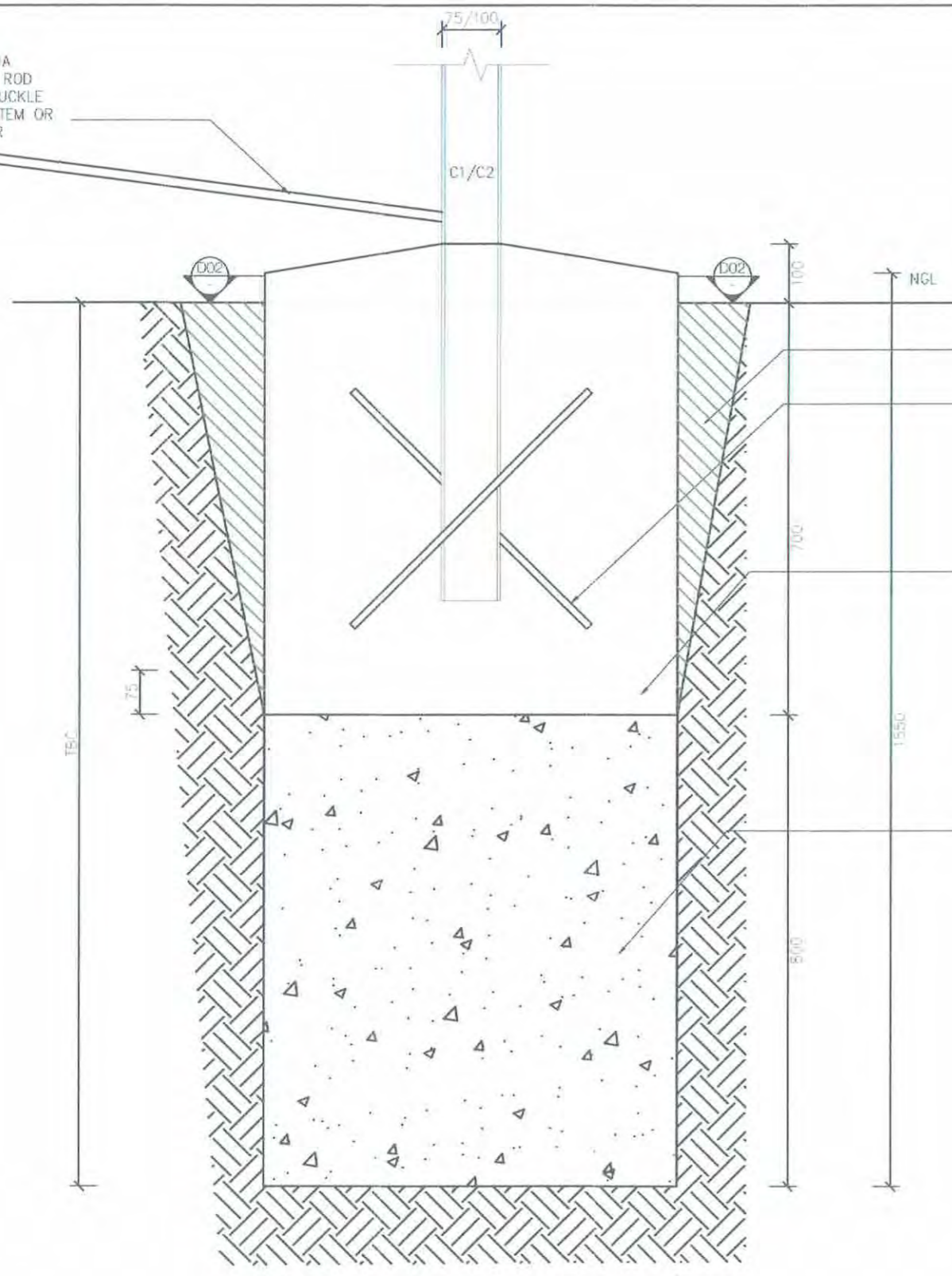
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16MM DIA
THREADED ROD
WITH TURNBUCKLE
BRACING SYSTEM OR
SIMILAR

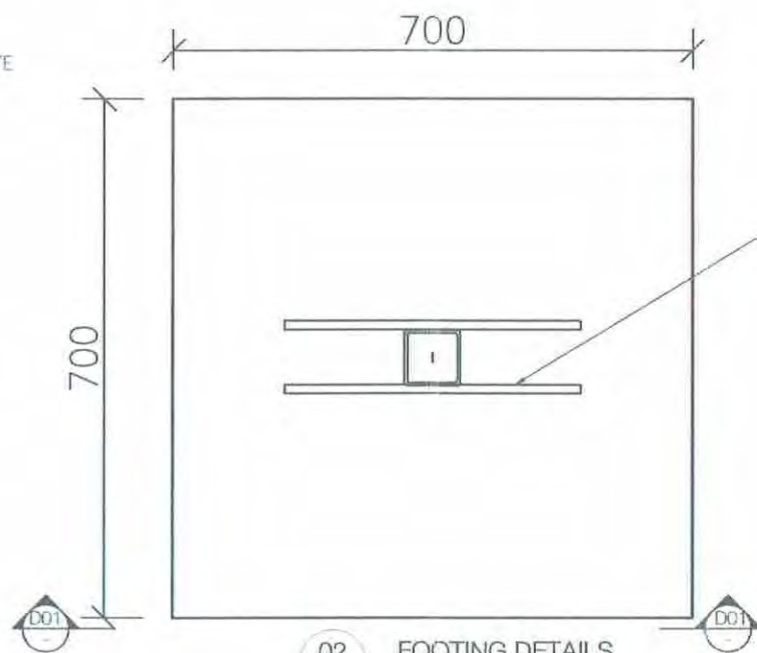


SUITABLE
COMPACTED BACKFILL
MATERIAL

Y12 -400 LONG
BARS WELDING
TO C1 /C2
75MM COVER

25MPA CONCRETE

MASS CONCRETE
BLINDING
15MPA



Y12 -400 LONG
BARS WELDING
TO C1 /C2

02 FOOTING DETAILS
SCALE 1:10

01 TYPICAL C1 / C2 FOOTING DETAIL
SCALE 1:10

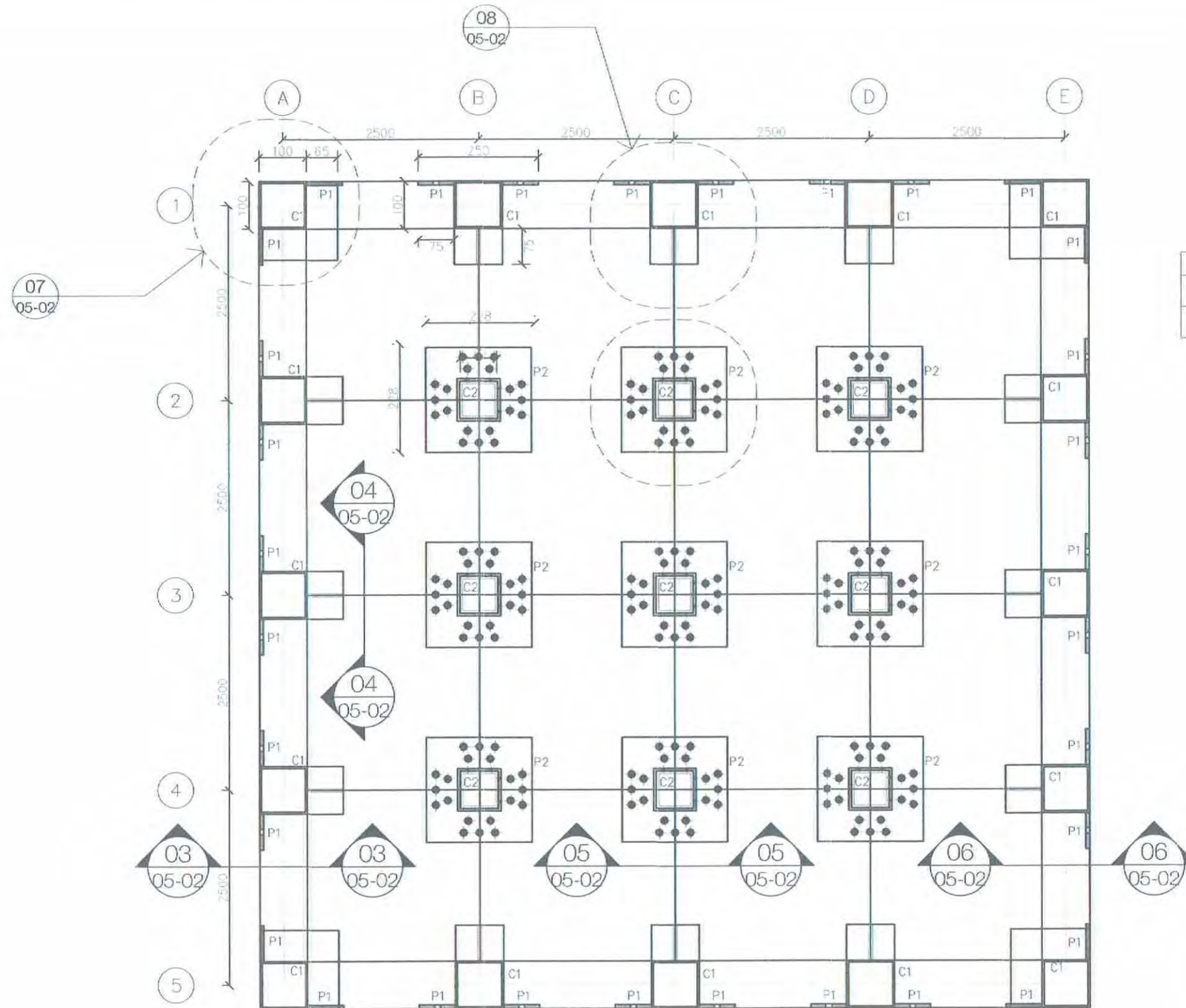
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David Kawagie - 22/11/2017

Name: David Kawagie
Registered Structural Engineer No.: 0696159

FOR CONSTRUCTION

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2	GU	CONSTRUCTION ISSUE REV?	21/11/2017																																			
DRAWN BY:	GU	14/07/2017	RHODES PNG																																			
DESIGN BY:																																						
CHECKED BY:	DK	20/11/2017																																				
DESIGN APPROVED:																																						
CLIENT APPROVED:																																						
<p>PORTICK, 2702 NAPA NAPA ROAD POMERADA, CENTRAL PROVINCE PAPUA NEW GUINEA</p> <p>+675 726 08372 E: office@rhodespng.com M: www.rhodespng.com</p>																																						



STRUCTURAL MEMBER	STRUCTURAL MEMBER	QTY	DESCRIPTION OR LOCATION	PLATE SIZES
PLATE 1 - P1	CLEAR FOR PERIMETER CURLIN	56	SUB FLOOR	100x750mm
PLATE 2 - P2	PIER HEAD PLATE	9	SUB FLOOR	200x320x3mm

This drawing is certied to comply with the Structural Engineering provisions of the Regulations under the Building Act, Chapter 301 of the Revised Laws of Papua New Guinea.

David Kawagle - 22/11/2017

Name: **David Kawagle**
Registered Structural Engineer No.: 0636159

5 PIER HEAD AND COLUMN PLATE DETAILS
SCALE 1:10

FOR CONSTRUCTION

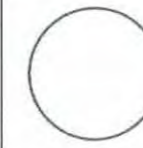


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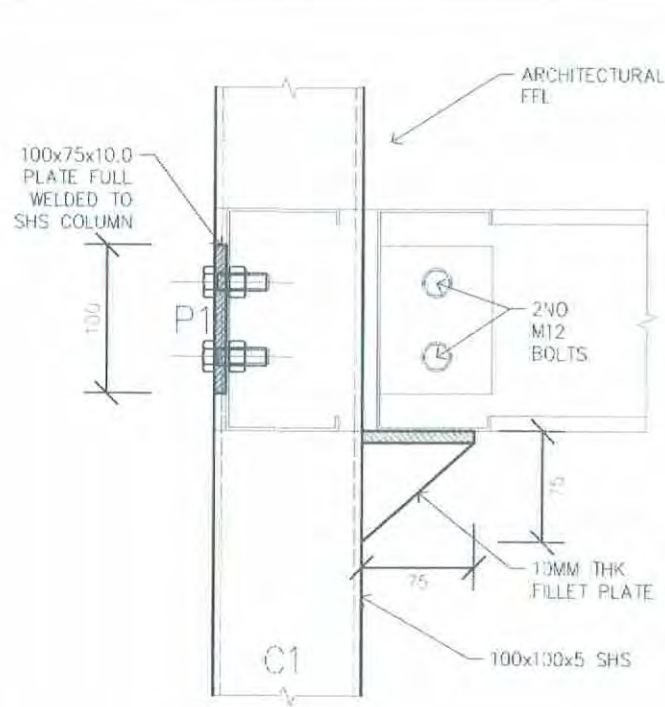
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2	GU	CONSTRUCTION ISSUE REV2	21/11/2017

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DESIGN BY:			
CHECKED BY:	DK	20/11/2017	
DESIGN APPROVED:			
CLIENT APPROVED:			

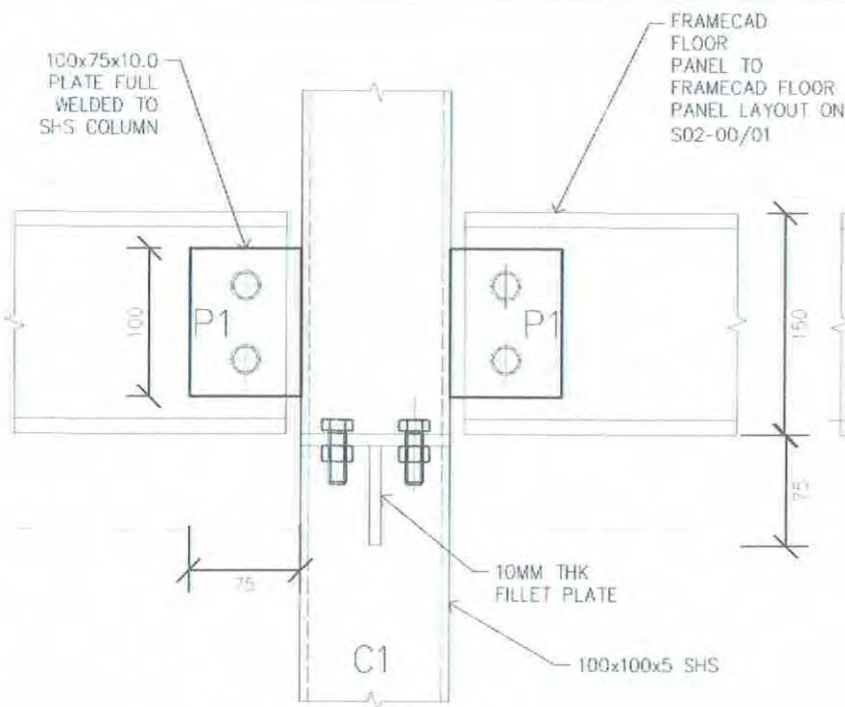
PORTION 2702 MARKIYAMA ROAD
KORORUVA, CENTRAL PROVINCE
PAPUA NEW GUINEA
P: +675 706 0837
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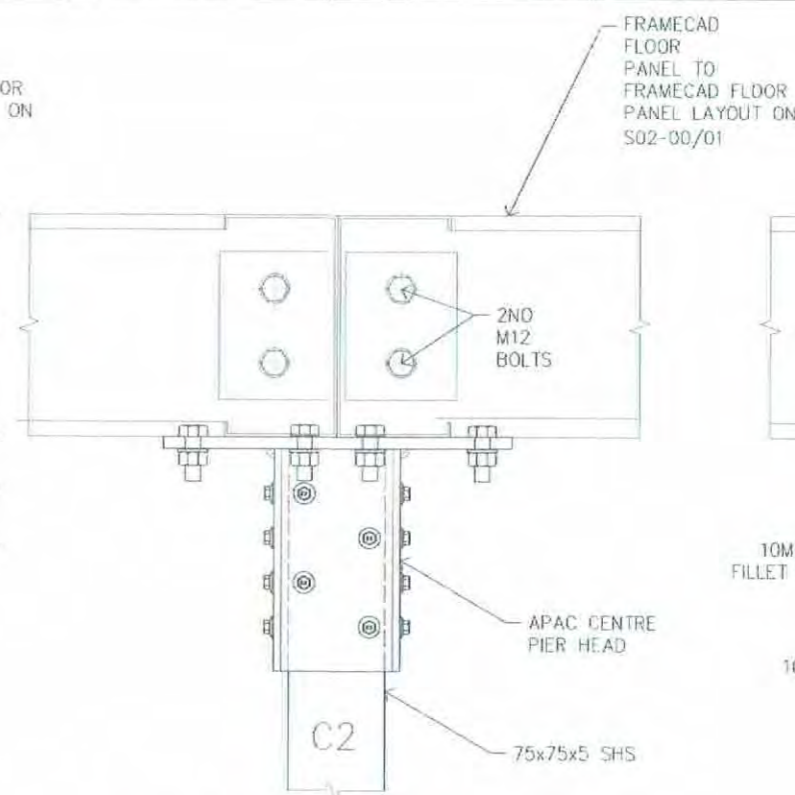
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DETAILS 2- POST TO FLR CONNECTNS 1			
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1:5 @ A3	201726-ARC-VAR-S-010	S-05-01	2



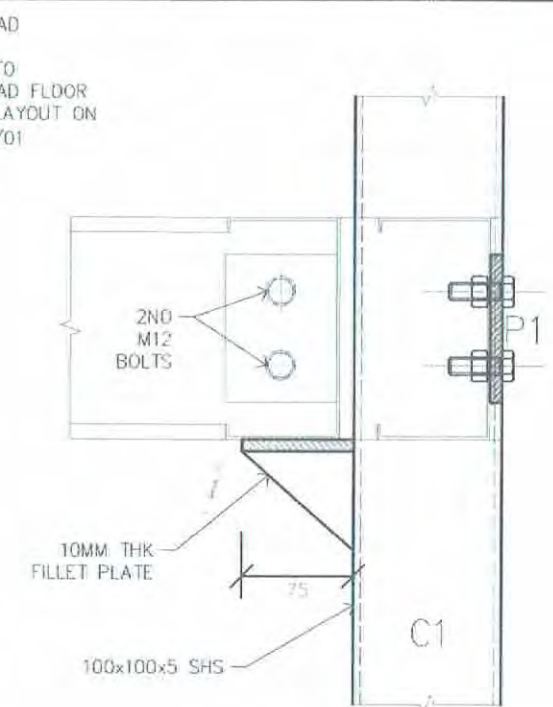
03 FLOOR TO C1 COLUMN
05-01 SCALE 1:5



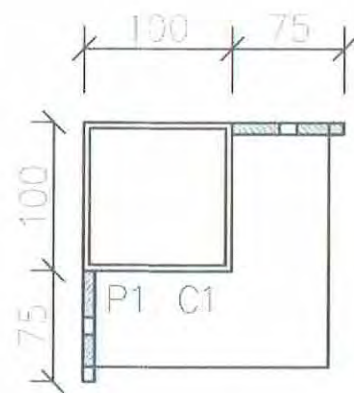
04 FLOOR TO C1 COLUMN
05-01 SCALE 1:5



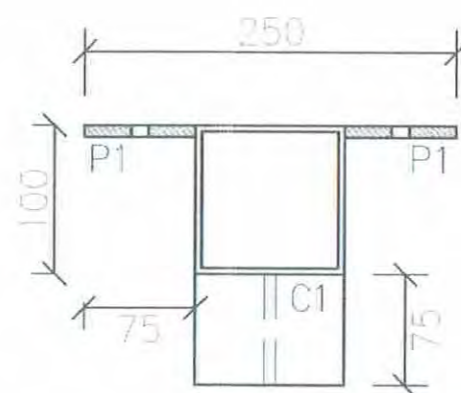
05 FLOOR TO C2 COLUMN
05-01 SCALE 1:5



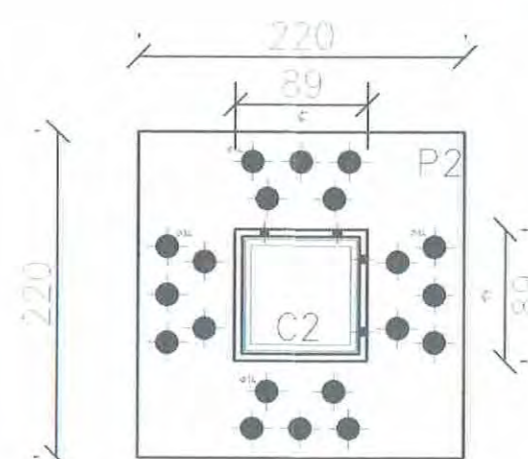
06 FLOOR TO C2 COLUMN
05-01 SCALE 1:5



07 CORNER POST PLATE DETAIL
05-01 SCALE 1:5



08 INTERMEDIATE POST PLATE DETAIL
05-01 SCALE 1:5



09 INTERMEDIATE SUBFLOOR CENTRAL PIER HEAD
05-01 SCALE 1:5

This drawing is certified to comply with the Structural Engineering provisions of the Regulations under the Building Act, Chapter 301 of the Revised Laws of Papua New Guinea.

David Kawagle - 22/11/2017

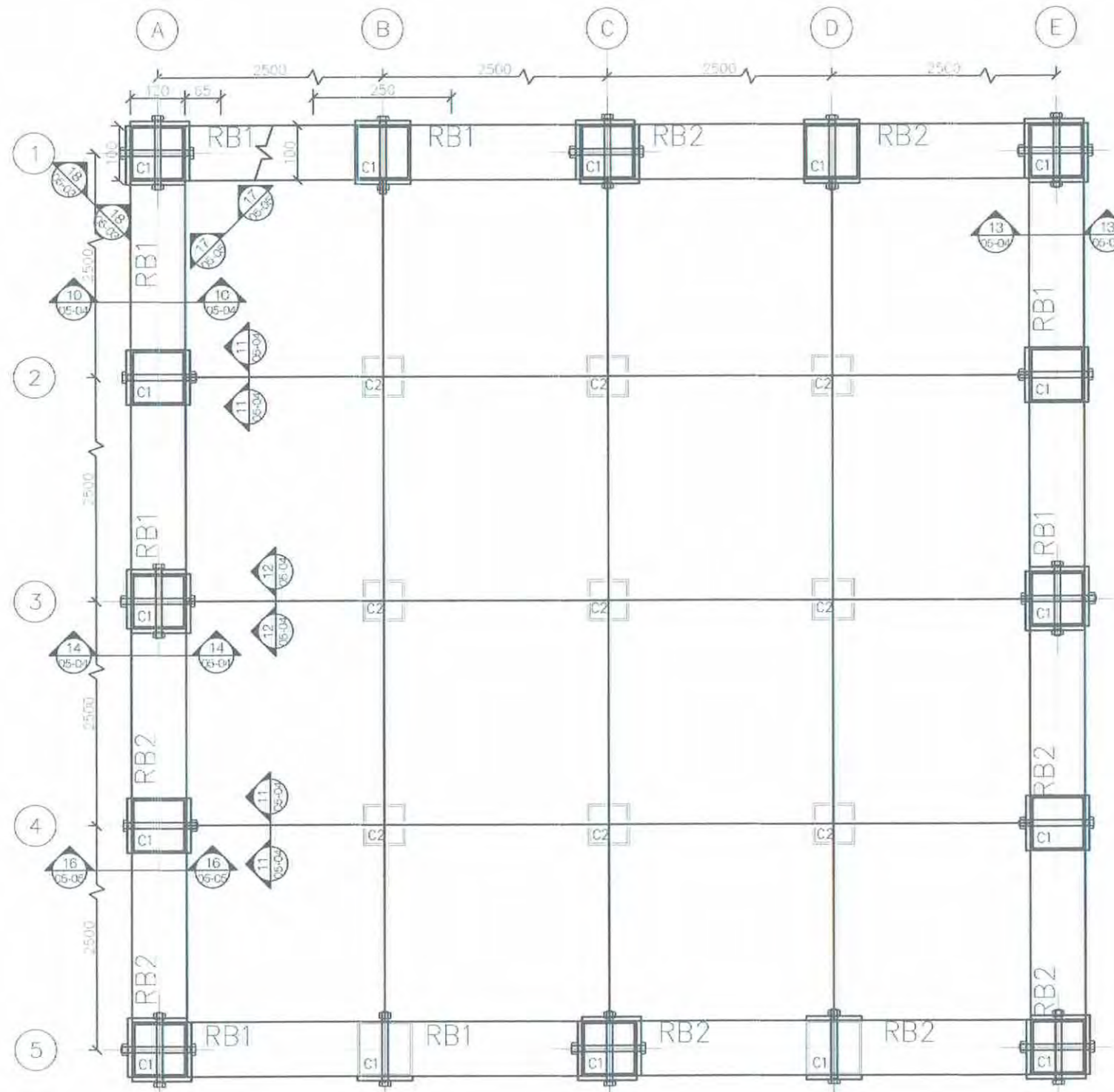
Name: **David Kawagle**
Registered Structural Engineer No.: 0696159

STRUCTURAL MEMBER	STRUCTURAL MEMBER	QTY	DESCRIPTION OR LOCATION	PLATE SIZES
PLATE 1 - P1	CLEAR FOR PERIMETER C PURLIN	39	SUB FLOOR	100x75x10mm
PLATE 2 - P2	PIER HEAD PLATE	1	SUB FLOOR	220x220x10mm

P1 = 100X75X10

FOR CONSTRUCTION

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		REV	BY	DESCRIPTION	DATE																			
1	GU	CONSTRUCTION ISSUE	09/11/2017																					
2	GU	CONSTRUCTION ISSUE REV2	21/11/2017																					



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RING BEAM LAYOUT (AT ROOF LEVEL)
SCALE 1:10

STRUCTURAL MEMBER	SIZE	QTY	DESCRIPTION OR LOCATION
R1 TYPE 1	100 X 100 X 5.0 SHS	8	RAFTER TYPE 1
R1 TYPE 2	100 X 100 X 5.0 SHS	8	RAFTER TYPE 2
R1 TYPE 3	100 X 100 X 5.0 SHS	2	APEX RAFTER CONNECTOR
R2 TYPE 1	100 PFC	8	RAFTER TYPE 1
R2 TYPE 2	100 PFC	8	RAFTER TYPE 2
R2 TYPE 3	100 PFC	2	APEX RAFTER CONNECTOR
RB1	100 X 100 X 5.0 SHS	4	RING BEAM TYPE 1
RB2	100 X 100 X 5.0 SHS	4	RING BEAM TYPE 2
RS 1	100 X 100 X 5.0 SHS	12	RAFTER SUPPORT FOR R1 TYPE 1&2 (S05-05)
RS 2	75 X 75 X 5.0 SHS	16	RAFTER SUPPORT FOR R2 TYPE 1&2 (S05-05)
R3	50 X 50 X 4.0 SHS	16	ROOF BRACING

This drawing is certified to comply with the Structural Engineering provisions of the Regulations under the Building Act, Chapter 391 of the Revised Laws of Papua New Guinea.

David Kawagle - 22/11/2017
 Name: David Kawagle
 Registered Structural Engineer No.: 0696159

FOR CONSTRUCTION



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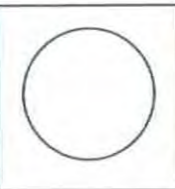
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2	GU	CONSTRUCTION ISSUE REV2	21/11/2017

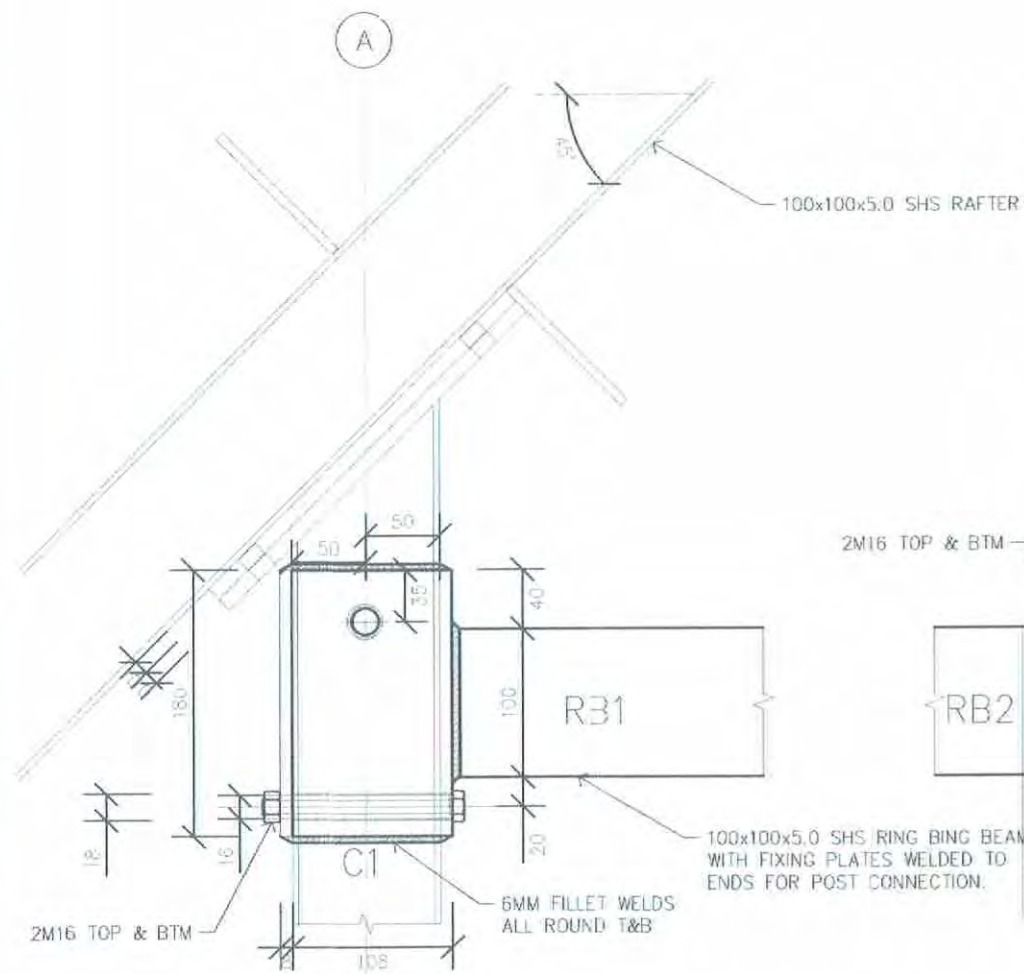
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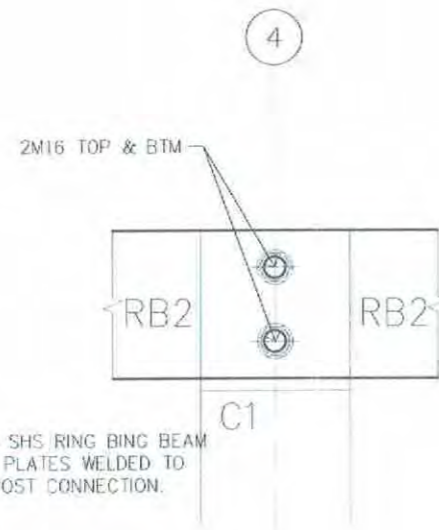
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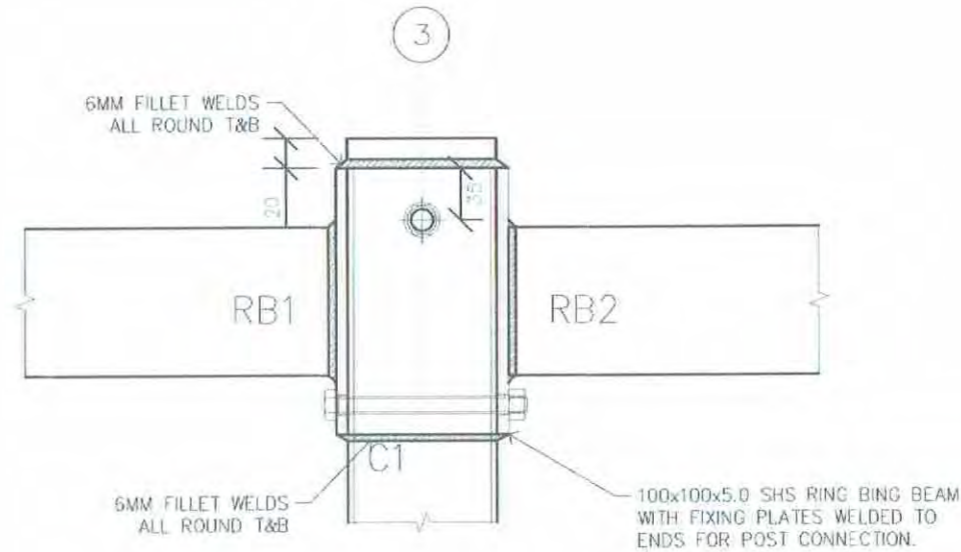
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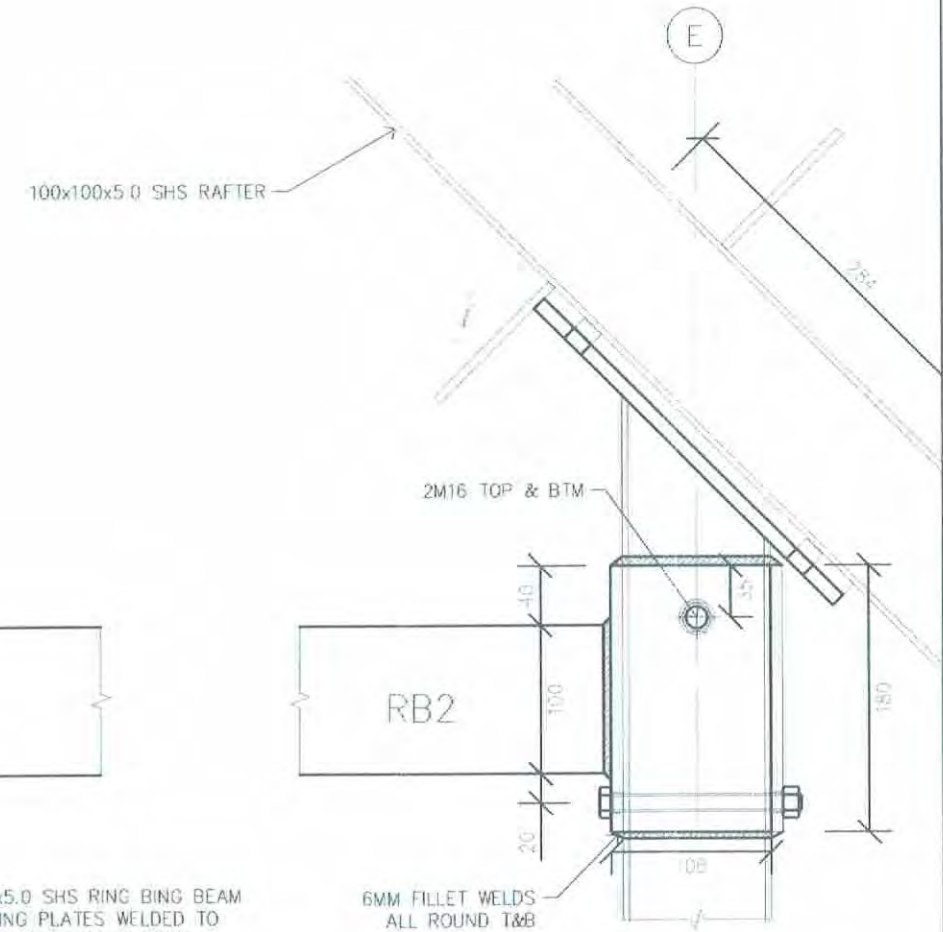
10 05-03 RB1 - C1 CORNER POST CONNECTION SCALE 1:5



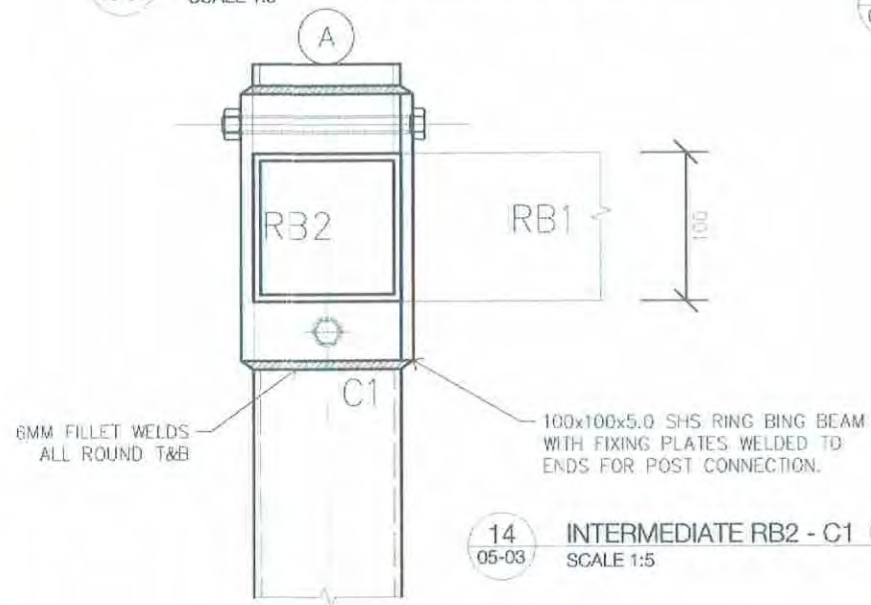
11 05-03 INTERMEDIATE RB2 SUPPORT SCALE 1:5



12 05-03 INTERMEDIATE INTERMEDIATE RB1 & RB2 SUPPORT SCALE 1:5



13 05-03 RB2 - C1 CORNER POST CONNECTION SCALE 1:5



14 05-03 INTERMEDIATE RB2 - C1 CONNECTION SCALE 1:5

STRUCTURAL MEMBER	SIZE	QTY	DESCRIPTION OR LOCATION
R1 TYPE 1	100 X 100 X 5.0 SHS	8	RAFTER TYPE 1
R1 TYPE 2	100 X 100 X 5.0 SHS	8	RAFTER TYPE 2
R1 TYPE 3	100 X 100 X 5.0 SHS	2	APEX RAFTER CONNECTOR
R2 TYPE 1	100 PFC	8	RAFTER TYPE 1
R2 TYPE 2	100 PFC	8	RAFTER TYPE 2
R2 TYPE 3	100 PFC	2	APEX RAFTER CONNECTOR
RB1	100 X 100 X 5.0 SHS	4	RING BEAM TYPE 1
RB2	100 X 100 X 5.0 SHS	4	RING BEAM TYPE 2
RS 1	100 X 100 X 5.0 SHS	12	RAFTER SUPPORT FOR R1 TYPE 1&2 (S05-05)
RS 2	75 X 75 X 5.0 SHS	16	RAFTER SUPPORT FOR R2 TYPE 1&2 (S05-05)
R3	50 X 50 X 4.0 SHS	16	ROOF BRACING

This drawing is certified to comply with the Structural Engineering provisions of the Regulations under the Building Act, Chapter 301 of the Revised Laws of Papua New Guinea.

David Kawagle - 22/11/2017

Name: David Kawagle
Registered Structural Engineer No.: 0696159

FOR CONSTRUCTION

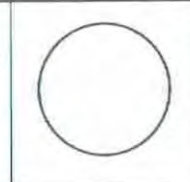


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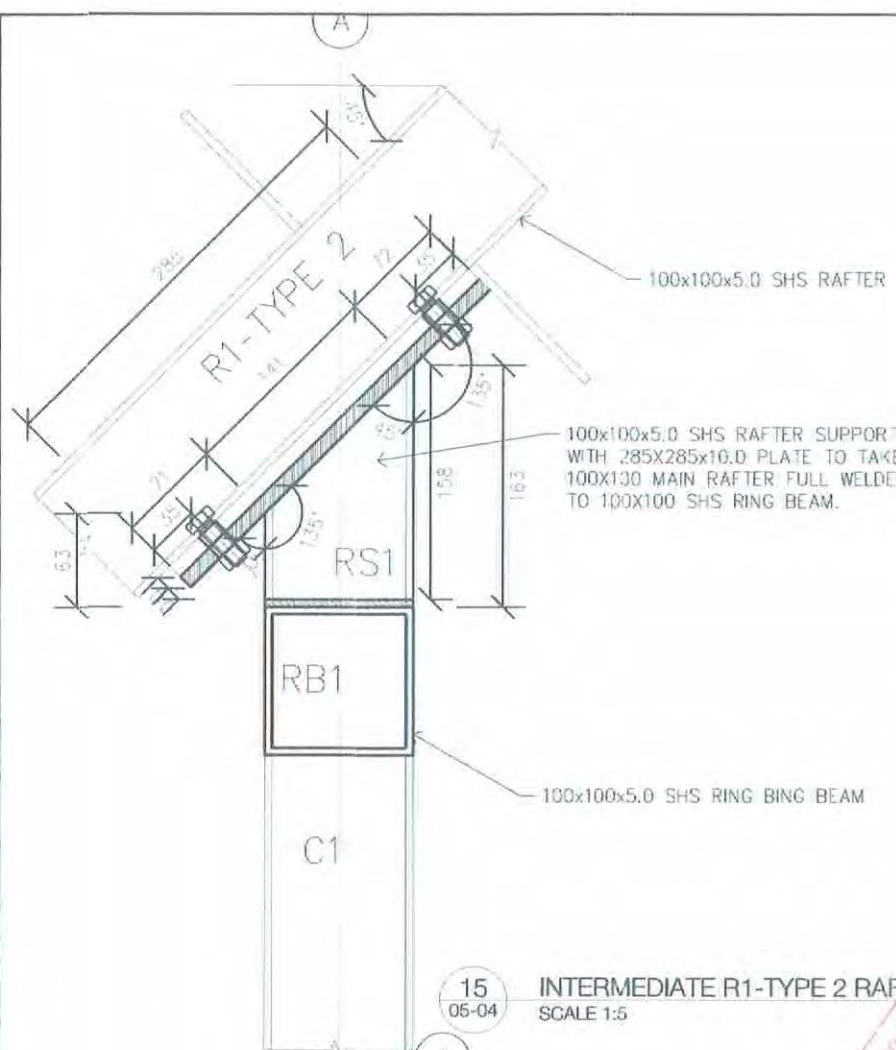
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2	GU	CONSTRUCTION ISSUE REV?	21/11/2017

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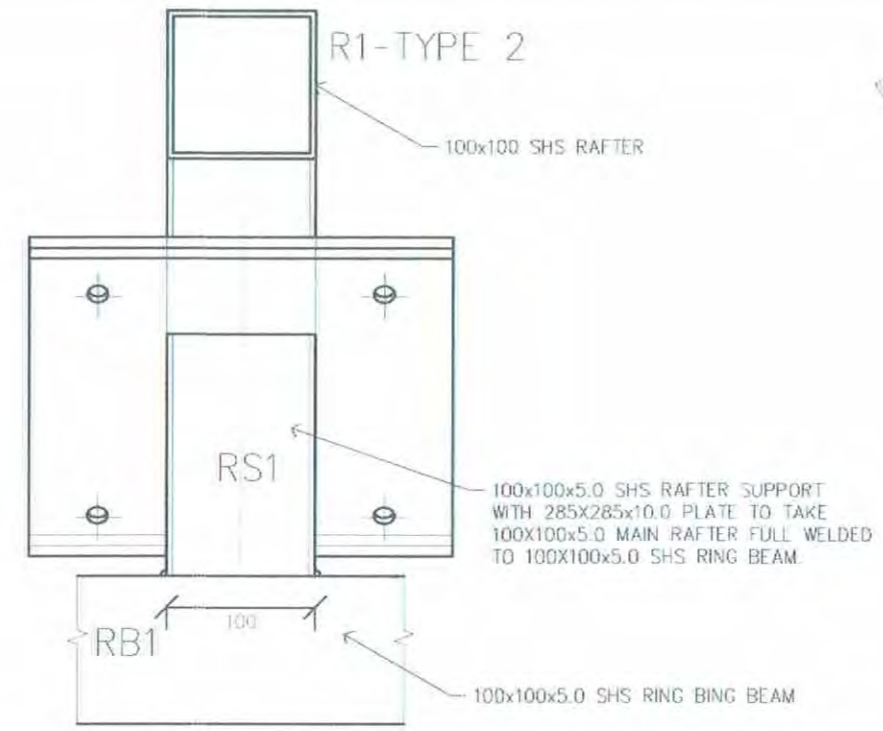
PORTION 2702 NAMA NAMA ROAD
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PAPUA NEW GUINEA
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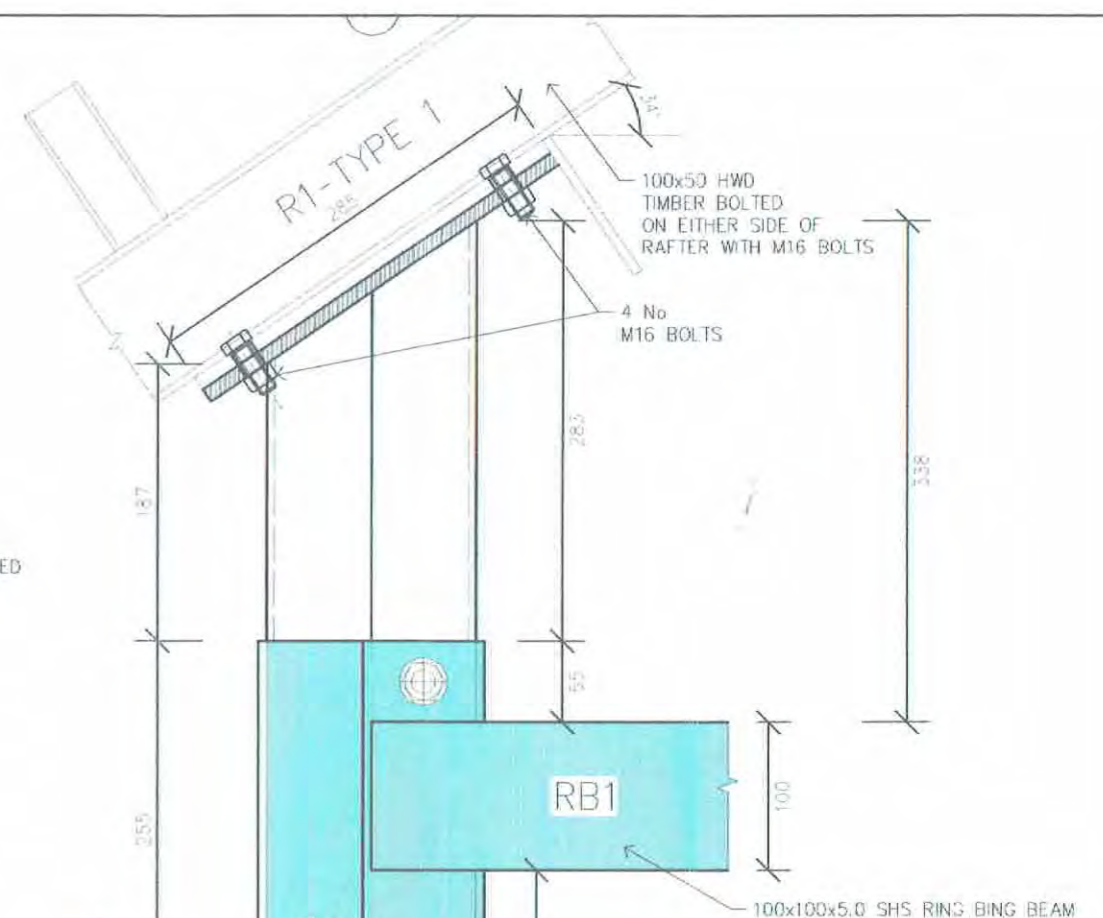
VARIIRATA INFORMATION CENTRE		VARIIRATA PAPUA NEW GUINEA	
DETAILS 5 - POST TO RING BEAM CON2			
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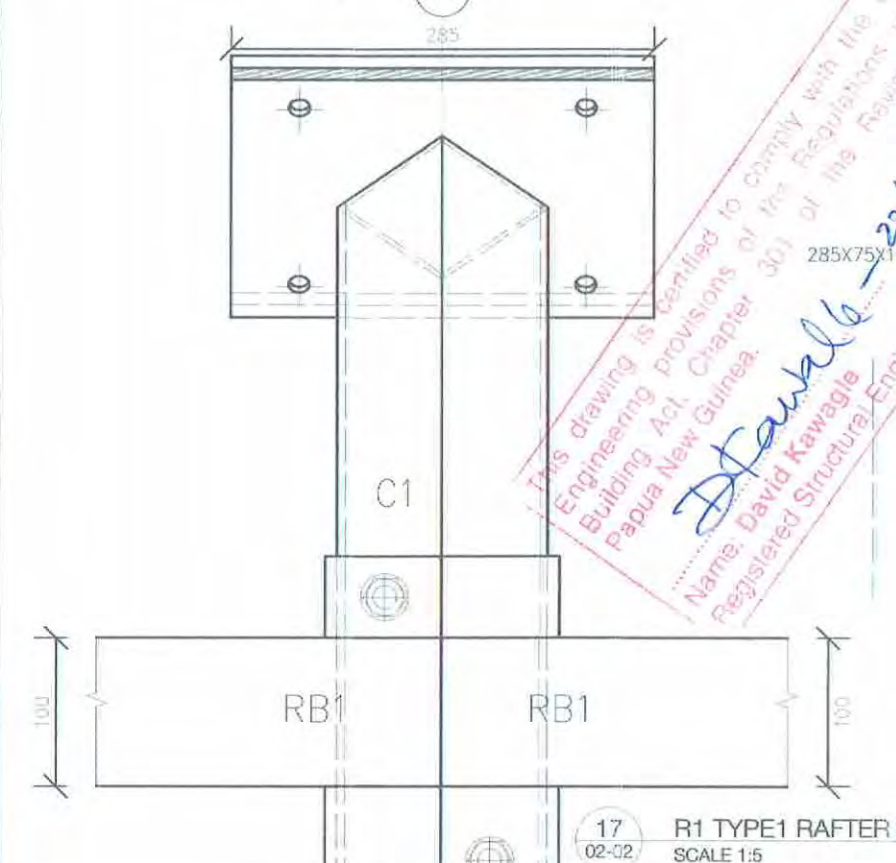
15 INTERMEDIATE R1-TYPE 2 RAFTER SUPPORT
05-04 SCALE 1:5



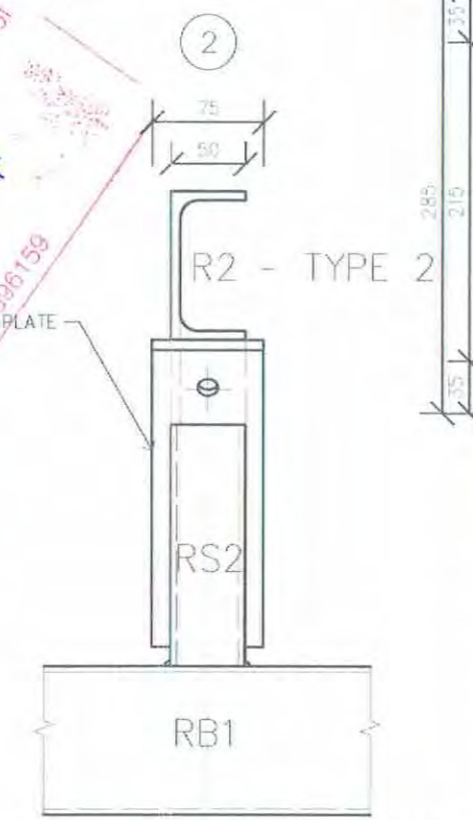
16 INTERMEDIATE R1-TYPE 2 RAFTER SUPPORT
02-02 SCALE 1:5



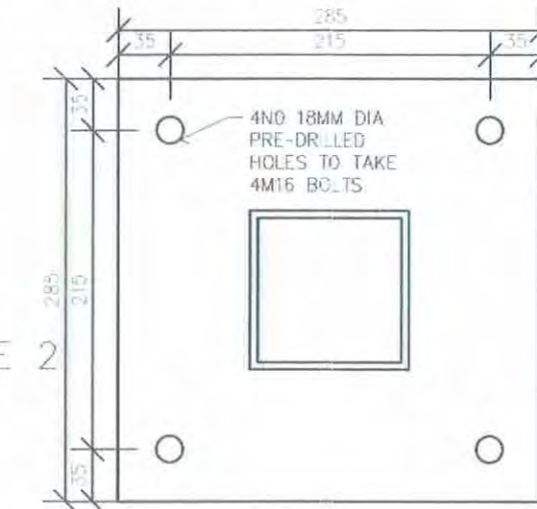
18 R1 TYPE 1 RAFTER SUPPORT
05-03 SCALE 1:5



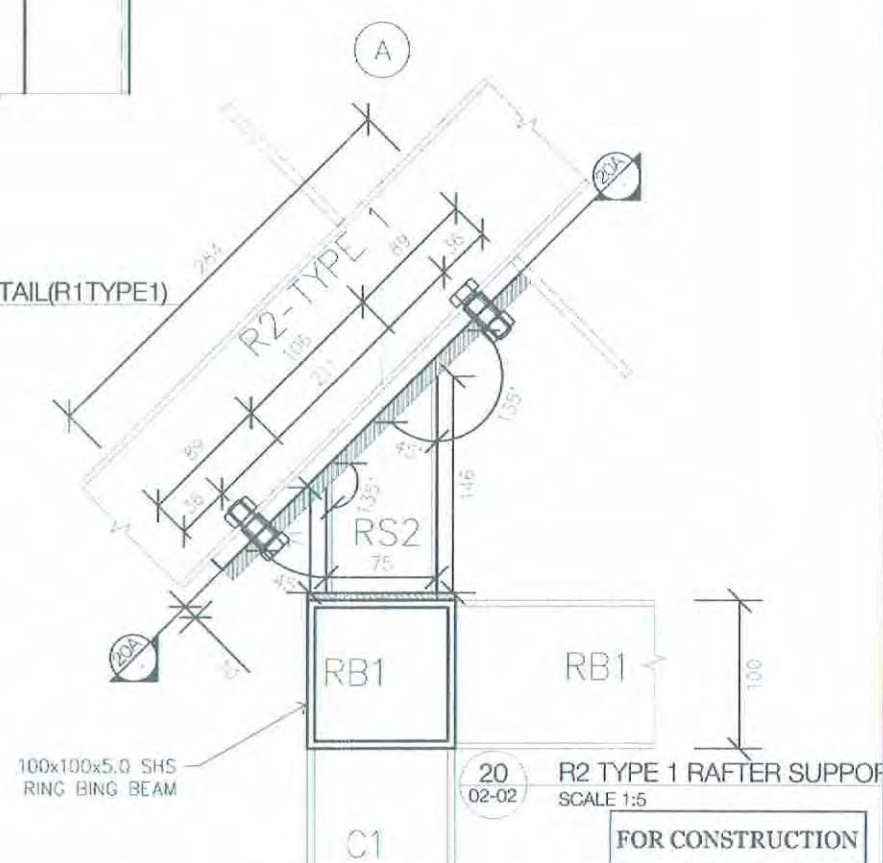
17 R1 TYPE 1 RAFTER SUPPORT
02-02 SCALE 1:5



19 R2 TYPE 2 RAFTER SUPPORT
02-02 SCALE 1:5



20A PLATE DETAIL (R1 TYPE 1)
SCALE 1:5



20 R2 TYPE 1 RAFTER SUPPORT
02-02 SCALE 1:5

STRUCTURAL MEMBER	SIZE	QTY	DESCRIPTION OR LOCATION
R1 TYPE 1	100 X 100 X 5.0 SHS	8	RAFTER TYPE 1
R1 TYPE 2	100 X 100 X 5.0 SHS	8	RAFTER TYPE 2
R1 TYPE 3	100 X 100 X 5.0 SHS	2	APEX RAFTER CONNECTOR
R2 TYPE 1	100 PFC	8	RAFTER TYPE 1
R2 TYPE 2	100 PFC	8	RAFTER TYPE 2
R2 TYPE 3	100 PFC	2	APEX RAFTER CONNECTOR
RB1	100 X 100 X 5.0 SHS	4	RING BEAM TYPE 1
RB2	100 X 100 X 5.0 SHS	4	RING BEAM TYPE 2
RS 1	100 X 100 X 5.0 SHS	12	RAFTER SUPPORT FOR R1 TYPE 1&2 (S05-05)
RS 2	75 X 75 X 5.0 SHS	15	RAFTER SUPPORT FOR R2 TYPE 1&2 (S05-05)
R3	50 X 50 X 4.0 SHS	16	ROOF BRACING

This drawing is certified to comply with the Structural Engineering provisions of the Regulations under the Building Act, Chapter 30J of the Revised Laws of Papua New Guinea.
 Name: David Kawagie
 Registered Structural Engineer No. 06996159
 Date: 22/4/2017

FOR CONSTRUCTION



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2	GU	CONSTRUCTION ISSUE REV2	21/11/2017

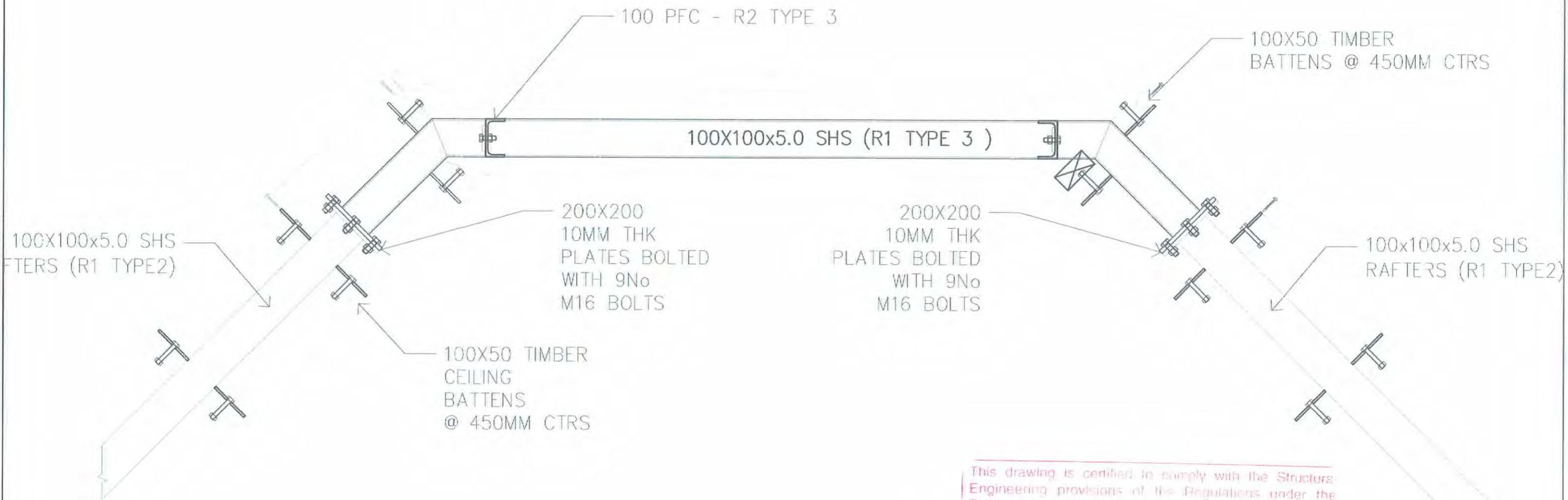
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CLIENT APPROVED:			

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PAPUA NEW GUINEA

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VARIRATA INFORMATION CENTRE		VARIRATA PAPUA NEW GUINEA	
DETAILS 6- RAFTER SUPPORTS			
SCALE:	PROJECT NO:	DRAWING NO:	REV:
1:5 @ A3	201726-ARC-VAR-S-014	S-05-05	2

STRUCTURAL MEMBER	SIZE	QTY	DESCRIPTION OR LOCATION
R1 TYPE 1	100 X 100 X 5.0 SHS	8	RAFTER TYPE 1
R1 TYPE 2	100 X 100 X 5.0 SHS	8	RAFTER TYPE 2
R1 TYPE 3	100 X 100 X 5.0 SHS	2	APEX RAFTER CONNECTOR
R2 TYPE 1	100 PFC	8	RAFTER TYPE 1
R2 TYPE 2	100 PFC	8	RAFTER TYPE 2
R2 TYPE 3	100 PFC	2	APEX RAFTER CONNECTOR
RB1	100 X 100 X 5.0 SHS	4	RING BEAM TYPE 1
RB2	100 X 100 X 5.0 SHS	4	RING BEAM TYPE 2
RS 1	100 X 100 X 5.0 SHS	12	RAFTER SUPPORT FOR R1 TYPE 1&2 (S05-05)
RS 2	75 X 75 X 5.0 SHS	16	RAFTER SUPPORT FOR R2 TYPE 1&2 (S05-05)
R3	50 X 50 X 4.0 SHS	16	ROOF BRACING



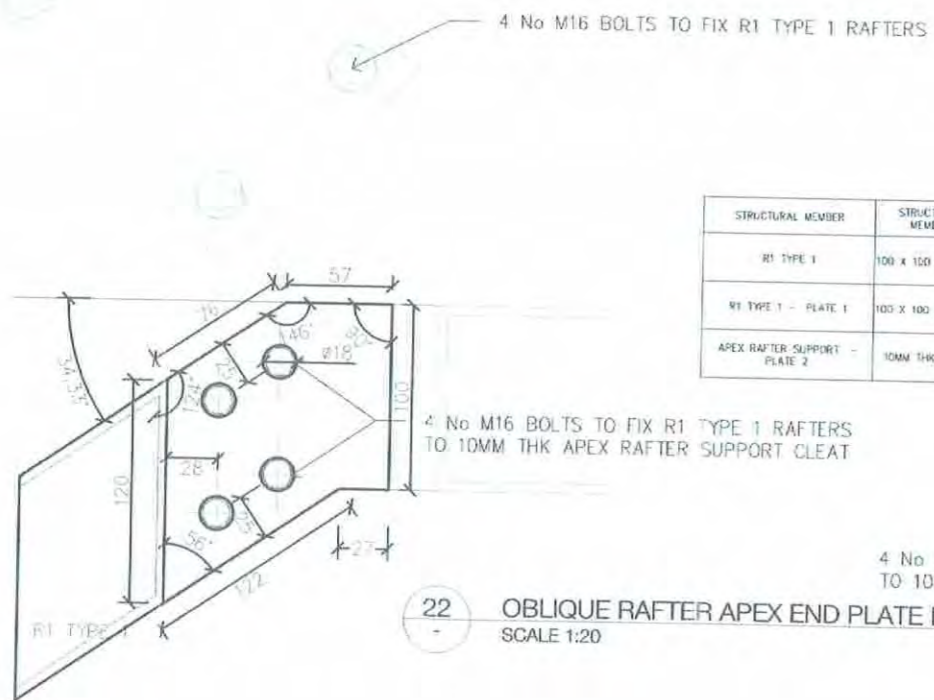
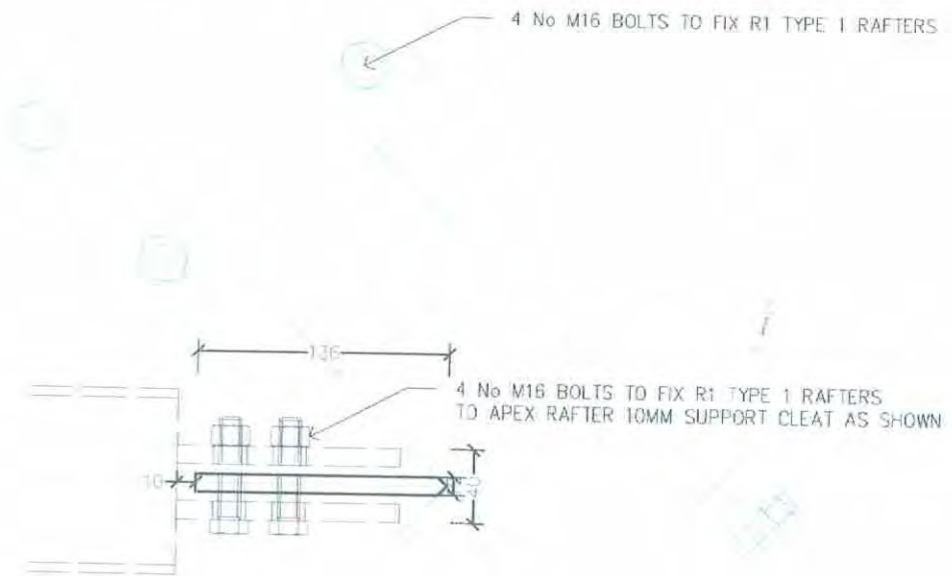
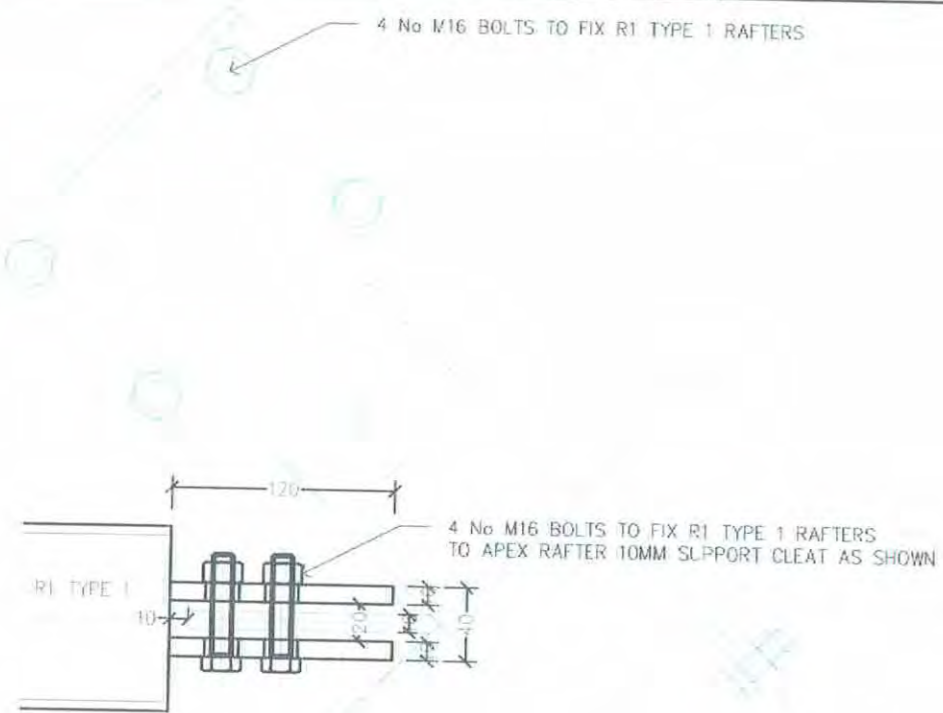
21 ROOF APEX DETAIL 1
04-00 SCALE 1:10

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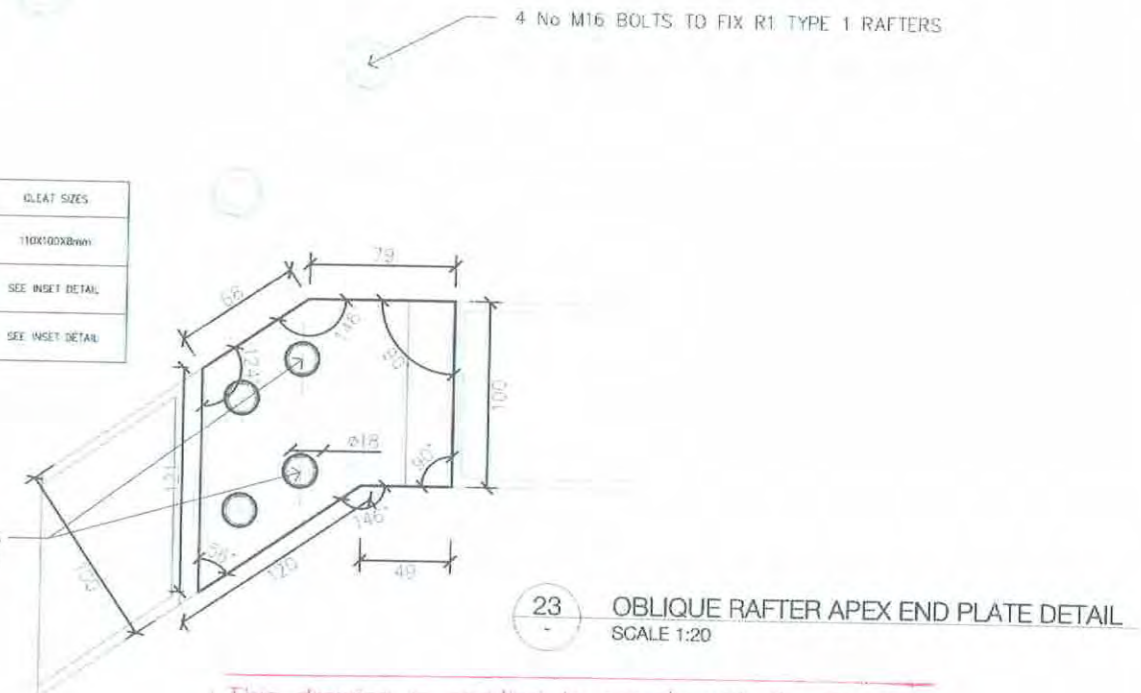
David Kawagle - 22/11/2017
 Name: David Kawagle
 Registered Structural Engineer No.: 0696159

FOR CONSTRUCTION

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		<table border="1"> <thead> <tr> <th>REV</th> <th>BY</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>GU</td> <td>CONSTRUCTION ISSUE</td> <td>08/11/2017</td> </tr> <tr> <td>2</td> <td>GU</td> <td>CONSTRUCTION ISSUE REV2</td> <td>21/11/2017</td> </tr> </tbody> </table>	REV	BY	DESCRIPTION	DATE	1	GU	CONSTRUCTION ISSUE	08/11/2017	2	GU	CONSTRUCTION ISSUE REV2	21/11/2017	CHECKED BY: DK 20/11/2017	DETAILS 7 - APEX DETAILS 1	SCALE: 1:10 @ A3	PROJECT NO: 201726-ARC-VAR-S-015
REV	BY	DESCRIPTION	DATE															
1	GU	CONSTRUCTION ISSUE	08/11/2017															
2	GU	CONSTRUCTION ISSUE REV2	21/11/2017															



STRUCTURAL MEMBER	STRUCTURAL MEMBER	QTY	DESCRIPTION OR LOCATION	CLEAT SIZES
R1 TYPE 1	100 X 100 X S.D 5/5	8	OBLIQUE RAFTER	110X100X8mm
R1 TYPE 1 - PLATE 1	100 X 100 X S.D 5/5	8	RAFTER PLATE	SEE INSET DETAIL
APEX RAFTER SUPPORT - PLATE 2	10MM THK PLATE	4	ROOF APEX	SEE INSET DETAIL



This drawing is certified to comply with the Structural Engineering provisions of the Regulations under the Building Act, Chapter 301 of the Revised Laws of Papua New Guinea.

David Kawagle - 22/11/2017

Name: **David Kawagle**
Registered Structural Engineer No.: 0696159

FOR CONSTRUCTION



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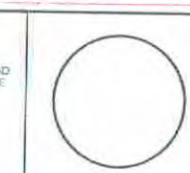
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REVISIONS			
REV	BY	DESCRIPTION	DATE
1	GU	CONSTRUCTION ISSUE	09/11/2017
2	GU	CONSTRUCTION ISSUE REV2	21/11/2017

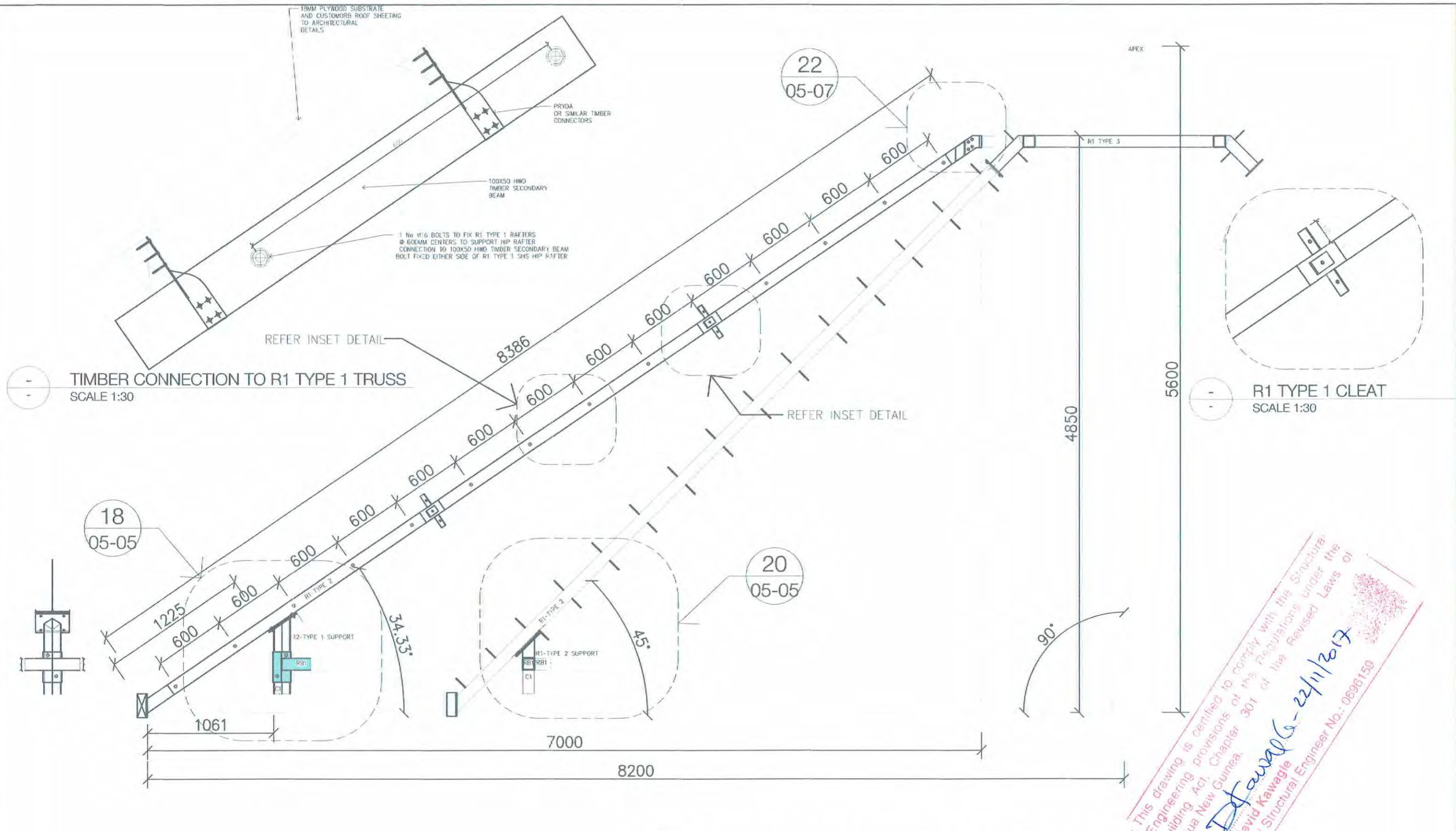
DRAWING STATUS APPROVAL

DRAWN BY:	GU	14/07/2017
DESIGN BY:		
CHECKED BY:	DK	20/11/2017
DESIGN APPROVED:		
CLIENT APPROVED:		

RHODES PNG
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VARIRATA INFORMATION CENTRE		VARIRATA PAPUA NEW GUINEA
DETAILS 8 - APEX DETAILS 2		
SCALE: 1:10 @ A3	PROJECT NO: 201726-ARC-VAR-S-016	DRAWING NO: S-05-07
		REV: 2



22
05-07
TIMBER CONNECTION TO R1 TYPE 1 TRUSS
SCALE 1:30

R1 TYPE 1 CLEAT
SCALE 1:30

18
05-05

20
05-05

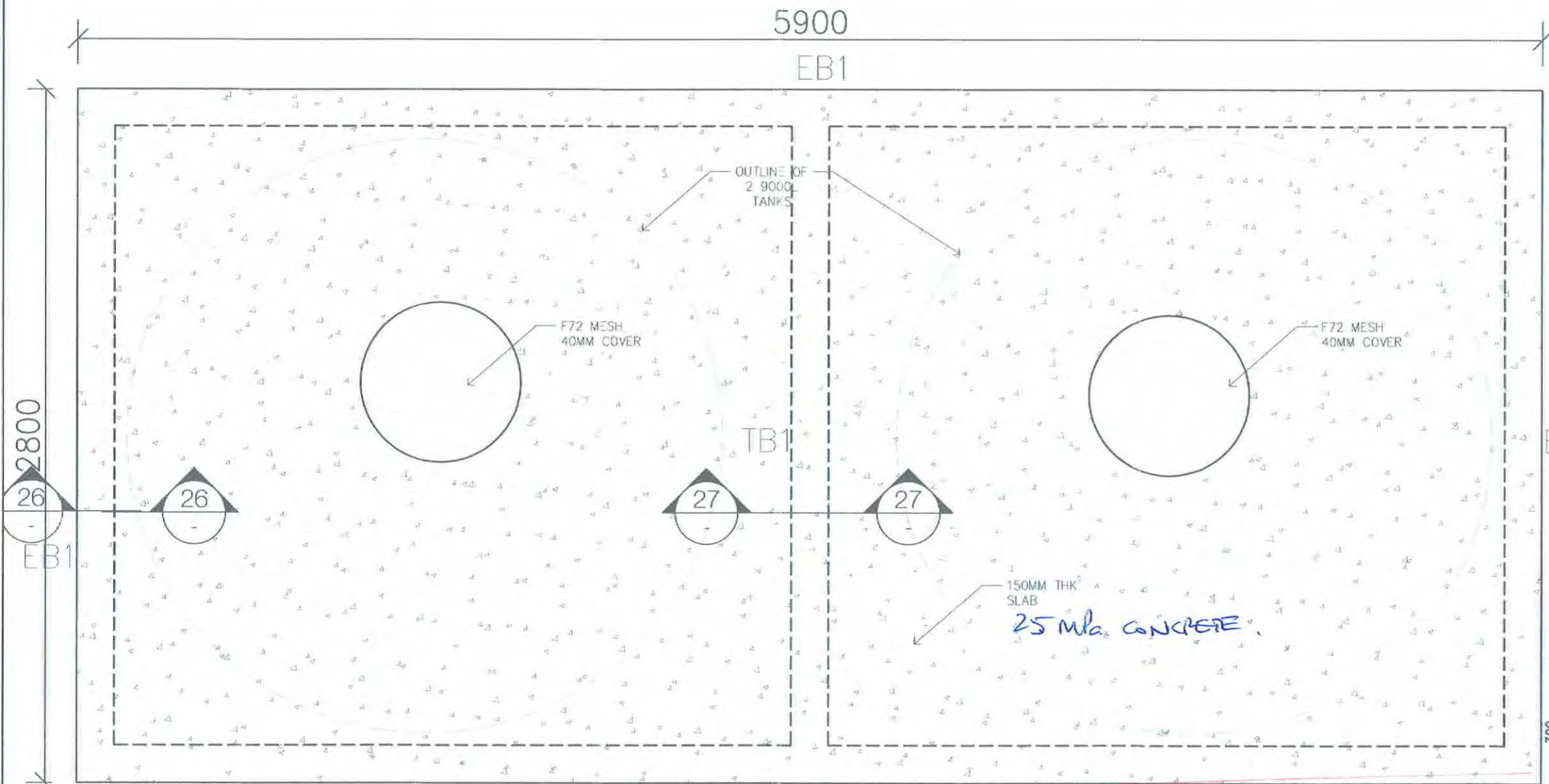
23
04-00
MAIN RAFTER ANGLES AND DIMENSIONS
SCALE 1:30

This drawing is certified to comply with the Structural Engineering provisions of the Regulations under the Building Act, Chapter 301 of the Revised Laws of Papua New Guinea.

David Kawagie
Name: David Kawagie
Registered Structural Engineer No.: 0699150

FOR APPROVAL

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REV	BY	DESCRIPTION	DATE														
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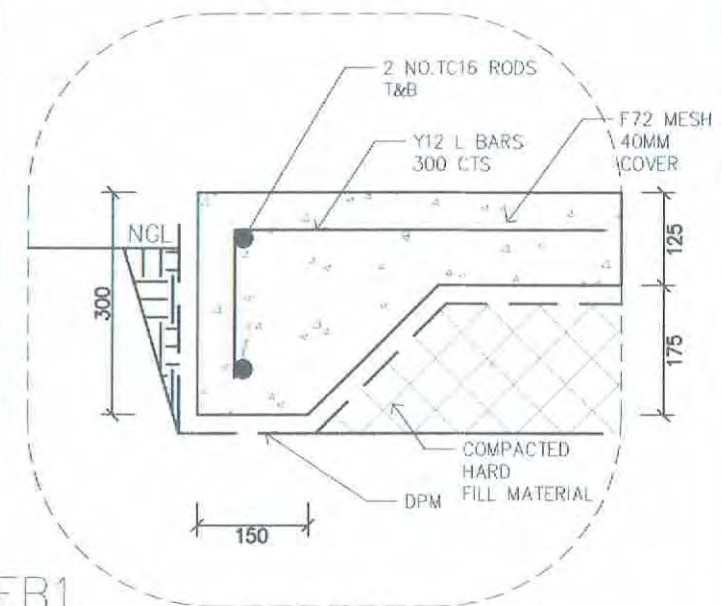


24 TANK SLAB PLAN
SCALE 1:20

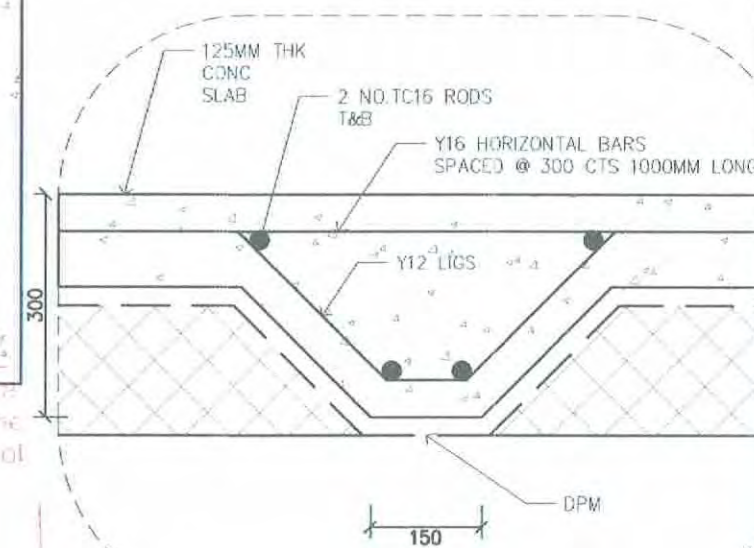
This drawing is certified to comply with the structural Engineering provisions of the Regulations under the Building Act, Chapter 301 of the Revised Laws of Papua New Guinea.

David Kawagle - 22/11/2017

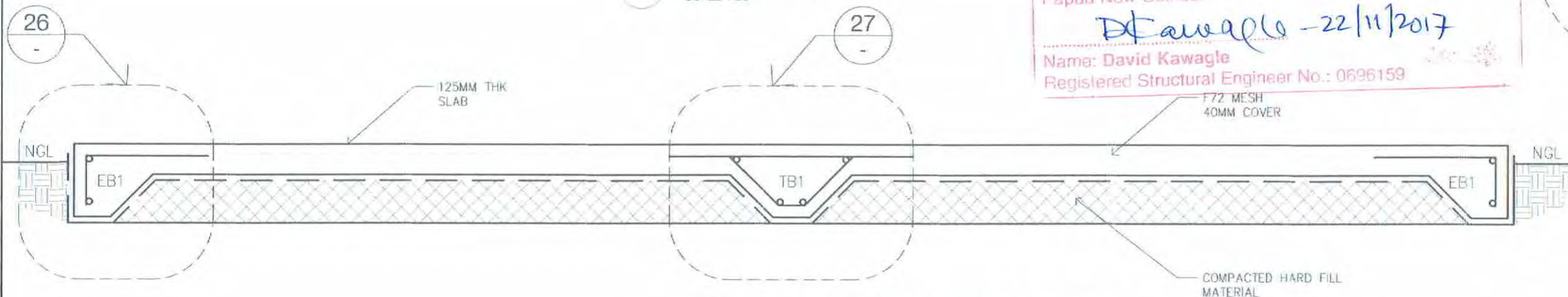
Name: David Kawagle
Registered Structural Engineer No.: 0696159



26 TANK SLAB CROSS SECTION
SCALE 1:10



27 TANK SLAB CROSS SECTION
SCALE 1:10



25 TANK SLAB LONGITUDINAL CROSS SECTION
SCALE 1:20

STRUCTURAL MEMBER	SIZE (DEF THXWDTH)	DESCRIPTION
EB 1	300 X 150	R.C EDGE BEAM
TB 1	300 X 150	R.C TIE BEAM

FOR CONSTRUCTION



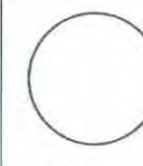
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REVISIONS			
REV	BY	DESCRIPTION	DATE
1	GU	NEW PAGE ADDED IN CONSTRUCTION ISSUE	14/11/2017
2	GU	CONSTRUCTION ISSUE REV2	21/11/2017

DRAWING STATUS APPROVAL

DRAWN BY:	GU	14/07/2017
DESIGN BY:		
CHECKED BY:	DK	04/11/2017
DESIGN APPROVED:		
CLIENT APPROVED:		

RHODES PNG
P.O. BOX 2702 KWAIAKWA ROAD
BORNEO, DISTRICT PROVINCE
PAPUA NEW GUINEA
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#www.rhodespng.com



VARIKATA INFORMATION CENTRE

VARIKATA
PAPUA NEW GUINEA

DETAILS 10 - TANK SLAB DETAILS

SCALE:
1:10 @ A3

PROJECT NO:
201726-ARC-VAR-S-018

DRAWING NO:
S-05-09

添付資料 2.2.4 Building permit for new information center at VNP



DEPARTMENT OF WORKS
HEADQUARTERS
 PO Box 1108, BOROKO, NCD 111
 Papua New Guinea
 Telephone: 3241 406; Facsimile: 3241 391



PAPUA NEW GUINEA
Building Act & Regulations (Chapter 301) 1994

BUILDING PERMIT

Alexander Lloyd Pacific
 PO Box 1619
 PORT MORESBY
 National Capital District

Central Province
 Regulation Section 12
 Form 2
 Permit No. **BBHQcp005/2017**


BUILDING APPROVAL FOR VISITOR INFORMATION CENTRE AT VARIRATA NATIONAL PARK FOR CONSERVATION & ENVIRONMENT PROTECTION AUTHORITY (CEPA).

Department of Works Headquarters in absence of the Central Provincial Building Board has approved the application of **Alexander Lloyd Pacific, PO Box 1619, PORT MORESBY, National Capital District** to erect 10m x 10m (100m²) prefabricated steel "Visitor Information Centre" at Varirata National Park for CEPA.


The works is to be carried out in accordance with the submitted, approved drawings and specifications and the PNG Building Act & Regulations (Chapter 301) 1994 and all relevant PNG Codes and Standards.

The building covered in this Permit is *prefabricated steel Visitor Information Centre* of which the Occupancy Classifications is **CLASS X** (Out Building).

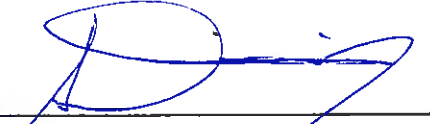
Dated at **10:00 a.m. on Wednesday 18th September 2017.**



VAGHI GAIROWAGGA
 Assistant Secretary (Architecture & Buildings)



 Date



DAVID WEREH
 Secretary



 Date

APPLICANTS COPY