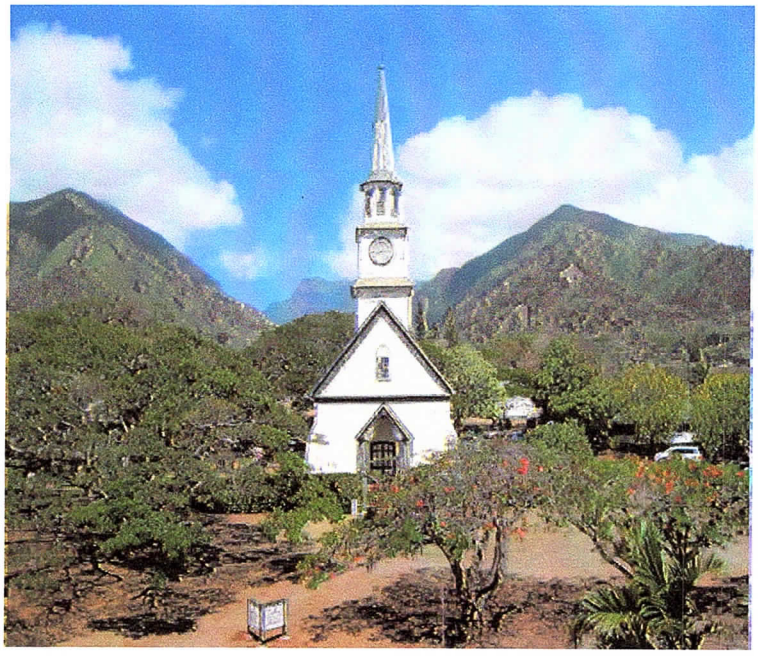
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KAAHUMANU CHURCH SURVEY REPORT
SEPTEMBER 27, 2012

HAWAII INSPECTION GROUP

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Member

Mr. Stanley Solomillo
Planning Department
County of Maui
Email: Stanley.Solamillo@co.maui.hi.us

Mr. Wayne Higa
Congregationalist Church
100 High Street
Wailuku, HI
Email: bruddahwayne@hawaiiantel.net

Date: September 27, 2012

Dear Mr. Solomillo and Mr. Higa

RE: Draft Report on the structural issues for the Kaahumanu Church in Wailuku, HI as per our proposal of April 29, 2012

SUMMARY- This report is the result of a **Detailed Inspection** of the main Church Sanctuary located at 103 High Street. The results of this inspection document the most urgent issues, and develops a detailed narrative report with color digital pictures, but does not include an estimate of the cost of the repairs. This report allows us to discuss the order of magnitude of the costs for dealing with the more urgent issues. These issues include:

I. Urgent Issues

a. Current water intrusion areas of the steeple. The steeple has several areas where the existing siding allows water to penetrate into the framing. These areas need to be sealed as soon as possible to avoid further damage. These areas are located at the following locations
   i. Front side at the second level
   ii. Rear side at the third level
   iii. Window at the front side is broken
   iv. Screening is damaged or missing allowing birds to nest within the steeple area.

b. Insect damage to the steeple framing and subfloor framing. This damage appears to be primarily from dry wood termites and has compromised some of the subfloor and attic framing. These steeple framing also shows damage, but the compromised framing appears to be the more recent smaller dimension lumber. The entire Church needs to be tented for termites as soon as possible. See enclosed tenting proposal

c. Insect damage to the front entry porch support posts. These posts need immediate replacing to avoid possible collapse of the porch structure.

d. Water intrusion due to failure of the painting and waterproofing. The existing painting shows chalking and cracks for all of the structure, and significant failure at the West exposure. This moisture penetration appears to be damaging the structural properties of the mortar for the exterior walls and foundation footings. There is also significant paint failure to the wood surfaces at each end of the Church and steeple. We recommend the damaged portions of the exterior mortar be repaired, the cracks sealed, and the entire Church re painted as soon as possible. See enclosed paint specifications

II. **Existing Structural System**- We have documented the existing structural systems and developed a program for diagnostic tests that would allow us to assess the structural needs. This has required us to prepare "as built" drawings as there are no existing drawings from the original construction or the reinforcement to the steeple conducted in 1983. These drawings are attached as Exhibit A, and form the basis for recommendations for structural strengthening.

Sincerely,

Licensed General Contactor #26557

THOMAS DOUMA
CAI - RS
00109
Designation
Reserve Specialist

EXHIBIT A

INTRODUCTION

The Kaahumanu Church has structurally deteriorated, fallen into disrepair and exhibits termite damage. Erickson Structural understands that the congregation of the Kaahumanu Church intends to repair the building while preserving its historical significance. Erickson Structural has been retained to perform a preliminary structural evaluation of the church to facilitate the restoration and planning process. This letter summarizes Erickson Structural's findings, conclusions and recommendations, to date, in response to this assignment.

BUILDING DESCRIPTION

The Kaahumanu Church, located at 103 High Street in Wailuku, Hawai'i is a wood-framed and stacked lava rock structure with an upper mezzanine, as shown in Photographs No. 1 and No. 2. The church building was reportedly constructed in 1876 and measures approximately 56 feet long by 33 feet wide. The lower portions of the perimeter walls are constructed of stacked lava rock and mortar, and the roof structure, mezzanine, gable end walls and steeple are constructed of wood framing. The building's perimeter foundation is an extension of the lava rock walls into the soil. The interior foundation system consists of wood framing supported on "puddles" of mortar.

Efforts to structurally upgrade the steeple reportedly occurred in the 1980's. Documentation of the completed work could not be located by Erickson Structural, though evidence of that work is visible within the attic space and below the floor. Erickson Structural is not aware of other structural modifications or repairs to the building.

OBSERVATIONS

Brandon Erickson, PE, SE, of Erickson Structural visited the Kaahumanu Church on March 29, 2012, April 5, 2012, May 9, 2012, May 20, 2012 and September 12, 2012, to observe and document the existing structural conditions.

CURRENT FINDINGS AND CONCLUSIONS

The findings and conclusions expressed herein are based upon the following sources:

1. Erickson Structural's observations at the site
2. Conversations with Hawaii Inspection Group (HIG)
3. Photographs and other similar data collected at the site
4. Photographs, sketches and similar data provided to Erickson Structural by HIG
5. Data recorded from a trenching survey performed by HIG
6. The results of a level survey conducted by HIG
7. Limited structural engineering analysis performed at Erickson Structural's office
8. Erickson Structural's professional structural engineering experience, expertise and judgment

Based upon these sources, Erickson Structural's opinions, expressed with a reasonable degree of structural engineering certainty, are expressed below. Note that Erickson Structural anticipates additional efforts before arriving at final opinions of deficiencies and recommendations for repair.

Physical Condition

Portions of the church building's structure are in poor physical condition as a result of termite damage, age, wear and tear, water infiltration, and exposure to the elements. Termite damage and deterioration likely exist that is hidden from view. The front entrance canopy, the gable wall framing, and portions of the floor framing and the roof framing have been particularly damaged by termites. Evidence of termite damage to non-structural components, such as window frames, is also readily visible. The steeple also suffers from termite damage, but to a lesser extent. The steeple is noticeably leaning by several inches, as documented by a plumb bob in the attic, as shown in Photograph No. 4.

Documentation of Existing Structural Conditions

Original construction plans for the church are not available. Erickson Structural has developed schematic "as-built" structural plans for the church, shown in Appendix A, based upon information provided to Erickson Structural by HIG and Erickson Structural's own observations. The steeple framing was documented by DABU Drafting Services, and the resulting drawings are also presented in Appendix A. The drawings in Appendix A are intended to depict a general sense of the existing building's construction; additional refinement and development of these drawings is anticipated.

Structural Framing Deficiencies

The structurally significant portions of the church have been structurally analyzed per the requirements of the 2006 International Building Code, recently adopted by the County of Maui. To date, the following components of the building structure have been deemed structurally deficient and require structural repair or strengthening:

- The framing supporting the rostrum
- The mezzanine floor joists
- The roof trusses
- The roof rafters
- The gable wall studs
- The connections between various wood framing components
- The connections of the roof structure to the lava rock walls
- Portions of the steeple (see discussion below)

Foundation Deficiencies

The foundation system, including the perimeter lava rock walls and interior mortar puddles, is archaic and lacks a conventional means of supporting the weight of the building. Portions of the lava rock wall below the floor framing are also susceptible to lateral earth pressures. Though some improvements to the foundation support for the steeple appear to have occurred in conjunction with repairs to the steeple framing, those repairs were isolated and similar repairs did not extend to the balance of the building. The existing foundation system is not capable of resisting lateral forces, such as from an earthquake.

Susceptibility to Earthquakes

The church's lava rock walls possess little structural strength to resist earthquakes. Additionally, these walls are not properly anchored to the roof structure, and the building is not supported on a reliable foundation system, as discussed above. Life safety cannot be assured inside the Kaahumanu Church building when subjected to strong lateral forces, such as from an earthquake. Under larger seismic loads, the walls could break apart and fall away from, or into, the building. The Kalahikiola Church on the island of Hawai'i is similarly constructed with lava rock walls and collapsed during the 2006 earthquake. See Photograph No. 3, which depicts the condition of the church after the earthquake. The Kaahumanu church also lacks an adequate roof diaphragm, an essential component to a building's ability to resist lateral forces, such as from an earthquake. The steeple is also prone to damage, or even collapse, if subjected to a strong earthquake.

Steeple

Preliminary analyses of the steeple framing indicate that the wooden steeple framing members appear structurally adequate, provided they are reasonably free of termite damage. However, some of the steeple framing does suffer from termite damage, an amount yet to be quantified, and corresponding repairs are anticipated. The structural interconnections of various components of the steeple frame are perceived to be deficient and in need of strengthening. Additional investigation is needed to better quantify this deficiency and develop an appropriate strengthening scheme.

The steeple is leaning, a chronic condition documented for several decades. The magnitude of the lean is growing, albeit slowly. The lean does not appear to have reached a critical condition, however it is structurally imperative to arrest the progression of the leaning. Establishing the means by which this is accomplished will require additional investigations. Currently, it is not clear if the steeple can be re-plumbed (straightened).

Anticipated Structural Repairs

The building is a good candidate for structural renovation. Structural renovations would likely include improvements to the foundation system, repair of the roof and roof structure, anchorage of the roof structure to the lava rock walls, strengthening of the lava rock walls, attachment of the walls to the foundation system, strengthening of inadequate structural members, strengthening of the connections between various wood framing components, installation of plywood sheathing on the roof, and repair of damaged and deteriorated wood structural framing.

In general, the structural repair of wooden framing members would likely entail retention of the existing, structurally deficient members, and supplementing them with new structural members. Strengthening the lava rock walls will be challenging, both technically and in a manner that preserves the historic fabric of the building. The foundation system can be strengthened with minimal to no visual impact upon the building. Repairing the steeple is deemed feasible, though straightening the steeple may prove to be very complex, if not impractical.

Appendix A depicts the general locations of the anticipated repairs.

Remaining Structural Investigative and Design Tasks

Before structural repairs can begin, the following structural investigative and design tasks should be completed:

- Perform further analyses of the steeple framing and entrance canopy
- Conduct further investigation of the steeple framing and entrance canopy
- Perform further analyses of the "puddle" foundations
- Conduct further investigation of the mezzanine support system, i.e. the columns and wall connections
- Conduct further investigation and analyses of the framing supporting the clock
- Document and coordinate termite and water infiltration damage
- Develop structural repair options
- Finalize structural repairs
- Prepare structural repair plans and specifications
- Perform additional, similar engineering tasks as deemed necessary and appropriate

LIMITATIONS

Erickson Structural's evaluation techniques consisted of the examination of visible and accessible surfaces and components. The investigation did not include the removal of finishes for an examination of hidden structural components, except as specifically described herein. There remains the possibility of concealed damage or defects not detected or reported. Erickson Structural's understanding of the structural damage or defects is limited to the topics presented herein.

The efforts of Erickson Structural were limited to the topics noted herein. Evaluation or observations of other portions of the structure were outside the scope of Erickson Structural's current efforts. This letter should not be considered suitable for directing construction activities. Structural engineering services performed by Erickson Structural have been conducted with the level of care and skill ordinarily exercised by members of the structural engineering profession currently practicing in the local area under similar budget and time constraints. Erickson Structural does not practice geotechnical engineering, architecture or other disciplines similarly associated with construction, except for structural engineering. No warranty, expressed or implied, is made. Erickson Structural reserves the right to modify opinions stated herein, as needed, upon receipt or development of additional information. Should additional information become available, please contact Erickson Structural so that we may determine the impact, if any, of the additional information upon our findings, conclusions and recommendations.

This letter has been prepared for the exclusive use of Hawaii Inspection Group and shall not be reproduced, except in full, without the written permission of Erickson Structural. Please feel free to contact our office if you have questions, comments or would like to discuss the contents of this letter.

Sincerely,

Brandon W. Erickson, PE, SE
Principal
Erickson Structural Consulting Engineers, PC

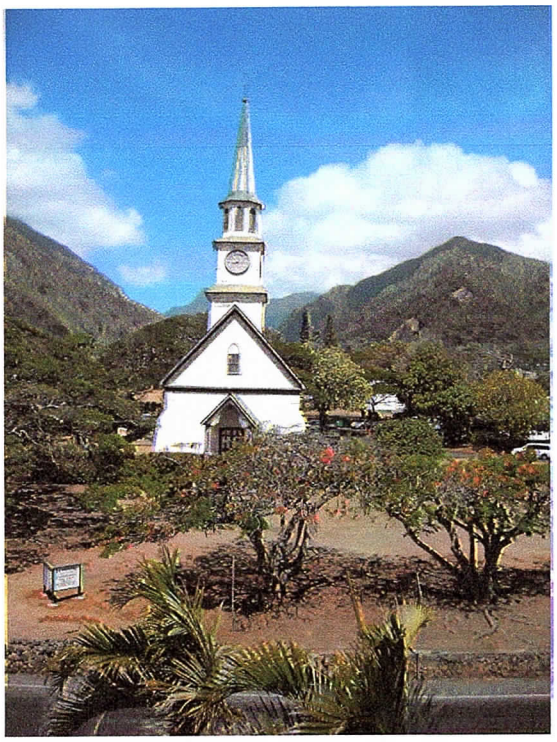
Amber Corsen, EIT
Designer
Erickson Structural Consulting Engineers, PC

Attachment: Photographs No. 1 through No. 4
Appendix A – Existing Structure and Anticipated Repair Drawings



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SIGNATURE
LICENSE EXPIRES APRIL 30, 2014



PHOTOGRAPH No. 1



PHOTOGRAPH No. 2

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PRELIMINARY STRUCTURAL EVALUATION

Kaahumanu Church
Wailuku, Maui, Hawaii

ERICKSON STRUCTURAL PROJECT NUMBER: 120405

DATE: Sept 27, 2012



PHOTOGRAPH No. 3



PHOTOGRAPH No. 4

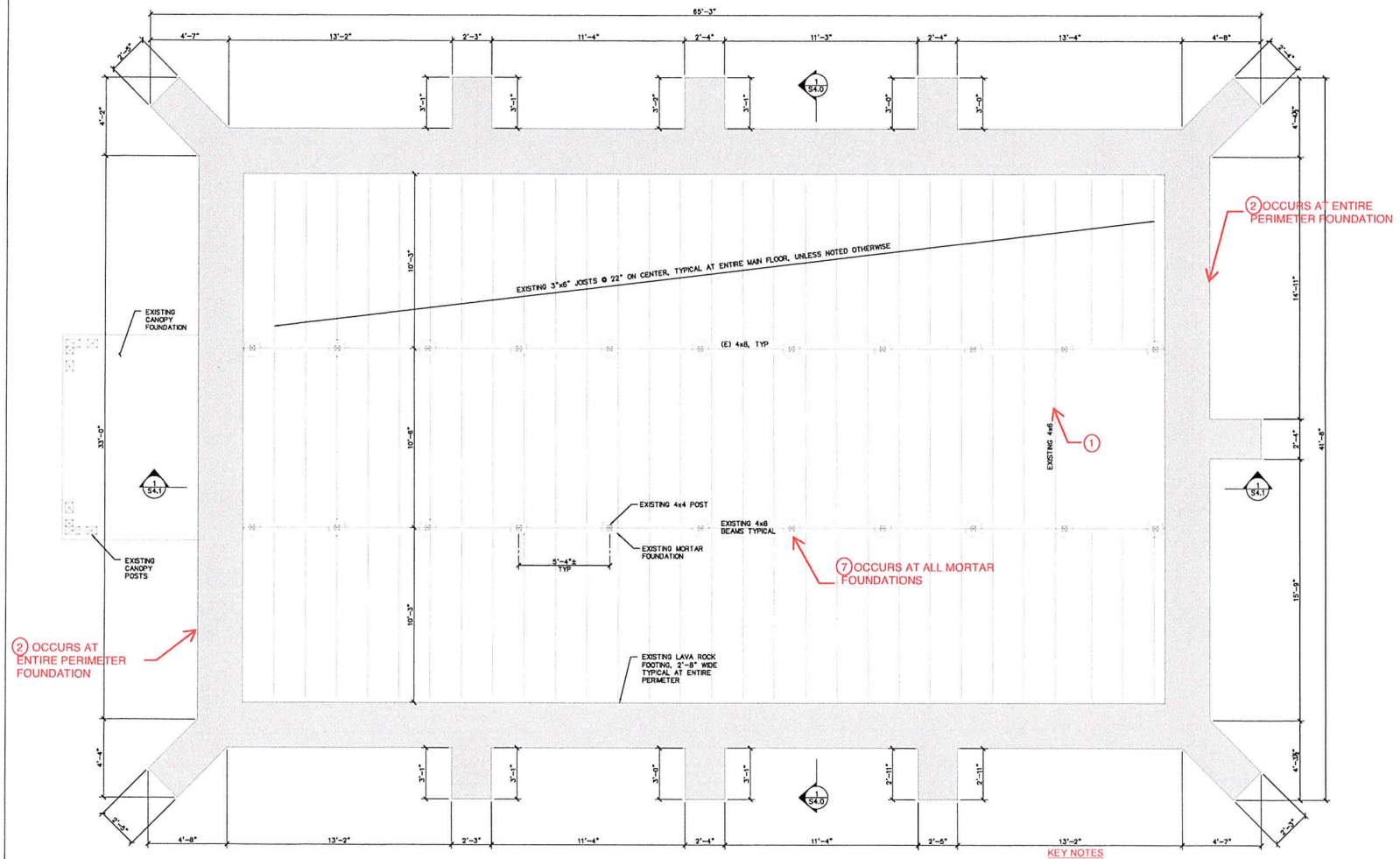
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PRELIMINARY STRUCTURAL EVALUATION

Kaahumanu Church
Wailuku, Maui, Hawaii

APPENDIX A



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1/S2.0 FOUNDATION & MAIN FLOOR FRAMING PLAN
3/8"=1'-0"

N

KEY NOTES

1. WOOD STRUCTURAL REPAIRS. EXISTING MEMBERS SHALL BE RETAINED AND NEW SUPPLEMENTAL MEMBERS SHALL BE ADDED.
2. STRUCTURAL IMPROVEMENTS TO THE EXISTING FOUNDATION WALLS.
3. STRUCTURAL STRENGTHENING OF THE EXISTING LAVA ROCK WALLS.
4. INSTALL NEW PLYWOOD ROOF SHEATHING.
5. INSTALL NEW ANCHORAGE OF THE EXISTING ROOF STRUCTURE TO THE EXISTING LAVA ROCK WALL.
6. REPAIR OF GABLE WALL STUDS.
7. STRUCTURAL IMPROVEMENTS TO THE EXISTING MORTAR FOUNDATIONS.
8. STRUCTURAL REPAIR OR REPLACEMENT OF DAMAGED CANOPY FRAMING.
9. STRUCTURAL STRENGTHENING OF THE EXISTING CONNECTIONS.

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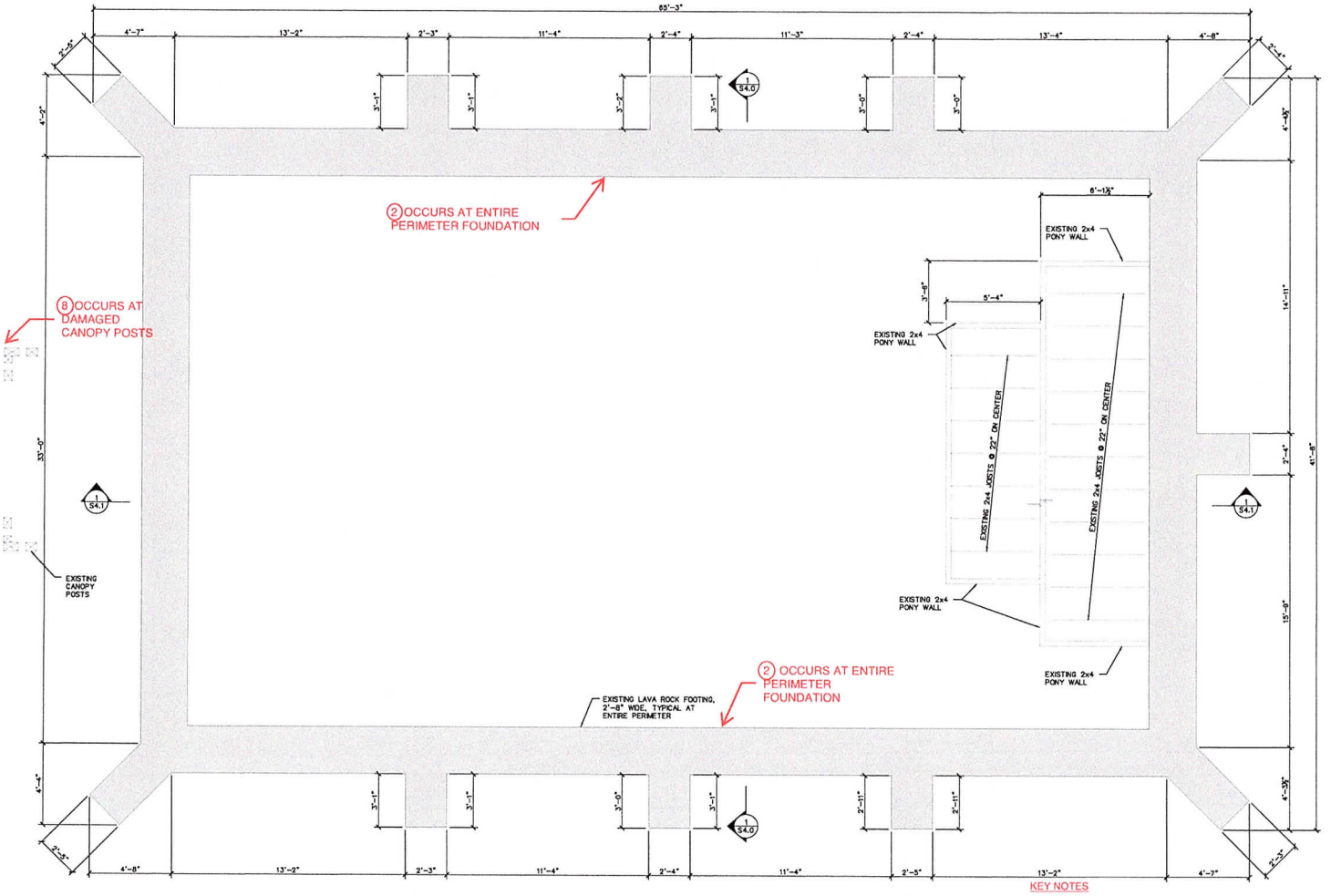
Kaahumanu Church
Existing Structure And Anticipated Repairs

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1/S2.1 ROSTRUM FLOOR FRAMING PLAN
3/8"=1'-0"

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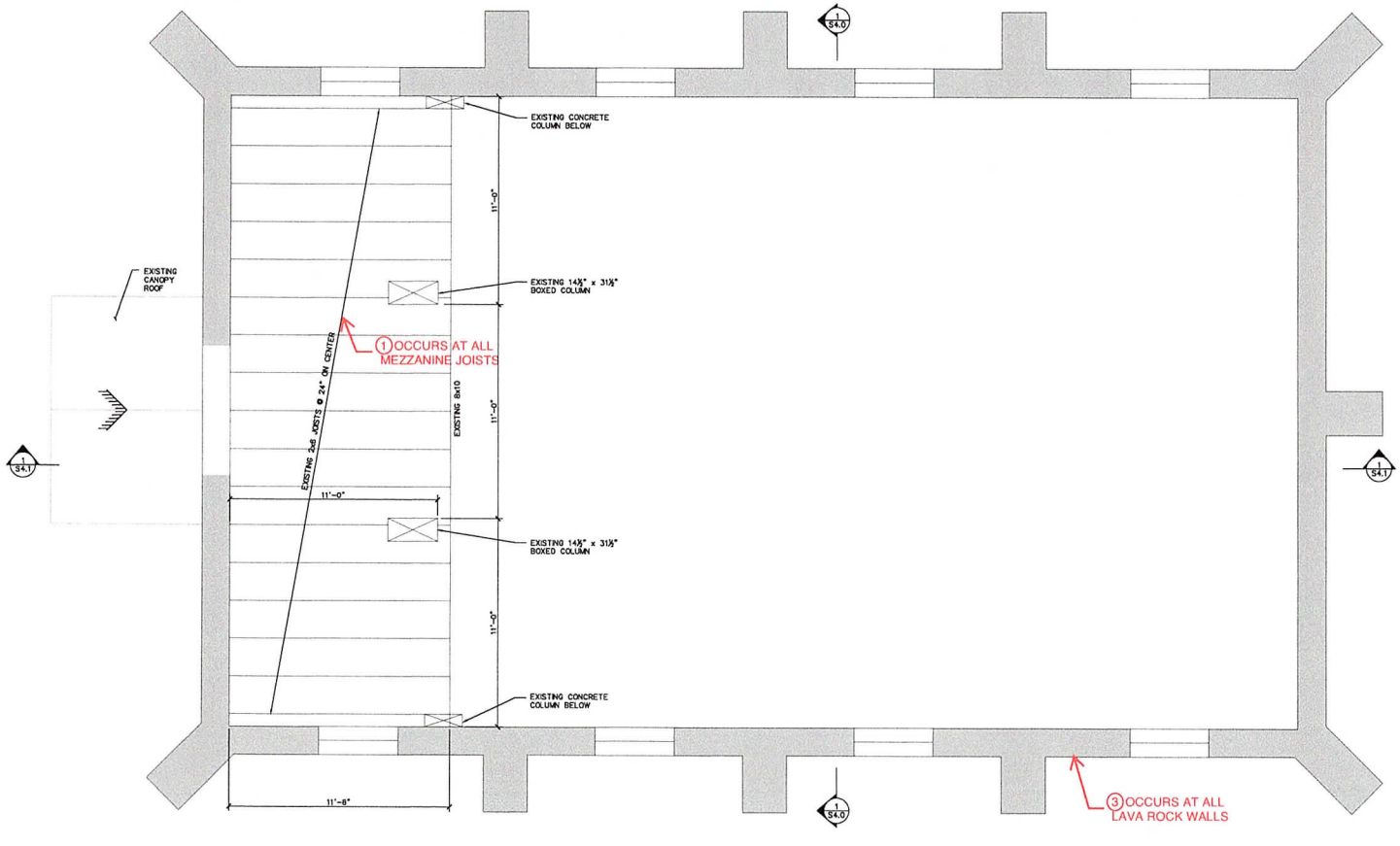
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1/S2.2 MEZZANINE FRAMING PLAN
3/8"=1'-0"

N

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1/S3.0 CEILING FRAMING PLAN
3/8"=1'-0"

N

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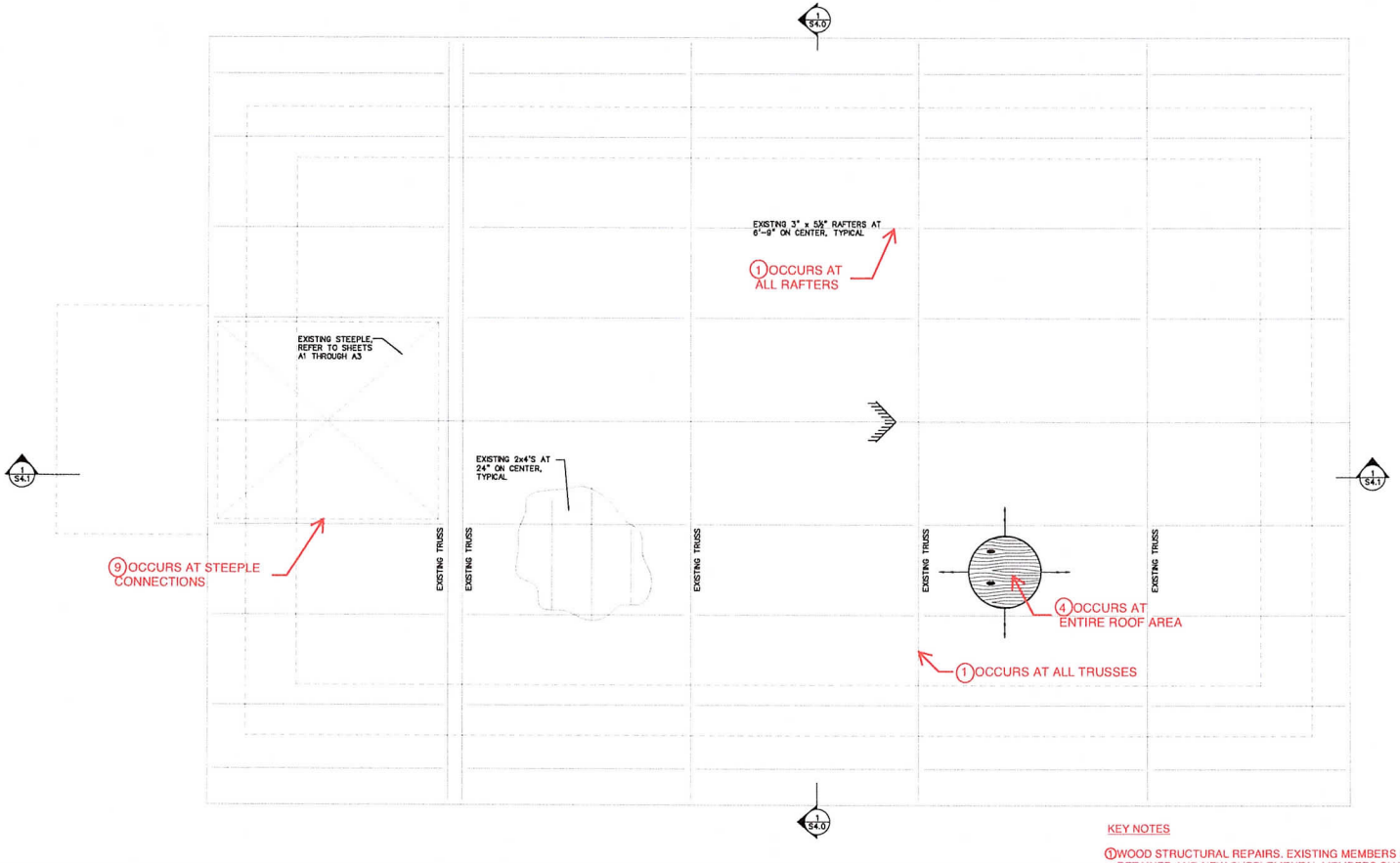
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APPENDIX A



1 S3.1 ROOF FRAMING PLAN
3/8"=1'-0"

N

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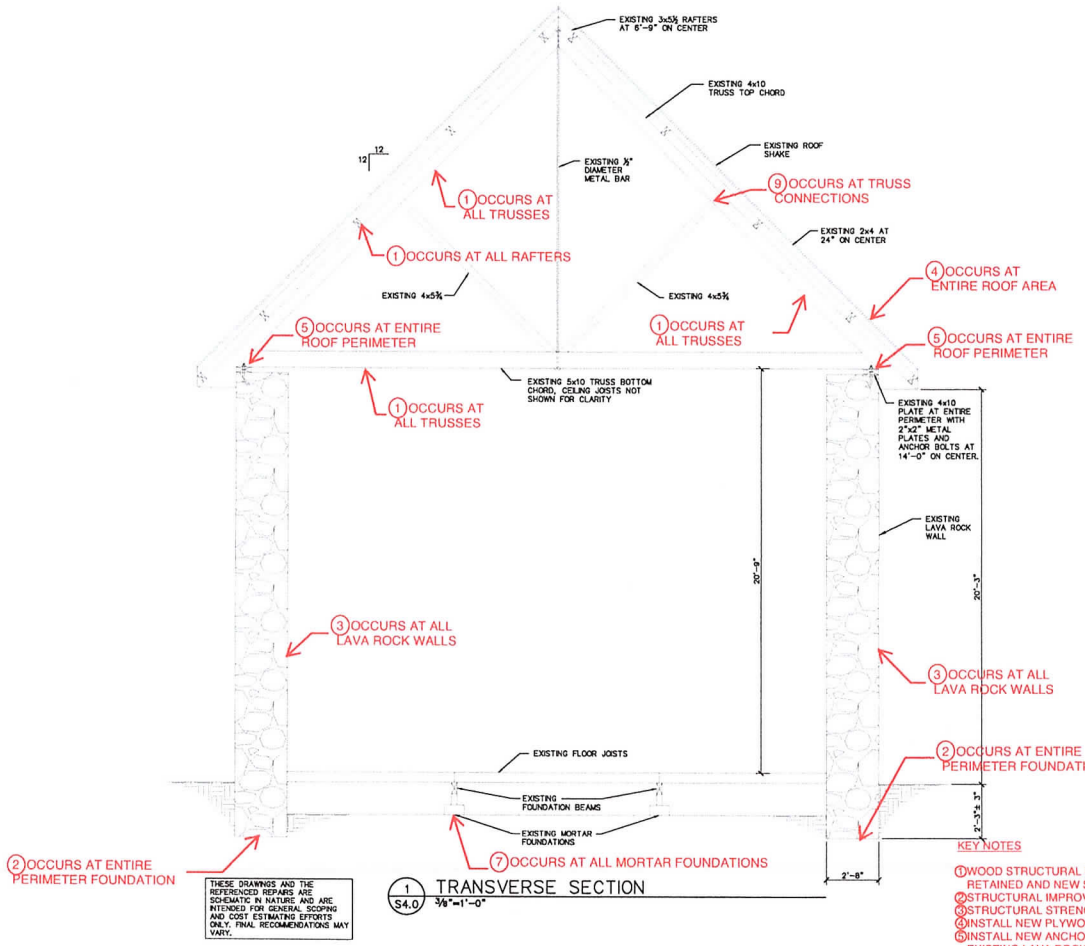
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1 / S4.0 TRANSVERSE SECTION
3/8"=1'-0"

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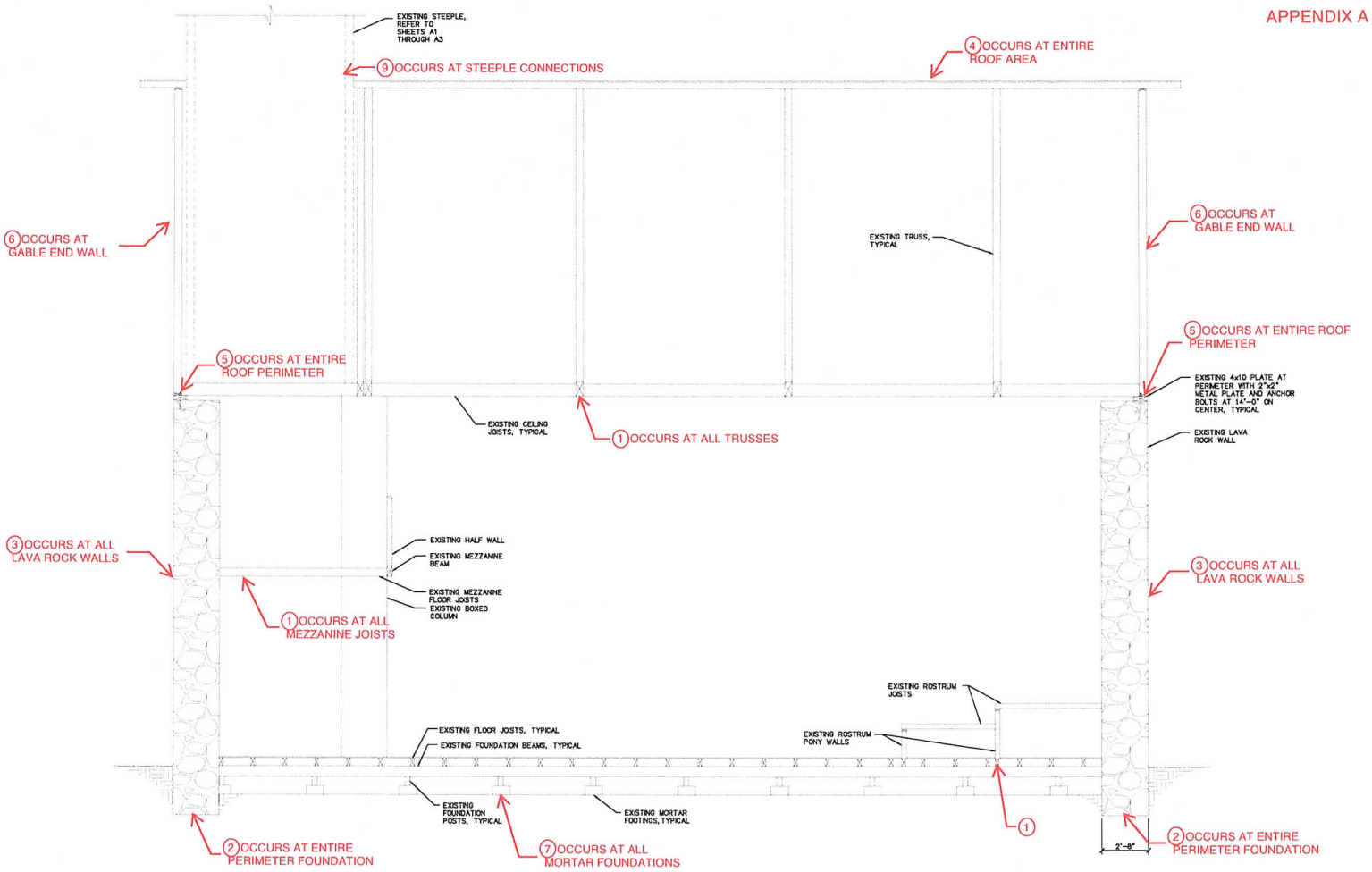
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1 / S4.1 LONGITUDINAL SECTION
3/8"=1'-0"

KEY NOTES

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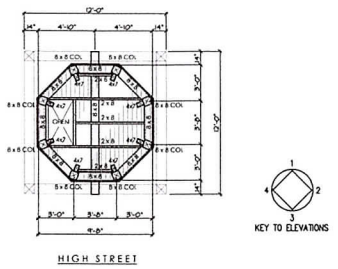
PRELIMINARY NOT FOR CONSTRUCTION

Kaahumanu Church Existing Structure And Anticipated Repairs

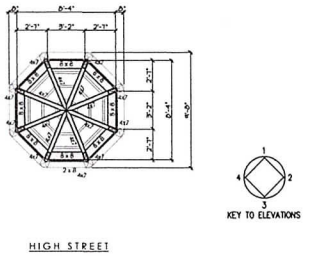
REVISION:

DATE: September 27, 2012
DRAWN: VK/AMD
CHECKED: BWE/AMD
DRAWING TITLE: LONGITUDINAL SECTION
DRAWING: S4.1

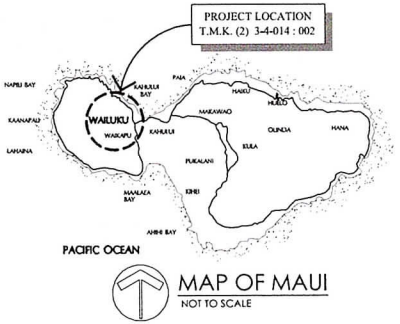
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ERICKSON STRUCTURAL PROJECT No. 120405



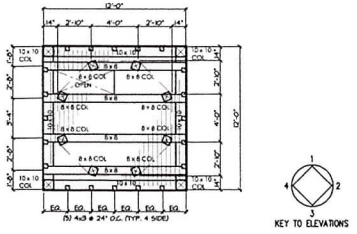
THIRD LEVEL FLOOR PLAN (BELL)
SCALE: 1/4"=1'-0"



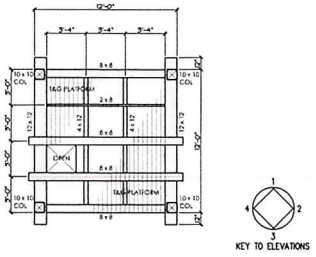
THIRD LEVEL FLOOR PLAN (STEEPLE TOP)
SCALE: 1/4"=1'-0"



MAP OF MAUI
NOT TO SCALE



SECOND LEVEL FLOOR PLAN
SCALE: 1/4"=1'-0"



FIRST LEVEL FLOOR PLAN
SCALE: 1/4"=1'-0"

NOTE:

1. ALL MEMBER CONNECTIONS ARE NAILED, TOE NAILED TO EACHOTHER, UNLESS OTHERWISE WHERE IT IS BOLTED. VERIFY ALL NAILERS AND BOLT CONNECTION SIZES IN FIELD.
2. VERIFY ALL CONDITIONS, DIMENSIONS AND ELEVATIONS, BOTH FOR THIS WORK AND FOR ALL EXISTING STRUCTURES AFFECTED BY THIS WORK. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM ANY PLANS, SECTIONS OR DETAILS CONTAINED WITHIN THESE DOCUMENTS.

EXISTING PLANS FOR: (AS-BUILT DRAWINGS)

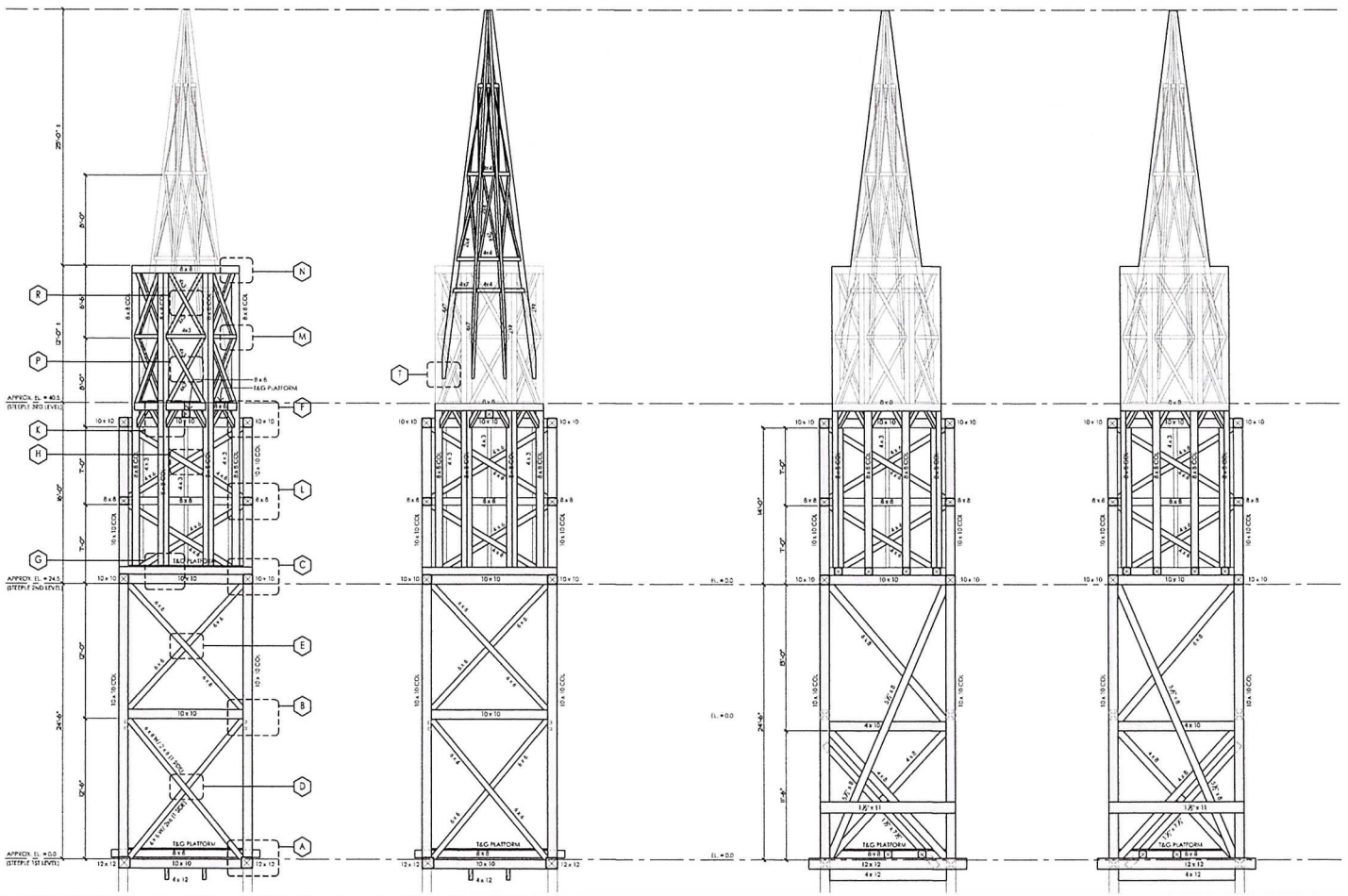
KAAHUMANU CHURCH STEEPLE

103 SOUTH HIGH STREET, WAILUKU. HI. 96793

T.M.K. (2) 23- 4 - 014 : 002

Sheet A1

Date 07.31.12



ELEVATION-1
SCALE: 1/4"=1'-0"

ELEVATION-3
SCALE: 1/4"=1'-0"

ELEVATION-2
SCALE: 1/4"=1'-0"

ELEVATION-4
SCALE: 1/4"=1'-0"

NOTE:

1. ALL MEMBER CONNECTIONS ARE NAILED TO EACHOTHER, UNLESS OTHERWISE WHERE IT IS BOLTED. VERIFY ALL NAILERS AND BOLT CONNECTION SIZES IN FIELD.
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EXISTING PLANS FOR: (AS-BUILT DRAWINGS)

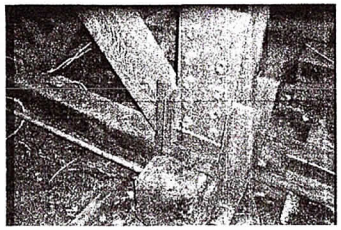
KAAHUMANU CHURCH STEEPLE

103 SOUTH HIGH STREET, WAILUKU, HI. 96793

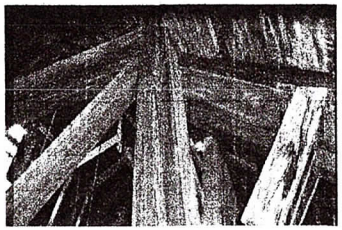
T.M.K. (2) 23- 4 - 014 : 002

Sheet A2

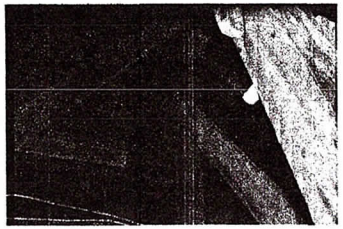
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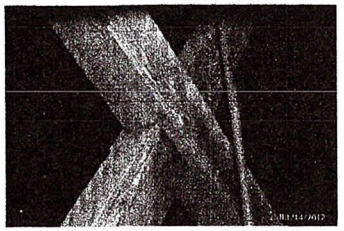
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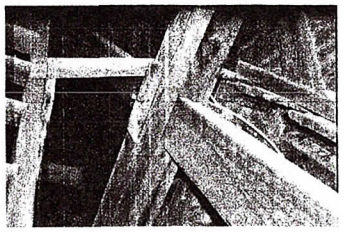
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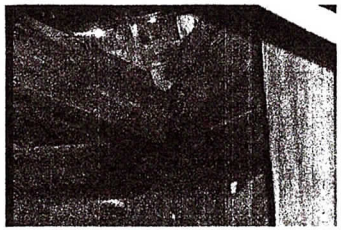
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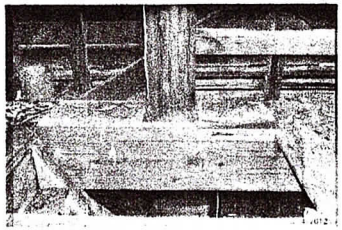
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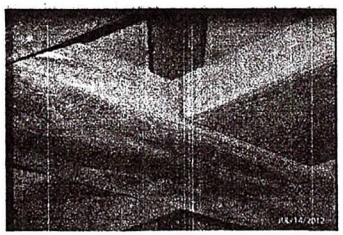
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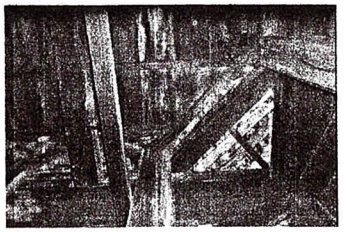
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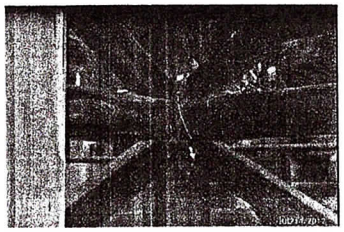
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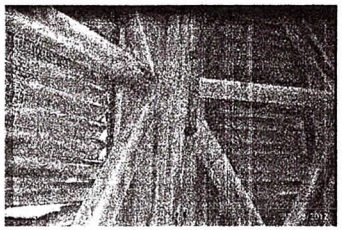
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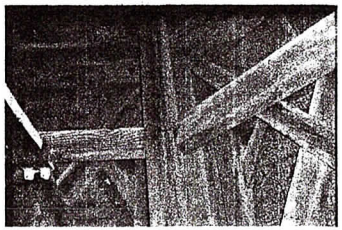
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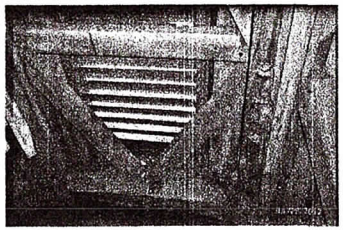
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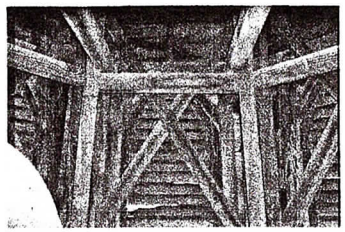
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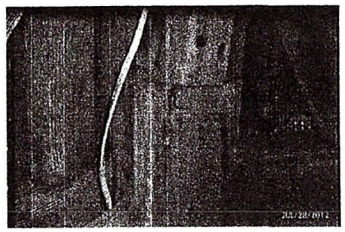
"N"



"P"



"R"



"T"

NOTE:

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EXISTING PLANS FOR: (AS-BUILT DRAWINGS)

KAAHUMANU CHURCH STEEPLE

103 SOUTH HIGH STREET, WAILUKU. HI. 96793

T.M.K. (2) 23- 4 - 014 : 002

Sheet A3

Date 07.31.12

PHOTOS PAGE I

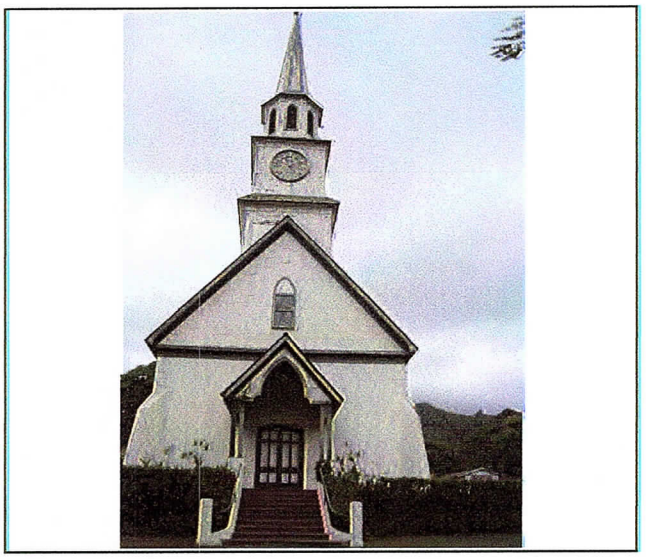


PHOTO 1: Front or East view

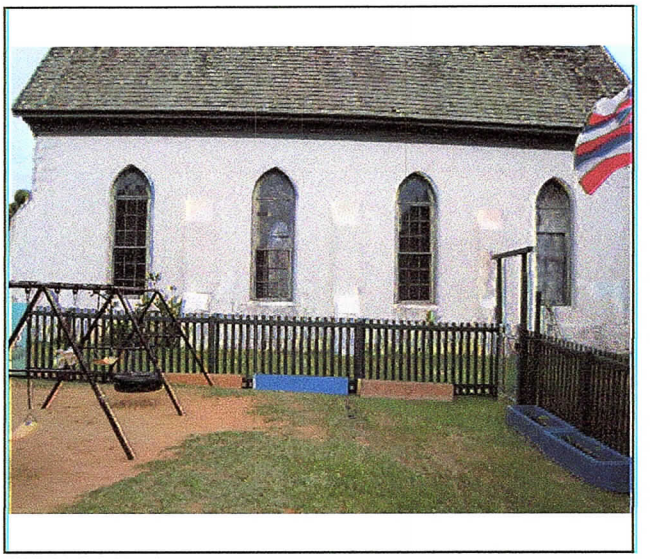


PHOTO 2: South Wall

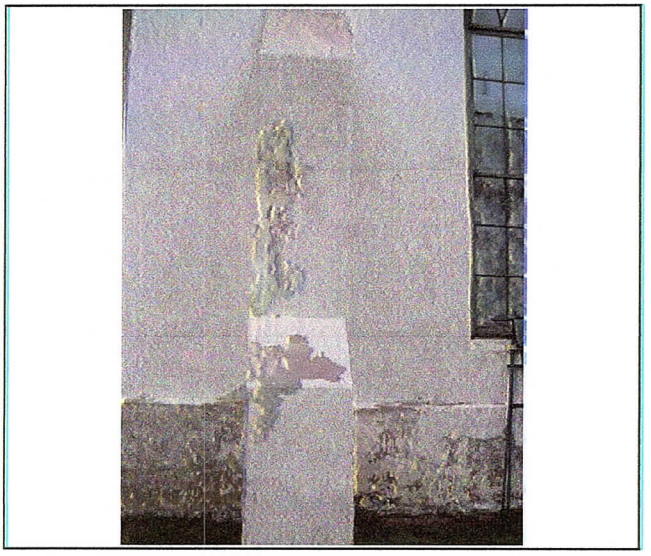


PHOTO 3: South Wall



PHOTO 4: South Wall

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PHOTOS PAGE II



PHOTO 5: South Wall

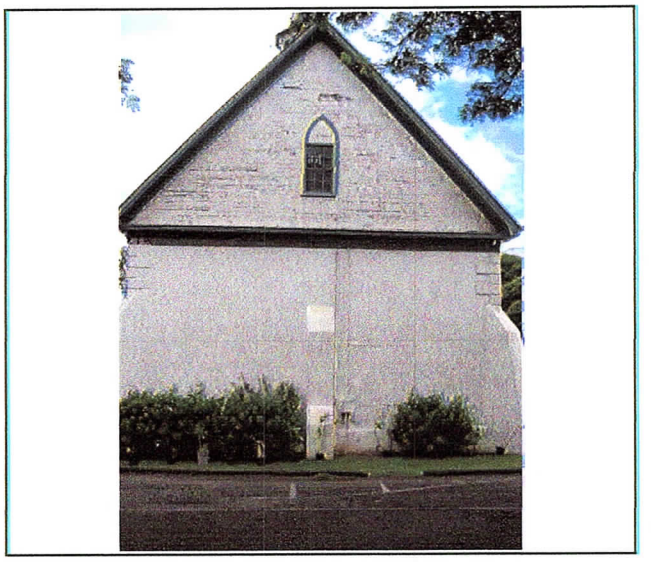


PHOTO 6: Rear Wall



PHOTO 7: Rear Wall

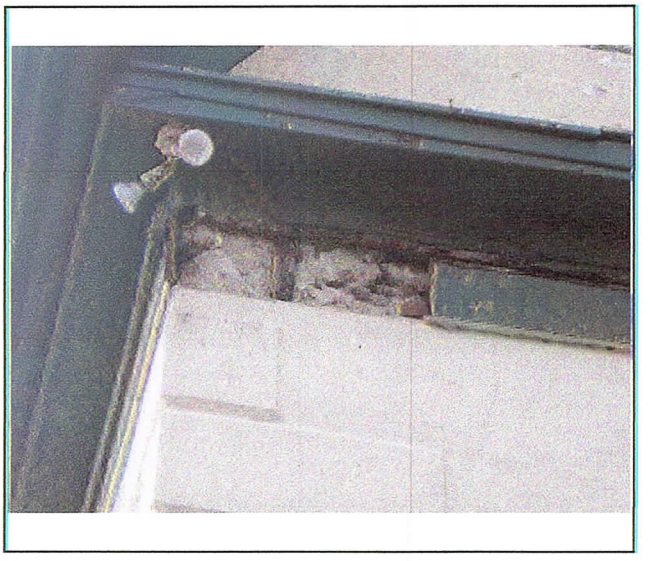


PHOTO 8: Rear wall, upper trim damage

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PHOTOS PAGE III



PHOTO 9: North Wall

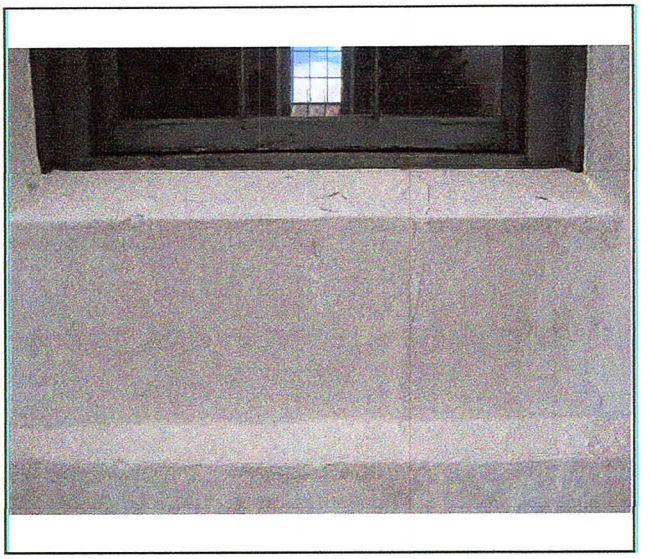


PHOTO 10: North Wall- crack damage



PHOTO 11: North Wall- crack damage

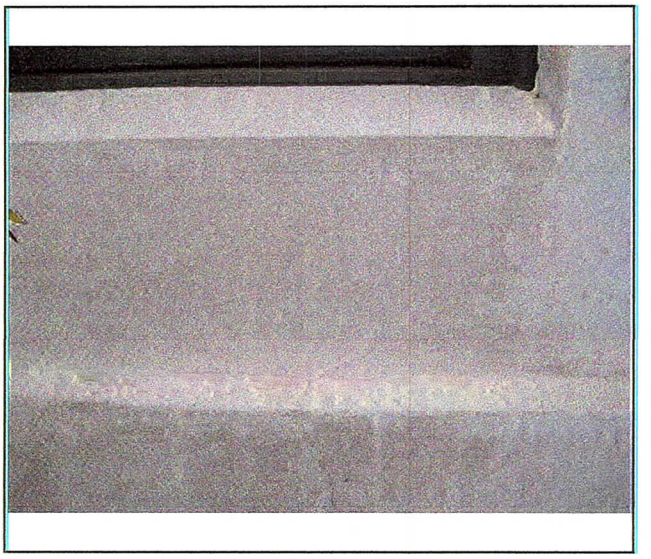


PHOTO 12: North Wall- crack damage

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PHOTOS PAGE IV

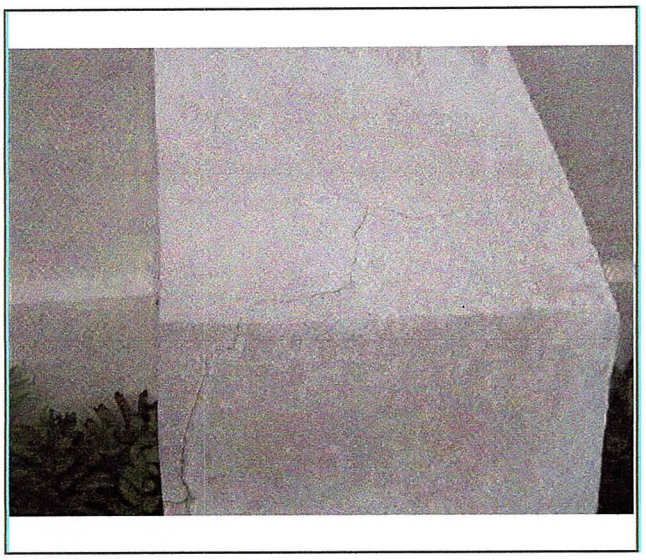


PHOTO 13: North Wall- crack damage



PHOTO 14: Insect damage to front entry porch support post



PHOTO 15: Insect damage to front entry porch support post



PHOTO 16: Water damage and weathering to the South side window sills

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PHOTOS PAGE I

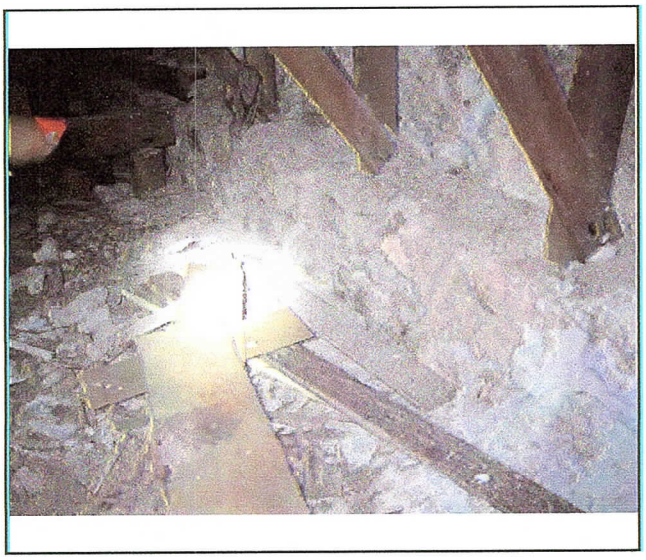


PHOTO 1: Footing under the dias, rear



PHOTO 2: Footing under the dias, South wall



PHOTO 3: Footing under the main floor, South Wall



PHOTO 4: Insect damage to floor joist, main floor

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PHOTOS PAGE II



PHOTO 5: Insect damage to floor joist, main floor



PHOTO 6: Insect damage to floor joist, main floor



PHOTO 7: Footing under main floor, North Wall



PHOTO 8: Footing under main floor, North Wall

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PHOTOS PAGE III

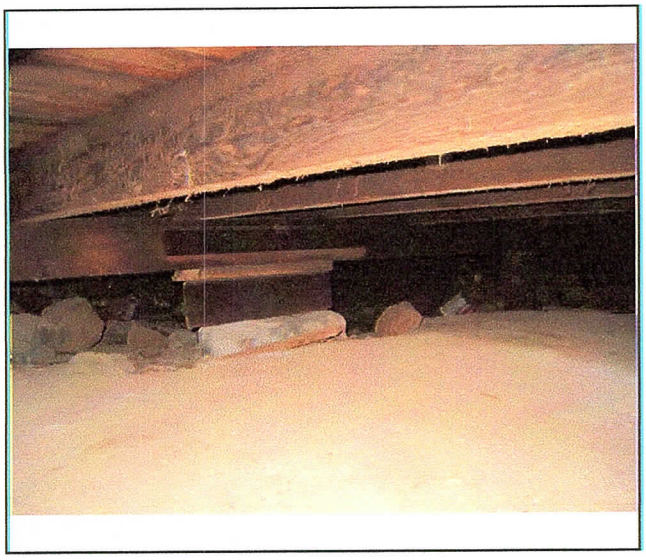


PHOTO 9: Girder support, mid span, East end



PHOTO 10: Footing, East wall



PHOTO 11: Footing, North wall near East end



PHOTO 12: Upgraded footing for steeple vertical support post, South side

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PHOTOS PAGE IV

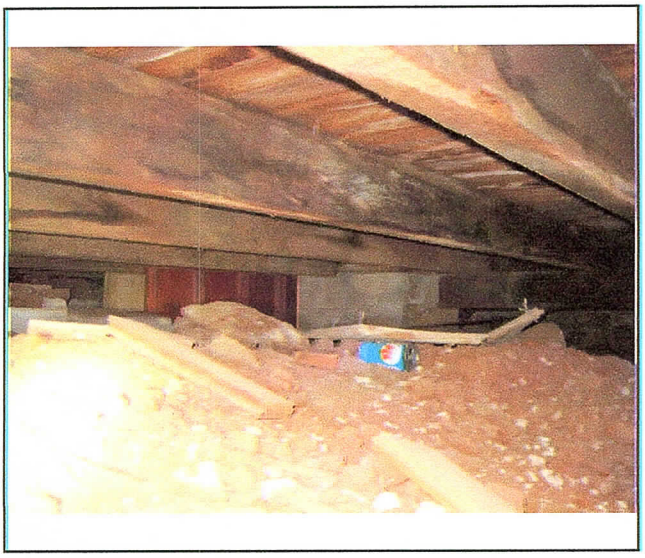


PHOTO 13: Upgraded footing for steeple vertical support post, North side



PHOTO 14: Footing and framing, North/East corner



PHOTO 15: Footing North side



PHOTO 16: Insect damage to floor joist near South Steeple updated support

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PHOTO 1: View of main attic area

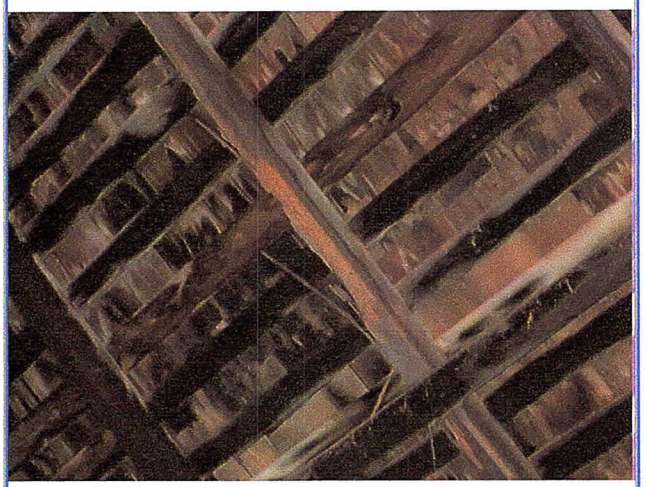


PHOTO 2: Insect damage to main attic rafter



PHOTO 3: View of steeple area

PHOTO 4:

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PHOTOS PAGE I



PHOTO 1: Footing under the dias, rear



PHOTO 2: Footing under the dias, South wall



PHOTO 3: Footing under the main floor, South Wall



PHOTO 4: Insect damage to floor joist, main floor

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PHOTOS PAGE II



PHOTO 5: Insect damage to floor joist, main floor

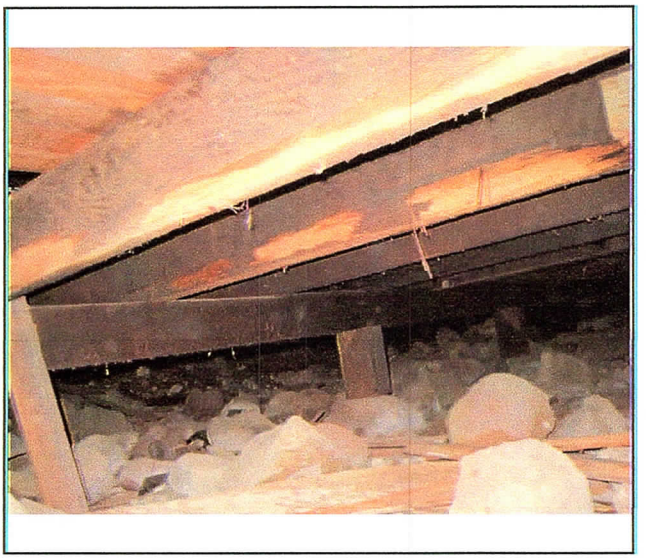


PHOTO 6: Insect damage to floor joist, main floor



PHOTO 7: Footing under main floor, North Wall



PHOTO 8: Footing under main floor, North Wall

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PHOTOS PAGE III



PHOTO 9: Girder support, mid span, East end



PHOTO 10: Footing, East wall



PHOTO 11: Footing, North wall near East end



PHOTO 12: Upgraded footing for steeple vertical support post, South side

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PHOTOS PAGE IV

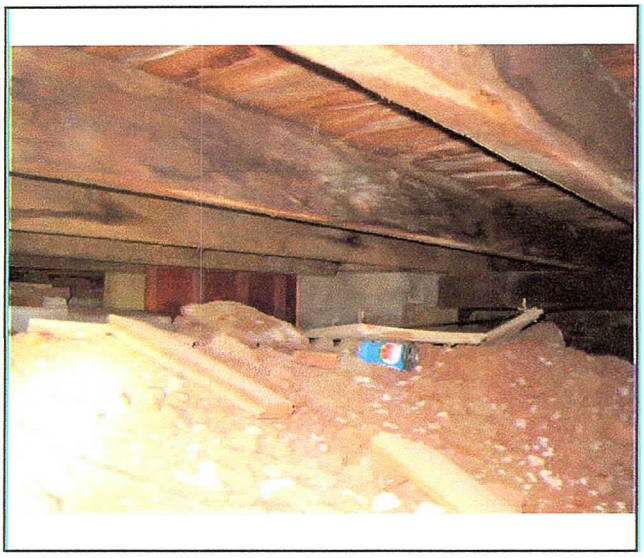


PHOTO 13: Upgraded footing for steeple vertical support post, North side



PHOTO 14: Footing and framing, North/East corner



PHOTO 15: Footing North side



PHOTO 16: Insect damage to floor joist near South Steeple updated support

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PHOTO 1: Framing under the dias

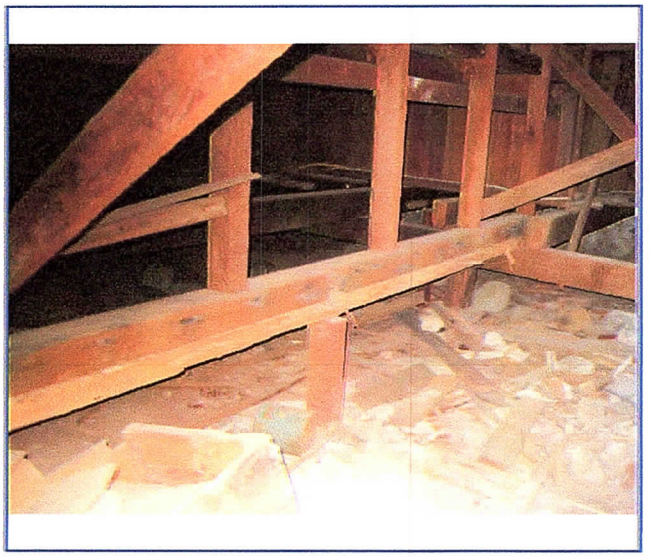


PHOTO 2: Framing under the dias



PHOTO 3: Framing under the dias

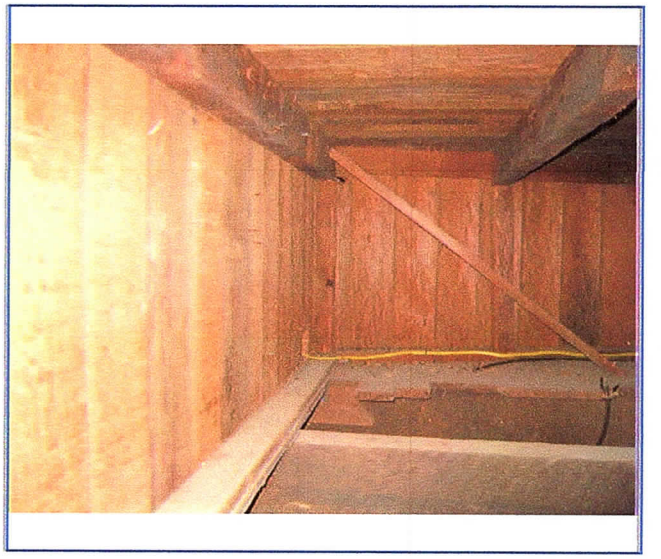


PHOTO 4: Framing under the dias

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Maui Branch
253 Waiehu Beach Road
Wailuku, HI 96793
(808) 244-0296 Fax: (808) 244-0297

Bowman
TERMITE & PEST MANAGEMENT LLC PCO 830

Hilo Branch
469 Kalanikoa Street
Hilo, HI 96720
(808) 935-8510 (Hilo) (808) 329-3215 (Kona)
Fax: (808) 935-8520

Date Scheduled for Fumigation _____

Drywood Termite Fumigation Agreement

~~Owner~~/Agent TOM DONMA Phone (H) 276-2926 (W) _____ (Cell) _____

Mailing Address Kaahumanu Church City _____ State ___ Zip _____

Property Address 103 S. High St. City WAILUKU State HI Zip 96793

Description of Structure(s) to be fumigated, also refer to graph: CHURCH

The work will be done as follows unless otherwise indicated:

The entire structure will be sealed by tarpaulins or other practical methods. The fumigant, Vikane, and warning agent, Chloropicrin, will be used in compliance with their labels, labeling and with federal, state and local laws, for the management of drywood termites (Cryptotermis brevis). All work will be done in a professional manner but we will not be held responsible for damage to roofs, plants, satellite dishes, solar panels and TV antennas. We will not be responsible for damage, which results from an act of God (i.e. weather conditions). Postponement of this fumigation may result from inclement weather or other conditions that may affect the quality of work. If this does occur we will try to reschedule the job at the earliest convenient date for both parties. It is the responsibility of the owner or the owner's agent to comply with the instructions on the reverse side of this agreement.

Bowman Termite & Pest Management offers to our customers a choice of two Drywood Termite Treatment warranties:

1. A two year warranty: In the event live stages of worker Drywood Termites are found in the structure(s) fumigated, we will provide re-fumigation for a period of two years from the date of the initial fumigation for a fee of

— tax included. ___Yes ___No

2. A five year warranty: In addition to the two year re-fumigation warranty stated above, we will provide three additional years of spot treatment for any active areas of Drywood Termites for a fee of

$12,500 tax included. ✓Yes ___No

Fumigation Checklist – Things to do before fumigation

Owners and tenants are instructed to read and understand the fumigation checklist on the reverse of this agreement. By accepting the terms of the agreement, it is understood that the structure to be fumigated will be in compliance with the fumigation checklist. In the event any foods, drugs or medicines are not properly sealed during the course of the fumigation, they should be discarded and not consumed.

Pest Management Service (Optional)

Special Discounted services provided are: 1. Monthly Pest Management $ 42.00/mo Yes No

(offers good for 30 days from date of fumigation) 2. Perimeter Pest Barrier $ 65.00 + Mat Yes No

Deposit and Payment

A deposit of $ 50% is required to schedule a fumigation date. The balance of $ 50% is due upon completion of service. (In the event of default, owner shall pay interest at the rate of 1.5% per month and all costs of court including reasonable attorney fees.)

_____ _____ 5/1/12

Owner or Authorized Agent Date For Bowman Termite and Pest Management Date

_____

Responsible Occupant Date

Painting Schedule

Note:

1. It is the Contractors' responsibility to determine if existing painted surface finishes are latex or oil-based and to select which scheduled product(s) to use.

2. It is recommended that extra mildewcide be added to all finish coats.

3. For new, previously unpainted, repaired areas or areas having color scheme changes, apply two (2) finish coats.

4. All sheens can be interchanged with alternate sheen levels with owner(s) signature acceptance.

5. Should contractor have any questions not covered in specification please contact Hawaii Inspection Group for direction.

PAINTING SCHEDULE / RECOMMENDED SYSTEM
It is the intent of this specification to paint all previously painted surfaces, unless otherwise specified.

A] MASONRY / PLASTER / STUCCO / BARE:

Spot Prime:	Exterior Loxon Masonry Primer, A24W300 (200 sq.ft./gal.; 3.2 mils dry) **for bare or patched concrete/masonry/stucco areas**.
First Coat (1) coat:	Conflex Elastomeric High Build Coating A5w451 Series (100-125 sq.ft. /gal 6.0-7.5 DFT
Finish (1) coat:	Duration Exterior Acrylic Flat Coating K32w151 Series (250-300 sq.ft./gal.; 2.8 mils DFT.

B] MASONRY / PREVIOUSLY PAINTED PLASTER / STUCCO:

Prime (1) coat;	Loxon Conditioner (200-300 sq.ft./gal.)
First coat (1) coat:	Conflex Elastomeric High Build Coating A5w451 Series (100-125 sq.ft. /gal 6.0-7.5 DFT
Finish (1) coat:	Duration Exterior Acrylic Flat Coating K32w151 Series (250-300 sq.ft./gal.; 2.8 mils DFT.

C] WOOD: BARE AND PREVIOUSLY PAINTED:

Prime (1) coat;	Exterior Oil Based Wood Primer Y24w8020 Series (350-400 sq. ft. /gal 2.3 mils DFT)
Finish (2) coats:	Duration Exterior Acrylic Satin Coating K33w151 Series (250-300 sq.ft./gal.; 2.8 mils DFT.

EXTRA PAINT

After project completion, the Contractor will provide extra paint in each of the various colors utilized on the Project. The paint shall be in properly marked containers and the quantities listed below:

1. 1 single, Five (5) gallon bucket for each color used for areas > 350 ft^2.

2. One, single (1) gallon can for each color used for areas < 350 ft^2.

The Contractor shall possess:

1. Valid and current General or Painting Contractor License(s).

2. Current General Liability and Workers' Compensation Insurance Policy. Certificate of Insurance must be submitted to owner or his representative within fifteen (15) days of contract acceptance and approval.

3. Adequate General Liability and Worker Compensation Insurance and for the Project's duration, will add (the Property Owner) as additionally insured on their General Liability policy. The Contractor will submit certificate of insurance; as evidence of said coverage' to owner within five (5) working days of contract acceptance and approval.

Submit sealed proposals
to:

THOMAS DOUMA
HAWAII INSPECTION GROUP INC
P.O. BOX 60
KIHEI, HAWAII 96753
tom@inspectiongroup.com

PLEASE DO NOT SUBMIT PRICING TO SHERWIN-WILLIAMS™ PAINTS REPRESENTATIVE(S). ALL PRICING SHOULD BE SEALED INTACT AND DELIVERED TO THE OWNERS REPRESENTATIVE.

Should you have any questions or require additional information, please contact me at the info provided below.

Mahalo,

Richard Behn
PC Representative
SHERWIN-WILLIAMS™
swrep4899@sherwin.com
808-870-1199

To the best of our knowledge, the information contained in this Document is accurate, based upon visual inspections by a representative of **Sherwin-Williams™** Paints. However, the use of materials specified is beyond our control and we shall not accept liability for any injury or damage arising from their use. Prior to application, surfaces to which materials are to be applied must be rendered sound and free from all flaws and defects, including but not limited to, removal of tenuous, unsound elements. All standards stated on labels of **Sherwin-Williams™** Paints products used must be met at the time of application.