

# MAUI RESIDENCE

## ROGER WORTHINGTON

A

## BUILDING CODE SUMMARY

PROJECT DESCRIPTION: BUILDING JURISDICTION: COUNTY OF MAUI

APPLICABLE CODES: INTERNATIONAL RESIDENTIAL CODE 2018

DESIGN CRITERIA: SNOW LOAD: WIND EXPOSURE: SEISMIC SITE CLASS: DESIGN CATEGORY:

RISK CATEGORY: FOR ADDITIONAL INFO SEE STRUCTURAL DRAWINGS

BUILDING INFORMATION: CONSTRUCTION TYPE (SEC. 602): V-B

FIRE SPRINKLERS: (NO)

CONDITIONED BUILDING AREA: 2,880 SF

## BUILDING PLANNING (CHAPTER 3)

## R302: FIRE-RESISTANT CONSTRUCTION

B THERE NO FIRE-RATED BARRIERS OR PARTITIONS REQUIRED.

## R302.9 FLAME SPREAD INDEX FOR FINISHES

FLAME SPREAD INDEX: NOT GREATER THAN 200  
SMOKE DEVELOPED INDEX: NOT GREATER THAN 450

## R302.10 FLAME SPREAD INDEX FOR INSULATION

FLAME SPREAD INDEX: NOT GREATER THAN 25  
SMOKE DEVELOPED INDEX: NOT GREATER THAN 450

## R302.11 FIREBLOCKING

FIRE BLOCKING SHALL BE PROVIDED IN WOOD-FRAMED CONSTRUCTION IN THE FOLLOWING LOCATIONS:  
1. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS:  
A. VERTICALLY AT THE CEILING AND FLOOR LEVELS  
B. HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET  
2. AT INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS, AND COVE CEILINGS.  
3. NOT APPLICABLE (NO STAIRS IN PROJECT)  
4. AT OPENINGS AROUND VENTS, PIPES, DUCTS, CABLES, AND WIRES AT CEILING AND FLOOR LEVEL...  
5. NOT APPLICABLE (NO CHIMNEYS OR FIREPLACES)  
6. NO APPLICABLE (NOT A TWO-FAMILY DWELLING)

## R302.12 DRAFTSTOPPING

DRAFTSTOPPING IS NOT REQUIRED.

## R302.13 FIRE PROTECTION OF FLOORS

NOT APPLICABLE DUE TO:  
EXCEPTION 2: FLOOR ASSEMBLIES LOCATED DIRECTLY OVER A CRAWL SPACE NOT INTENDED FOR STORAGE OR FOR THE INSTALLATION OF FUEL-FIRED OR ELECTRIC-POWERED HEATING APPLIANCES.

EXCEPTION 4: WOOD FLOOR ASSEMBLIES USING DIMENSIONAL LUMBER OR STRUCTURAL COMPOSITE LUMBER EQUAL OR GREATER THAN 2X10 NOMINAL...

## R302.14 COMBUSTIBLE INSULATION CLEARANCE

COMBUSTIBLE INSULATION SHALL BE SEPARATED NOT LESS THAN 3 INCHES FROM RECESSED LUMINARIES, FAN MOTORS, AND OTHER HEAT PRODUCING DEVICES.

EXCEPTION: WHERE HEAT-PRODUCING DEVICES ARE LISTED FOR LESSER CLEARANCES, COMBUSTIBLE INSULATION COMPLYING WITH THE LISTING REQUIREMENTS SHALL BE SEPARATED IN ACCORDANCE WITH THE CONDITIONS STIPULATED IN THE LISTING.

## R303: LIGHT, VENTILATION, AND HEATING

## R303.1 HABITABLE ROOMS

HABITABLE ROOMS SHALL HAVE AN AGGREGATE GLAZING AREA OF NOT LESS THAN 8 PERCENT OF THE FLOOR AREA OF SUCH ROOMS. NATURAL VENTILATION SHALL BE THROUGH WINDOWS, SKYLIGHTS, DOORS, LOUVERS OR OTHER APPROVED OPENINGS TO THE OUTDOOR AIR. SUCH OPENINGS SHALL BE PROVIDED WITH READY ACCESS OR SHALL OTHERWISE BE READILY CONTROLLABLE BY THE BUILDING OCCUPANTS. THE OPERABLE AREA TO THE OUTDOORS SHALL BE NOT LESS THAN 4 PERCENT OF THE FLOOR AREA BEING VENTILATED.

## R303.3 BATHROOMS

BATHROOMS, WATER CLOSET COMPARTMENTS AND OTHER SIMILAR ROOMS SHALL BE PROVIDED WITH AGGREGATE GLAZING AREA IN WINDOWS OF NOT LESS THAN 3 SQUARE FEET (0.3 M<sup>2</sup>), ONE-HALF OF WHICH SHALL BE OPERABLE.

EXCEPTION: THE GLAZED AREAS SHALL NOT BE REQUIRED WHERE ARTIFICIAL LIGHT AND A LOCAL EXHAUST SYSTEM ARE PROVIDED. THE MINIMUM LOCAL EXHAUST RATES SHALL BE DETERMINED IN ACCORDANCE WITH SECTION M105. EXHAUST AIR FROM THE SPACE SHALL BE EXHAUSTED DIRECTLY TO THE OUTDOORS.

## R303.5 OPENING LOCATION

R303.5.1 INTAKE OPENINGS  
MECHANICAL AND GRAVITY OUTDOOR AIR INTAKE OPENINGS SHALL BE LOCATED NOT LESS THAN 10 FEET (3048 MM) FROM ANY HAZARDOUS OR NOXIOUS CONTAMINANT, SUCH AS VENTS, CHIMNEYS, PLUMBING VENTS, STREETS, ALLEYS, PARKING LOTS AND LOADING DOCKS.

FOR THE PURPOSE OF THIS SECTION, THE EXHAUST FROM DWELLING UNIT TOILET ROOMS, BATHROOMS AND KITCHENS SHALL NOT BE CONSIDERED AS HAZARDOUS OR NOXIOUS.

## EXCEPTIONS:

1. THE 10-FOOT (3048 MM) SEPARATION IS NOT REQUIRED WHERE THE INTAKE OPENING IS LOCATED 3 FEET (914 MM) OR GREATER BELOW THE CONTAMINANT SOURCE.
2. VENTS AND CHIMNEYS SERVING FUEL-BURNING APPLIANCES SHALL BE TERMINATED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF CHAPTERS 18 AND 24.
3. CLOTHES DRYER EXHAUST DUCTS SHALL BE TERMINATED IN ACCORDANCE WITH SECTION M102.3.

## R303.5.2 EXHAUST OPENINGS

EXHAUST AIR SHALL NOT BE DIRECTED ONTO WALKWAYS

## R303.6 OUTSIDE OPENING PROTECTION

AIR EXHAUST AND INTAKE OPENINGS THAT TERMINATE OUTDOORS SHALL BE PROTECTED WITH CORROSION-RESISTANT SCREENS, LOUVERS OR GRILLES HAVING AN OPENING SIZE OF NOT LESS THAN 1/4 INCH (6 MM) AND A MAXIMUM OPENING SIZE OF 1/2 INCH (13 MM), IN ANY DIMENSION. OPENINGS SHALL BE PROTECTED AGAINST LOCAL WEATHER CONDITIONS.

## R303.8 EXTERIOR STAIRWAY ILLUMINATION

EXTERIOR STAIRWAYS SHALL BE PROVIDED WITH AN ARTIFICIAL LIGHTING SOURCE LOCATED AT THE TOP LANDING OF THE STAIRWAY.

## R308 GLAZING

## R308.3 HUMAN IMPACT LOADS

INDIVIDUAL GLAZED AREAS, INCLUDING GLASS MIRRORS IN HAZARDOUS LOCATIONS SUCH AS THOSE INDICATED AS DEFINED IN SECTION R308.4, SHALL PASS THE TEST REQUIREMENTS OF SECTION R308.3.1

## R308.3.1 IMPACT TEST

WHERE REQUIRED BY OTHER SECTIONS OF THE CODE, GLAZING SHALL BE TESTED IN ACCORDANCE WITH CPSC 16 CFR 1201. GLAZING SHALL COMPLY WITH THE TEST CRITERIA FOR CATEGORY II UNLESS OTHERWISE INDICATED IN TABLE R308.3.1(1).

## R308.4 HAZARDOUS LOCATIONS

## R308.4.1 GLAZING IN DOORS

## R308.4.2 GLAZING ADJACENT TO DOORS

WHERE THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE THE FLOOR AND:

1. WHERE THE GLAZING IS WITHIN 24 INCHES OF EITHER SIDE OF THE DOOR IN THE PLANE OF THE DOOR IN THE CLOSED POSITION.
2. WHERE THE GLAZING IS ON A WALL LESS THAN 180 DEGREES FROM THE PLAN OF THE DOOR IN A CLOSED POSITION AND WITHIN 24 INCHES OF THE HINGE SIDE OF AN IN-SWINGING DOOR.

## R308.4.3 GLAZING IN WINDOWS

GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL THAT MEETS ALL OF THE FOLLOWING CONDITIONS:

1. THE EXPOSED AREA OF A PANE IS LARGER THAN 5SF.
2. THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18 INCHES ABOVE THE FLOOR.
3. THE TOP EDGE OF THE GLAZING IS MORE THAN 36 INCHES ABOVE THE FLOOR.
4. ONE OR MORE WALKING SURFACES ARE WITHIN 36 INCHES OF THE GLAZING.

## R308.4.4 GLAZING IN GUARDS AND RAILINGS

GLAZING IN GUARDS AND RAILINGS, INCLUDING STRUCTURAL BALUSTER PANELS AND NONSTRUCTURAL IN-FILL PANELS, REGARDLESS OF AREA OR HEIGHT ABOVE A WALKING SURFACE SHALL BE CONSIDERED TO BE A HAZARDOUS LOCATION.

## R308.4.5 GLAZING AND WET SURFACES

GLAZING IN WALLS CONTAINING OR FACING HOT TUBS, SPAS, WHIRLPOOLS, SAUNAS, STEAM ROOMS, BATHTUBS, SHOWERS AND INDOOR OR OUTDOOR SWIMMING POOLS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES MEASURED VERTICALLY ABOVE ANY STANDING OR WALKING SURFACE SHALL BE CONSIDERED TO BE A HAZARDOUS LOCATION.

## R310 EMERGENCY ESCAPE AND RESCUE OPENINGS

BASEMENTS, HABITABLE ATTICS, AND EVERY SLEEPING ROOM SHALL HAVE NOT LESS THAN ONE OPERABLE EMERGENCY ESCAPE AND RESCUE OPENING.

## R310.1.1 MINIMUM OPENING AREA

EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A CLEAR NET OPENING OF NOT LESS THAN 5.7 SF... THE NET CLEAR HEIGHT OF THE OPENING SHALL BE NOT LESS THAN 24 INCHES AND THE NET CLEAR WIDTH SHALL BE NOT LESS THAN 20 INCHES.

EXCEPTION: GRADE FLOOR OPENINGS SHALL HAVE A NET CLEAR OPENING AREA OF NOT LESS THAN 5 SF.

## R310.2.2 WINDOW SILL HEIGHT

WHERE A WINDOW IS PROVIDED AS THE EMERGENCY ESCAPE AND RESCUE OPENING, IT SHALL HAVE A SILL HEIGHT OF NOT MORE THAN 44 INCHES ABOVE THE FLOOR...

## R310.3 EMERGENCY ESCAPE AND RESCUE DOORS

WHERE A DOOR IS PROVIDED AS THE REQUIRED EMERGENCY ESCAPE AND RESCUE OPENING, IT SHALL BE A SIDE-HINGED OR A SLIDER.

## R313 AUTOMATIC FIRE SPRINKLER SYSTEMS

AN AUTOMATIC RESIDENTIAL FIRE SPRINKLER SYSTEM SHALL BE INSTALLED IN ONE- AND TWO-FAMILY DWELLINGS.

EXCEPTION: AN AUTOMATIC RESIDENTIAL FIRE SPRINKLER SYSTEM SHALL NOT BE REQUIRED FOR ADDITIONS OR ALTERATIONS TO EXISTING BUILDINGS THAT ARE NOT ALREADY PROVIDED WITH AN AUTOMATIC RESIDENTIAL SPRINKLER SYSTEM, IN ACCORDANCE WITH HRS 46-19.8 FIRE SPRINKLERS; RESIDENCES, UNTIL JUNE 30, 2027 NO COUNTY SHALL REQUIRE THE INSTALLATION OR RETROFITTING OF AUTOMATIC FIRE SPRINKLERS OR AN AUTOMATIC FIRE SPRINKLER SYSTEM IN:

1. ANY NEW OR EXISTING DETACHED ONE- OR TWO-FAMILY DWELLING UNIT IN A STRUCTURE USED ONLY FOR RESIDENTIAL PURPOSES; AND
2. NOT APPLICABLE

PROVIDED THAT THIS SECTION SHALL NOT APPLY TO NEW HOMES THAT REQUIRE A VARIANCE FROM ACCESS ROAD OR FIREFIGHTING WATER SUPPLY REQUIREMENTS.

## R314 SMOKE ALARMS

SMOKE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS:

1. IN EACH SLEEPING ROOM.
2. OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS.
3. ON EACH ADDITIONAL STORY OF THE DWELLING, INCLUDING BASEMENTS AND HABITABLE ATTICS AND NOT INCLUDING CRAWL SPACES AND UNINHABITABLE ATTICS. IN DWELLINGS OR DWELLING UNITS WITH SPLIT LEVELS AND WITHOUT AN INTERVENING DOOR BETWEEN THE ADJACENT LEVELS, A SMOKE ALARM INSTALLED ON THE UPPER LEVEL SHALL SUFFICE FOR THE ADJACENT LOWER LEVEL PROVIDED THAT THE LOWER LEVEL IS LESS THAN ONE FULL STORY BELOW THE UPPER LEVEL.
4. SMOKE ALARMS SHALL BE INSTALLED NOT LESS THAN 3 FEET (914 MM) HORIZONTALLY FROM THE DOOR OR OPENING OF A BATHROOM THAT CONTAINS A BATHTUB OR SHOWER UNLESS THIS WOULD PREVENT PLACEMENT OF A SMOKE ALARM REQUIRED BY THIS SECTION.

SMOKE ALARMS SHALL NOT BE INSTALLED IN THE FOLLOWING LOCATIONS UNLESS THIS WOULD PREVENT PLACEMENT OF A SMOKE ALARM IN A LOCATION REQUIRED BY SECTION R314.3.

1. IONIZATION SMOKE ALARMS SHALL NOT BE INSTALLED LESS THAN 20 FEET (6096 MM) HORIZONTALLY FROM A PERMANENTLY INSTALLED COOKING APPLIANCE.
2. IONIZATION SMOKE ALARMS WITH AN ALARM-SILENCING SWITCH SHALL NOT BE INSTALLED LESS THAN 10 FEET (3048 MM) HORIZONTALLY FROM A PERMANENTLY INSTALLED COOKING APPLIANCE.
3. PHOTOELECTRIC SMOKE ALARMS SHALL NOT BE INSTALLED LESS THAN 6 FEET (1822 MM) HORIZONTALLY FROM A PERMANENTLY INSTALLED COOKING APPLIANCE.

## R315 CARBON MONOXIDE ALARMS

CARBON MONOXIDE ALARMS IN DWELLING UNITS SHALL BE INSTALLED OUTSIDE OF EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS. WHERE A FUEL-BURNING APPLIANCE IS LOCATED WITHIN A BEDROOM OR ITS ATTACHED BATHROOM, A CARBON MONOXIDE ALARM SHALL BE INSTALLED WITHIN THE BEDROOM.

COMBINATION CARBON MONOXIDE AND SMOKE ALARMS SHALL BE PERMITTED TO BE USED IN LIEU OF CARBON MONOXIDE ALARMS.

## R317 PROTECTION OF WOOD AND WOOD-BASED PRODUCTS AGAINST DECAY

## R317.1 LOCATION REQUIRED

1. WOOD JOISTS OR THE BOTTOM OF A WOOD STRUCTURAL FLOOR WHERE CLOSER THAN 18 INCHES (457 MM) OR WOOD GIRDERS WHERE CLOSER THAN 12 INCHES (305 MM) TO THE EXPOSED GROUND IN CRAWL SPACES OR UNEXCAVATED AREA LOCATED WITHIN THE PERIPHERY OF THE BUILDING FOUNDATION.
2. WOOD FRAMING MEMBERS THAT REST ON CONCRETE OR MASONRY EXTERIOR FOUNDATION WALLS AND ARE LESS THAN 8 INCHES (203 MM) FROM THE EXPOSED GROUND.
3. SILLS AND SLEEPERS ON A CONCRETE OR MASONRY SLAB THAT IS IN DIRECT CONTACT WITH THE GROUND UNLESS SEPARATED FROM SUCH SLAB BY AN IMPERVIOUS MOISTURE BARRIER.

4. THE ENDS OF WOOD GIRDERS ENTERING EXTERIOR MASONRY OR CONCRETE WALLS WHERE THE GIRDERS ARE LESS THAN 1/2 INCH (12.7 MM) ON TOPS, SIDES AND ENDS.
5. WOOD SIDING, SHEATHING AND WALL FRAMING ON THE EXTERIOR OF A BUILDING HAVING A CLEARANCE OF LESS THAN 6 INCHES (152 MM) FROM THE GROUND OR LESS THAN 2 INCHES (51 MM) MEASURED VERTICALLY FROM CONCRETE SPIDS, PORCH SLABS, PATIO SLABS AND SIMILAR HORIZONTAL SURFACES EXPOSED TO THE WEATHER.

6. WOOD STRUCTURAL MEMBERS SUPPORTING MOISTURE-PERMEABLE FLOORS OR ROOFS THAT ARE EXPOSED TO THE WEATHER, SUCH AS CONCRETE OR MASONRY SLABS, UNLESS SEPARATED FROM SUCH FLOORS OR ROOFS BY AN IMPERVIOUS MOISTURE BARRIER.
7. WOOD FURRING STRIPS OR OTHER WOOD FRAMING MEMBERS ATTACHED DIRECTLY TO THE EXTERIOR OF EXTERIOR MASONRY WALLS OR CONCRETE WALLS BELOW GRADE EXCEPT WHERE AN APPROVED VAPOR RETARDER IS APPLIED BETWEEN THE WALL AND THE FURRING STRIPS OR FRAMING MEMBERS.

## R318 PROTECTION AGAINST SUBTERRANEAN TERMITES

## R318.1 SUBTERRANEAN TERMITE CONTROL METHODS

METHODS OF PROTECTION SHALL BE ONE OF ITEMS 1, 2 OR 3 AND ONE OF ITEMS 4, 5 OR 6.

1. CHEMICAL TERMICIDE, AS PROVIDED IN SECTION R318.2.
2. TERMITE-BAITING SYSTEM INSTALLED AND MAINTAINED ACCORDING TO THE PLANS.
3. PHYSICAL BARRIERS, AS PROVIDED IN SECTION R318.3 AND USED IN LOCATIONS AS SPECIFIED IN SECTION R317.1.
4. PRESSURE-PRESERVATIVE-TREATED STRUCTURAL WOOD IN ACCORDANCE WITH SECTION R317.1
5. COLD-FORMED STEEL FRAMING IN ACCORDANCE WITH SECTIONS R505.2.1 AND R603.2.1.
6. NATURALLY DURABLE TERMITE-RESISTANT WOOD AS APPROVED BY THE BUILDING OFFICIAL.

ENERGY CODE COMPLIANCE  
INTERNATIONAL ENERGY CODE 2018 - RESIDENTIAL PROVISIONS

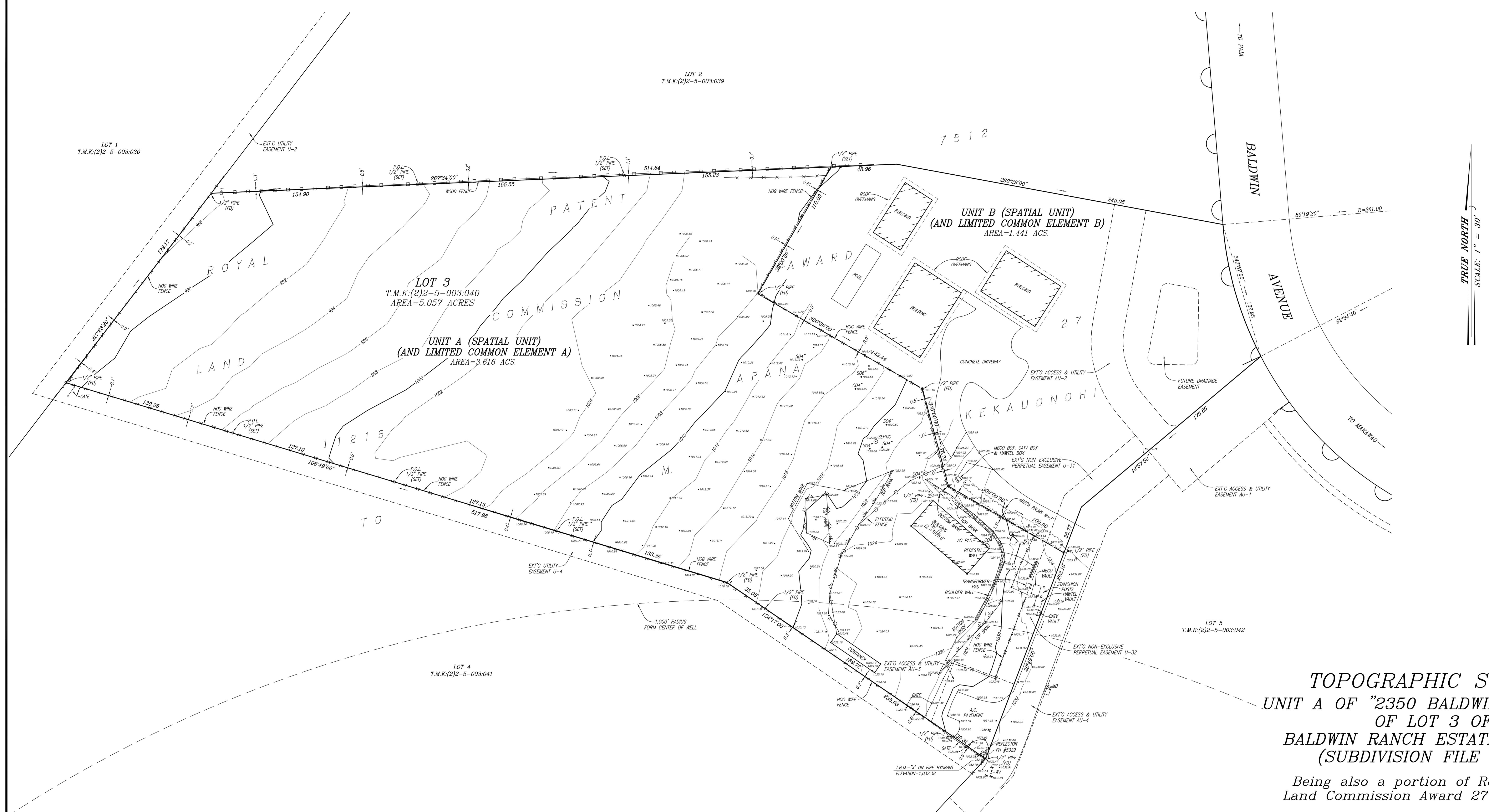
PROJECT IS LOCATED IN CLIMATE ZONE 1A

THIS PROJECT CHOOSES TO COMPLY WITH THE TROPICAL CLIMATE REGION OPTION

R401.2.4 TROPICAL CLIMATE REGION OPTION  
THE TROPICAL CLIMATE REGION OPTION REQUIRES COMPLIANCE WITH SECTION R407.

R407 TROPICAL CLIMATE REGION COMPLIANCE PATH

1. NOT MORE THAN ONE-HALF OF THE DWELLING UNIT IS AIR CONDITIONED.
2. THE OCCUPIED SPACE IS NOT HEATED.
3. SOLAR, WIND, OR OTHER RENEWABLE ENERGY SOURCE SUPPLIES NOT LESS THAN 90% OF THE ENERGY FOR SERVICE WATER HEATING.
4. GLAZING IN HABITABLE SPACES HAS A SHGC OF LESS THAN OR EQUAL TO 0.25 OR HAS AN OVERHANG WITH A PROJECTION FACTOR EQUAL TO 0.30.
5. PERMANENTLY INSTALLED LIGHTING IS IN ACCORDANCE WITH SECTION R404.
6. THE EXPOSED ROOF SURFACE... HAS AN INSULATION R-VALUE OF R-15 OR GREATER.
7. ROOF SURFACES HAVE A MINIMUM SLOPE OF 1/4 INCH PER FOOT OF RUN. THE FINISHED ROOF DOES NOT HAVE WATER ACCUMULATION AREAS.
8. OPERABLE FENESTRATION PROVIDES VENTILATION AREA EQUAL TO NOT LESS THAN 14% OF THE FLOOR AREA IN EACH ROOM.
9. BEDROOMS WITH EXTERIOR WALLS FACING TWO DIFFERENT DIRECTIONS HAVE OPERABLE FENESTRATION FACING TWO DIFFERENT DIRECTIONS.
10. INTERIOR DOORS TO BEDROOMS ARE CAPABLE OF BEING SWUNG TO THE OPEN POSITION.
11. A CEILING FAN, OR CEILING FAN ROUGH-IN, IS PROVIDED FOR BEDROOMS AND THE LARGEST SPACE THAT IS NOT USED AS A BEDROOM.
12. WALLS, FLOORS, AND CEILINGS SEPARATING AIR-COOLING SPACES FROM NON-AIR-COOLING SPACES SHALL BE CONSTRUCTED TO LIMIT AIR LEAKAGE IN ACCORDANCE WITH THE REQUIREMENTS IN R402.4.1.1.



*TOPOGRAPHIC SURVEY OF  
UNIT A OF "2350 BALDWIN CONDOMINIUM"  
OF LOT 3 OF THE  
BALDWIN RANCH ESTATES SUBDIVISION  
(SUBDIVISION FILE NO. 2.3261)*

*Being also a portion of Royal Patent 7512,  
Land Commission Award 27 to M. Kekauonohi*

*SITUATE AT*  
*HALIIMAILE, MAKAWAO, MAUI, HAWAII*

DATE: JULY 31, 2025 SCALE: 1" = 30'

*AMAI LAND SURVEYING, INC.*  
*P.O. BOX 1748*  
*MAKAWAO, MAUI, HAWAII 96768*

### *NOTES:*

1. *TOPOGRAPHIC INFORMATION SHOWN HEREON IS BASED ON AN ACTUAL FIELD SURVEY PERFORMED ON MARCH 22, 2023. & AGAIN ON JULY 25, 2025.*
2. *AZIMUTHS AND COORDINATES SHOWN HEREON REFER TO GOVERNMENT SURVEY TRIANGULATION STATION "AHUPAI"  $\Delta$ .*
3. *ELEVATIONS SHOWN HEREON ARE BASED ON A BRASS DISK @ SAINT JOSEPH CHURCH, ON STEPS FRONTING MAKAWAO AVE. ELEVATION TAKEN AS 1,638.52 FEET M.S.L.-L.T.D.*

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### LEGEND

<b>LEGEND</b>	
<input type="checkbox"/>	MECO MAUI ELECTRIC CO. BOX
<input type="checkbox"/>	HAWTEL HAWAIIAN TELEPHONE CO. BOX
<input type="checkbox"/>	CATV CABLE TELEVISION BOX
<input type="checkbox"/>	FH FIRE HYDRANT
<input type="checkbox"/>	MB MAILBOX
<input type="checkbox"/>	WV WATER VALVE
<input type="checkbox"/>	ICB IRRIGATION CONTROL BOX
<input type="radio"/>	CO4" CLEANOUT & DIAMETER
<input type="radio"/>	SO4" UTILITY STUBOUT & DIAMETER

*PROPERTY OWNER & ADDRESS:*

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2350 BALDWIN CONDO  
2350 BALDWIN AVENUE  
MAKAWAO, HI 96779

THE WORK WAS DONE BY ME OR

THIS WORK WAS DONE BY ME OR  
UNDER MY DIRECT SUPERVISION.

ER MY DIRECT SUPERVISION.

*[Handwritten signature]* 05 AUGUST 2025  
**FERMAN, DUDLEY, REBONTE**

**GERMAN DUDLEY DEPONTE**  
LICENCED PROFESSIONAL LAND SURVEYOR  
#100, 11111 104 Street, Edmonton, AB T5J 0C9

STATE OF HAWAII CERTIFICATE NO. 6960  
EXPIRATION DATE: 30 APRIL 2026

JOB NO. 225093-A

JOB NO. 333333 A

1	2	3	4	5	6																																																	
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12/31/2025 10:27:31 AM

# 1 ARCHITECTURAL SITE PLAN

1" = 30'-0" @ FULL SIZE

# 1 ARCHITECT

**LOT 3 - UNIT A  
MAIN FARM DWELLING  
(AREA = 3.616 ACRES)**

## 2 BOULDER WALL SECTION

## 3 STAIRS AT BOULDER WA

## **SITE PLAN GENERAL NOTES**

- A. GRADING AND FINISH FLOOR ELEVATION ARE BASED ON TOPOGRAPHIC SURVEY FROM AKAMAI LAND SURVEYING, INC., DATED APRIL 16, 2023.
- B. BARN AND STORAGE CONTAINER ARE SHOWN APPROXIMATE DUE TO CONSTRUCTION IN PROGRESS UNDER SEPARATE PERMIT. SPECIFIC BARN LOCATION TO BE VERIFIED BY CONTRACTOR.
- C. PROPOSED CONTOUR LINES ARE SHOWN FOR BASIS OF DESIGN ONLY. CONTRACTOR TO COORDINATE FINAL GRADES. GRADING SHALL SLOPE AND DRAIN AWAY FROM BUILDING, TYP.
- D. CONTRACTOR TO COORDINATE AND PROVIDE SOLAR HOT WATER HEATER SYSTEM PER HRS 196-6.6.

# OCEAN VIEW

BALDWIN

# AVENUE

**LOT 3 - UNIT B**  
**SECONDARY FARM DWELLING**  
**(AREA = 1.441 ACRES)**

This architectural site plan illustrates the layout of a residential property. The property features a proposed main dwelling (Permit # B2023-01657) with a gas firepit and a 4-foot gate. A 12-foot gate is located further down the property line. A gravel drive and path lead to the dwelling. A carport is situated near the dwelling. An existing barn (Permit # BX2022-00187) is shown with dimensions of APPROX. 108' - 0". A boulder wall (E) is located along the property line. The plan also shows a septic tank, a vault and transformer location, and various utility easements. A note indicates that existing storage is to be relocated outside of the setback and removed upon completion of construction. A callout F provides instructions to modify the fence to be perpendicular to the driveway and to provide a gate, see detail 4 on this sheet. A dimension of 112' - 9" is shown at the bottom. A north arrow and a true north indicator are also present.

FENCE

DRAIN FIELD AND WASTE LINES

SEPTIC TANK

GAS FIREPIT

4 FOOT GATE

12 FOOT GATE

PROPOSED MAIN DWELLING PERMIT # B2023-01657

EXISTING BARN PERMIT # BX2022-00187

APPROX. 108' - 0"

GRAVEL PATH

GRAVEL DRIVE

CARPORT

(E) BOULDER WALL

APPROX. 36' - 3"

PERMIT # BX2022-00188  
EXISTING STORAGE TO BE  
RELOCATED OUTSIDE OF SETBACK.  
STORAGE TO BE REMOVED UPON  
COMPLETION OF CONSTRUCTION.

MODIFY FENCE TO  
BE PERPENDICULAR  
TO DRIVEWAY.  
PROVIDE GATE, SEE  
DETAIL 4 THIS  
SHEET.

112' - 9"

EXISTING ACCESS & UTILITY EASEMENT

EXISTING ACCESS TO BALDWIN AVENUE (NO CHANGE PROPOSED)

EXISTING ACCESS & UTILITY EASEMENT

NON-EXCLUSIVE PERPETUAL EASEMENT

VAULT AND TRANSFORMER LOCATION

APPROX EXISTING FENCE LOCATION

ACCESS & UTILITY EASEMENT

EXISTING ACCESS & UTILITY EASEMENT

FIRE HYDRANT

TRUE NORTH

# ARCHITECTURAL SITE PLAN

# WORTHINGTON MAUI HOUSE

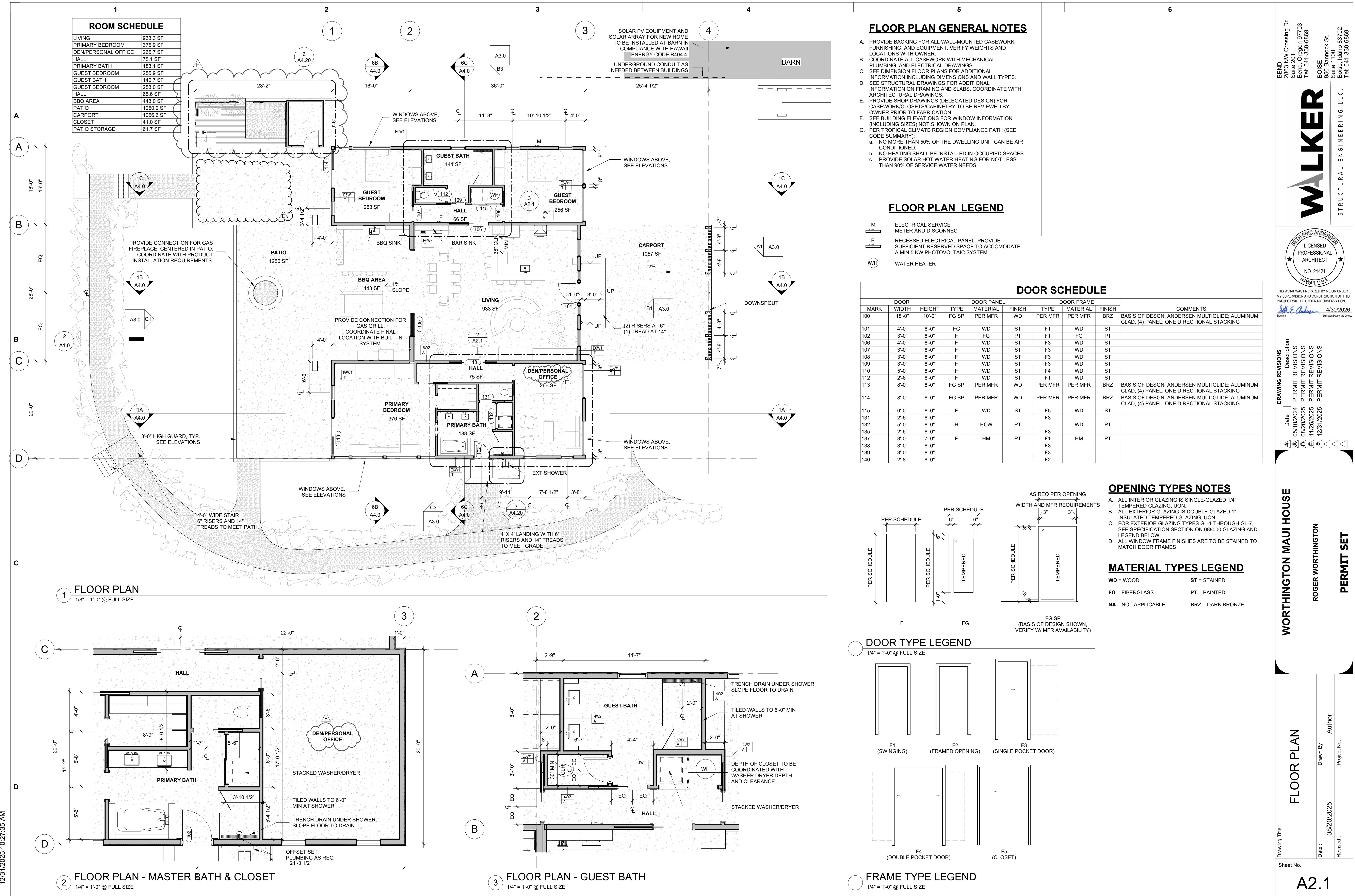
# WINGTON MAUI HOUSE

# WORTHINGTON MAUI HOUSE

2863 NW Crossing  
Suite 201  
Bend, Oregon 977

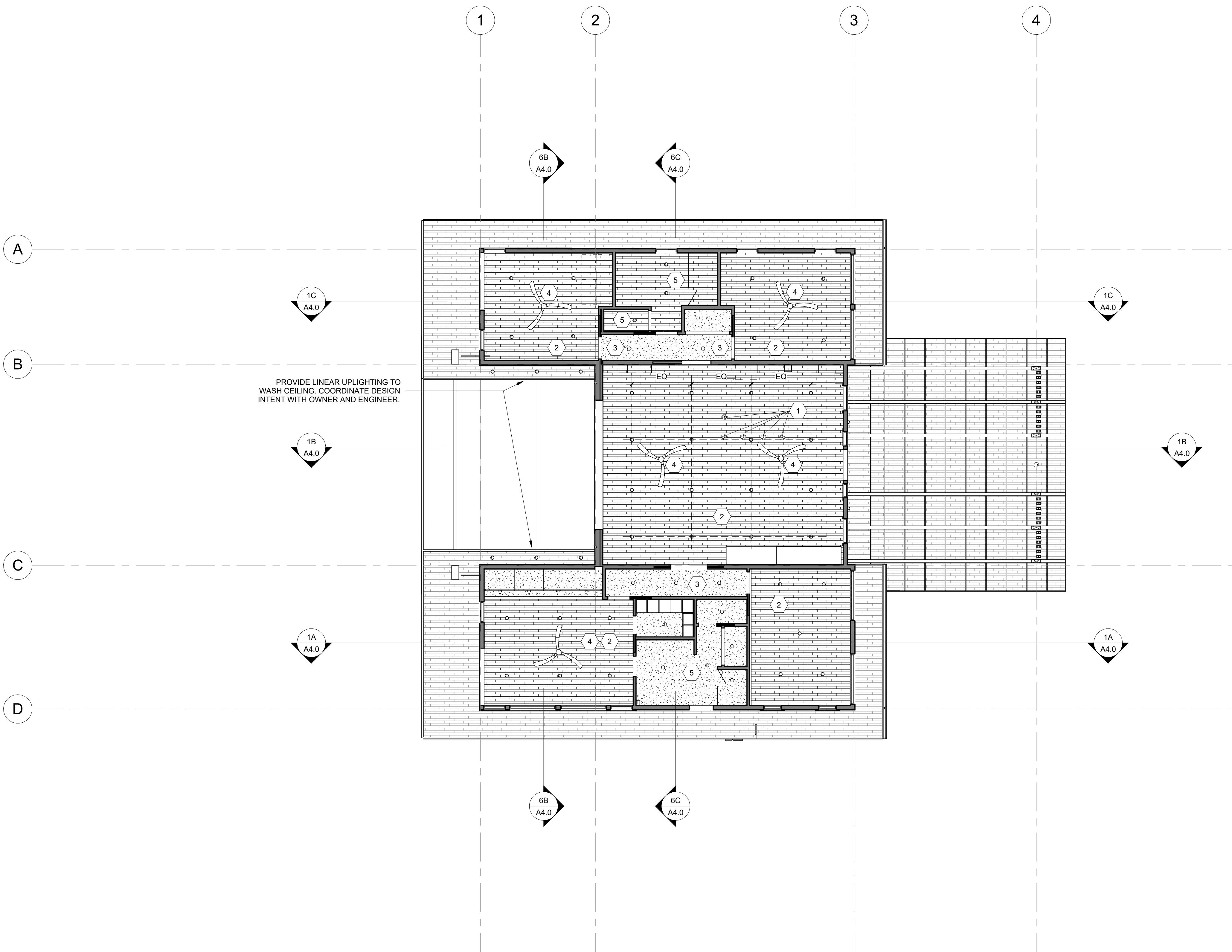
Drawing No. **ARC**

4





A



### REFLECTED CEILING PLAN NOTES

- A. CONTRACTOR TO VERIFY ALL LIGHTING AND DEVICE LOCATIONS IN THE FIELD.
- B. LIGHT FIXTURES SHOWN FOR QUANTITY AND LOCATION ONLY. CONTRACTOR TO VERIFY FIXTURE TYPE/DESIGN WITH OWNER AND ENGINEER PRIOR TO PURCHASING AND INSTALLING.

**WALKER**  
STRUCTURAL ENGINEERING LLC.

BEND 2863 NW Crossing Dr.  
Suite 201 Bend, Oregon 97703  
Tel: 541-530-6899

BOISE 950 Bannock St.  
Suite 1100 Boise, Idaho 83702  
Tel: 541-530-6899

SETH ERIC ANDERSON  
LICENSED PROFESSIONAL  
ARCHITECT  
NO. 21421  
MAUI, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER  
MY SUPERVISION AND CONSTRUCTION OF THIS  
PROJECT WILL BE UNDER MY OBSERVATION.

4/30/2026  
Signature  
Expiration Date of the license

DRAWING REVISIONS

Date: 11/26/2025

Description: PERMIT REVISIONS

**WORTHINGTON MAUI HOUSE**

ROGER WORTHINGTON

**PERMIT SET**

REFLECTED CEILING PLAN

Drawing Title:  
Sheet No.

Date: 08/20/2025  
Revised:

Drawn By: Author  
Project No.

**SHEET KEYNOTES - REFLECTED CEILING PLAN**

#

DESCRIPTION

1 DECORATIVE PENDANTS. COORDINATE FIXTURE SELECTION WITH OWNER/ENGINEER

2 PROVIDE SMOKE ALARM.

3 PROVIDE COMBINATION SMOKE ALARM AND CARBON MONOXIDE ALARM.

4 PROVIDE ENERGY STAR RATED FANS

5 BATH EXHAUST FAN. 50 CFM INTERMITTENT OR 20 CFM CONTINUOUS.



1

2

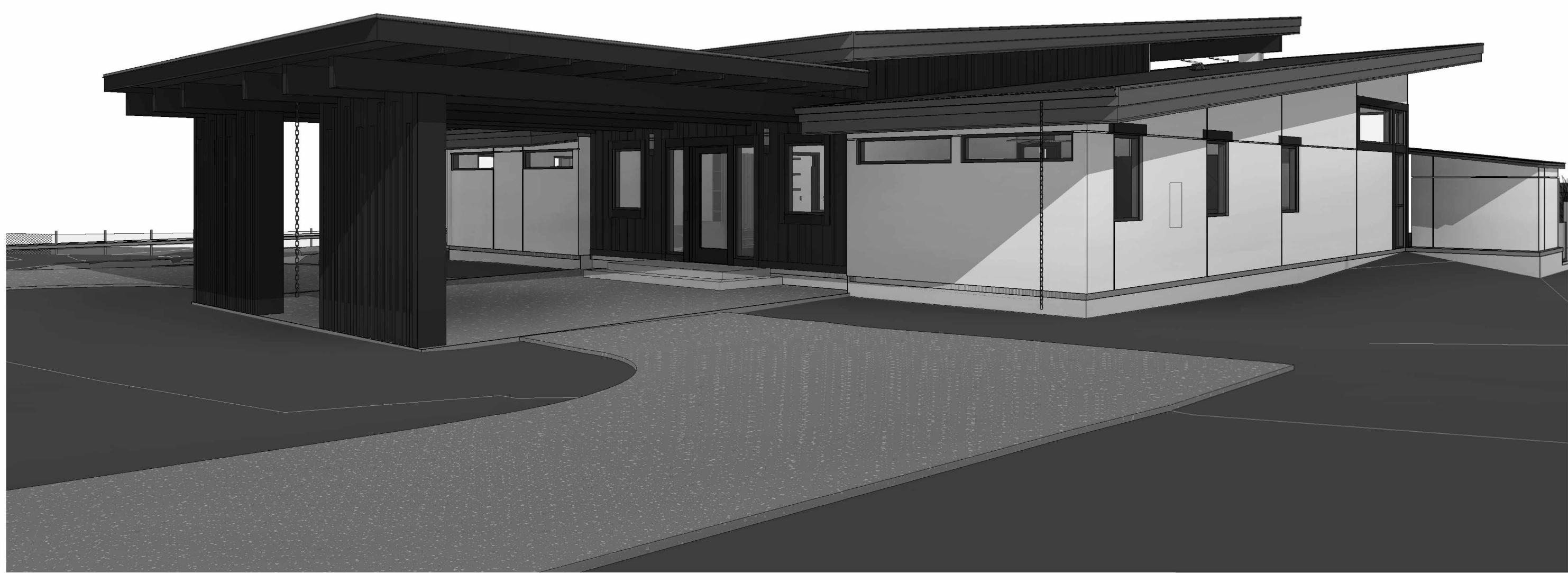
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4

5

6

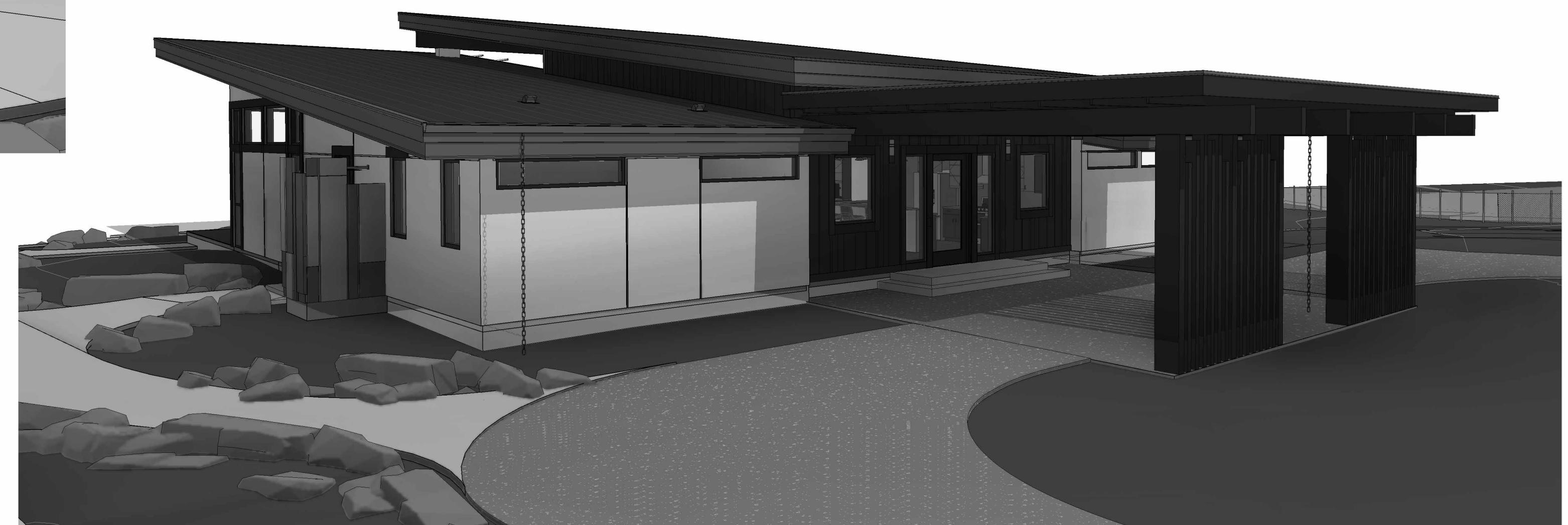
A



B



D



A3.1

## WORTHINGTON MAUI HOUSE

ROGER WORTHINGTON

PERMIT SET

## PERSPECTIVES

Drawing Title:

Drawn By:

Project No.:

Author:

Date:

Revised:

Sheet No.:

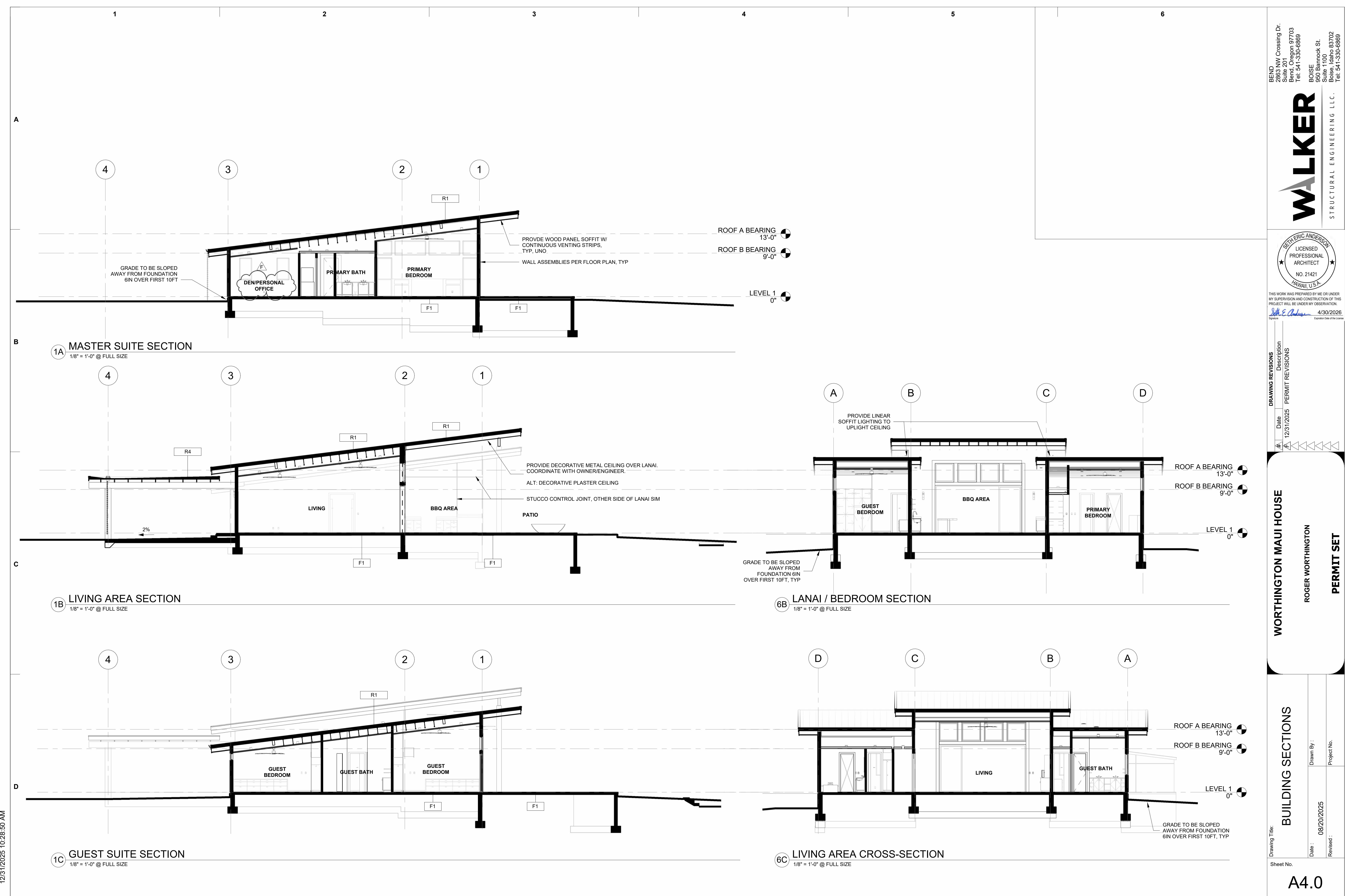
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Seth E. Anderson 4/30/2026

Signature Expiration Date of the license

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SETH ERIC ANDERSON  
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NO. 21421  
MAUI, U.S.A.





1 ELECTRICAL PLAN  
3/16" = 1'-0" @ FULL SIZE



### ELECTRICAL PLAN GENERAL NOTES

- A. COORDINATE ALL EQUIPMENT WITH POWER LOCATIONS SHOWN.
- B. PROVIDE SWITCH FOR EXHAUST FANS WHERE REQUERIED.
- C. ALL LIGHTING SHALL BE INSTALLED WITH A DIMMER OR AN OCCUPANT SENSOR CONTROL EXCEPT HALLWAYS AND EXTERIOR LIGHTING FIXTURES.
- D. IF TOTAL INSTALLED EXTERIOR LIGHTING POWER EXCEEDS 30 WATTS THEN THE LIGHTING SHALL COMPLY WITH THE FOLLOWING:
  - a. LIGHTING SHALL BE CONTROLLED BY A MANUAL ON AND OFF SWITCH WHICH PERMITS AUTOMATIC SHUT-OFF ACTIONS.
  - b. LIGHTING SHALL BE AUTOMATICALLY SHUT OFF WHEN DAYLIGHT IS PRESENT AND SATISFIES THE LIGHTING NEEDS.
  - c. CONTROLS THAT OVERRIDE AUTOMATIC SHUT-OFF ACTIONS SHALL NOT BE ALLOWED UNLESS THE OVERRIDE AUTOMATICALLY RETURNS AUTOMATIC CONTROL TO ITS NORMAL OPERATION WITHIN 24 HOURS.
- E. KITCHEN SINK DISPOSAL SHALL BE ON ITS OWN DEDICATED SWITCH MOUNTED ON ISLAND.
- F. "A" INDICATES ABOVE COUNTER OUTLETS.
- G. AT POWER LOCATIONS BEHIND CABINETRY, LOCATE OUTLET WITHIN TOE KICK.

### ELECTRICAL PLAN LEGEND

- RECESSED CEILING CAN LIGHT FIXTURE EXTERIOR RATED WHERE LOCATED OUTSIDE
- DECORATIVE PENDANT LIGHT FIXTURE - KITCHEN
- DECORATIVE PENDANT LIGHT FIXTURE - VANITY
- GFI DUPLEX - POWER RECEPTACLE (W/ GFI WHERE INDICATED)
  - A = ABOVE COUNTER
  - W/D = WASHER / DRYER OUTLET
- GFI QUAD - POWER RECEPTACLE (W/ GFI WHERE INDICATED)
  - A = ABOVE COUNTER
- S SWITCH
- S3 3-WAY SWITCH
- S SMOKE ALARM (PROVIDE COMBINATION SMOKE AND CARBON DIOXIDE MONITORING AT LOCATIONS IN HALLWAYS OUTSIDE BEDROOMS)
- Y CEILING FAN

ELECTRICAL PLAN  
Drawing Title: WORTHINGTON MAUI HOUSE  
Drawn By: ROGER WORTHINGTON  
Project No. 08/20/2025

ELECTRICAL PLAN  
Drawing Title: WORTHINGTON MAUI HOUSE  
Drawn By: ROGER WORTHINGTON  
Project No. 08/20/2025

PERMIT SET  
WORTHINGTON MAUI HOUSE  
ROGER WORTHINGTON

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Seth E. Anderson 4/30/2026  
Signature Expiration Date of the license

Drawing Title: E2.1  
Drawing No. 08/20/2025  
Revised: 08/20/2025  
Sheet No. 1

## DRAWING INDEX

S0.01	COVER SHEET
S0.02	GENERAL STRUCTURAL NOTES
S0.03	SPECIAL INSPECTION
S0.04	ABBREVIATIONS & SYMBOLS
S2.11	FOUNDATION/FLOOR PLAN
S2.21	ROOF FRAMING PLAN
S3.11	MAIN FLOOR SHEAR WALL PLAN
S3.02	SHEAR WALL DETAILS
S5.01	STRUCTURAL DETAILS - FOUNDATION
S6.01	STRUCTURAL DETAILS - FLOOR FRAMING
S6.02	STRUCTURAL DETAILS - FLOOR FRAMING

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**WALKER**  
STRUCTURAL ENGINEERING LLC.

THIS WORK WAS PREPARED BY ME  
OR UNDER MY SUPERVISION AND  
CONSTRUCTION OF THIS PROJECT  
WAS SUPERVISED AND OBSERVED  
BY ME OR MY STAFF.

Stamp  
Signature  
Date: 04/30/26  
Expiration Date:

## Worthington Residence (Maui)

## COVER SHEET

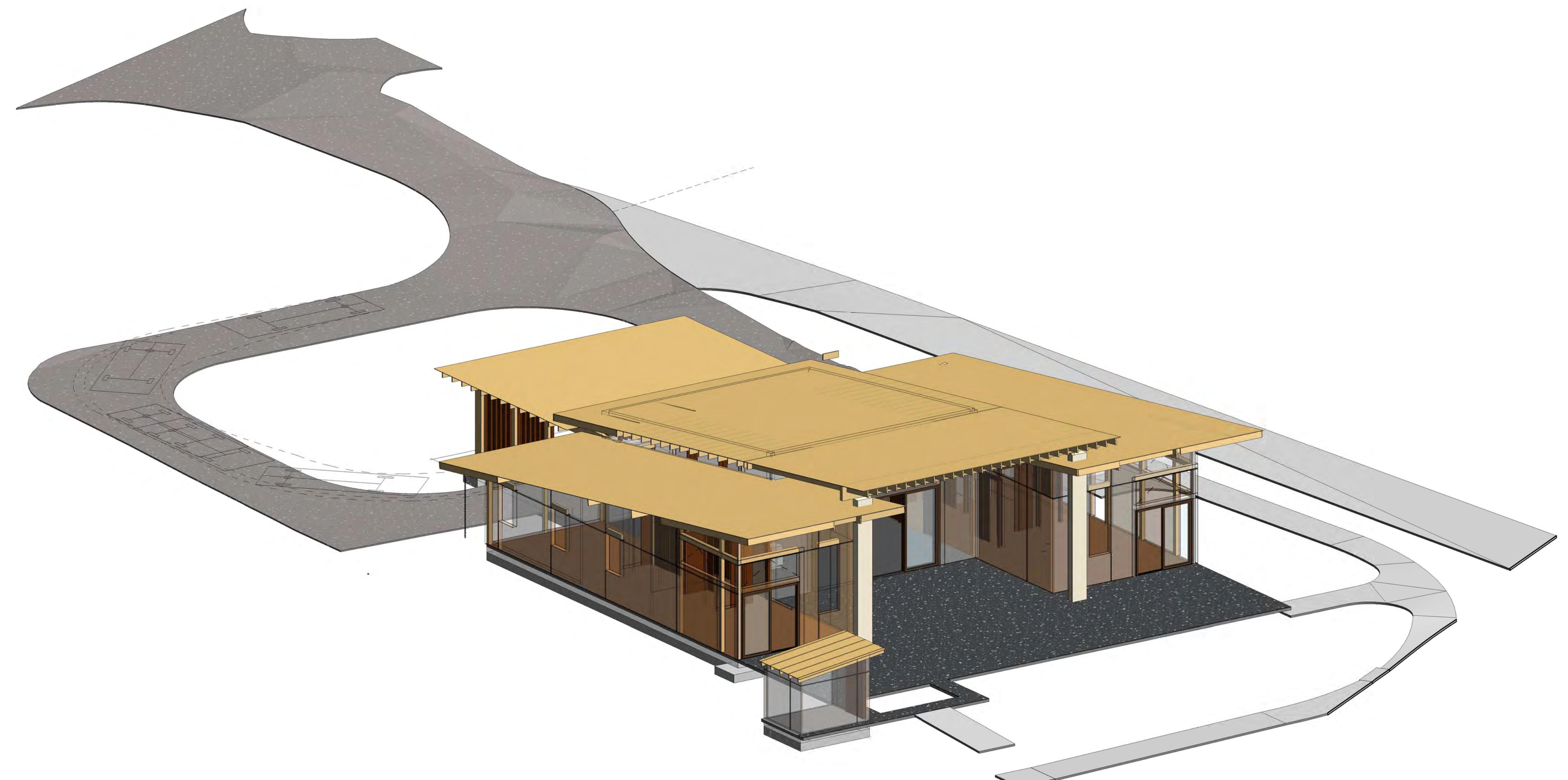
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Sheet No.

Date : 08/20/2025  
Revised :  
Project No. WSE JOB #23110

Drawn By: TF  
Drawing No.

MAUI, HAWAII

## PERMIT SET



A

B

C

D

**S0.01**

WSE Structural

# GENERAL STRUCTURAL NOTES

**GENERAL NOTES:**

- ALL CONSTRUCTION AND DESIGN SHALL CONFORM TO THE 2018 INTERNATIONAL BUILDING CODE AS AMENDED BY THE HAWAII STATE BUILDING CODE.
- THE STRUCTURAL DRAWINGS SHALL BE UTILIZED IN CONJUNCTION WITH OTHER DESIGN CONSULTANT'S DRAWINGS (ARCHITECTURAL, MECHANICAL, ETC.). IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE REQUIREMENTS OF THE DRAWINGS INTO THEIR SHOP DRAWINGS AND CONSTRUCTION.
- THE GENERAL STRUCTURAL NOTES ARE INTENDED FOR USE IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS. IN THE EVENT OF A CONFLICT BETWEEN THE TWO, THE GENERAL STRUCTURAL NOTES SHALL SUPERSEDE THE PROJECT SPECIFICATIONS. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER.
- CONSTRUCTION SCHEDULE AND METHODS:

  - A. THE STRUCTURAL DRAWINGS ARE INTENDED FOR THE STRUCTURE TO ACT AS A WHOLE ONCE CONSTRUCTION IS COMPLETE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE SAFETY AND STABILITY (I.E. TEMPORARY BRACING IF REQUIRED) DURING CONSTRUCTION AS A RESULT OF CONSTRUCTION METHODS AND SEQUENCES.
  - B. THE CONTRACTOR SHALL TAKE INTO ACCOUNT COLD WEATHER CONSTRUCTION AND THE EFFECTS OF THERMAL MOVEMENT DURING THE CONSTRUCTION SCHEDULE.
  - C. NON-CANTILEVERED OR RESTRAINED RETAINING WALLS SHALL NOT BE BACKFILLED UNTIL THE WALL HAS BEEN TIED INTO THE LOWER AND UPPER SLAB SUPPORTS UNLESS ADEQUATE ENGINEERED BRACING HAS BEEN APPROVED.

- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS. THE ARCHITECT AND/OR ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY BETWEEN THE EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS.
- SUBMITTALS: SUBMITTALS OF SHOP DRAWINGS, MILL TEST REPORTS, PRODUCT DATA FOR ITEMS AND BIDDER DESIGN ITEMS SHALL BE MADE TO THE ARCHITECT/ ENGINEER PRIOR TO FABRICATION AND CONSTRUCTION. BEFORE SUBMISSION TO THE ARCHITECT/ ENGINEER, THE CONTRACTOR SHALL REVIEW THE SUBMITTALS FOR COMPLETENESS, VERIFICATION OF DIMENSIONS AND QUANTITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL MARK THE SHOP DRAWING WITH ALL NECESSARY COMMENTS AND DETAILED REQUESTED INFO BEFORE FORWARDING TO THE ARCHITECT/ ENGINEER. SUBMITTALS SHALL BE MADE IN TIME TO PROVIDE A MINIMUM OF TWO WEEKS FOR REVIEW BY THE ARCHITECT/ ENGINEER.
- SHOP DRAWINGS FOR ALL STRUCTURAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT/ ENGINEER PRIOR TO FABRICATION AND CONSTRUCTION. SUCH ITEMS INCLUDE:

  - CONCRETE MIX DESIGNS, CONCRETE REINFORCING (INCLUDING MILL TEST REPORTS), EMBEDDED STEEL ITEMS, STRUCTURAL STEEL (INCLUDING MILL TEST REPORTS), GLUED-LAMINATED MEMBERS, PRE-MANUFACTURED ROOF TRUSSES, OPEN WEB WOOD JOISTS AND WOOD JOISTS.

SHOP DRAWINGS OR CONTRACTOR ENGINEERED DETAILS SHALL BEAR THE SEAL AND SIGNATURE OF A REGISTERED STRUCTURAL ENGINEER IN THE STATE OF OREGON IF IT DIFFERS FROM THE DESIGN OF THE STRUCTURAL DRAWINGS. ANY REVISION FROM THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED ALONG WITH SUPPORTING CALCULATIONS BEARING THE SEAL AND SIGNATURE OF A REGISTERED STRUCTURAL ENGINEER IN THE STATE OF OREGON TO THE ARCHITECT/ ENGINEER FOR REVIEW AND ACCEPTANCE.

C. CALCULATIONS, DESIGN DRAWINGS, AND SHOP DRAWINGS FOR THE DESIGN, FABRICATION AND CONSTRUCTION OF THE BIDDER DESIGN ITEMS SHALL BEAR THE SEAL AND SIGNATURE OF A REGISTERED STRUCTURAL ENGINEER IN THE STATE OF OREGON AND SHALL BE SUBMITTED TO THE ARCHITECT/ ENGINEER PRIOR TO FABRICATION. BIDDER DESIGN ITEMS FOR THIS PROJECT INCLUDE:

PRECAST CONCRETE, STARS, SUNSHADES/ PREMANUFACTURED AWNINGS, SKYLIGHTS, WINDOW WALLS, AND ALL OTHER GLAZING SYSTEMS.

CALCULATIONS AND BIDDER DESIGN DRAWINGS SHALL INCLUDE THE DESIGN, CONNECTION TO THE STRUCTURE, AND ACCOUNTING OF ANY LOCALIZED EFFECTS THE CONNECTIONS OR SYSTEMS MAY INDUCE ON THE STRUCTURE. ALL SUCH BIDDER DESIGNED ITEMS SHALL BE BASED ON THE DESIGN REQUIREMENTS AS SPECIFIED IN THE GENERAL STRUCTURAL NOTES.

7. DESIGN CRITERIA:

- A. CODE: 2018 INTERNATIONAL BUILDING CODE AS AMENDED BY THE HAWAII STATE BUILDING CODE.
- B. LOADS AND DESIGN CRITERIA: THE FOLLOWING LIVE LOADS AND CRITERIA WERE USED IN ADDITION TO THE DEAD LOAD OF THE STRUCTURE.

LIVE LOADS:

ROOF: GROUND SNOW LOAD.....NONE

SNOW EXPOSURE FACTOR.....NA

SNOW LOAD DURATION FACTOR.....NA

Thermal Factor.....Cl = 1.0

Roof Snow Load (Slopes < 1:12): 0 PSF (PLUS ADDED SNOW DRIFT IF SHOWN ON PLANS)

Soil Criteria: (NO REPORT, USE ASSUMED VALUES)

Footing (Frost) Depth.....NA

Allowable Soil Bearing Values

ON ENGINEERED FILL OR NATIVE SOILS.....1,500 PSF (W/ INCREASE FOR SHORT TERM LATERAL LOADS)

REINFORCING STEEL:

ACTIVE - UNRESTRAINED.....35 PCF (LEVEL BACKFILL)

ACTIVE - RESTRAINED.....50 PCF (LEVEL BACKFILL)

PASSIVE.....250 PSF/FT. BELOW NATURAL GRADE (ENGINEERED FILL OR NATIVE SOILS)

Friction Coefficient.....0.35 (ENGINEERED FILL OR NATIVE SOILS)

LATERAL CRITERIA:

RISK CATEGORY: I

WIND LOAD DESIGN PROCEDURE PER 2019 OSC:

ULT. DESIGN WIND SPEED, Vult (3-SEC GUST).....121 MPH

WIND EXPOSURE.....C

INTERNAL PRESSURE COEFFICIENT.....± 0.18

ULT. NET DESIGN WIND PRESSURE (PSF) FOR 10 ft<sup>2</sup>

COMPONENTS AND CLADDING DESIGN

PRESSURE NOTES:

1. LOADS SHALL BE IN EITHER DIRECTION

NOMAL TO SURFACE

2. REFER TO FIGURE 30.4-1 ASCE 7-16

FOR ZONES

3. FLAT, HT=30°, ADJ. FACTOR = 1.4

CONCRETE AND REINFORCING STEEL:

1. CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318-14 AND THE 2018 INTERNATIONAL BUILDING CODE AS AMENDED BY THE HAWAII STATE BUILDING CODE.

2. THE MINIMUM 28 DAY CONCRETE STRENGTH SHALL BE AS FOLLOWS:

(NOMAL TO SURFACE).....3000 PSI (W/ 10% FOR FROST)

CONCRETE MIX DESIGNS, ALONG WITH TEST DATA AS REQUIRED, BY ACI 318-14, SECTION 26.4, SHALL BE SUBMITTED TO THE ARCHITECT/ ENGINEER FOR REVIEW A MINIMUM OF TWO WEEKS PRIOR TO CONCRETE POURS.

4. SPECIFIED CONCRETE STRENGTHS SHALL BE VERIFIED BY STANDARD 28-DAY CYLINDER TESTS PER ASTM C39, WHEN AND WHERE SPECIAL INSPECTION IS REQUIRED.

5. A 20% MAXIMUM OF THE CEMENT CONTENT MAY BE SUBSTITUTED WITH FLYASH CONFORMING TO ASTM C618, TYPE F OR C. HIGHER PERCENTAGE OF FLYASH MAY BE APPROVED BY THE STRUCTURAL ENGINEER. ANY CONCRETE MIX UTILIZING FLYASH SHALL BE VERIFIED WITH TEST DATA.

6. ADDITIONAL WATER SHALL NOT BE ADDED TO THE CONCRETE MIX AT THE JOBSITE. WATER REDUCING ADMIXTURES CONFORMING TO ASTM C494 MAY BE UTILIZED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

7. IF CONCRETE IS TO BE Poured AGAINST AN EXISTING CONCRETE SURFACE, THE EXISTING SURFACE SHALL BE CLEANED AND ROUGHENED TO A 1/4" AMPLITUDE.

8. SLEEVES, OPENINGS, CONDUITS, AND OTHER EMBEDDED ITEMS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER.

BEFORE POURING, CONDUITS EMBEDDED IN SLABS SHALL NOT BE LABELED ON SIDE OF SLAB THAN ONE THIRD THE THICKNESS OF THE SLAB AND SHALL NOT BE LABELED ON THE OTHER SIDE OF SLAB THAN ONE THIRD THE THICKNESS OF THE SLAB.

9. SHORING AND RESHORING:

SHORING AND RESHORING SHALL CONFORM TO ACI 347.2 R-17. SHORING AND SUPPORTING FORMWORK SHALL NOT BE REMOVED FROM HORIZONTAL MEMBERS BEFORE CONCRETE STRENGTH IS AT LEAST 70 PERCENT OF DESIGN STRENGTH, AS DETERMINED BY FABRICATED CYLINDERS. IN ADDITION, SHORING SHALL NOT BE REMOVED SOONER THAN RECOMMENDED BY ACI 347.2 R-17. FORMWORK SHALL NOT BE REMOVED IN LESS THAN 10 (10) DAYS.

10. REINFORCING STEEL:

A. REINFORCING STEEL SHALL BE DETAILED, FABRICATED, AND INSTALLED ACCORDING TO THE "MANUAL OF STANDARD PRACTICE OF REINFORCED CONCRETE CONSTRUCTION" BY THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI).

B. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.

C. SMOOTH BARS OR WELDED WIRE FABRIC SHALL CONFORM TO ASTM A106.

D. REINFORCING STEEL REQUIRED FOR WELDING WITHIN A SPECIFIED BOUNDARY ELEMENT OR MOMENT FRAME ELEMENT SHALL CONFORM TO WELDABLE ASTM A706.

E. ALL LAP SPACES OF REINFORCEMENT SHALL CONFORM TO CLASS B LAPS AS SHOWN ON THE LAP SPLICING SCHEDULE, UNLESS NOTED OTHERWISE.

F. ANY MECHANICAL SPLICES SHOWN SHALL BE MADE WITH DAYTON BAR-GRIP COUPLERS OR WITH AN APPROVED PRODUCT SUBMITTED TO THE ENGINEER FOR RECORD WITH AN CBO REPORT.

G. UNLESS NOTED OTHERWISE, REINFORCING STEEL SHALL HAVE THE MINIMUM COVER OR PROTECTION FOR THE FOLLOWING USES AS NOTED BELOW:

BEAMS, JOISTS, AND COLUMNS.....1-1/2" (TO TIES OR STIRRUPS)

SLABS.....1"

WALLS.....INTERIOR FACES 3/4"

EXPOSED TO EARTH OR WEATHER 1-1/2" (H5 BARS AND SMALLER)

2" (H6 BARS AND LARGER)

FOOTINGS.....3"

11. CONCRETE WALLS:

A. PROVIDE THE MINIMUM WALL REINFORCING AS SHOWN BELOW UNLESS NOTED OTHERWISE ON PLANS OR DETAILS:

WALL THICKNESS.....REINFORCING

6".....#4 VERT. @ 18° O.C. & #4 HORIZ. @ 16° O.C. @ C OF WALL

8".....#4 VERT. @ 18° O.C. & #4 HORIZ. @ 12° O.C. @ C OF WALL

B. HOOKED DOWELS FROM FOUNDATIONS SHALL BE PROVIDED TO MATCH VERTICAL WALL REINFORCING.

C. DOWELS FOR HOOKING SLAB REINFORCEMENT INTO WALLS SHALL BE PLACED IN LAYERS OF REINF. IN BOTH DIRECTIONS & (1) #5 BAR IN WALLS HAVING SINGLE LAYER OF REINF. IN EACH DIRECTION. ON ALL SIDES OF SLAB AND WALL OPENINGS PENDANT 36° BEYOND OPENING. PROVIDE (1) OR (2) 4" LONG DIAGONAL #5 BARS AT EACH CORNER OF THE OPENING MATCHING THE LAYERS OF REINFORCING.

12. ADDITIONAL CONCRETE ITEMS:

A. HEADED SHEAR STUDS AND DEFORMED BAR ANCHORS SHALL BE AN APPROVED NELSON PRODUCT OR APPROVED EQUAL.

B. EXPANDED METAL EXPANSION SPANDEX BOLTS SHALL BE KNOB-BOLT-T2 OR AN APPROVED EQUAL APPROVED WITH LTB REPORTS TO THE ENGINEER FOR REVIEW.

C. EPOXY ANCHORS OR DOWELS SHALL BE INSTALLED WITH Hilti HIT-RE 500-V3 EPOXY ADHESIVE. AN APPROVED EQUAL IN CRACKED OR UNCRACKED CONCRETE WITH ICC REPORTS MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

D. UNLESS NOTED OTHERWISE, PERMANENTLY EXPOSED EMBEDDED PLATE AND ANGLE ASSEMBLIES SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION. WELDS OR LOADS SHALL NOT BE PLACED ON THE EMBEDDED ASSEMBLIES FOR A MINIMUM OF (7) DAYS AFTER CASTING IN CONCRETE.

E. REINFORCING STEEL SHALL BE SECURED IN FORMS WITH SUITABLE TIES AND ANCHORAGE TO PREVENT DISPLACEMENT. BARS ADJACENT TO EARTH SHALL BE SUPPORTED BY CEMENT MORTAR CUBES.

F. REINFORCING STEEL SHALL NOT BE DISPLAYED FOR THE CONVENIENCE OF OTHER TRADES UNLESS APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.

G. "WET SETTING" OF REINFORCEMENT, ANCHOR BOLTS AND INSERTS IS NOT PERMITTED.

CONCRETE REINFORCING LAP SPLICING SCHEDULE			
BAR SIZE	FC = 3,000 psi		
	CASE 1	CASE 2	CASE 1
#3	28	42	22
#4	37	56	29
#5	47	70	36
#6	56	84	43
#7	81	122	63
#8	93	139	72
#9	105	157	81
#10	118	177	91
#11	131	196	101

LAP SPLICING SCHEDULE NOTES:	
1. LAP LENGTHS ARE IN INCHES AND ARE BASED ON GRADE 60 REINFORCING STEEL AND NORMAL WEIGHT CONCRETE.	
2. WHERE CLASS A LAP SPICES ARE NOTED IN THE PLANS OR DETAILS, DIVIDE THE TABULATED VALUES BY 1.3	
3. FOR LIGHTWEIGHT AGGREGATE CONCRETE, MULTIPLY THE TABULATED VALUES BY 1.3	
4. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.	
5. CASES 1 AND 2 ARE DEFINED AS FOLLOWS:	
CASES OR COLUMNS:	
CASE 1: COVER AT LEAST 1.0 DB AND C.C. SPACING AT LEAST 2.0 DB (WHERE DB = BAR DIAMETER).	
CASE 2: COVER LESS THAN 1.0 DB OR C.C. SPACING LESS THAN 2.0 DB.	
ALL OTHERS:	
CASE 1: COVER AT LEAST 1.0 DB AND C.C. SPACING AT LEAST 3.0 DB.	
CASE 2: COVER LESS THAN 1.0 DB OR C.C. SPACING LESS THAN 3.0 DB.	

## STRUCTURAL STEEL

1. STEEL DESIGN, FABRICATION, AND ERECTION SHALL CONFORM WITH "AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" AND THE "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".

2. THE GRADE AND SPECIFICATION OF THE STEEL MEMBERS SHALL BE AS FOLLOWS:

WIDE FLANGE SHAPES, BRACED FRAME GUSSET PLATES WIDE FLANGE SHAPES AS PART OF THE LATERAL FORCE RESISTING SYSTEM

ASTM A572 GRADE 50 WIDE FLANGE SHAPES AS PART OF THE LATERAL FORCE RESISTING SYSTEM

ASTM A592 GRADE 50 CHANDELIER PLATES, BOL

A

**SPECIAL INSPECTIONS:**

1. THE ITEMS NOTED SHALL BE INSPECTED IN ACCORDANCE WITH 2018 IBC CHAPTER 17 BY A CERTIFIED SPECIAL INSPECTION FROM AN ESTABLISHED TESTING AGENCY. FOR MATERIAL SAMPLING AND TESTING REQUIREMENTS, REFER TO THE MATERIAL SAMPLING AND TESTING SECTION, THE PROJECT SPECIFICATIONS, AND THE SPECIFIC GENERAL NOTES SET OUT IN THE TESTING AGENCY'S SCOPE. SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE ARCHITECT, ENGINEER, CONTRACTOR, AND BUILDING OFFICIAL. ANY MATERIALS WHICH FAIL TO MEET THE PROJECT SPECIFICATIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
2. SPECIAL INSPECTION TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGNED COMPONENTS. SPECIAL INSPECTION IS NOT REQUIRED FOR WORK PERFORMED BY AN APPROVED FABRICATOR PER 2018 IBC SECTION 1704.2.5.1.
3. CONTINUOUS SPECIAL INSPECTION MEANS THAT THE SPECIAL INSPECTOR IS ON SITE AT ALL TIMES OBSERVING THE WORK REQUIRING SPECIAL INSPECTION PER 2018 IBC 17. PERIODIC SPECIAL INSPECTION MEANS THAT THE SPECIAL INSPECTOR IS ON SITE AT TIME INTERVALS NECESSARY TO CONFIRM THAT ALL WORK REQUIRING SPECIAL INSPECTION IS IN COMPLIANCE.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION, SCHEDULING AND TIMELY NOTIFICATION OF THE DESIGNATED SPECIAL INSPECTOR PRIOR TO ALL WORK REQUIRING SPECIAL INSPECTION.

SYSTEM or MATERIAL	INSPECTION			REMARKS
	IBC CODE REFERENCE	CODE or STANDARD REFERENCE	FREQUENCY	
			Continuous	Periodic
<b>FABRICATORS</b>				
FABRICATORS	1704.2.5			X
<b>STEEL</b>				
FABRICATION OF STRUCTURAL ELEMENTS	1704.2.5			X
MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD FORMED STEEL DECK	1705.2 2203.1	ASTM A6 ASTM STANDARDS SPECIFIED IN CONSTRUCTION DOCUMENTS AISC 360 A3.1 AISC 360 M5.5		X
MATERIAL VERIFICATION OF HIGH STRENGTH BOLTS, NUTS, AND WASHERS	1705.2.1.1	ASTM STANDARDS SPECIFIED IN CONSTRUCTION DOCUMENTS AISC 360 A4		X
MATERIAL VERIFICATION OF ANCHOR BOLTS AND THREADED RODS	1705.2	ASTM STANDARDS SPECIFIED IN CONSTRUCTION DOCUMENTS AISC 360 A5		X
MATERIAL VERIFICATION OF WELD FILLER METALS	1705.2.2.1	ASTM STANDARDS SPECIFIED IN CONSTRUCTION DOCUMENTS AISC 360 A5 APPLICABLE AWS AS DOCUMENTS		X
VERIFYING USE OF PROPER WPS'S				X
VERIFYING WELDER QUALIFICATIONS				X
SINGLE PASS FILLET WELDS LESS THAN OR EQUAL TO 5/16"	1705.2.2.1 TABLE 1705.2	AWS D1.1, SECTION 6		X
WELDING STAIR AND RAILING SYSTEMS	TABLE 1705.2	AWS D1.1 SECTION 6		X
<b>POST INSTALLED CONCRETE ANCHORS</b>				
INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE	1909.1	ICC EVALUATION REPORT ACI 318: 3.8.6, 8.1.3, 21.1.8		X

**SPECIAL INSPECTIONS FOR WIND RESISTANCE**

PER AMENDED 2018 IBC 1705.11.1 - COMPLETE LOAD PATH AND UPLIFT TIES

SPECIAL INSPECTION IS REQUIRED FOR METAL CONNECTORS, ANCHORS, OR FASTENERS FOR WOOD AND COLD-FORMED STEEL CONSTRUCTION AT THE FOLLOWING LOCATIONS: ROOF RIDGES, ROOF RAFTERS TO REAM OR WALL SUPPORTS, REAMS TO POSTS, POSTS OR WALLS TO FLOOR FRAMING OR FOUNDATION BELOW, GROUND ANCHORS, AND ALL OTHER CONNECTIONS THAT ARE PART OF THE LOAD PATH TO RESIST UPLIFT FORCES.

CONTINUOUS SPECIAL INSPECTION IS REQUIRED DURING FIELD GLUING OPERATIONS OF ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM.

THE SPECIAL INSPECTOR NEED NOT BE PRESENT DURING THE INSTALLATION OF ALL OF THE CONNECTORS, PROVIDED THAT THE SPECIAL INSPECTOR VERIFIES THAT ALL OF THE CONNECTORS ARE INSTALLED IN CONFORMANCE WITH THE REQUIREMENTS OF THIS CODE.

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Stamp  
JON L. WALKER  
LICENSED PROFESSIONAL  
ENGINEER No. 14440-S  
HAWAII, U.S.A.  
\* \* \* \* \*  
THIS WORK WAS PREPARED BY ME  
OR UNDER MY SUPERVISION AND  
CONSTRUCTION OF THIS PROJECT  
WAS SUPERVISED BY ME.  
Signature: *okw*  
Expiration Date: 04/30/26

**WORTHINGTON MAUI HOUSE**  
BALDWIN AVENUE  
HALIMALE, MAKAWAO, MAUI, HAWAII  
ROGER WORTHINGTON  
**PERMIT SET**

Drawing Title: **SPECIAL INSPECTION**

Sheet No.

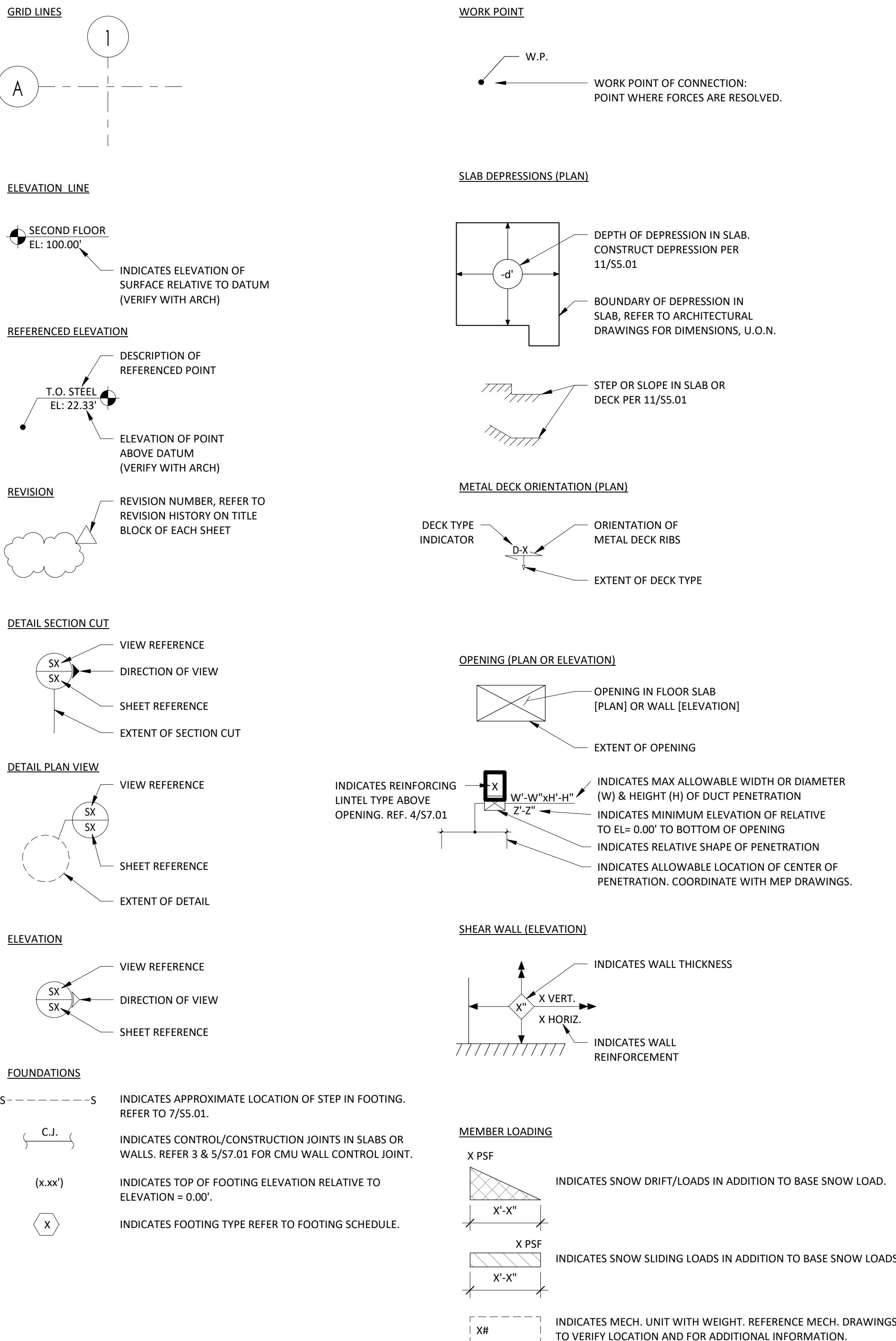
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Date: 08/20/2025  
Revised: -

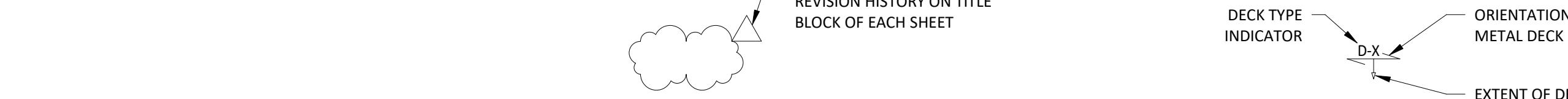
Drawn By: MIS/ED  
Project No. WSE JOB #23110

A

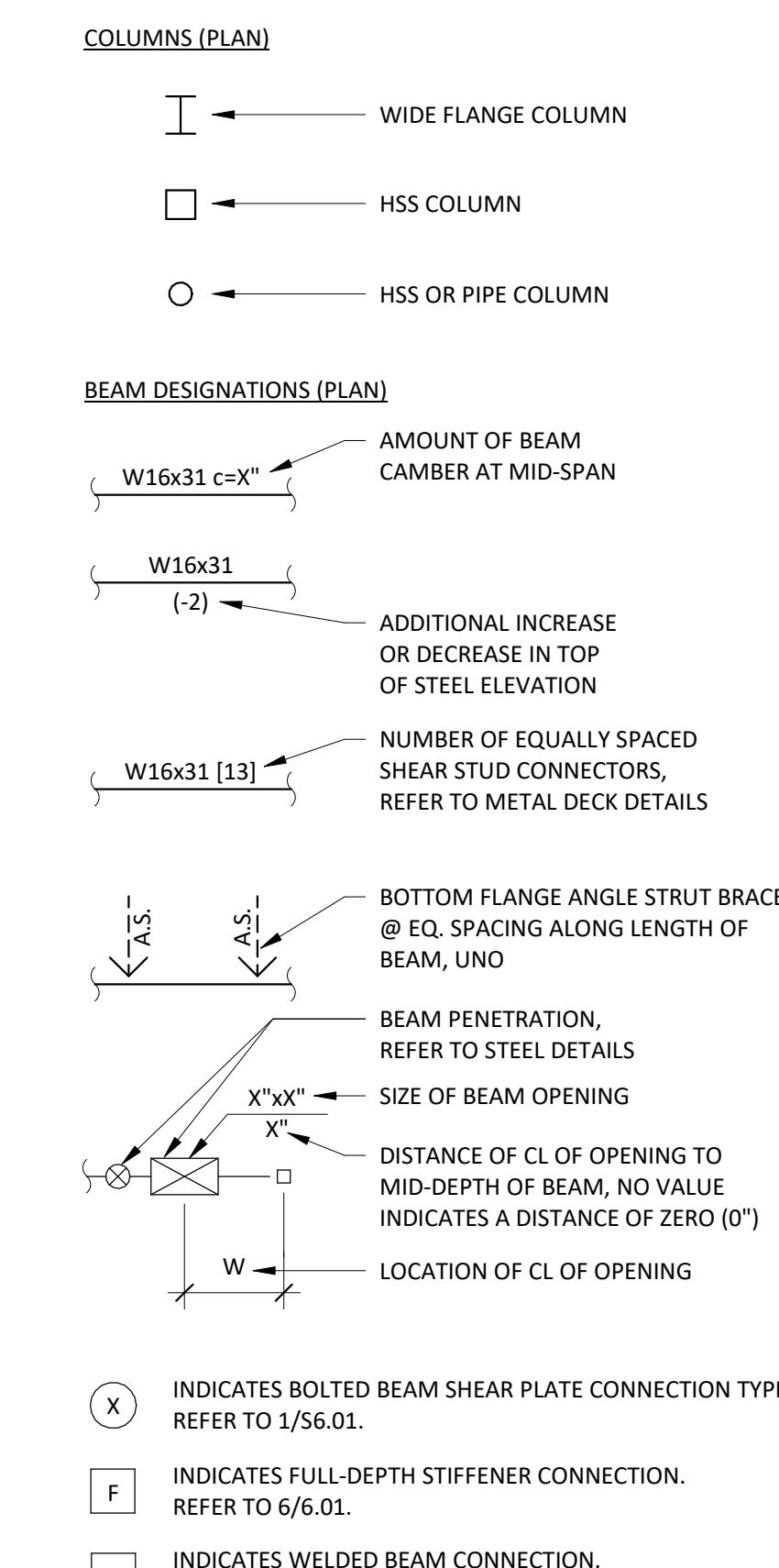
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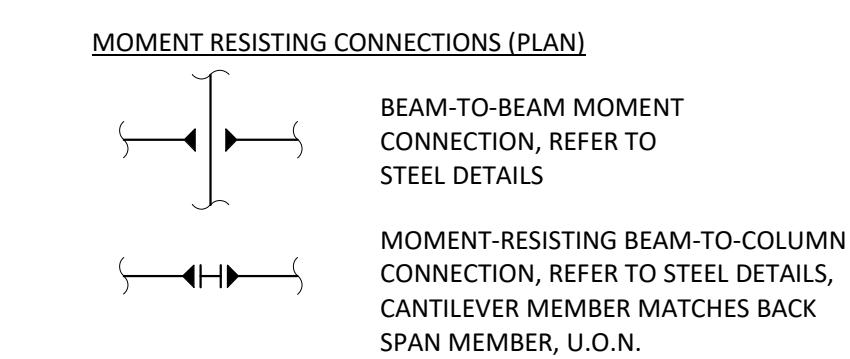
B



C



D



## ABBREVIATIONS

# & @	NUMBER OR POUNDS AND AT	L OR 2L	ANGLE OR DOUBLE ANGLE
AB	ANCHOR BOLT	LB	CELLULAR BEAM
ADD'L	ADDITIONAL	LD	DEVELOPMENT LENGTH
ADJ	ADJACENT	LLH	LONG LEG HORIZONTAL
ALT	ALTERNATE	LLV	LONG LEG VERTICAL
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	LOC	LOCATION
AOR	ARCHITECT OF RECORD	LONG	LONGITUDINAL
APPROX	APPROXIMATE	LP	LOW POINT
ARCH	ARCHITECTURAL DOCUMENTS	LS	LAP SPLIC
ASC	AREA OF STEEL COR	LSH	LONG SIDE HORIZONTAL
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS	LSV	LONG SIDE VERTICAL
AWG	AMERICAN WIRE GAUGE	LSL	LAMINATED STRAND LUMBER (TIMBER STRAND)
AWS	AMERICAN WELDING SOCIETY	LT	LIGHT
BF	BRACED FRAME	LVF	LOW-VELOCITY FASTENER
BLDG	BUILDING	LVL	LAMINATED VENEER LUMBER (MICROLAM)
BKG	BLOCKING		
BM	BEAM		
BO	BOTTOM OF		
BTM	BOTTOM		
BRB	BUCKLING RESTRAINED BRACE		
BRBF	BUCKLING RESTRAINED BRACED FRAME		
C	CHANNEL (AMERICAN STANDARD)	M	MISCELLANEOUS SHAPE
CDF	CONTROLLED DENSITY FILL	MAX	MAXIMUM
CG	CENTER OF GRAVITY	MB	MACHINE BOLT
CIP	CAST-IN-PLACE	MC	CHANNEL (OTHER THAN AMERICAN STANDARD)
CJ	CONSTRUCTION JOINT OR CONTROL JOINT	MECH	MECHANICAL
CUP	COMPLETE JOINT PENETRATION	MEP	MECHANICAL, ELECTRICAL, PLUMBING DOCUMENTS
CL	CENTERLINE	MF	MOMENT FRAME
CLR	CLEAR	MFR	MANUFACTURER
CMU	CONCRETE MASONRY UNIT	MIN	MINIMUM
COL	COLUMN	MISC	MISCELLANEOUS
CONC	CONCRETE	M.O.	MASONRY OPENING
CONN	CONNECTION	MTL	METAL
CONT	CONTINUOUS		
CP	COMPLETE PENETRATION		
d	PENNY (NAIL SIZE) or REINFORCING BAR DIAMETER	N	NORTH
DBA	DEFORMED BAR ANCHOR	(N)	NEW
DBL	DOUBLE	N.F.	NEAR FACE
DEMO	DEMOLITION or DEMOLISH	NIC	NOT IN CONTRACT
DIA	DIAMETER	NO	NUMBER
DIAG	DIAGONAL	NOM	NOMINAL DIAMETER
DIM	DIAMENSION	NS	NEAR SIDE
DIST	DISTANCE	NTS	NOT TO SCALE
DN	DOWN	OC	ON CENTER
do	DITTO OR REPEAT	OD	OUTSIDE DIAMETER (DIM.)
		OPP	OPPOSITE HAND
		OWJ	OPEN WEB JOIST
		PAF	POWER ACTUATED FASTENER
		PC, PCS	PIECE, PIECES
		PDF	POWER DRIVEN FASTENER
		PERP	PERPENDICULAR
		PL	PLATE
		PLF	POUNDS PER LINEAR FOOT
		PP	PARTIAL PENETRATION
		PR	PAIR
		PSI	POUNDS PER SQUARE FOOT
		PSF	POUNDS PER SQUARE INCH
		PSL	PARALLEL STRAND LUMBER (PARALLAM)
		PNT	POINT
		PT	PRESSURE-TREATED or POST TENSIONED
		R or RAD.	RADIUS
		R.A.D.	REF. ARCH. DOCUMENTS
		REBAR	REINFORCING BAR
		REF	REFER TO, REFERENCE
		REQ'D	REQUIRED
		RET	RETURN
		REV	REVISE or REVISION
		RO	ROUGH OPENING
		SC	SLIP CRITICAL
		SIM	SIMILAR
		SMS	SLASH METAL SCREW
		SOG	SLAB-ON-GRADE
		SOMD	SLAB-ON-METAL DECK
		SPEC	SPECIFICATION
		SQ	SQUARE
		SS or SST	STAINLESS STEEL
		STD	STANDARD
		STL	STEEL
		STRUCT	STRUCTURAL
		T	TON, TONS
		T&B	TOP AND BOTTOM
		T&G	TONGUE AND GROOVE
		THRU	THROUGH
		T.O.	TOP OF
		T.OC	TOP OF CONCRETE
		T.O.M.	TOP OF MASONRY
		T.O.S.	TOP OF STEEL
		T.O. SLAB	TOP OF STRUCTURAL SLAB
		TRANS	TRANSVERSE
		Typ	Typical
		UNO	UNLESS NOTED OTHERWISE
		URM	UNREINFORCED MASONRY
		VERT	VERTICAL
		VIF	VERIFY IN FIELD
		W or WF	WIDE FLANGE
		W/	WITH
		W/O	WITHOUT
		WD	WOOD
		WP	WORK POINT
		WSE	WALKER STRUCTURAL ENGINEERING
		WT	STRUCTURAL TEE (CUT FROM WIDE FLANGE)
		WWF	WELDED WIRE FABRIC
		XS	EXTRA STRONG (STRUCTURAL PIPE)
		XXS	DOUBLE-EXTRA STRONG (STRUCTURAL PIPE)

(CONTINUED ==&gt;)

## ABBREVIATIONS &amp; SYMBOLS

Drawing title:

Date:

Revised:

Project No.:

WSE Job #23110

## Worthington Residence (Maui)

MAUI, HAWAII

## PERMIT SET

BEND  
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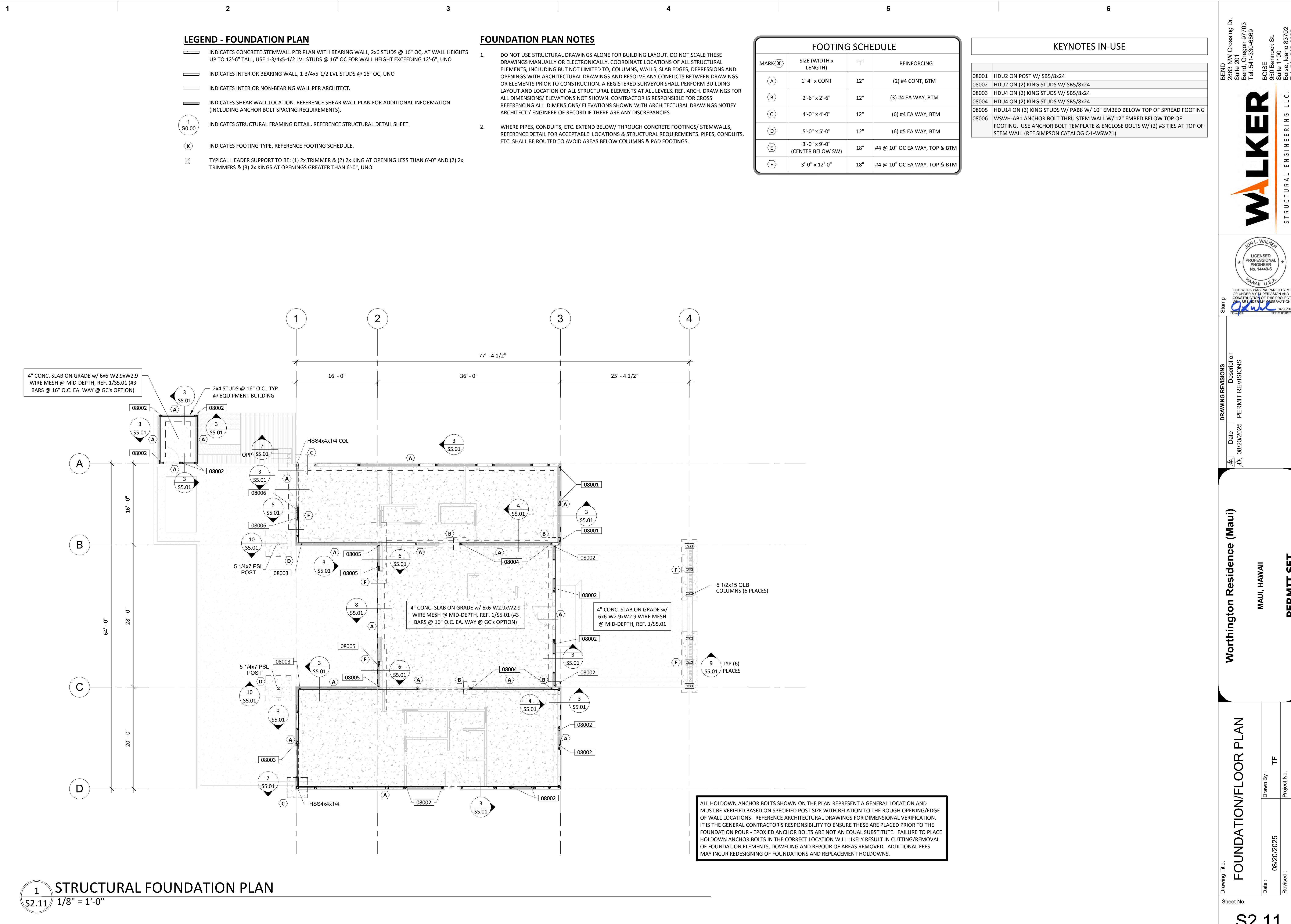
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Sheet No.:

WSE Structural

S0.04



## LEGEND - ROOF FRAMING

- INDICATES BEARING / SHEAR WALL, 2x6 STUDS @ 16" OC, AT WALL HEIGHTS UP TO 12'-6" TALL, USE 1-3/4x5-1/2 LVL STUDS @ 16" OC FOR WALL HEIGHT EXCEEDING 12'-6", UNO
- INDICATES INTERIOR BEARING WALL BELOW, 1-3/4x5-1/2 LVL STUDS @ 16" OC UNO
- INDICATES INTERIOR NON-BEARING WALL PER ARCHITECT.
- 1 S.00 INDICATES STRUCTURAL FRAMING DETAIL, REFERENCE STRUCTURAL DETAIL SHEET.
- D-1 INDICATES SPAN DIRECTION OF 5/8" APA SHEATHING (APA INDEX 48/24), ATTACH TO ROOF FRAMING WITH 8d NAILS @ 6" OC AT ALL PANEL EDGES AND 12" OC @ INTERMEDIATE FRAMING MEMBERS, EDGE NAIL @ ALL BLOCKING AND DRAG STRUTS.
- INDICATES SHEAR WALL. REFERENCE SHEAR WALL PLANS FOR ADDITION INFORMATION.

## ROOF FRAMING PLAN NOTES

- DO NOT USE STRUCTURAL DRAWINGS ALONE FOR BUILDING LAYOUT. DO NOT SCALE THESE DRAWINGS MANUALLY OR ELECTRONICALLY. COORDINATE LOCATIONS OF ALL STRUCTURAL ELEMENTS, INCLUDING BUT NOT LIMITED TO, COLUMNS, WALLS, SLAB EDGES, DEPRESSIONS AND OPENINGS WITH ARCHITECTURAL DRAWINGS AND RESOLVE ANY CONFLICTS BETWEEN DRAWINGS OR ELEMENTS PRIOR TO CONSTRUCTION. A REGISTERED SURVEYOR SHALL PERFORM BUILDING LAYOUT AND LOCATION OF ALL STRUCTURAL ELEMENTS AT ALL LEVELS. REF. ARCH. DRAWINGS FOR ALL DIMENSIONS/ ELEVATIONS NOT SHOWN. CONTRACTOR IS RESPONSIBLE FOR CROSS REFERENCING ALL DIMENSIONS/ ELEVATIONS SHOWN WITH ARCHITECTURAL DRAWINGS NOTIFY ARCHITECT / ENGINEER OF RECORD IF THERE ARE ANY DISCREPANCIES.
- TYPICAL HEADER SUPPORT TO BE: (1) 2x TRIMMER & (1) 2x KING AT OPENING LESS THAN 6'-0" AND (2) 2x TRIMMERS & (2) 2x KINGS AT OPENINGS GREATER THAN 6'-0", UNO
- PROVIDE SOLID 2x STUDS AT ALL BEAM & GIRDER TRUSS BEARING POINTS UNLESS DETAILED OR NOTED OTHERWISE. FOR BEAMS FRAMING INTO WALLS, FORM BEAM POCKET WITH ADDITIONAL STUDS ALONG SIDE OF BEAM AND FACE NAIL WITH (5) 16d NAILS ON EACH SIDE (MINIMUM).

## KEYNOTES IN-USE

02001	SIMPSON WSWH24 SHEAR WALL (TRIM HEIGHT TO FIT). ATTACH TO DBL TOP PL W/ STANDARD OR ALTERNATE TOP CONNECTION PER MANUF SPECS (REF SIMPSON CATALOG G-L-WSW21 & DETAIL 10/S3.02)
02002	CS16 STRAP ON FLAT 4x6 BLK'G BTWN WALL STUDS, ABOVE & BELOW OPENING
02003	CS16 STRAP FULL LENGTH OF WALL, ABOVE & BELOW OPENING
02004	CMSTC16 STRAP ON FLAT 4x6 BLK'G BTWN WALL STUDS, LAP 24" MIN TO DRAG
02005	INDICATES ML28 W/ SDS SCREWS, APPLY ON EA SIDE WHERE SHOWN, TYP
02006	IUS HANGER TYP
02007	5-1/4x7 PSL POST W/ CCQ CAP
02008	5-1/2x15 GLC W/ CBTZ TIE, TYP (6) PLACES
02009	1-3/4x9-1/4 LVL SISTERED TO JOIST
02010	1-3/4x9-1/4 LVL SISTERED TO RIM JOIST
02011	1-3/4x7-1/4 LSL STUDS @ 16" OC
02012	1-3/4x11-7/8 LVL LEDGER W/ (3) 1/4"x4 1/2" SDS SCREWS @ 16" OC TO WALL STUDS
02013	(2) 1 3/4x5 1/2 LSL TRIMMERS & (3) 1 3/4x5 1/2 LSL KING STUDS
02014	ATTACH PSL TO KING STUDS W/ ML26 TOP & BTM USING SDS SCREWS
02015	FULL HT 5-1/4x5-1/4 PSL POST W/A35 EA SIDE, TOP & BTM, TYP (3) PLACES
02017	HUS1.81/10 HANGER, TYP
02018	LUS210 HANGER TYP
08007	HUC68 TO POST TYP (2) PLACES, REF DETAIL 3/S6.02
08008	HUC68 TO POST TYP (6) PLACES, REF DETAIL 3/S6.02
08009	KNIFE PL TO COL (2) PLACES, REF DETAIL 2/S6.02
08010	HUC68 TO (2) KING STUDS TYP (2) PLACES

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**WALKER**  
STRUCTURAL ENGINEERING LLC.

JOHN L. WALKER  
LICENSED PROFESSIONAL ENGINEER  
No. 14440-S  
HAWAII, U.S.A.  
THIS WORK WAS PREPARED BY ME  
OR UNDER MY SUPERVISION  
OR IN CONSTRUCTION OF THIS PROJECT  
AND IS THE PROPERTY OF  
STRUCTURAL ENGINEERING LLC.  
Stamp: *OKW* Date: 04/30/26

Stamp: *OKW* Date: 04/30/26

## Worthington Residence (Maui)

MAUI, HAWAII

## PERMIT SET

## ROOF FRAMING PLAN

Drawing Title: ROOF FRAMING PLAN

Drawn By: TF

Project No. WSE JOB #23110

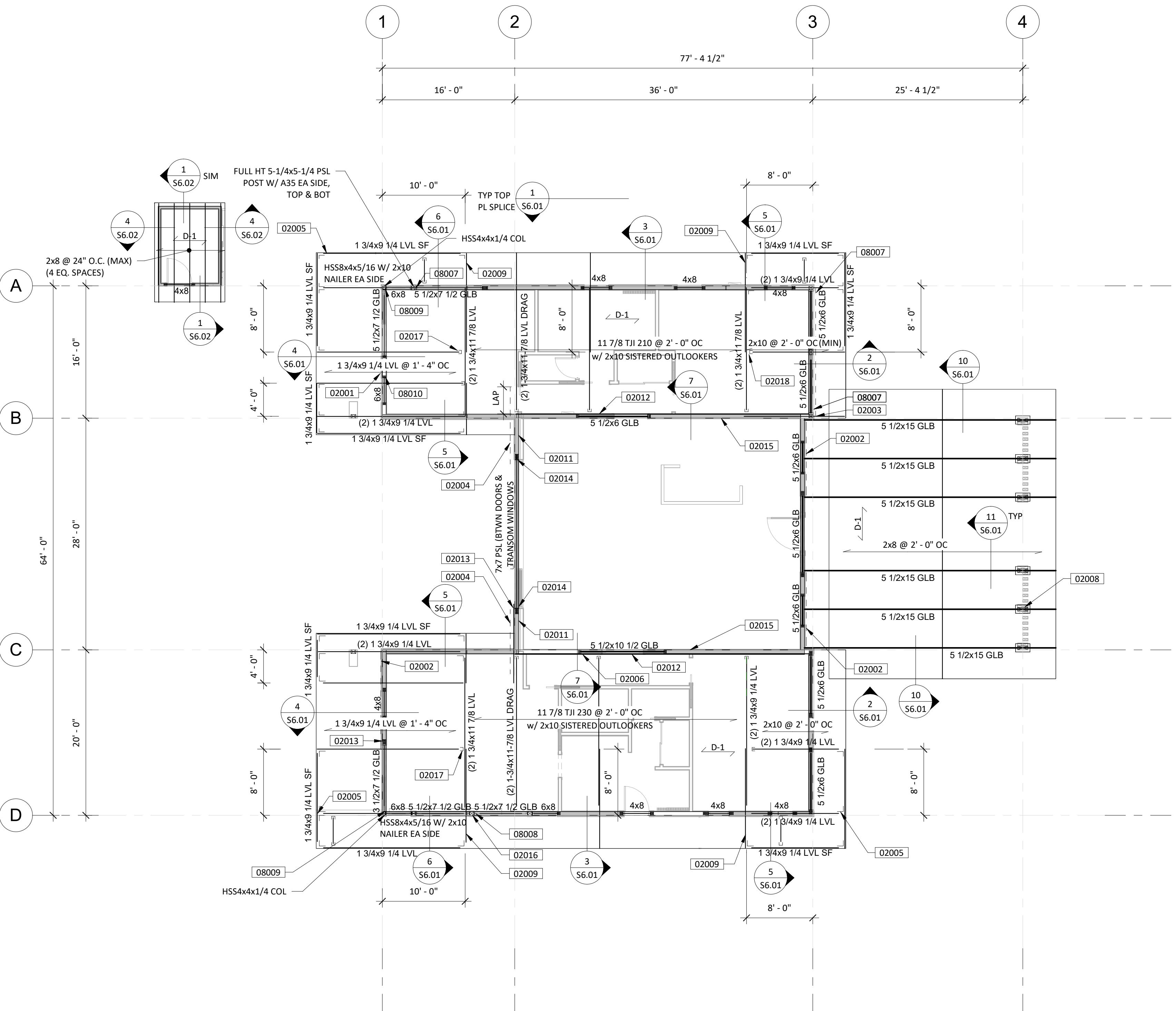
Drawing Title: LOWER ROOF FRAMING PLAN

Drawn By: TF

Revised:

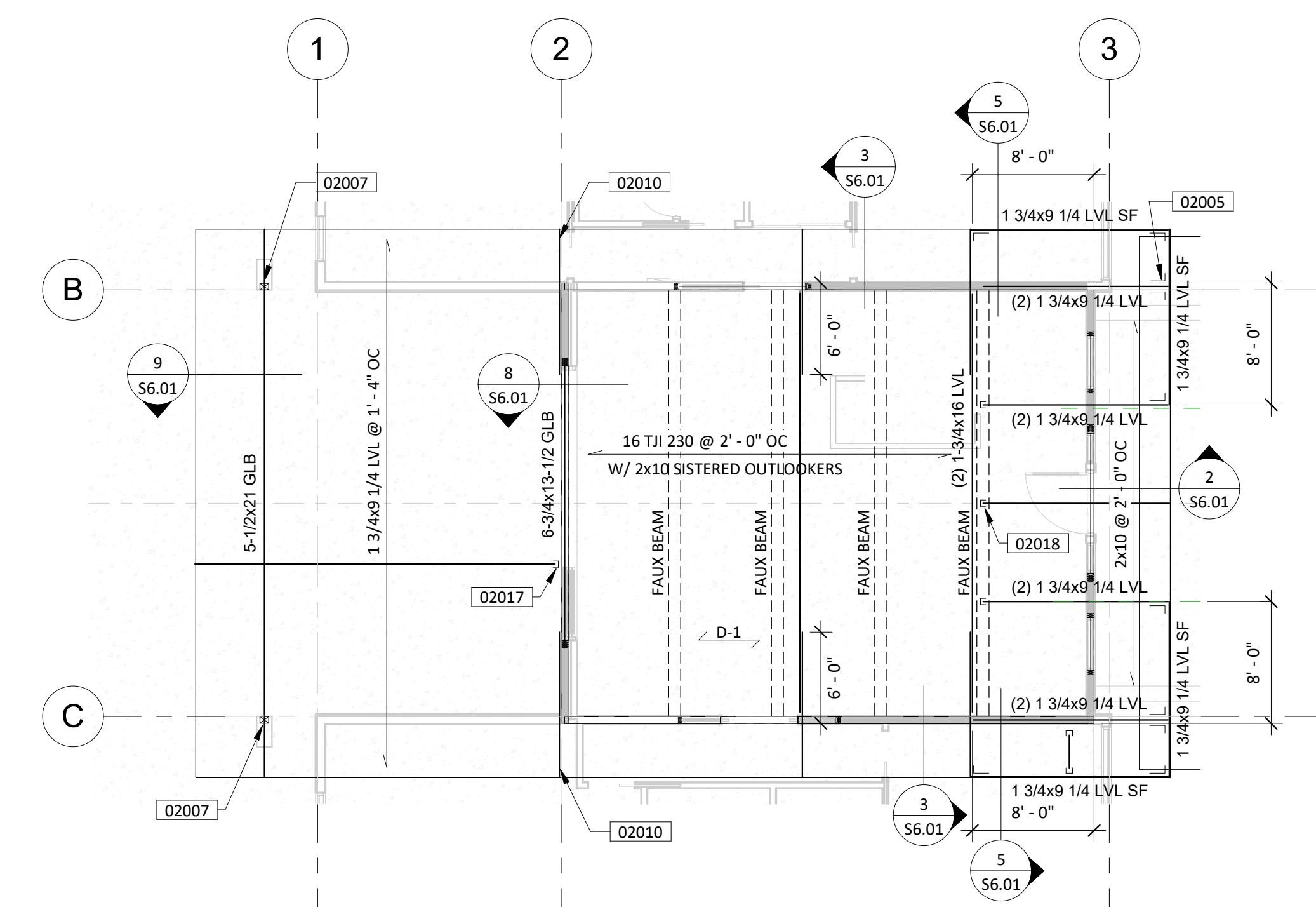
Sheet No.

WSE Structural



1  
S2.21  
1/8" = 1'-0"

2  
S2.21  
1/8" = 1'-0"



2  
S2.21  
1/8" = 1'-0"

Drawing Title:

Drawn By:

Revised:

Sheet No.

WSE Structural

S2.21

WSE Structural



**SHEAR WALL PLAN NOTES**

- IF A.B. SPACING IS GREATER THAN SHEAR WALL, PLACE (1) A.B. WITHIN 12" OF EACH END, UNLESS NOTED OTHERWISE.
- THE CAPACITY VALUES ARE APPLICABLE TO STUDS OF SPECIES GROUP II (DOUGLAS FIR-SOUTHERN PINE).
- PANEL EDGES FOR TYPE "1" & "2" WALLS SHALL BE BACKED WITH 2x NOMINAL (MIN.). PANEL EDGES FOR TYPE "3" & "4" WALLS SHALL BE BACKED WITH 3x NOMINAL OR (2x STITCHED TOGETHER W/ 10d NAILS @ 3" OC (STAGGERED).
- ALL SHEATHING NAILS REFERENCED ARE COMMON WIRE NAILS (i.e. 8d 0.131") SOLE PLATE NAILS REFERENCED ARE TO BE SINKER NAILS (i.e. 16d=0.148"). VALUES OF THEIR STANDARD CONSTRUCTION FASTENERS WILL REQUIRE SPACING ADJUSTMENTS AND MUST BE APPROVED BY WSE PRIOR TO USE. MINIMUM NAIL PENETRATIONS INTO SUPPORT FRAMING: 8d=1.5", 10d=1.625", 16d=1.625".
- DO NOT PENETRATE SURFACE PLY OF SHEATHING WITH NAIL HEAD.
- APA RATED WALL SHEATHING C-D, C-C SHEATHING, PLYWOOD PANEL SIDING, OSB, AND OTHER GRADES COVERED IN 2014 OSSC CH. 35 STANDARDS.
- SHEATHING FACE GRAIN CAN BE APPLIED PERPENDICULAR OR PARALLEL TO STUDS PROVIDED THE STUDS ARE SPACED @ 16" OC OR LESS, WHERE STUDS ARE SPACED GREATER THAN 16" OC APPLY SHEATHING PERPENDICULAR TO STUDS.
- SHEATHING MAY BE APPLIED AT EITHER SIDE OF WALL UNLESS REQ'D AT BOTH SIDES.
- WALL SHEATHING MUST BE EDGE NAILED @ STUDS ATTACHED TO HOLDOWNS, FULL HT.
- PER ANSI/AF&FPA SDPWS-08, SECTION 4.3.6.4.3. PROVIDE SIMPSON BPS-6 SLOTTED PLATE WASHERS (OR FABRICATED EQUIVALENT) WITH STANDARD CUT WASHERS BETWEEN PLATE WASHER & NUT. EDGE OF PLATE WASHER SHALL BE WITHIN 1/8" OF EDGE OF SILL PLATE ON THE SIDE WITH SHEATHING (WHERE SHEATHING IS REQUIRED @ BOTH SIDES, ALTERNATE SIDES.)
- FOUNDATION VENTS ARE ACCEPTABLE UNDER SHEAR WALL TYPES "1" AND "2". ANCHOR BOLTS SHALL BE PLACED 3" CLEAR OF FOUNDATION VENTS. ANY TWO ADJACENT VENTS MUST HAVE AT LEAST 12" OF CONCRETE BETWEEN. ANCHOR BOLT SPACING MAY VARY, BUT SCHEDULED AVERAGE SPACING MUST BE MAINTAINED. FOUNDATION VENTS ARE NOT PERMITTED UNDER SHEAR WALL TYPES "3", "4", & "5".
- ALL HOLDOWN ANCHOR BOLTS SHOWN ON THE FOUNDATION PLAN REPRESENT A GENERAL LOCATION AND MUST BE VERIFIED BASED ON SPECIFIED POST SIZE WITH RELATION TO THE ROUGH OPENING/EDGE OF WALL LOCATIONS. REFERENCE ARCHITECTURAL DRAWINGS FOR DIMENSIONAL VERIFICATION.

**SHEAR WALL SCHEDULE**

SYMBOL	SHEATHING/ ATTACHMENT (SEE NOTE 9)	SILL PL & SILL ATTACHMENT TO FOUNDATION	NOTES
1	7/16" SHEATHING w/ 8d @ 6" OC EDGES, 12" OC FIELD. ALL EDGES BLOCKED	2x P.T. SILL PL. w/ 5/8" DIA. x 10" A.B.'S @ 32" OC w/ PLATE WASHERS PER NOTE 10	-SILL PLATE- SILL TO RIM - 16d @ 6" OC RIM TO PLATE - SIMPSON A35 CLIPS @ 32" OC
2	7/16" SHEATHING w/ 8d @ 4" OC EDGES, 12" OC FIELD. ALL EDGES BLOCKED	2x P.T. SILL PL. w/ 5/8" DIA. x 10" A.B.'S @ 24" OC w/ PLATE WASHERS PER NOTE 10	-SILL PLATE- SILL TO RIM - 16d @ 6" OC RIM TO PLATE - SIMPSON A35 CLIPS @ 20" OC
3	7/16" SHEATHING w/ 8d @ 3" OC EDGES, 12" OC FIELD. ALL EDGES BLOCKED	2x P.T. SILL PL. w/ 5/8" DIA. x 10" A.B.'S @ 16" OC w/ PLATE WASHERS PER NOTE 10	-SILL PLATE- SILL TO RIM - 16d @ 3" OC RIM TO PLATE - SIMPSON A35 CLIPS @ 9" OC
4	7/16" SHEATHING w/ 8d @ 4" OC EDGES, 12" OC FIELD. ALL EDGES BLOCKED	2x P.T. SILL PL. w/ 5/8" DIA. x 10" A.B.'S @ 16" OC w/ PLATE WASHERS PER NOTE 10	-SILL PLATE- SILL TO RIM - LTP4 @ 9" OC RIM TO PLATE - SIMPSON LTP4 @ 9" OC
5	BOTH SIDES 7/16" SHEATHING w/ 8d @ 4" OC EDGES, 12" OC FIELD. ALL EDGES BLOCKED	4x PT SILL PL W/ 5/8" DIA x 10" A.B.'S @ 12" OC	-SILL PLATE- SILL TO RIM - LTP4 @ 8" OC RIM TO PLATE - SIMPSON LTP4 @ 8" OC (SEE NOTE 7)

**KEYNOTES IN-USE**

02001	SIMPSON WSWH24 SHEAR WALL (TRIM HEIGHT TO FIT). ATTACH TO DBL TOP PL W/ STANDARD OR ALTERNATE TOP CONNECTION PER MANUF SPECS (REF SIMPSON CATALOG C-L-WSW21 & DETAIL 10/53.02)
02002	CS16 STRAP ON FLAT 4x6 BLK'G BTWN WALL STUDS, ABOVE & BELOW OPENING
02003	HDU2 ON POST W/ SB5/8x24
08002	HDU2 ON (2) KING STUDS W/ SB5/8x24
08003	HDU4 ON (2) KING STUDS W/ SB5/8x24
08004	HDU4 ON (2) KING STUDS W/ SB5/8x24
08005	HDU4 ON (3) KING STUDS W/ PAB5 W/ 10" EMBED BELOW TOP OF SPREAD FOOTING
08006	WSWH-AB1 ANCHOR BOLT THRU STEM WALL W/ 12" EMBED BELOW TOP OF FOOTING. USE ANCHOR BOLT TEMPLATE & ENCLOSE BOLTS W/ (2) #3 TIES AT TOP OF STEM WALL (REF SIMPSON CATALOG C-L-WSW21)

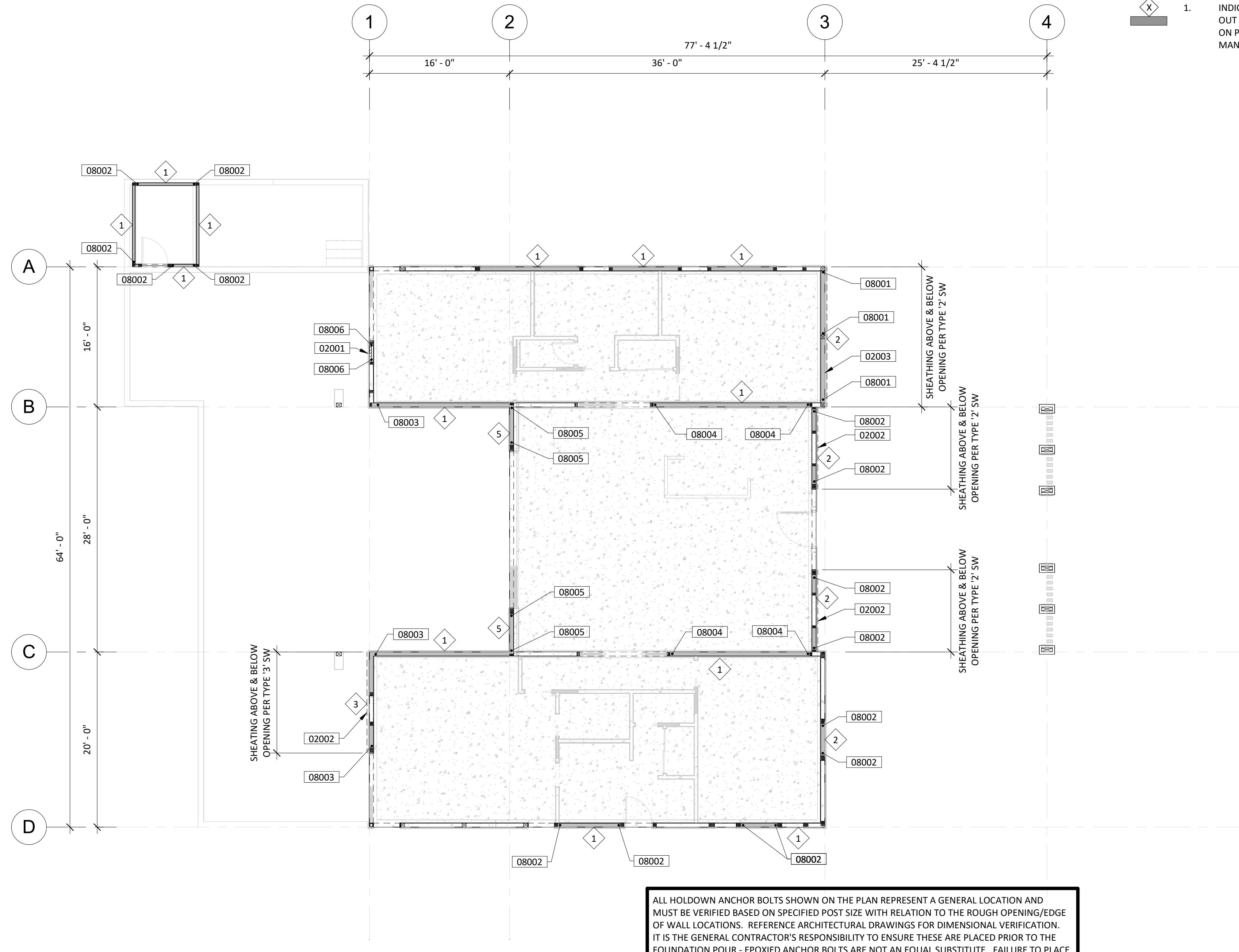
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950 Baileys St.  
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FOR THE USE OF THE CONTRACTOR  
AND IS NOT FOR PUBLIC RELEASE.

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1  
MAIN FLOOR SHEAR WALL PLAN  
S3.11 1/8" = 1'-0"

Drawing Title: **MAIN FLOOR SHEAR WALL PLAN**

Date: 08/20/2025

Revised:

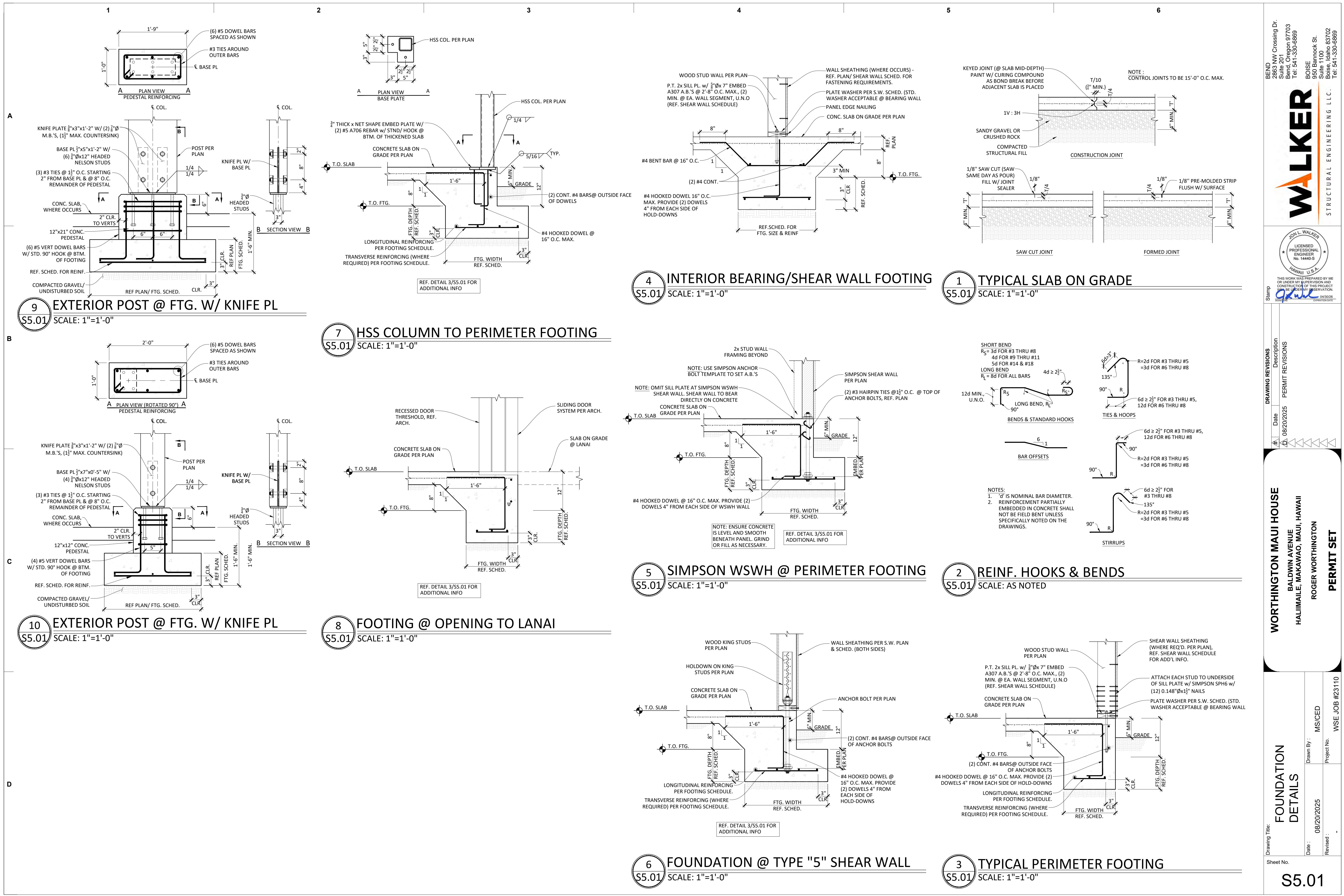
Drawn By: **TF**

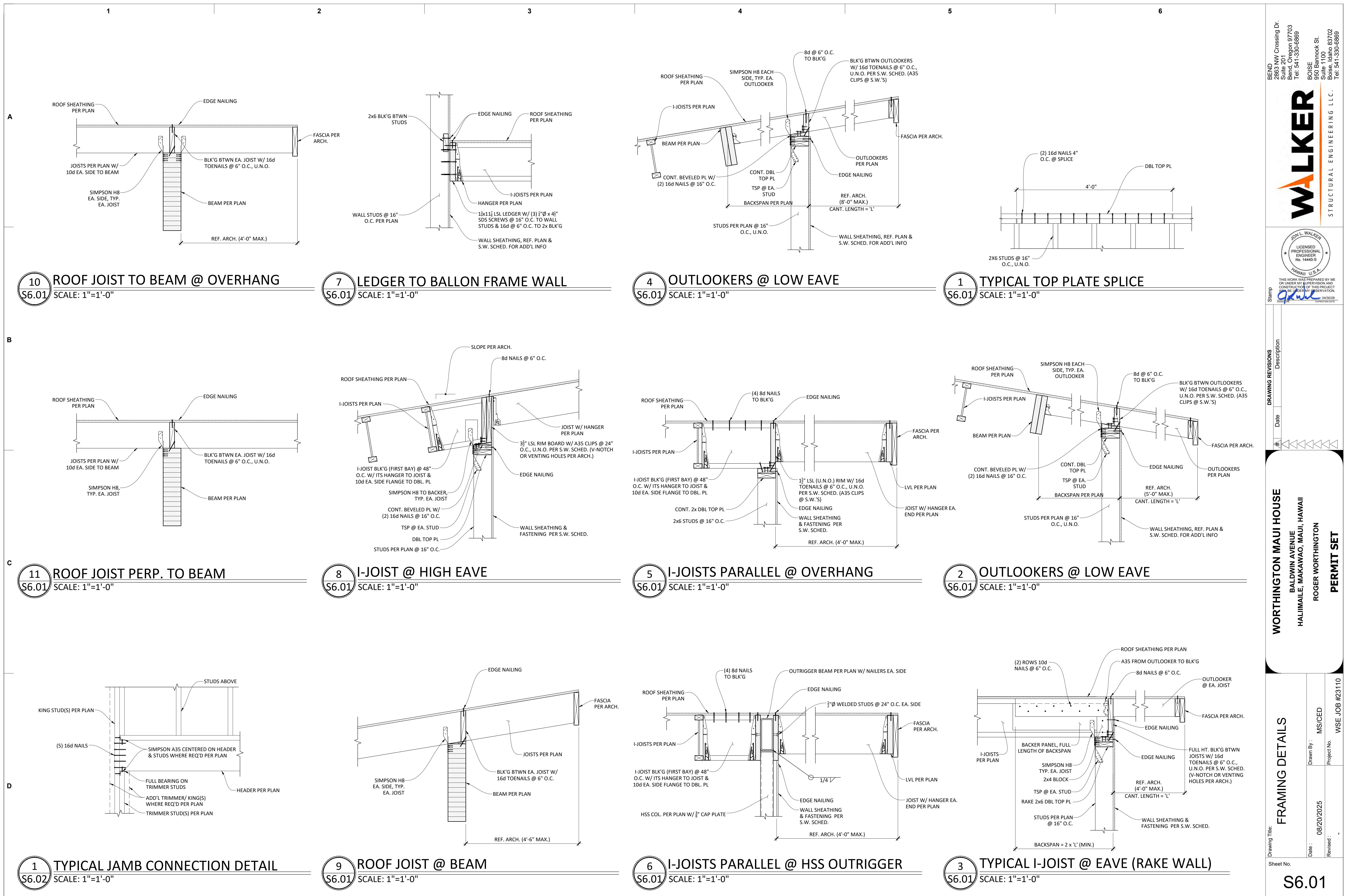
Project No. **WSE JOB #23110**

Sheet No.

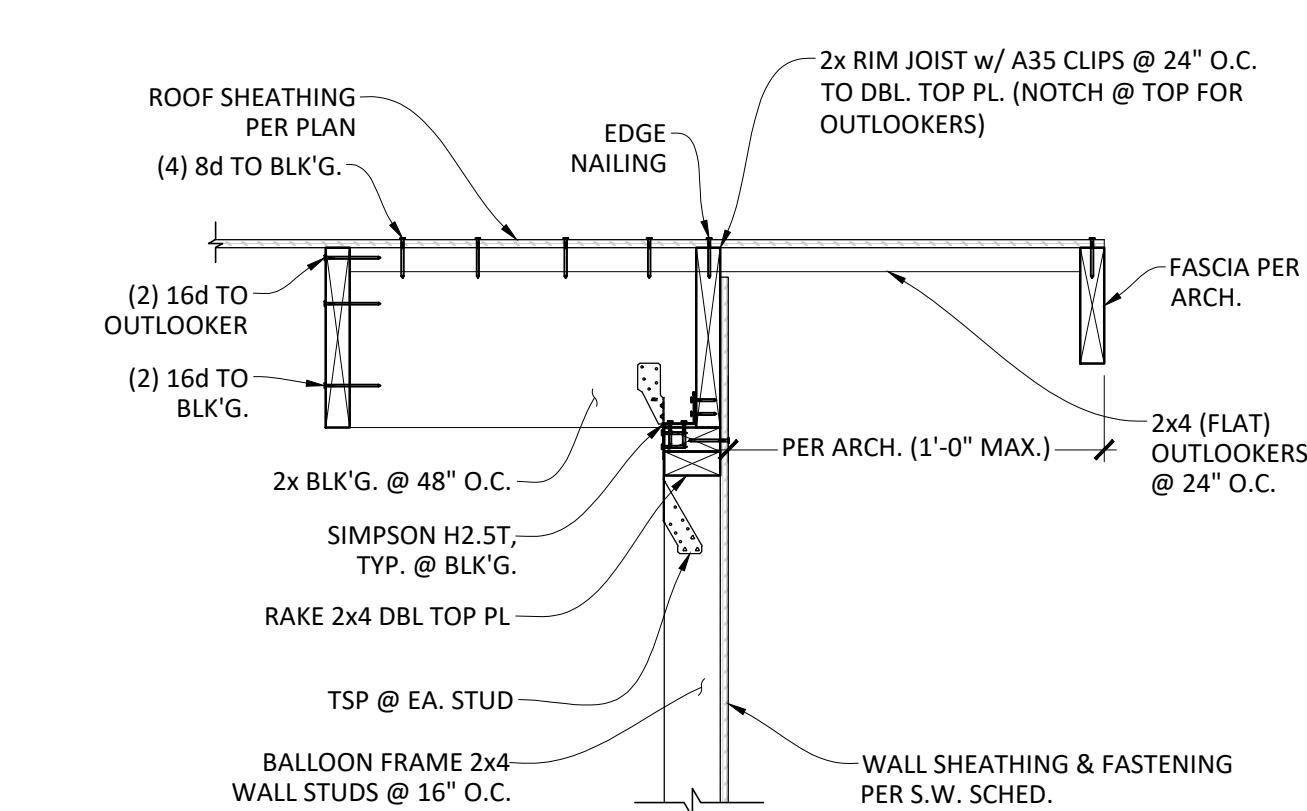
WSE Structural

S3.11



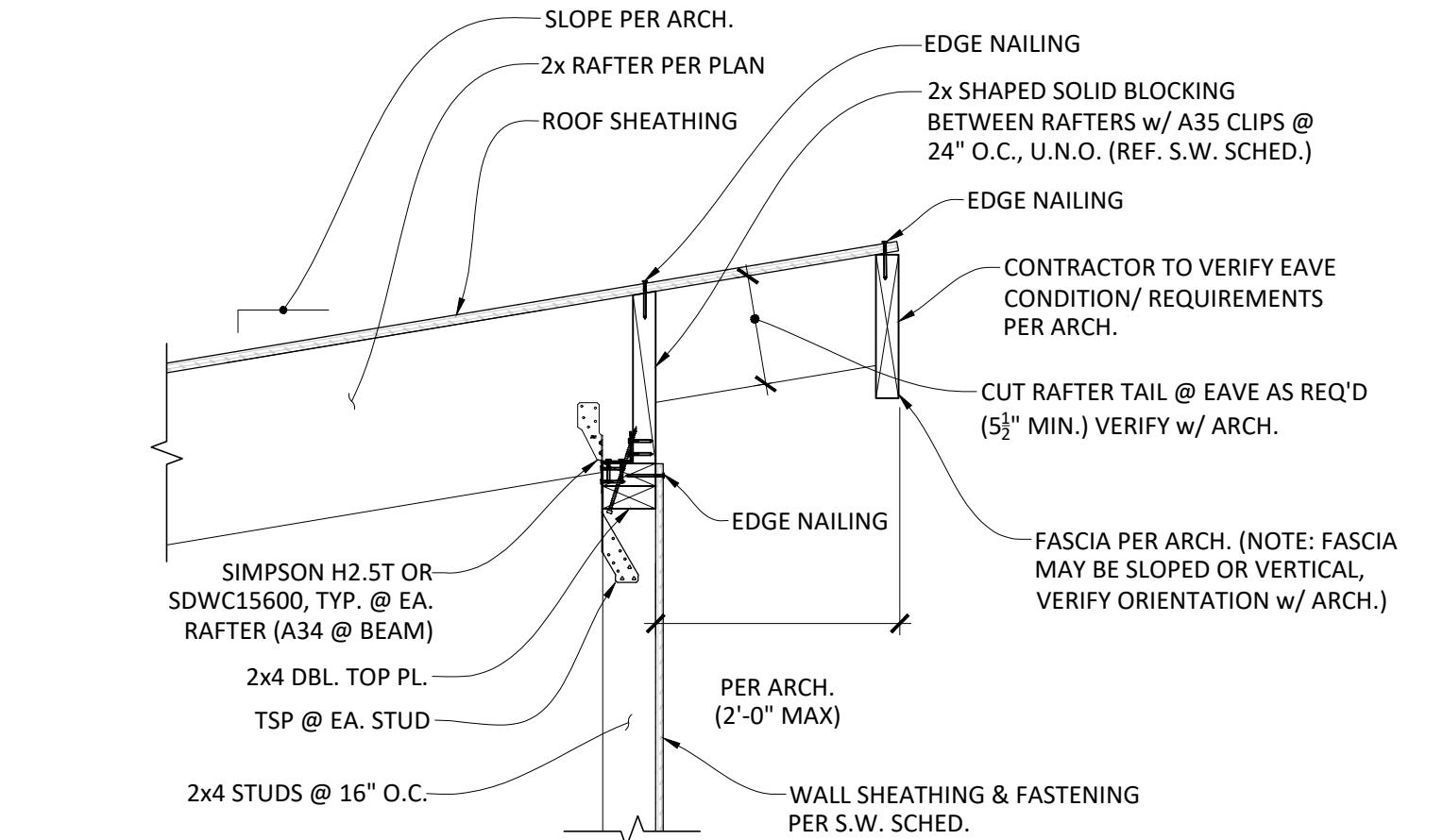


A



4 2x RAFTER @ GABLE END  
S6.02 SCALE: 1"=1'-0"

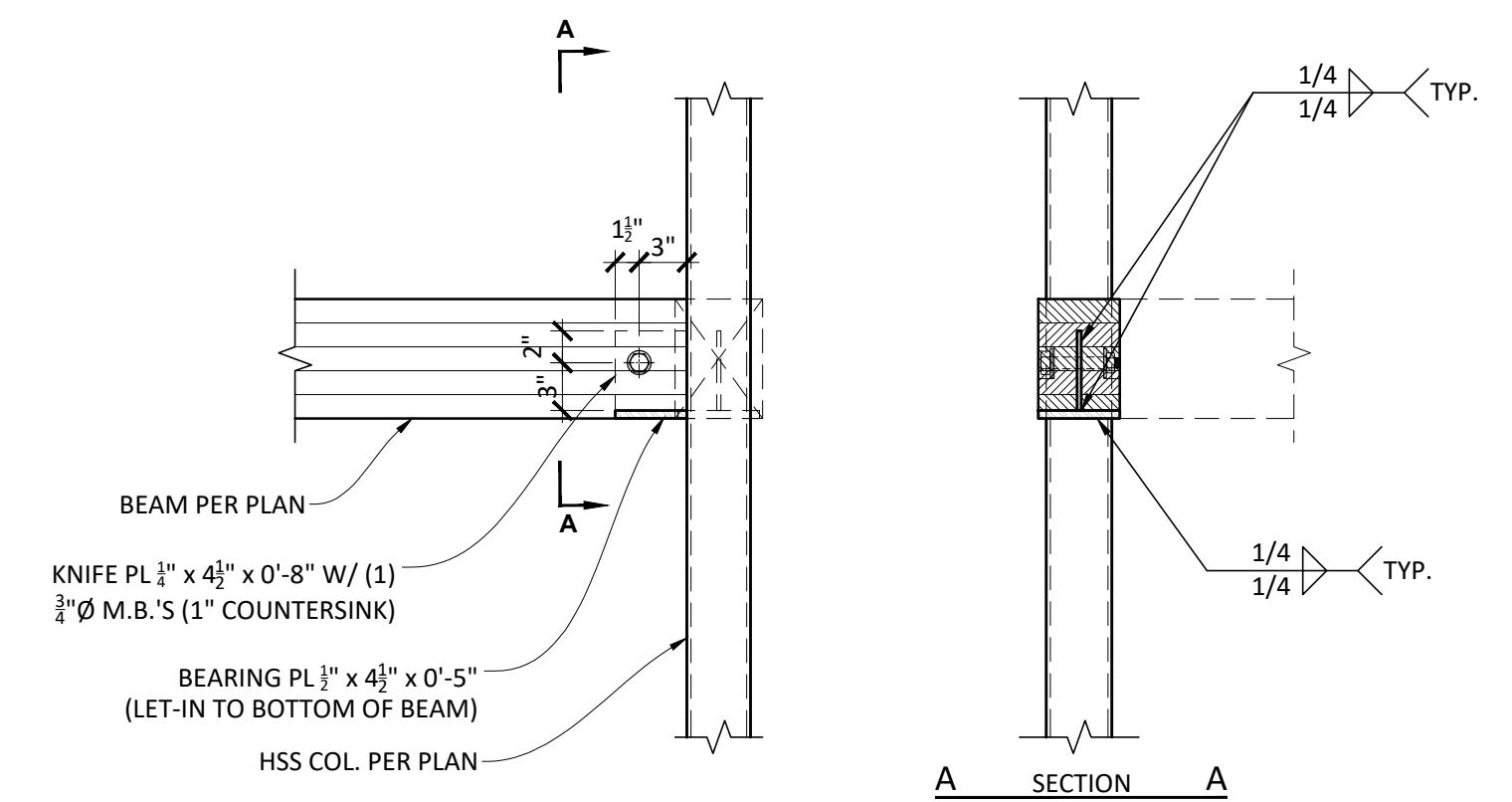
B



1 2x RAFTER @ HIGH EAVE  
(SLOPE OPPOSITE @ LOW EAVE @ SIM)  
S6.02 SCALE: 1"=1'-0"

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CONSTRUCTION OF THIS PROJECT  
WAS SUPERVISED BY ME  
AND OBSERVED BY ME  
04/30/26  
Signature

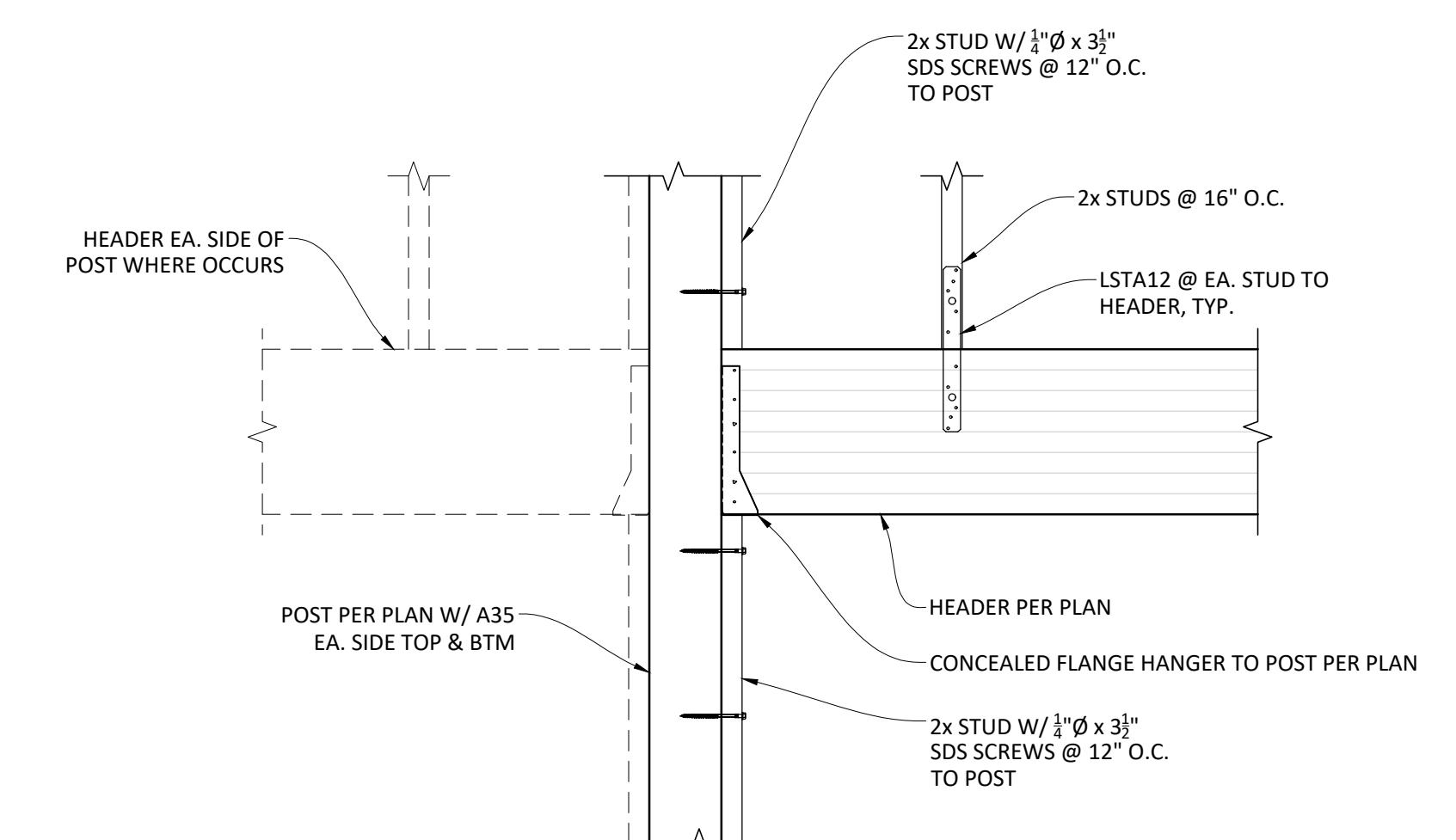
C



2 BEAM/HEADER TO HSS COL. W/ KNIFE PL  
S6.02 SCALE: 1"=1'-0"

Stamp  
WORTHINGTON MAUI HOUSE  
BALDWIN AVENUE  
HALIMALE, MAKAWAO, MAUI, HAWAII  
ROGER WORTHINGTON  
PERMIT SET

D

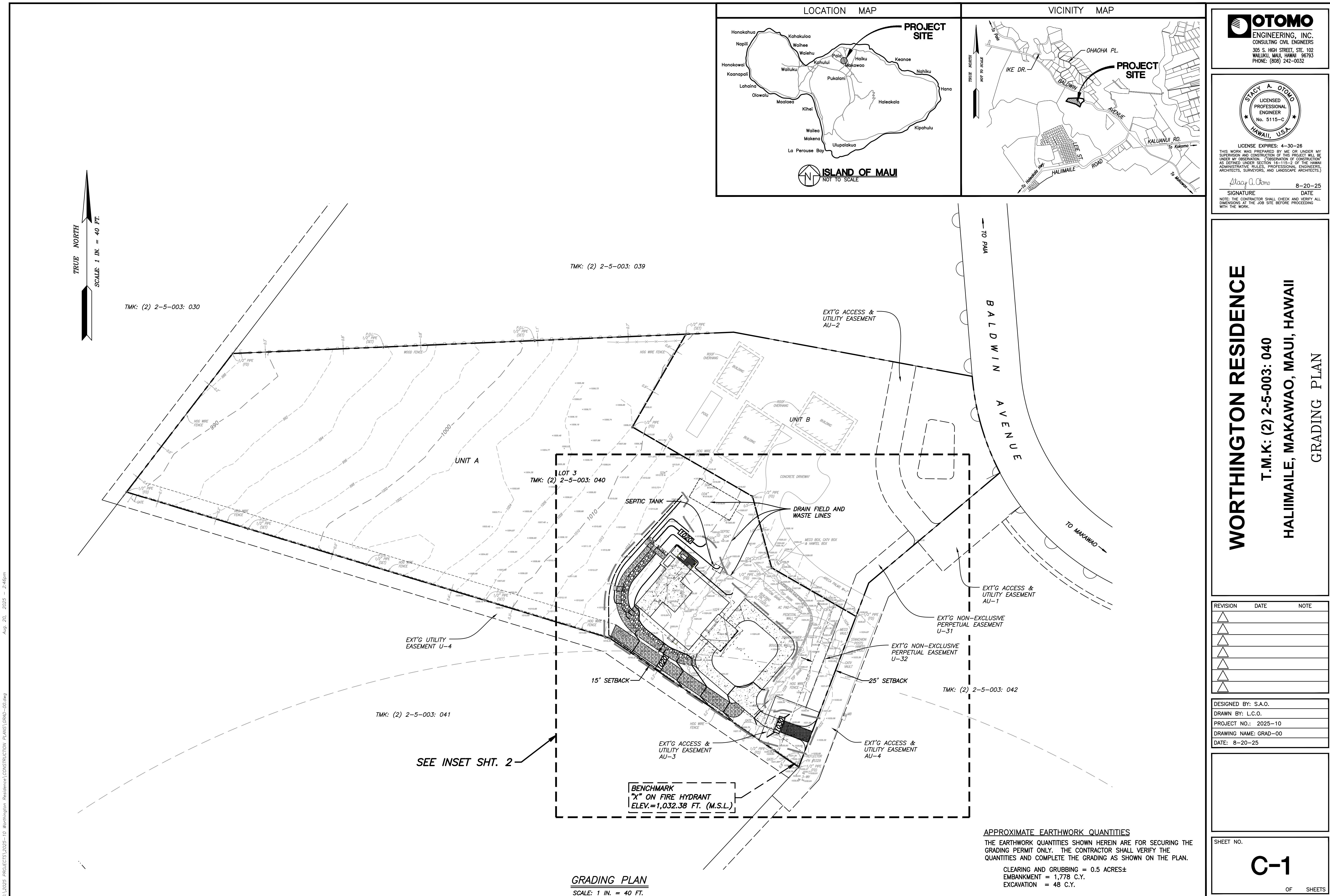


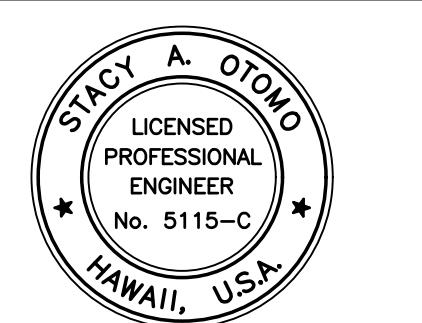
3 HEADER CONNECTION @ FULL HT. POST  
S6.02 SCALE: 1" = 1'-0"

Drawing Title: FRAMING DETAILS  
Drawing No.: 08/20/2025  
Drawn By: MIS/ED  
Project No.: WSE JOB #23110  
Revised: -  
Sheet No.: 1  
WSE Structures  
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Tel: 541-330-6899  
BOISE 560 Bannock St.  
Suite 1100  
Boise, Idaho 83702  
Tel: 541-330-6899

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LICENSE EXPIRES: 4-30-26  
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Stacy A. Otomo 8-20-25

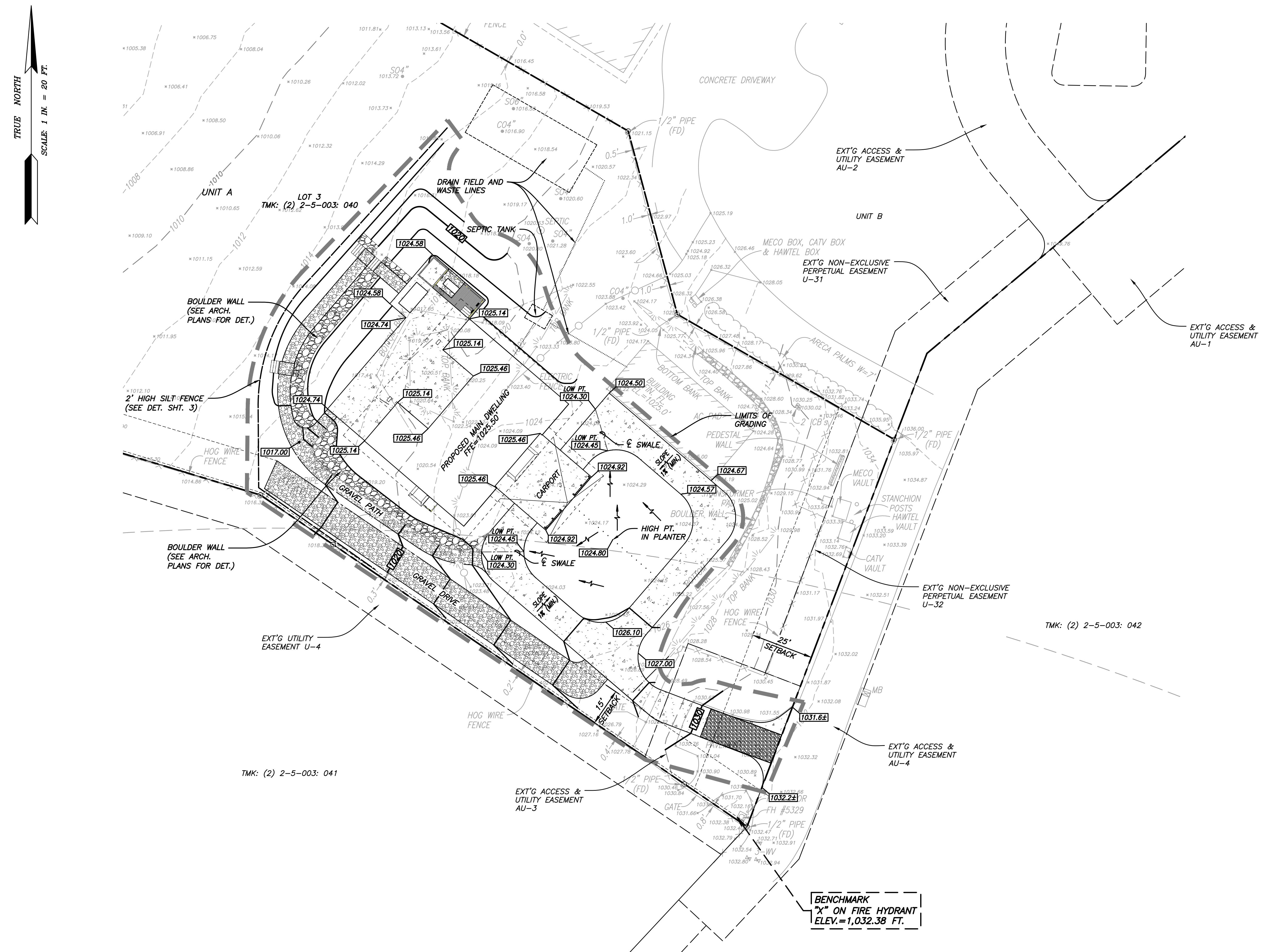
SIGNATURE DATE  
NOTE: THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AT THE JOB SITE BEFORE PROCEEDING WITH THE WORK.

# WORTHINGTON RESIDENCE

HALIMAILE, MAKAWAO, MAUI, HAWAII

T.M.K. (2) 2-5-003: 040

INSET – GRADING PLAN



## GRADING

- The Contractor shall obtain a "Grading Permit" from the Development Services Administration, Department of Public Works and Environmental Management, four (4) weeks prior to commencement of any clearing and grubbing. A satisfactory dust and erosion control plan and/or outline shall be submitted by the Contractor.
- The Contractor shall remove all silt and debris resulting from his work and deposited in drainage facilities, roadways and other areas. The cost incurred for any necessary remedial action by the Chief Environmentalist shall be borne entirely by the Contractor.
- The Contractor, at his sole expense, shall keep the project area and surrounding areas free from dust nuisance. The work shall be in conformance with the Air Pollution Control Standards and Regulations of the State Department of Health.
- All grading operations shall be performed in conformance with the applicable provisions of the Water Pollution Control and Water Quality Standards of Public Health Regulations, State Department of Health and Chapter 20.08 of the Maui County Code.
- Construction debris and wastes shall be deposited at appropriate sites. Said sites shall also fulfill the requirements of Chapter 20.08 of the Maui County Code.
- The Contractor shall be responsible for all construction stakeout.

## ENVIRONMENTAL PROTECTION

- The contractor shall remove all silt and debris resulting from his work and deposited in drainage facilities, roadways and other areas. The costs incurred for any necessary remedial action by the Chief Environmentalist shall be borne by the Contractor.
- The Contractor shall keep the project area and surrounding areas free from dust nuisance, all in accordance with the Air Pollution Control Standards and Regulations of the State Department of Health. All costs shall be borne by the Contractor.
- All grading operations shall be performed in conformance with the applicable provisions of the Water Pollution Control and Water Quality Standards of the Public Health Regulations of the State Department of Health and the County's Grading Ordinance.
- All cut and fill slopes shall be sodded or planted immediately after grading work has been completed.
- Construction debris and wastes shall be deposited at appropriate sites. The Contractor shall inform the Engineer of the location of the disposal sites. The disposal sites shall also fulfill the requirements of the Grading Ordinance.
- The Contractor shall not demolish or clear any structure, site, or vacant lot without first ascertaining the presence or absence of rodents which may endanger the public health by dispersal from such premises. Should such inspection reveal the presence of such rodents, the Contractor shall eradicate such rodents before demolishing or clearing said structure, site or vacant lot.

## EROSION CONTROL

The following measures shall be taken to control erosion during the site development period:

- Minimize the time of construction.
- Retain existing ground cover until latest date to complete construction.
- Early construction of drainage control features.
- Use temporary area sprinklers in non-active construction areas when ground cover is removed.
- Station water truck on site during construction period to provide for immediate sprinkling, as needed in active construction zones (weekends and holidays included).
- Use temporary berms and cut-off ditches, where needed, for control of erosion.
- Graded areas shall be thoroughly watered after construction activity has ceased for the day and on weekends.
- All cut and fill slopes shall be sodded immediately after grading work has been completed.

## EROSION CONTROL PLAN REQUIREMENTS

The erosion control plan shall employ Best Management Practices to the maximum extent practicable to prevent or reduce pollutants from water bodies, including sediment and other contaminants, in discharging from a construction site.

The following must be addressed if applicable:

- Stabilization of denuded areas.
- Protection/stabilization of soil stockpiles.
- Permanent soil stabilization.
- Establishment and maintenance of permanent vegetation.
- Protection of adjacent properties and water bodies.
- Sediment trapping measures.
- Sediment basins.
- Cut and fill slopes (terracing).
- Stormwater management.
- Sequence of construction operations, including phased and successive development projects.
- Stabilization of waterways and outlets.
- Storm sewer inlet protection.
- Control of access and vehicular movement.
- Vehicular control on residential lots during construction.
- Working in or crossing watercourses.
- Underground utility construction.
- Timely installation of permanent erosion and sediment control.
- Maintenance of erosion control facilities.
- Protection of existing vegetation.
- Dust control.

## EXISTING GRADES

- Existing grades shall be verified by the contractor before proceeding with grading work. Should any discrepancies be discovered in the existing grades or dimensions given on the plans, the Contractor shall immediately notify the Engineer before proceeding further with any work, otherwise he will be held responsible for any cost involved in correction of construction placed due to such discrepancies.

## EXISTING UTILITIES

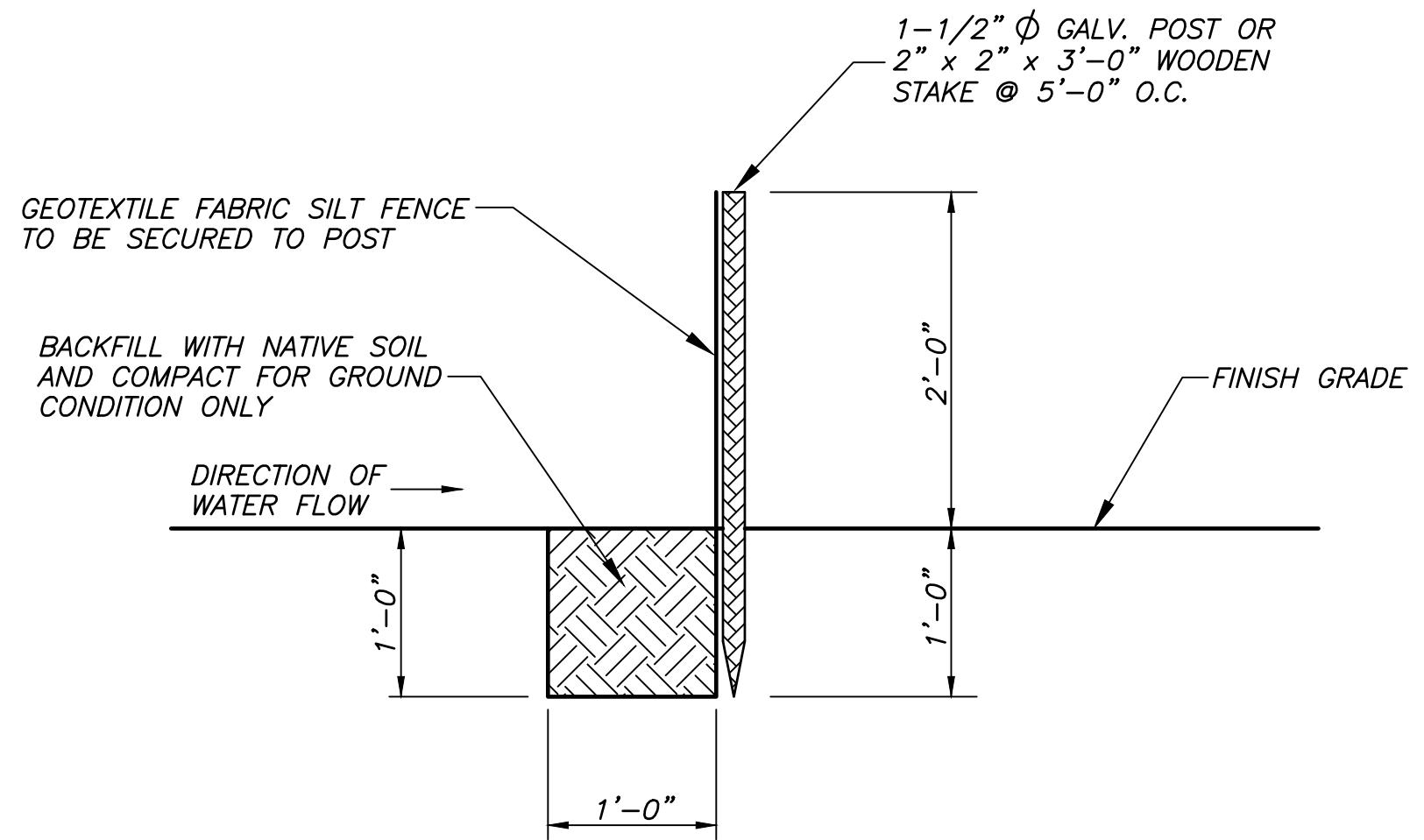
- The location, depth and type of the various existing utility lines shown on the construction plans were determined on the basis of the best information possible. The Contractor shall verify exact location, depth, and type prior to commencement of work.
- Contractor shall notify the Engineer of any discrepancies between the existing utilities as shown on the construction plans and that located in ground, and not proceed with any further work until written notification is received from the Engineer. Any work done without written notification from the Engineer shall be the sole responsibility of the Contractor.
- All existing utilities whether or not shown on the plans, if damaged during construction by the Contractor, shall be repaired solely at his expense.

## STATE HISTORIC PRESERVATION DIVISION REQUIREMENTS

Should historic sites such as walls, platforms, pavements and mounds, or remains such as artifacts, burials, concentration of charcoal or shells be encountered during construction activities, work shall cease in the immediate vicinity of the find and the find shall be protected from further damage. The contractor and/or landowner shall immediately contact the State Historic Preservation Division (692-8015), which will assess the significance of the find and recommend an appropriate mitigation measure, if necessary.

## EARTHWORK SPECIFICATIONS

- All vegetation, weeds, brush, roots, stumps, rubbish, debris, soft soil and other deleterious material shall be removed and disposed of offsite.
- In areas to receive fill and at finish subgrade in cut areas, the exposed surface shall then be scarified to a depth of 6 inches, moisture conditioned to near optimum moisture and then compacted to a degree of compaction specified herein. If soft or loose spots are encountered that can not be re-compacted, the project soils engineer shall be consulted to discuss the available options.
- Structural areas shall be defined as areas beneath pavement structures and areas beneath and 3 feet beyond the edges of the buildings.
- Structural fill and backfill material shall be granular, well-graded with no particle larger than 3 inches in greatest dimension. Each layer shall be placed in lifts not exceeding 8 inches in loose thickness. Prior to compacting the soil, the soils moisture content shall be adjusted to near optimum moisture content. Each layer shall be thoroughly compacted to at least 95 percent of the maximum dry density (ASTM D 1557).
- Non-structural areas shall be defined as areas beyond 3 feet from the edge of any building and non-pavement areas. Non-structural fill and backfill material shall consist of material which is free of organics and debris. In the upper 3 feet from finished grade, the material shall be less than 3 inches in greatest dimension. Below 3 feet from finished grade, the material shall be less than 12 inches in greatest dimension, provided there is sufficient fines to fill the interstices. The onsite soils are acceptable for use as non-structural fill at any depth provided the above gradation requirements are met and the material is free of organics and man made debris. Each layer shall be placed in lifts not exceeding 12 inches in loose thickness. Prior to compacting the soil, the soils moisture content shall be adjusted to near optimum moisture content. Each layer shall be thoroughly compacted prior to placing of any subsequent lifts to at least 90 percent of the maximum dry density as determined by the ASTM D 1557-91 test procedure.
- During construction, drainage shall be provided to minimize ponding of water adjacent to or on foundation and pavement areas. Ponded areas shall be drained immediately or water pumped out without damaging adjacent structures and property. If water accumulation softens the subgrade materials, the affected soils shall be removed and replaced with properly compacted fill.
- The Contractor shall retain the services of a Soils Engineer, licensed in the State of Hawaii, to monitor as test the soils in accordance with the Soils Investigation Report.



**DETAIL - SILT FENCE INSTALLATION**

SCALE: 1 IN. = 1 FT.

## MINIMUM BEST MANAGEMENT PRACTICES

Drainage. Handle drainage to control erosion, prevent damage to downstream properties and return waters to the natural drainage course in a manner which minimizes sedimentation or other pollution to the maximum extent practicable.

Dust Control. Control dust emissions to the maximum extent practicable through BMP's such as water sprinkling, dust fences, limiting area of disturbance and timely grassing of finish areas.

Vegetation. Retain natural vegetation, especially grasses, wherever feasible. Avoid storage of grubbed material near watercourses.

Erosion Controls. Stabilize all disturbed areas with erosion control measures such as vegetation, runoff diversion, check dams, mulching, blankets, bonded fiber matrices, and wheel wash facilities.

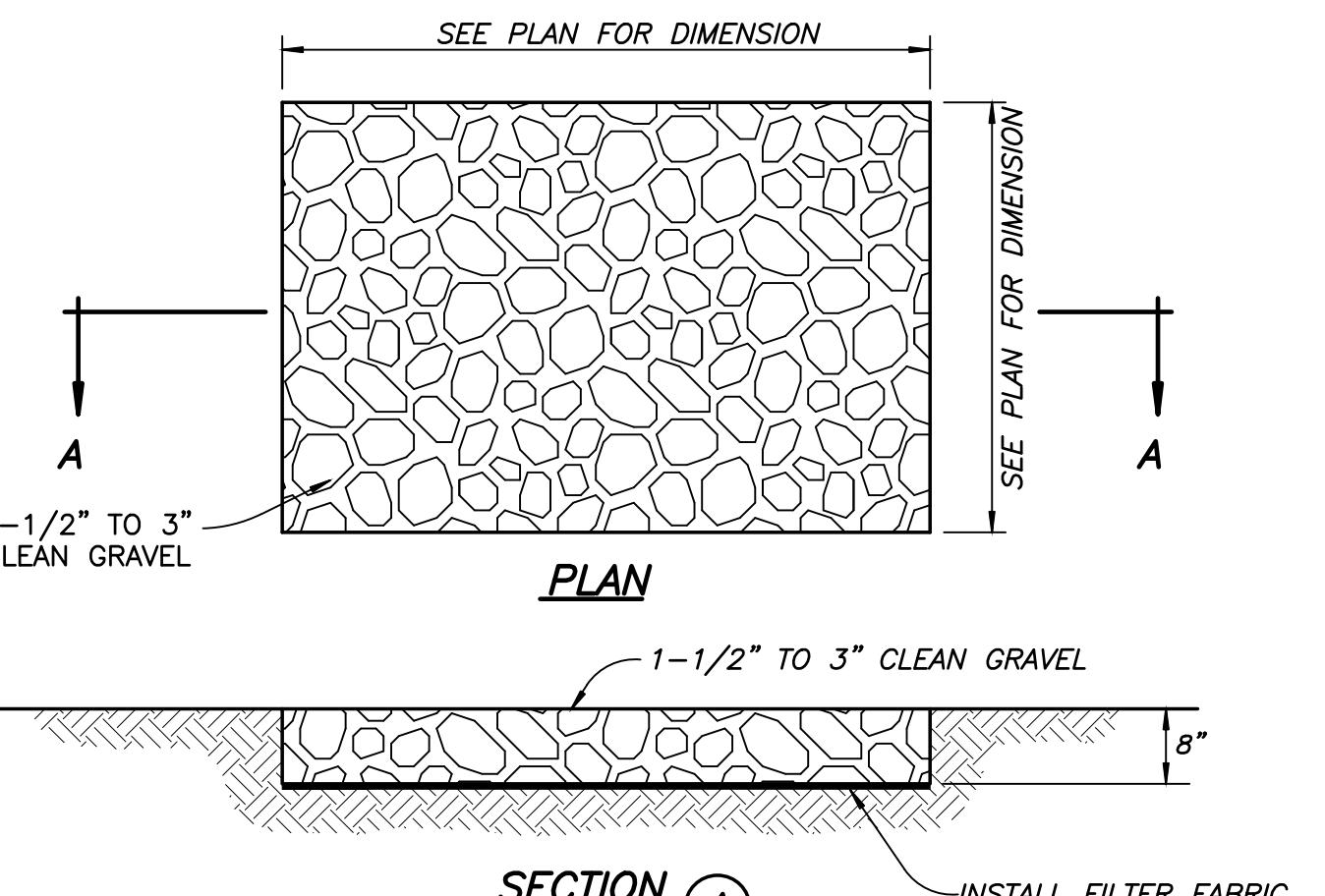
Sediment Control. Capture sediment transported in runoff to minimize the sediment from leaving the site with methods such as sediment basins, sediment traps, silt fences, sand bags, and vegetated filter strips.

Material and Waste Management. Properly store toxic material and prevent the discharge of pollutants associated with construction material.

Timing of Control Measure Implementation. Timing of control measures shall be in accordance with the approved erosion control plan. Disturbed areas of construction sites that will not be re-disturbed for twenty-one days or more will be stabilized (grassed or graveled) by no later than the fourteenth day after the last disturbance.

Shoreline Area. Use of soil as fill is prohibited within any shoreline area, except for sand.

Coastal Dune. Grading or mining of a coastal dune is prohibited.



**DETAIL - TEMPORARY CONSTRUCTION ENTRANCE**

NOT TO SCALE

# WORTHINGTON RESIDENCE

T.M.K: (2) 2-5-003: 040

HALIMAILE, MAKAWAO, MAUI, HAWAII

CONSTRUCTION NOTES & DETAILS

**OTOMO**  
ENGINEERING, INC.  
CONSULTING CIVIL ENGINEERS  
305 S. HIGH STREET, STE. 102  
WAILUKU, MAUI, HAWAII 96793  
PHONE: (808) 242-0032



LICENSE EXPIRES: 4-30-26  
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND DIRECTED BY ME OR UNDER MY OBSERVATION. "OBSERVATION OF CONSTRUCTION" AS DEFINED UNDER SECTION 16-15-2 OF THE HAWAII ADMINISTRATIVE CODE, IS NOT PROVIDED.  
ARCHITECTS, ENGINEERS, SURVEYORS, AND LANDSCAPE ARCHITECTS.

Stacy A. Otomo  
8-20-25  
SIGNATURE DATE  
NOTE: THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AT THE JOB SITE BEFORE PROCEEDING WITH THE WORK.

REVISION	DATE	NOTE
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△		

DESIGNED BY: S.A.O.  
DRAWN BY: L.C.O.  
PROJECT NO.: 2025-10  
DRAWING NAME: NOTES-1  
DATE: 8-20-25

SHEET NO.
C-3