

## **HAVEN**

The Haven is a cozy and efficient Ranch-style studio home. Its exterior blends rustic charm with classic ranch architecture. The lower portion of the walls is finished with stone veneer, adding a touch of visual interest and grounding the structure. The upper walls are finished with light-colored horizontal siding, creating a clean and traditional aesthetic. A simple gable roof with exposed rafter tails provides shelter and complements the overall design. A prominent covered porch spans the front of the home, supported by substantial timber posts and a decorative truss detail, creating a welcoming outdoor space.

Inside, the Haven boasts a simple rectangular floor plan designed for open-concept living. The living, kitchen, and sleeping areas are seamlessly merged into a single large open room, maximizing the feeling of spaciousness. Functional spaces, such as the bathroom, laundry, and closets, are strategically placed in one corner of the home, adjacent to the kitchen, creating a convenient and efficient layout.

#### Materials Shopping List

Please print and take this Materials Shopping List to your favorite Home Depot and ask for assistance in selecting the materials, fixtures and fittings to complete your new home.

Record your selection and the price of the item. Then do the math to determine the cost for your selections and the total cost of finishing your home.

#### < CLICK HERE >

To Go To Materials Shopping List



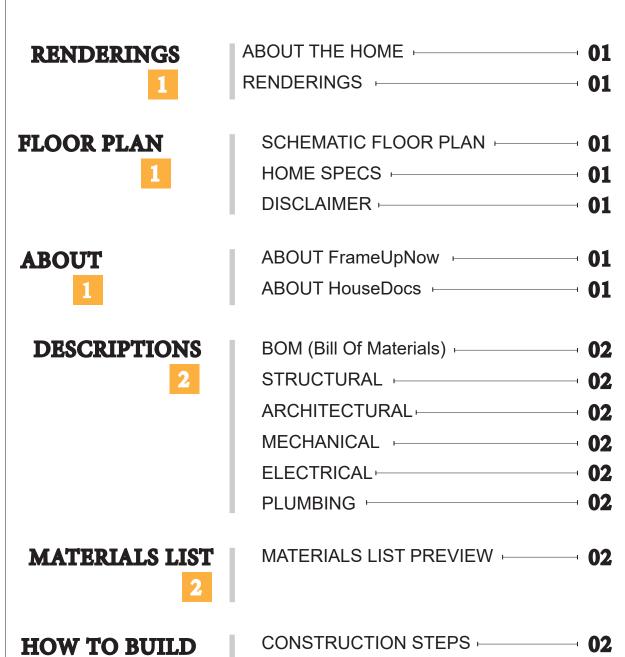


## **FLOOR PLAN**

499 SF

Studio

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**DISCLAIMER** 

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**MATERIALS SHOPPING LIST**  MATERIALS SHOPPING LIST

## **ABOUT**



FrameUpNow is a design and manufacturing company providing precision-engineered home framing solutions. We offer a catalog of Affordable Homes, Tiny Homes, Garages, Shops and Barndominiums. FrameUpNow manufactures cold-formed steel (CFS) also known as Light Gauge Steel (LGS) framing components that conform to our engineered metal house frame plans or can be purchased as DIY skeleton kits.

The CFS/LGS framing is lightweight, easily assembled, and does not require heavy equipment or specialized labor, enabling homeowners to erect the frame themselves in just a few days. Unlike wood, the steel framing is impervious termites and bores, warping, expansion, and fire.

Our home plans come complete with a structural engineered stamp for permit approvals. Customers receive a full BOM also known as a Materials Shopping List to purchase finish materials from a Building Materials retailer. FrameUpNow prides itself on the quality and efficiency of our precision-engineered home framing solutions for construction professionals and DIY homeowners.



**KEY PLAN** 

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

153-Haven-499-Studio-Ranch-550

DRAWING NAME

## INTRODUCTION

CLIENT NAME:
PROJECT NUMBER:
DATE:
DESIGNED BY:
DRAWN BY:
CHECKED BY:

**I101** 

SCALE:

### **DESCRIPTIONS**

### MATERIALS LIST

The BOM (Bill Of Materials) package, known as the Materials Shopping List document, provides:

Comprehensive Inventory: Detailed lists of essential materials sourced from architectural, mechanical, HVAC, electrical, and plumbing design drawing sets.

Precise Curation: Each item meticulously selected and organized for accuracy and efficiency in project planning.

Customizable Options: Customers can modify listed items to their preferences and calculate costs accordingly, ensuring alignment with personal project needs and budget.

Dedicated Space for Details: Includes tables for customers to note Home Depot SKU numbers or product descriptions for selected items, facilitating seamless purchasing and coordination with suppliers.

Customer Convenience: Take the list to Home Depot or preferred suppliers for accurate pricing, helping align the total home budget with personal financial plans.

Simplify your construction journey with our Materials Shopping List document, where detailed preparation meets streamlined implementation for your dream home.

### STRUCTURAL

The structural drawings package provides an exhaustive set of detailed plans essential for the precise assembly of your building. This comprehensive package includes:

Framing Plans: Detailed layouts for all framing components. Truss Layouts: Clear instructions for truss placement and

Panel Length Plans: Specifications for panel dimensions. Framing Elevations and Sections: Precise elevation and sectional views for accurate construction.

Truss and Wall Blocking Plans: Plans for truss and wall blocking to ensure structural integrity.

Hold-Down Plan: Detailed hold-down requirements for stability. Snap Sheet: Reference sheet for quick identification of components

Structural Details and Bracing Plans: Complete details and bracing plans for all structural elements.

Accompanying these plans is a comprehensive Bill of Materials (BOM) that lists every necessary building component, from cold formed steel (CFS) frames to fasteners.

### ARCHITECTURAL

With the comprehensive architectural package, both builders and DIY homeowners can confidently execute the construction.

The architectural package includes:

Furnished Floor Plans: Complete with furniture layouts for a clear understanding of space utilization.

Detailed Dimension Plans: Ensures precise measurements, from the overall footprint down to the exact placement of windows and

Foundation Plan: Detailed plan to establish a solid foundation.

Wall Framing and Truss Layout: Comprehensive plans for wall framing and truss placement.

Architectural Elevations: Exterior views showcasing the design.

Strategic Building Sections: Critical cross-sectional details for a thorough understanding of the build.

Casework Drawings and Diagrams: Suggested designs for built-in caseworks, such as kitchen cabinets.

### **MECHANICAL**

The mechanical package includes everything needed to guide HVAC

Detailed HVAC Floor Plan: Precisely maps out the placement of air handlers, ductwork, and vents throughout the home's layout.

HVAC Sections and Riser Diagrams: Technical drawings offering critical cross-sectional details and piping schematics, ensuring proper integration of the heating and cooling system into the home's structure.

Bill of Materials: A complete list of all necessary HVAC components.

## **ELECTRICAL**

The electrical package includes all the plans and documentation needed to guide the installation of your home's electrical system:

Detailed Power Plan: Precisely maps out the placement of outlets, switches, and other power components throughout the layout.

Comprehensive Lighting Plan: Shows the optimal locations for lighting fixtures, sconces, and other illumination sources to create a well-lit, functional interior.

Dimensioned Electrical Layout: Provides exact dimensions and measurements to ensure proper placement of all electrical elements.

Bill of Materials: A complete list of every component needed, from circuit breakers to wiring.

The plumbing package includes everything needed to guide the

Detailed Water Supply System Plan: Precisely maps out the placement of pipes, valves, and plumbing fixtures throughout the

Comprehensive Sewage System Plan: Shows the optimal routing and sizing of drain lines to effectively remove waste and ensure

Detailed Riser Diagrams: Provide information needed to properly

## **PLUMBING**

installation of your home's water supply and drainage systems:

proper drainage.

install all vertical plumbing risers and vent stacks.

Bill of Materials: A complete list of every component needed, from pipes to fixtures.

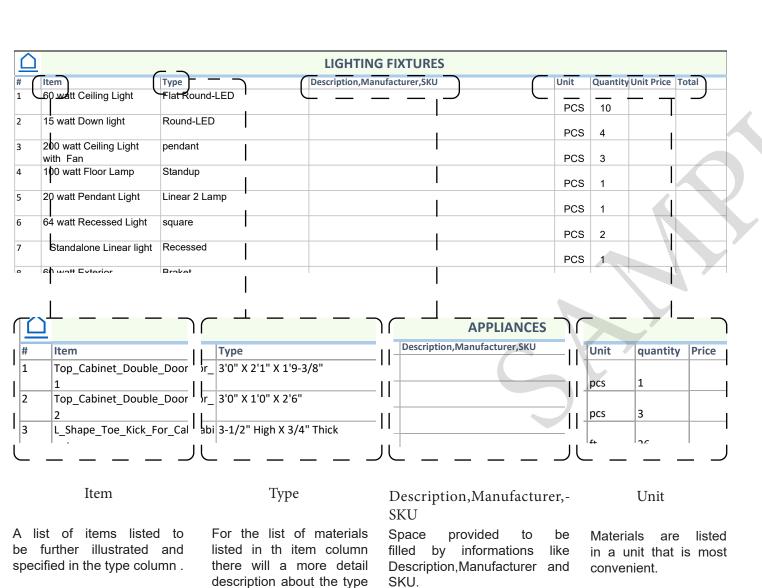
# BOM (Bill Of Materials) (Separately Attached)

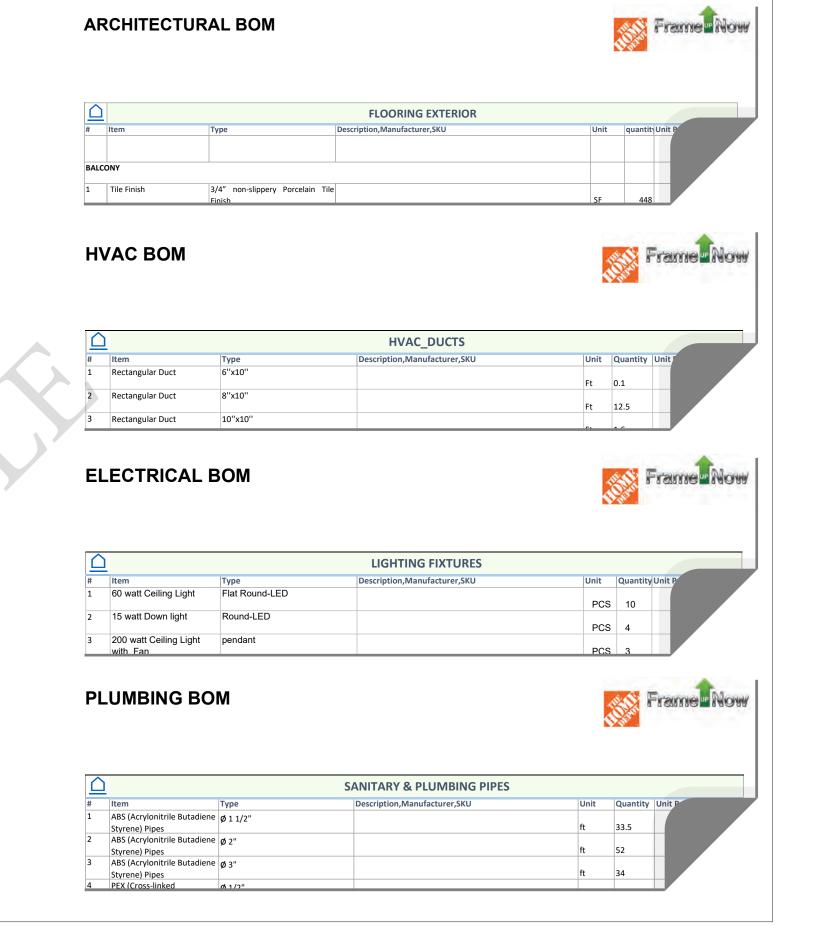


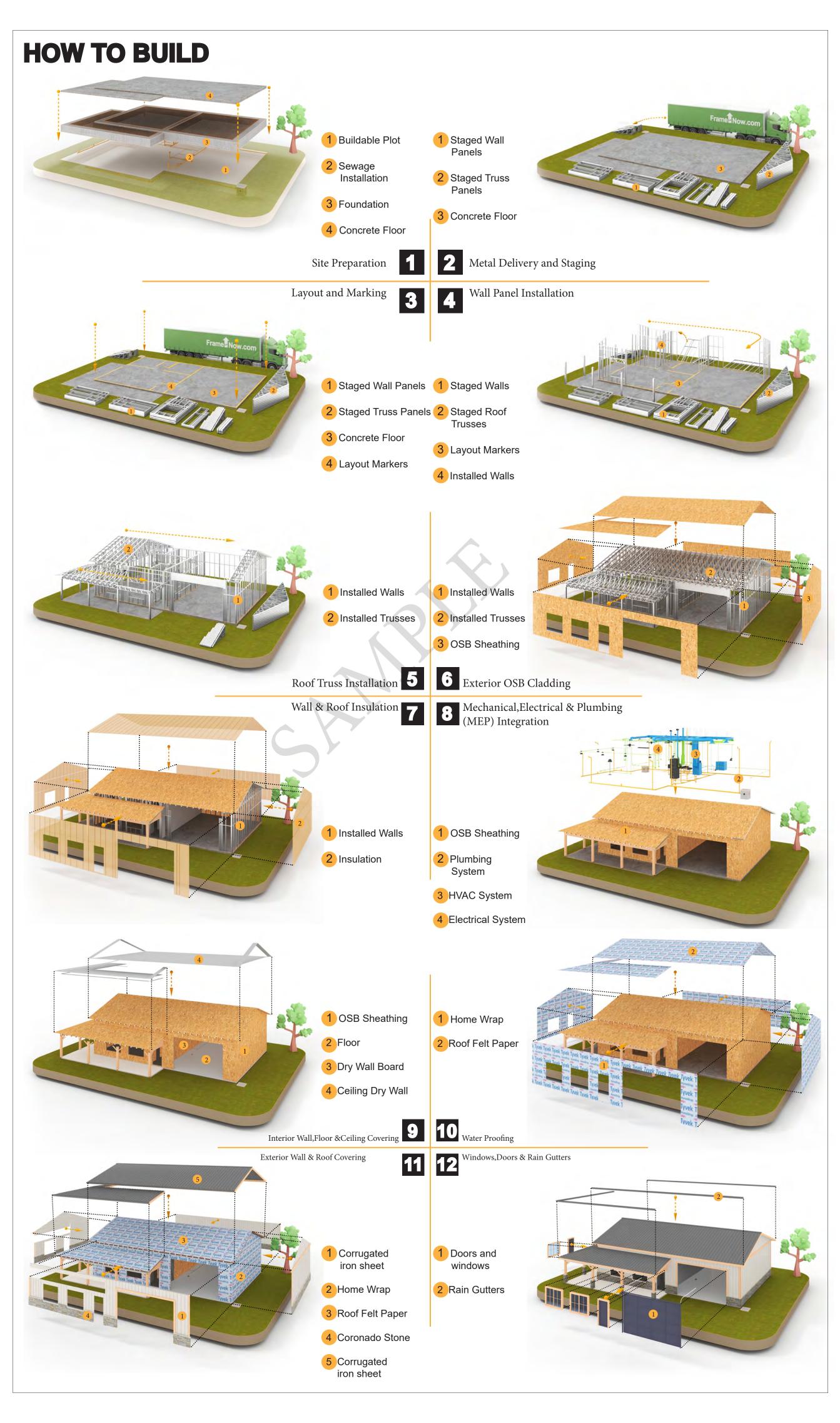
The Bill of Materials (BOM) is a crucial document that compiles the material requirements from different disciplines into a centralized inventory, enabling efficient procurement, inventory management, and cost estimation for a specified project or

**ELECTRICAL BOM** 











**KEY PLAN** 

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

153-Haven-499-Studio-Ranch-550

DRAWING NAME

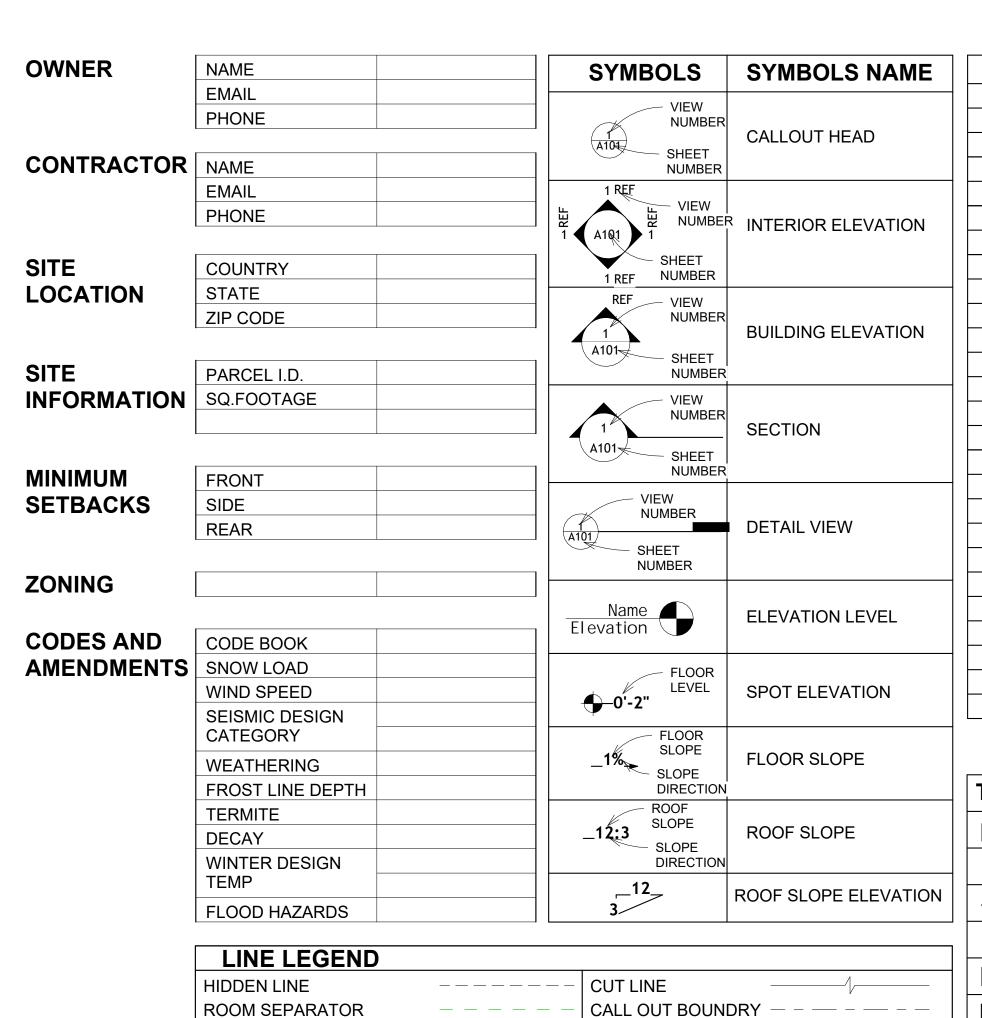
## INTRODUCTION

CLIENT NAME: PROJECT NUMBER: DATE: **DESIGNED BY** DRAWN BY: CHECKED BY:

1102

SCALE:

of the Material.



DOOR OPENING DIRECTION

OVER HEAD

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**TAG'S NAME** 

**CASEWORK TAG** 

**FURNITURE TAG** 

SPECIALTY EQUIPMENT TAG

MECHANICAL EQUIPMENT TAG

**WINDOW TAG** 

DOOR TAG

	01	OGOTHICETEET
	SIMP. STHD8	SIMPSON STRAP THE HOLDDOWN
	SIMP. ABE66	SIMPSON ANCHOR BOLT EDGE
	TV	TELEVISION
	UNO	UNLESS NOTED OTHERWISE
	W/	WITH
	W/D	WASHER/DRYER
	AC	AIR CONDITIONING UNIT
	ACC	AIR COOLED CONDENSER
	ACCU	AIR COOLED CONDSENSING
	AHU	AIRTHANDLING UNIT
	CC	COOLING COIL
	CD	CEILING DIFFUSER
	CFm	Cubic Feet Per Minute
	CR	CEILING REGISTER
	CU	CONDENSING UNIT
	CW	COLD WATER
	E/A	EXHAUST AIR
	EF	EXHAUST FAN
	ET	EXPANSION TANK
	EX.	EXISTING
	FC	FLEXIBLE CONNECTION
	FCU	FAN COIL UNIT
	FLR.	FLOOR
	HC	HEATING COIL
	HE	AIR TO AIR HEAT EXCHANGER
T	HV	HEATING AND VENTILATING UNIT
	IV	INLET VANES
	MER	MECHANICAL ROOM
	MAX.	MAXIMUM
	MIN.	MINIMUM
	R/A	RETURN AIR
	RCU	RECIPROCATING CHILLER UNIT
	RF	RETURN FAN
	S/A	SUPPLY AIR
	SCD	SMOKE CONTROL DAMPER
	SP	STATIC PRESSURE

**ABBREVIATION** 

CASEWORK

**ELECTRICAL** 

**FOOTINGS** 

MAXIMUM

MINIMUM

NUMBER

ON CENTER

PLUMBING

REFERENCE RIGHT GARAGE

**SQUARE FEET** 

**MECHANICAL** 

CONDITIONING

ACTION FLOOR SYSTEMS

AMERICAN SOCIETY FOR

FINISHED FLOOR ELEVATION

HEATING, VENTILATION & AIR

INTERNATIONAL RESIDENCE

INTERNATIONAL MECHANICAL

ORIENTED STRAND BOARD

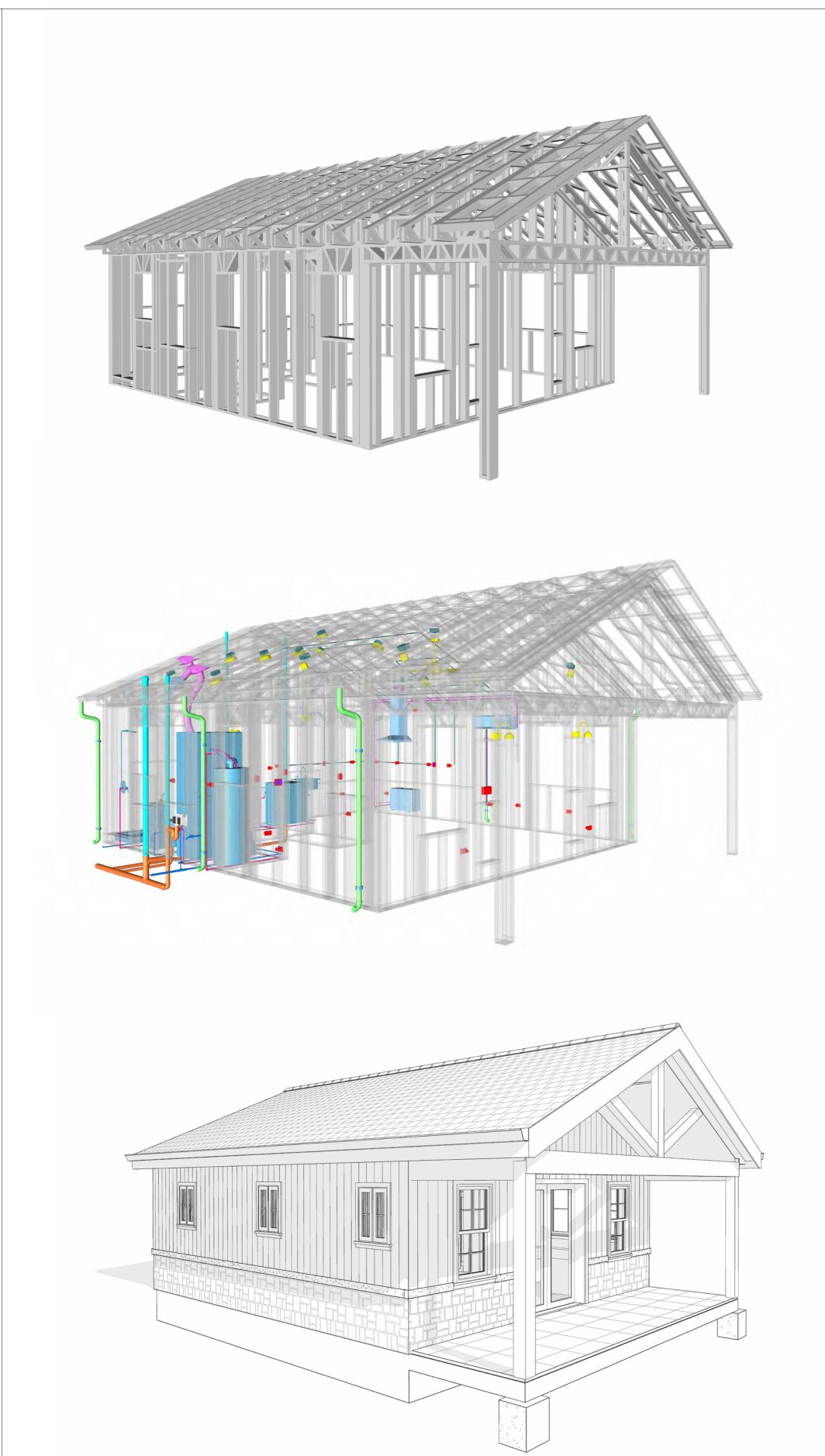
POUNDS PER SQUARE INCH

POLYVINYL CHLORIDE

SPECIAL EQUIPMENT

**TESTING AND MATERIAL** 

FINISHED FLOOR LEVEL

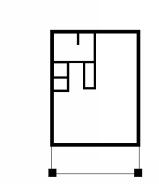




SQUARE FOOT	AGE
LIVIN G	485
PORCH	120
TOTAL	605



**KEY PLAN** 



PERSPECTIVE ANGLE

NO.	DESCRIPTION	DATE

NOTE:

LEGEN

PROJECT

153 HAVEN 499 STUDIO RANCH 550

DRAWING NAME

**COVER SHEET** 

CLIENT NAME:	Client Name
PROJECT NUMBER:	0061_12
DATE:	3/8/2025 5:14:22 PM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

G101

SCALE: As indicated

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#### **GENERAL NOTES**

- 1. THIS DRAWING DEPICTS THE ARCHITECTURAL (SPACE LAYOUT, FURNISHING, FLOOR, WALLS, ROOFS, FOUNDATION, WINDOWS AND DOORS) SYSTEMS. IT PROVIDES A VISUAL REPRESENTATION OF THE ARCHITECTURAL LAYOUT AND COMPONENTS.
- 2. THE ARCHITECTURAL DRAWINGS ARE PREPARED TO MEET THE SPECIFIC REQUIREMENTS OF THE BUILDING, AS PER THE PROJECT SPECIFICATIONS AND APPLICABLE CODES AND STANDARDS.
- THE CONSTRUCTION OF THIS HOME SHALL COMPLY WITH THE LATEST EDITION OF THE INTERNATIONAL RESIDENTIAL CODE (IRC), INTERNATIONAL MECHANICAL CODE (IMC), THE INTERNATIONAL PLUMBING STANDARD, THE NATIONAL ELECTRICAL STANDARD AND ALL OTHER APPLICABLE LOCAL, STATE, AND NATIONAL CODES AND REGULATIONS.
- COORDINATION WITH OTHER TRADES HAS BEEN DONE ON A DESIGN LEVEL. THIS DRAWING SHALL BE READ TOGETHER WITH THE ME, EL AND PL DESIGN DRAWINGS TO ENSURE PROPER CONSTRUCTION AND INTEGRATION OF THE BUILDING SYSTEMS.

#### ABOUT WALLS:

1. SHOWER WALL COVERING

BATHTUB AND SHOWER SPACES (WALLS AND FLOORS) WITH INSTALLED SHOWER HEADS AND IN SHOWER COMPARTMENTS SHALL BE FINISHED WITH A NON-ABSORBENT SURFACE.

2. WALL PAINT (INTERNAL)

THE TYPICAL THICKNESS OF LATEX WALL PAINT IS 1/32 OF AN INCH FOR A SINGLE COAT. AND DOUBLE COAT (1/16") SHALL BE APPLIED FOR DURABILITY.

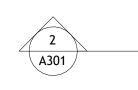
ADHESIVES:

THE ADVISABLE TYPE OF ADHESIVE FOR THIS PROJECT IS EPOXY ADHESIVES BECAUSE THEY ARE KNOWN FOR THEIR HIGH STRENGTH, DURABILITY, AND RESISTANCE TO MOISTURE, CHEMICALS AND

REFER TO SHEETS A201 & A202 FOR GENERAL NOTES ON EXTERNAL FINISHING MATERIALS

#### ABOUT FLOORS:

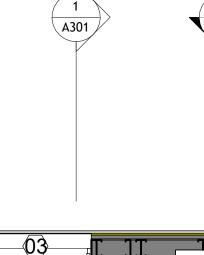
- . THE SPOT ELEVATION INDICATES THE FINISHED FLOOR ELEVATION.
- 2. FINISHED FLOORS PER PLANS.
- 3. FIELD VERIFY FOR DIMENSION DROP 4" FOR SHOWER AND BATHTUB USE.
- 4. 1% SLOPE ON OUTDOOR BALCONIES FOR WATER RUN OFF.
- 5. 2% SLOPE TOWARDS THE SHOWER DRAIN FOR SUFFICIENT DRAINAGE.
- 6. 4" DROP AT THE DOOR LEADING TO EXTERIOR BALCONY FROM THE MAIN LIVING AREA.
- 7. 5% SLOPE FOR GARAGE IS USED, WHICH SHOULD BE CHECKED WITH THE LOCAL GARAGING ZONING LAWS.

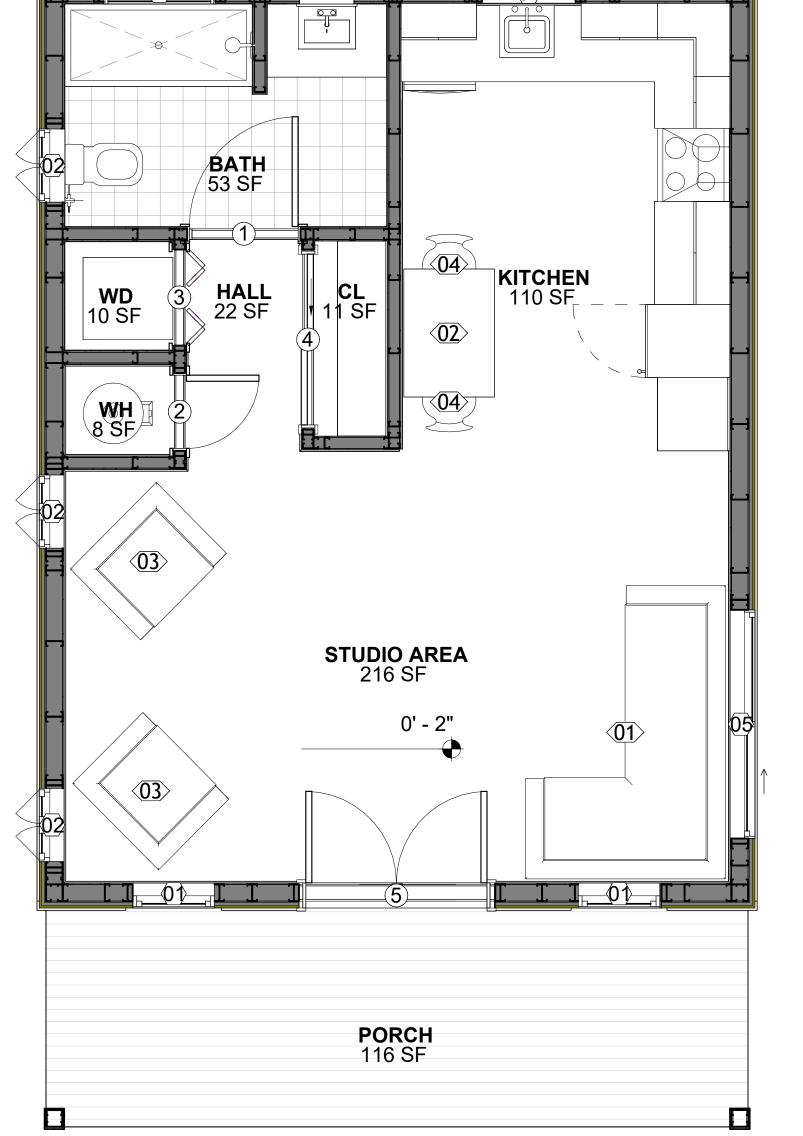


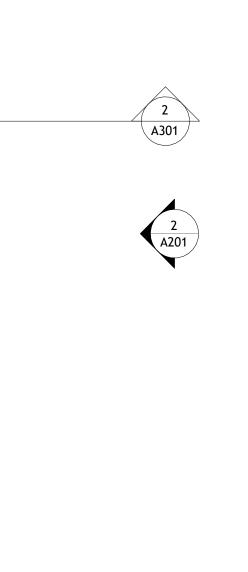


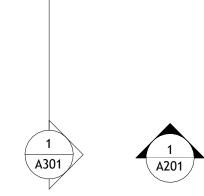
	FURNITURE SCHEDULE				
	TYPE MARK	TYPE	COUNT		
01		FOUR SIT 65" X 95"	1		
02		CLOSED - 900 X 660MM 2	1		
03		ONE SEAT SOFA	2		
04		DINING CHAIR	2		

	ROOM FINISH SCHEDULE						
ROOM NUMBE R	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	CEILING HEIGHT	COMME NTS
01	STUDIO AREA	HARDWOOD	CONCRETE	WALL PAINT	DRY WALL	8' - 0"	
02	KITCHEN	HARDWOOD	CONCRETE	WALL PAINT + CERAMIC	DRY WALL	8' - 0"	
03	BATH	VINYL TILES	CONCRETE	CERAMIC TILE	MRD	8' - 0"	
04	CL	HARDWOOD	CONCRETE	WALL PAINT	DRY WALL	8' - 0"	
05	HALL	HARDWOOD	CONCRETE	WALL PAINT	DRY WALL	8' - 0"	
06	WH	HARDWOOD	CONCRETE	WALL PAINT	DRY WALL	8' - 0"	
07	WD	HARDWOOD	CONCRETE	WALL PAINT	DRY WALL	8' - 0"	
08	PORCH	PROCELAIN TILE	CONCRETE	EXTERIOR-GRADE PLYWOOD	PLYWOOD	8' - 0"	











SQUARE FOOT	AGE
LIVIN G	485
PORCH	120
TOTAL	605



**KEY PLAN** 

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJ

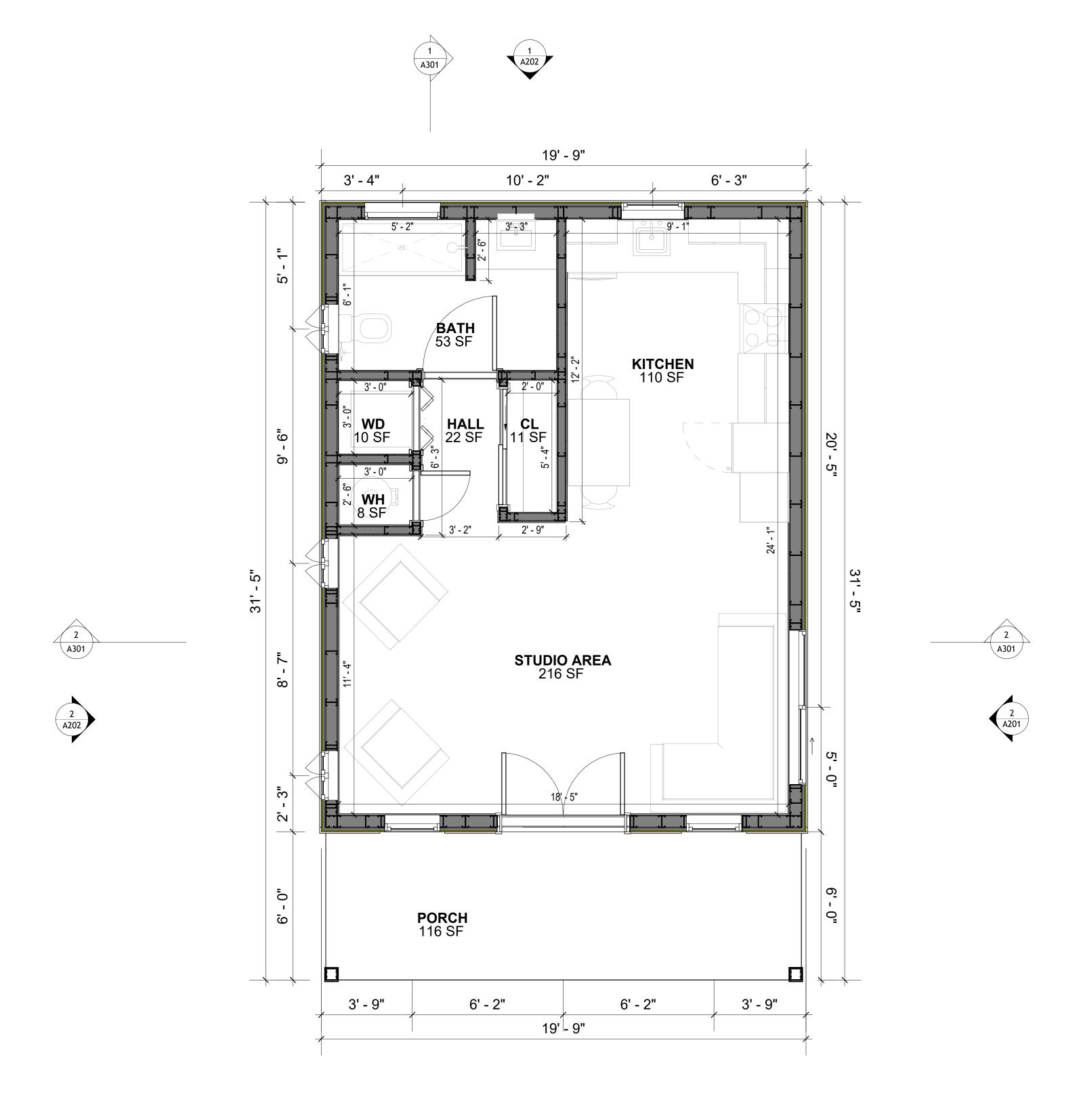
## 153 HAVEN 499 STUDIO RANCH 550

DRAWING NAME

## **FLOOR PLAN**

CLIENT NAME:	Client Name
PROJECT NUMBER:	0061_12
DATE:	3/8/2025 5:14:24 PM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

A101







1 DIMENSION PLAN
3/8" = 1'-0"

DIMENSIONS IN THE ARCHITECTURAL DRAWINGS CONSIDER FINISHING MATERIALS. FOR PRECISE MEASUREMENTS OF THE STRUCTUAL FRAMING, REFER TO THE ATTACHED STRUCTURAL PLAN SET.

SQUARE FOOTAGE

LIVIN 485
G
PORCH 120

TOTAL 605



**KEY PLAN** 

NO.	DESCRIPTION	DATE
	·	

NOTE:

LEGEND:

PROJEC

153 HAVEN 499 STUDIO RANCH 550

DRAWING NAME

**DIMENSION PLAN** 

Client Name
0061_12
3/8/2025 5:14:25 PM
Designer
Author
Checker

A102

SCALE: 3/8" = 1'-0"

#### **FOUNDATION NOTES**

#### NOTES:

TERMITES PRETREATMENT BY LICENSED CONTRACTOR UNDER SLAB AND AROUND FOOTINGS. ALL AREAS BELOW SLABS SHALL BE TREATED NO MORE THAN 24 HOURS PRIOR TO CONCRETE POUR. EVIDENCE OF TREATMENT MUST BE PROVIDED PRIOR TO PLACING OF CONCRETE.

#### 1. MATERIALS:

ALL INTERIOR CONCRETE SLABS SHALL BE A MIN. OF 4" THICK CONCRETE OVER 4" COMPACTED AGGREGATE BASE (ASTM D698), FINISH ELEVATIONS AS NOTED ON DRAWINGS, 6" ABOVE ADJACENT GRADE, LEVEL SLABS TO 1/8"-10' MAX.. CONCRETE SLABS SHALL BE 2500# PSI AT 28 DAYS. A 4" ALLOWABLE SLUMP.

#### 2. **PAD PREPARATION:**

- EXCAVATION FOR FOOTING SHALL BE NEAT.

- FOOTINGS SHALL BE POURED IMMEDIATELY AFTER EXCAVATION AND APPROPRIATE INSPECTION.

- ALL REINFORCING STEEL MARKED "CONTINUOUS" SHALL BE LAPPED 36 BAR DIAMETERS AT SPLICES AND AROUND CORNERS OR INTERSECTIONS WITH A STANDARD 90 DEGREE BEND ON CORNER BARS. LAP WIRE MESH ONE FULL MESH AT SIDE AND END LAPS.

- ALL HARDWARE TO BE SIMPSON OR EQUIVALENT.
- EXTERIOR FRAME WALL TO BE SECURED WITH 1/2"X10" ANCHOR BOLTS 4'-0" O.C. FOR 1-STORY AND 2'-8" O.C. FOR 2-STORY. BOLTS SHALL BE LOCATED WITHIN 1'-0" OF EACH END

PIECE AND SHALL HAVE A MIN. OF TWO BOLTS PER PIECE.
-FOUNDATION ANCHOR STRAPS SHALL BE PERMITTED, ACCORDING TO RESIDENTIAL CODE

- ALL INTERIOR WALLS TO BE SECURED WITH POWER DRIVEN PINS PER MANUFACTURER SPECIFICATION USE PIN SPACING EQUIVALENT TO 1/2" ANCHOR BOLTS.

ALL CONSTRUCTION TO CONFORM TO THE 2012 IRC
 R-10 RIGID INSULATION OUTSIDE OF EXTERIOR FOUNDATION WALLS UNDER LIVING AREA.
 CONCRETE PAD FOR CONDENSER THICKNESS IS 4" MIN UNLESS OTHERWISE NOTED.

#### 3. CONCRETE CONSTRUCTION:

- THE SLAB SHALL BE UNDERLAIN BY A VAPOR BARRIER/RETARDER IN THE LIVING AREA (TYPICALLY POLYETHYLENE, UNLESS MORE STRINGENT PROTECTION REQUIRED BY THE ARCHITECT, ENGINEER, FLOOR COVERING MANUFACTURER, OR ACCEPTED PRACTICE). UNLESS OTHERWISE REQUIRED, BARRIER MAY BE OMITTED AT GARAGES, PORCHES AND PATIOS WITHOUT FLOOR COVERINGS. IT IS BEYOND THE SCOPE OF THESE PLANS TO DETERMINE THE APPLICABILITY OF THESE MORE STRINGENT REQUIREMENTS. BUILDER SHALL VERIFY PRIOR TO CONSTRUCTION.

#### 4. REINFORCEMENT:

- IF CONSTRUCTED ON ACTIVE SOILS, THE LONG TERM PERFORMANCE OF THE FOUNDATION IS DEPENDENT ON MAINTENANCE BY THE OWNER. THUS THE BUILDER SHALL ADVISE THE OWNER OF THE FOLLOWING:

1. DRAINAGE MUST BE MAINTAINED. WATER SHALL NEVER BE ALLOWED TO POND NEAR THE FOUNDATION.

2. THE SOIL AROUND THE FOUNDATION SHALL BE MAINTAINED IN A RELATIVELY DAMP CONDITION, SUCH AS THAT REQUIRED TO KEEP A LAWN GREEN. IF IT DRIES OUT IT WILL SHRINK. IF IT GETS WET, IT WILL HEAVE UPWARD.

3. SLABS ON THE SHORTER SIDE USES MAIN BARS ARE USED IN THIS DIRECTION ONLY WITH SMALLER DIAMETER DISTRIBUTION BARS ARE PLACED, FORMING A MAT OR GRID.

ALL REINFORCEMENT BARS SIZE 10MM OR LARGER IN ACCORDANCE TO ASTM
 ANCHOR BOLTS AT ALL EXTERIOR WALLS SHALL BE MINIMUM 1/2 INCH DIAMETER WITH A MAXIMUM SPACING OF 6'-0" ON CENTER, UNLESS NOTED OTHERWISE.
 ANCHOR BOLTS SHALL BE INSTALLED WITHIN 12 INCHES OF EACH END OF EACH SILL BLATE LONGER

PLATE WITH AT LEAST TWO ANCHOR BOLTS FOR EACH BOLTS FOR EACH SILL PLATE LONGER THAN 12 INCHES.

5 SIMPSONS SILL ANCHORS MAYBE SUBSTITUTED FOR ANCHOR BOLTS AT THE SAME

5. SIMPSONS SILL ANCHORS MAYBE SUBSTITUTED FOR ANCHOR BOLTS AT THE SAME SPACING.

6. EXTERIOR CONCRETE SLABS WHICH ARE NOT PART OF THE MAIN SLAB SHALL BE MINIMUM 4 INCHES THICK WITH NO STEEL REINFORCING BARS REQUIRED, UNLESS NOTED OTHERWISE ON FOUNDATION PLAN.

#### VERIFY THE FOLLOWING PRIOR TO POURING:

1. ALL HOLDDOWNS , STRAP, AND POST LOCATIONS.

2. CONCRETE FINISHES. PANEL RISER LOCATION - WHERE APPLICABLE.

3. UNDERSLAB MECHANICAL REQUIREMENTS.4. STEM WALL BLOCKOUTS.

5. UNDERSLAB ELECTRICAL REQUIREMENTS AND PANEL RISER LOCATION. WHERE

APPLICABLE.
6. PROVIDE THE FOLLOWING:

- PVC SLEEVES THROUGH FTG IF REQUIRED

- 20' #4 COPPER GROUND BAR.

25 "14 GOT LETT GROUND BATTS."

26 "14 GOT LETT GROUND BATTS."

27 "14 GOT LETT GROUND BATTS."

28 "14 GOT LETT GROUND BATTS."

29 "14 GOT LETT GROUND BATTS."

20 "14 GOT LETT GROUND BATTS."

20 "14 GOT LETT GROUND BATTS."

21 "14 GOT LETT GROUND BATTS."

21 "14 GOT LETT GROUND BATTS."

22 "14 GOT LETT GROUND BATTS."

23 "14 GOT LETT GROUND BATTS."

24 "15 GOT LETT GROUND BATTS."

25 "14 GOT LETT GROUND BATTS."

26 "14 GOT LETT GROUND BATTS."

27 "14 GOT LETT GROUND BATTS."

27 "14 GOT LETT GROUND BATTS."

28 "14 GOT LETT GROUND BATTS."

29 "14 GOT LETT GROUND BATTS."

20 "14 GOT LETT GROUND BATTS."

20 "14 GOT LETT GROUND BATTS."

26 "15 GOT LETT GROUND BATTS."

27 "15 GOT LETT GROUND BATTS."

27 "15 GOT LETT GROUND BATTS."

28 "15 GOT LETT GROUND BATTS."

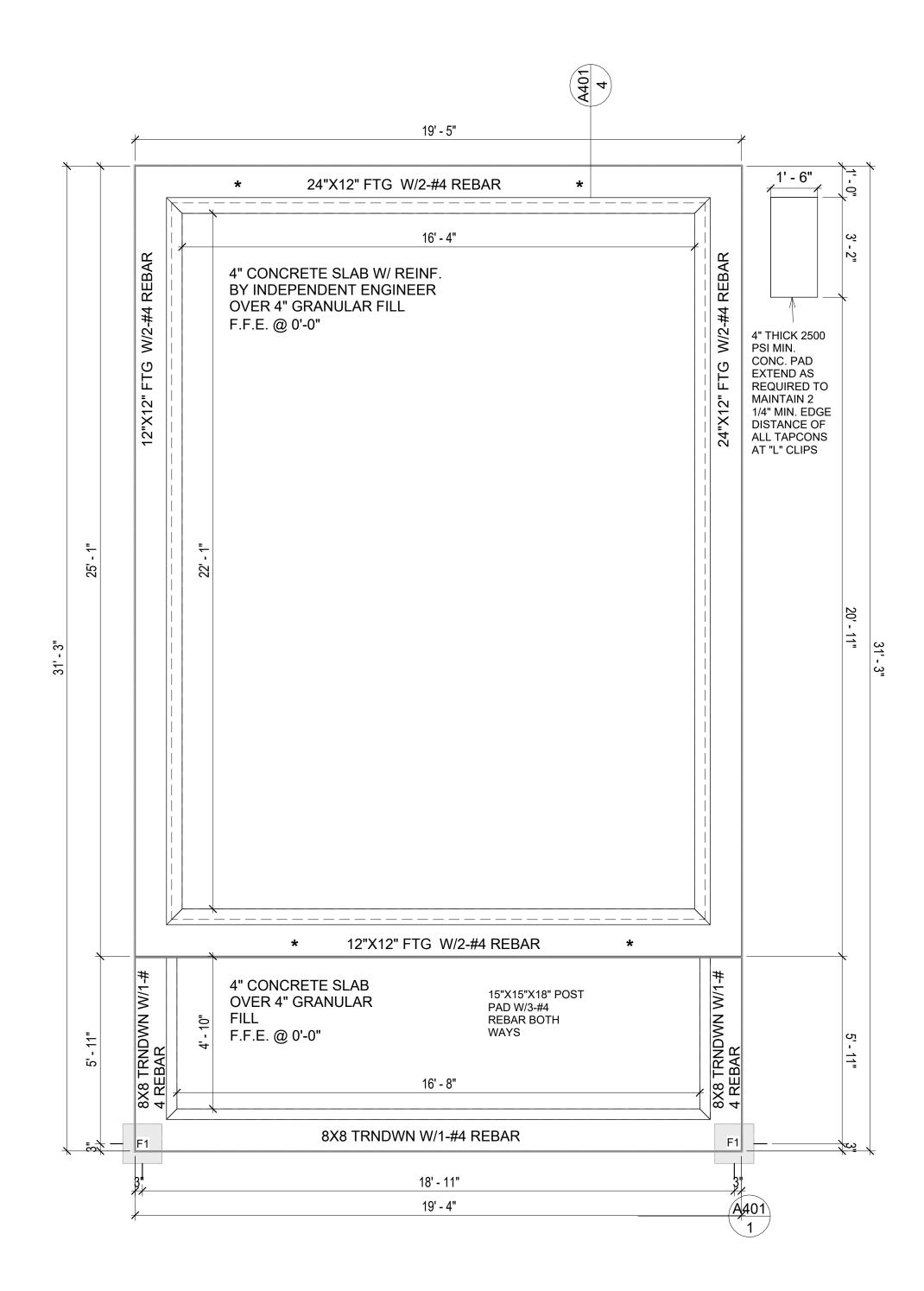
28 "15 GOT LETT GROUND BATTS."

29 "15 GOT LETT GROUND BATTS."

20 "15 GOT LETT GROUND BATTS."

21 "15 GOT LETT GROUND BATTS."

**NOTE**: FIELD VERIFY ALL DIMENSIONS SEE DIMENSIONED ARCHITECTURAL DRAWINGS



1 FOUNDATION PLAN
3/8" = 1'-0"



**KEY PLAN** 

NO. DESCRIPTION DATE

LEGEND:

NOTE:

PROJECT

153 HAVEN 499 STUDIO RANCH 550

DRAWING NAME

**FOUNDATION PLAN** 

CLIENT NAME:

PROJECT NUMBER:

0061\_12

DATE:

3/8/2025 5:14:26 PM

DESIGNED BY:

DRAWN BY:

CHECKED BY:

Checker

**S101** 

SCALE: 3/8" = 1'-0"

SQUARE FOOTAGE

PORCH

TOTAL

485

120

605

#### **GENERAL NOTES**

#### NOTES

-ALL BEARING WALLS SHOULD HAVE A THICKENED SLAB PER SECTION PER DETAIL A401/5.

#### A) FOUNDATION PLAN NOTES:

- 1. CONCRETE SLAB SHALL BE 6" THICK WITH 1/2" DIAMETER TENDONS PER LAYOUT PLAN, CENTERED IN SLAB THICKNESS, OVER APPROVED SUBBASE PER GENERAL STRUCTURE NOTES.
- TERMITE PROTECTION SHALL BE PROVIDED PER IRC SECTION R318.1
   NONE TYPICAL ANCHOR BOLT SPACING AT SHEAR WALL AND HOLD DOWN
- SPECIFICATIONS PER APPROVED ARCHITECTURAL PLANS.
- 4. INSTALL HOLDOWNS BEFORE CONCRETE SLAB POUR.
- 5. EXISTING FILL ON-SITE SHALL BE COMPACTED IN ACCORDANCE WITH THE REQUIREMENTS IN THE GEOTECHNICAL REPORT.
- 6. ALL FLOOR SLABS ARE REINFORCED ON CONCRETE SLABS.

#### SPECIAL INSPECTION IS REQUIRED FOR THICKENED FOUNDATION CONSTRUCTION

- 1. REINFORCEMENT
- 2. 2300 PSI CONCRETE POUR

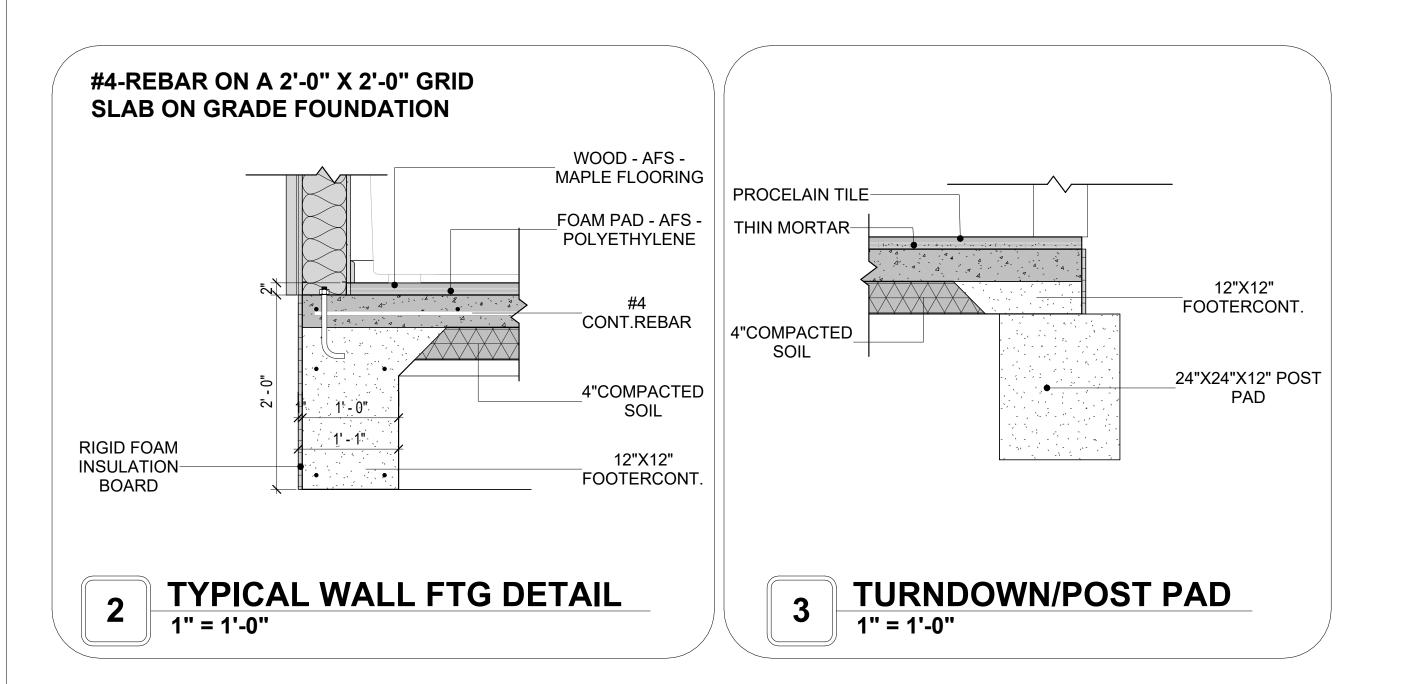
#### B) REINFORCEMENT FOR CONCRETE:

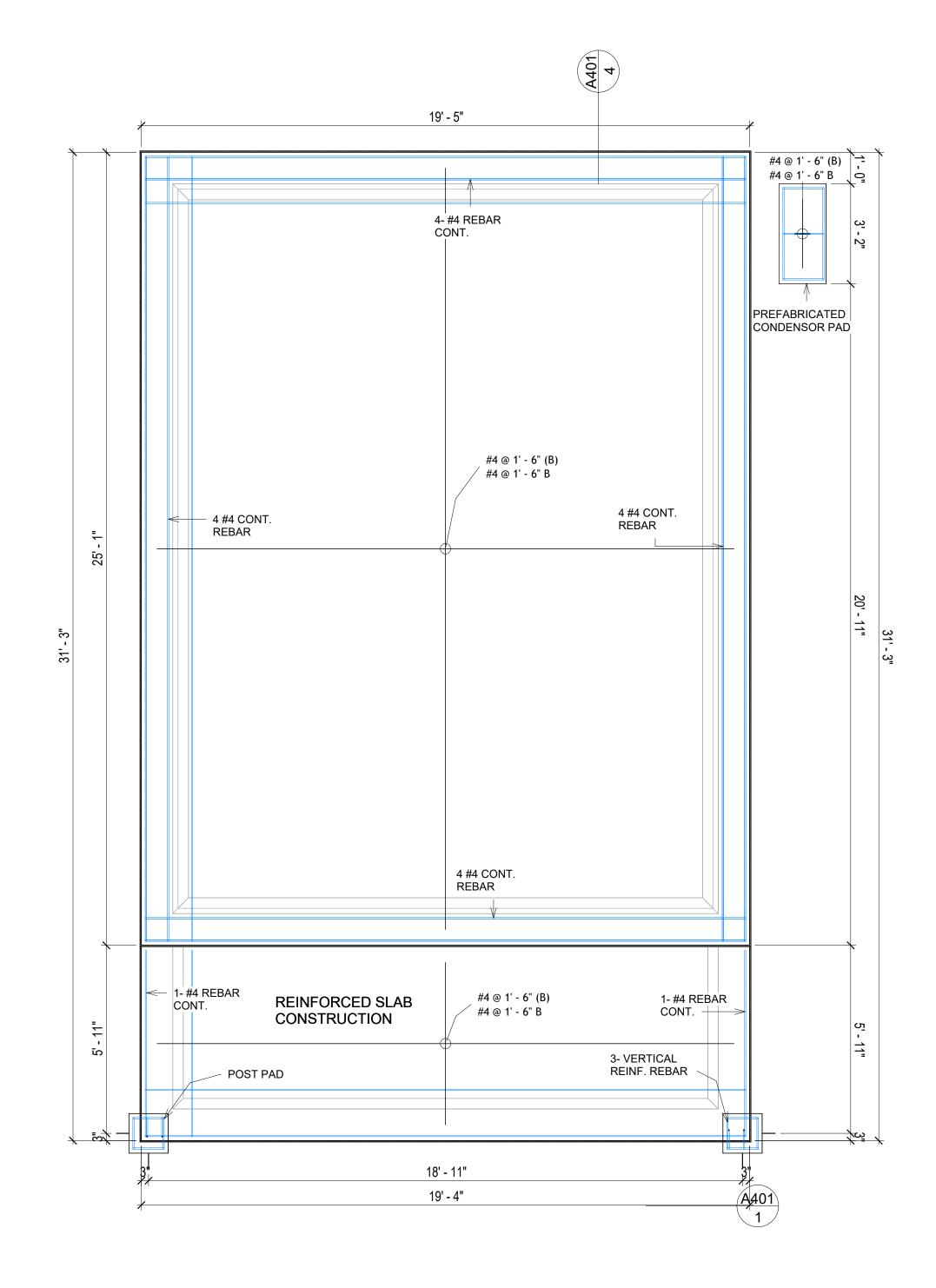
- 1. ALL REINFORCING SLABS BARS SIZE 10MM OR LARGER SHALL BE DEFORMED IN ACCORDANCE TO ASTM-A706, AND BARS SMALLER THAN 10 MM MAYBE PLAIN.

  2. LINE ESS OTHERWISE NOTED IN PLANS. THE YIELD STRENGTH OF REINFORCING BAR
- 2. UNLESS OTHERWISE NOTED IN PLANS, THE YIELD STRENGTH OF REINFORCING BARS SHALL BE:
  - A) FOOTING = 40,000 PSI
  - B) NON-LOAD BEARING WALLS AND PARAPETS= 40,000 PSI
- 3. SPLICES SHALL BE SECURELY WIRED TOGETHER AND SHALL LAP OR EXTEND
- 4. GRADE OF STEEL FOR RCC WORKS SHALL BE GRADE 4 10.
- 5. BAR NOTATIONS GIVES INFORMATION
- A) BAR SIZE
- B) SPACING(IF REQUIRED)
- 6. LAP REINFORCEMENT ONLY AT LOCATION SHOWN IN THE DRAWINGS
- 7. REINFORCEMENT SHALL NOT BE CUT, VENT OR HEATED ON SITE WITHOUT ENGINEERS' APPROVAL.
- C) CONCRETE SLAB NOTES
- 1. ALL SLAB REINFORCEMENT SHALL BE 20MM CLEAR MINIMUM FROM BOTTOM AND FROM TOP OF SLAB.
- 2. REINFORCEMENT IN CONTINUOUS ELEVATED SLAB SHALL BE CUT AS FOLLOWS.

#### NOTE:

- THIS IS A SCHEMATIC PLAN FOR THE PURPOSE OF LOCATING AND IDENTIFYING FOUNDATION REINFORCING ELEMENTS ONLY. VERIFY ALL DIMENSIONS, DROPS, OFFSETS AND FEATURES WITH THE ARCHITECTURAL PLANS BEFORE FORMING THE FOUNDATION.





1 FOUNDATION REBAR PLAN
3/8" = 1'-0"



**KEY PLAN** 

NO.	DESCRIPTION	DATE
NOTE:		

LEGEND:

PROJECT

## 153 HAVEN 499 STUDIO RANCH 550

DRAWING NAME

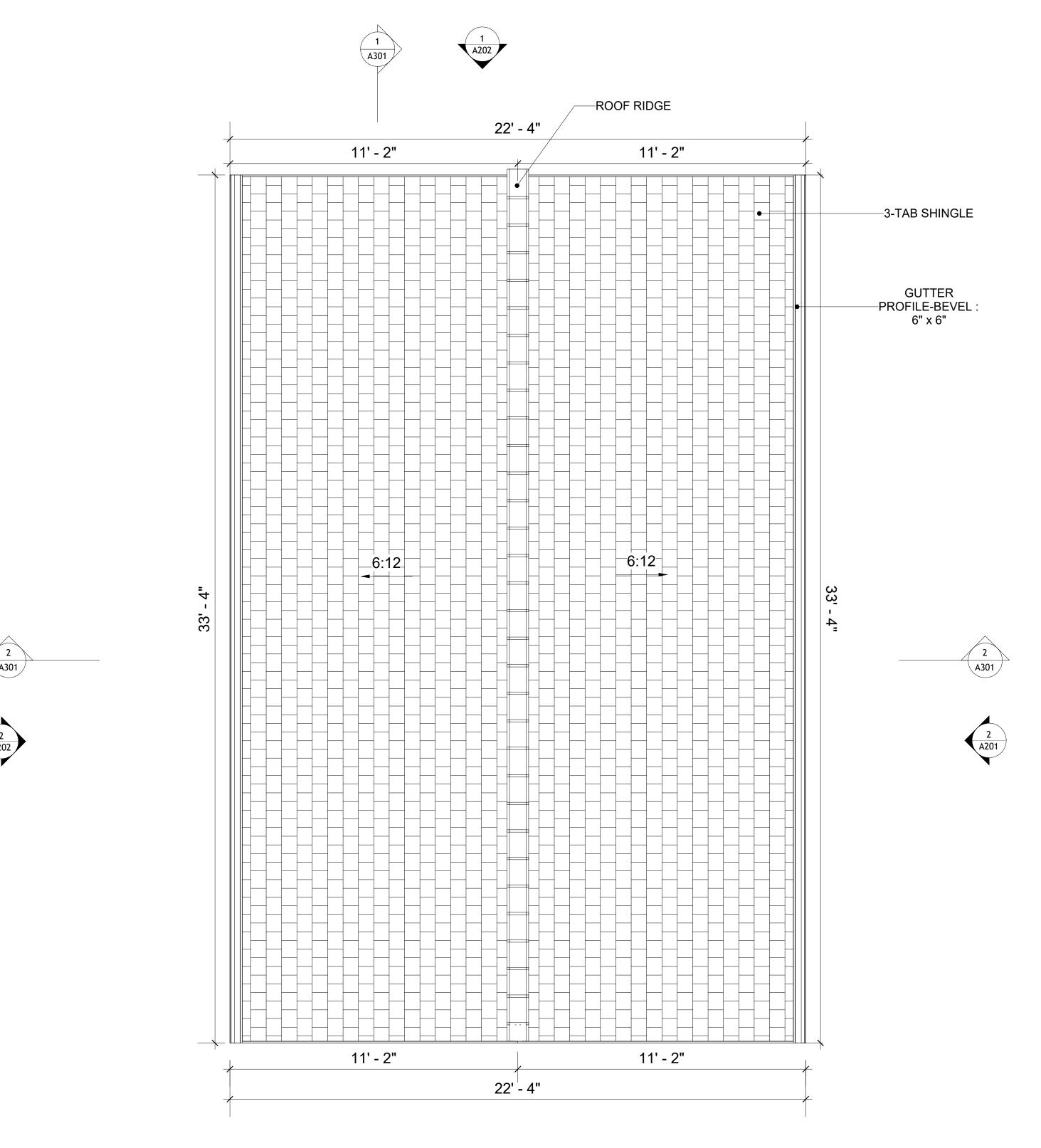
## STRUCTURAL FLOOR PLAN

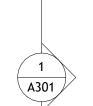
CLIENT NAME:	Client Name
PROJECT NUMBER:	0061_12
DATE:	3/8/2025 5:14:28 PM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

**S102** 

#### **ROOF NOTES**

- ROOFING COMPOSITION ROOFING PER OWNERS/BUILDERS SPECIFICATIONS INSTALL PER MANUFACTURE SPECIFICATIONS ON 1/2" ORIENTED STRAND BOARD ON PRE-ENGINEERED TRUSS @ 24" O.C. (UNO.) 2. 73" OVERHANG AT EAVES (UNO.)
- 3. ENDS OF ALL TRUSSES AND JOISTS TO BE FULLY BLOCKED. PROVIDE SOLID
- BLOCKING AT ALL RIDGES AND VALLEYS
- 4. SHEATHING TO BE 1/2", 3/8" OSB SHEAR PANEL AND EQUIVALENT. UNDERSIDE OF PORCH TRUSSES TO BE FINISHED WITH MOISTURE RESISTANT DRYWALL, TAPED AND TEXTURED.
- 5. EXPOSED EAVES AND OTHER WEATHER EXPOSED AREAS TO BE SHEATHED WITH EXTERIOR GRADE PLYWOOD.
- 6. ALL MATERIALS THICKNESS AND SIZE ARE THE MINIMUM. Refer TO LOCAL STANDARDS FOR ACTUAL THICKNESS AND LAYERING OF MATERIALS.
- ENGINEERED TRUSS CALCULATIONS TO BE SUBMITTED TO BUILDING
- DEPARTMENT PRIOR TO FABRICATION AND INSTALLATION. 8. TRUSS MANUFACTURER TO SPECIFY HANGER CONNECTORS FOR TRUSS
- COMPONENTS (TYPICAL) 9. DESIGNER ASSUMES THAT TRUSSES BEAR ON ALL EXTERIOR PERIMETER
- WALLS (TYPICAL) OR BEAMS.
- 10. PROVIDE GALVANIZED STEEL FLASHING WITH A LENGTH OF 10 FEET, WIDTH OF 12 INCHES, AND THICKNESS OF 24 GAUGE.









SQUARE FOOT	AGE
LIVIN G	485
PORCH	120
TOTAL	605



**KEY PLAN** 

NO.	DESCRIPTION	DATE

LEGEND:

NOTE:

## **153 HAVEN 499 STUDIO RANCH 550**

DRAWING NAME

**ROOF PLAN** 

CLIENT NAME:	Client Name
PROJECT NUMBER:	0061_12
DATE:	3/8/2025 5:14:30 PM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

A103

#### **ABOUT WALL FINISHING**

#### PLYWOOD WALL SIDING

WALL SIDING IS AN EXTERIOR CLADDING MATERIAL USED TO COVER AND PROTECT THE WALLS OF A BUILDING, PROVIDING BOTH FUNCTIONAL AND AESTHETIC BENEFITS.

IN THIS SPECIFIC PROJECT, PLYWOOD WALL PANELS ARE USED AS A FINISH SIDING BECAUSE THIS TYPE OF SIDING PROVIDES A DURABLE, COST-EFFECTIVE, AND VERSATILE EXTERIOR CLADDING THAT CAN BE EASILY INSTALLED, FINISHED, AND MAINTAINED TO ENHANCE THE AESTHETIC AND PROTECTIVE QUALITIES OF A BUILDING'S EXTERIOR.

STANDARD SIZES OF 1' X 8' EXTERIOR-GRADE PLYWOOD PANELS ARE INSTALLED ON THE FURRING STRIPS USING GALVANIZED STEEL SELF-DRILLING SCREWS.

#### **EXTERNAL STONE**

THESE STONE PRODUCTS ARE MADE FROM A BLEND OF NATURAL AGGREGATES, CEMENT, AND OTHER PROPRIETARY MATERIALS.

THE STONE FINISH IS DIRECTLY ATTACHED TO COLD-FORMED STEEL (CS) FRAMING. (FOR COLUMN FINISH) EXTERNAL STONE CAN BE AN EXCELLENT EXTERIOR CLADDING OPTION FOR CS-FRAMED BUILDINGS. IN THIS SCENARIO, THE EXTERNAL STONE WOULD BE ADHERED TO THE CS FRAME USING A SCRATCH COAT AND MORTAR-BASED ADHESIVE.

#### **CAST MANUFACTURED STONE**

MANUFACTURED STONE, ALSO KNOWN AS CULTURED OR ARTIFICIAL STONE, IS A SYNTHETIC BUILDING MATERIAL MADE FROM A BLEND OF CEMENT, AGGREGATES, AND PIGMENTS TO MIMIC THE APPEARANCE OF NATURAL STONE. IT IS LIGHTWEIGHT, DURABLE, AND CUSTOMIZABLE IN COLOR AND TEXTURE.

IN THIS PROJECT, MANUFACTURED STONE IS USED AS THE COPING MATERIAL, PROVIDING A DURABLE AND AESTHETIC FINISH THAT MIMICS THE APPEARANCE OF NATURAL STONE.

#### **WOOD SHAKES**

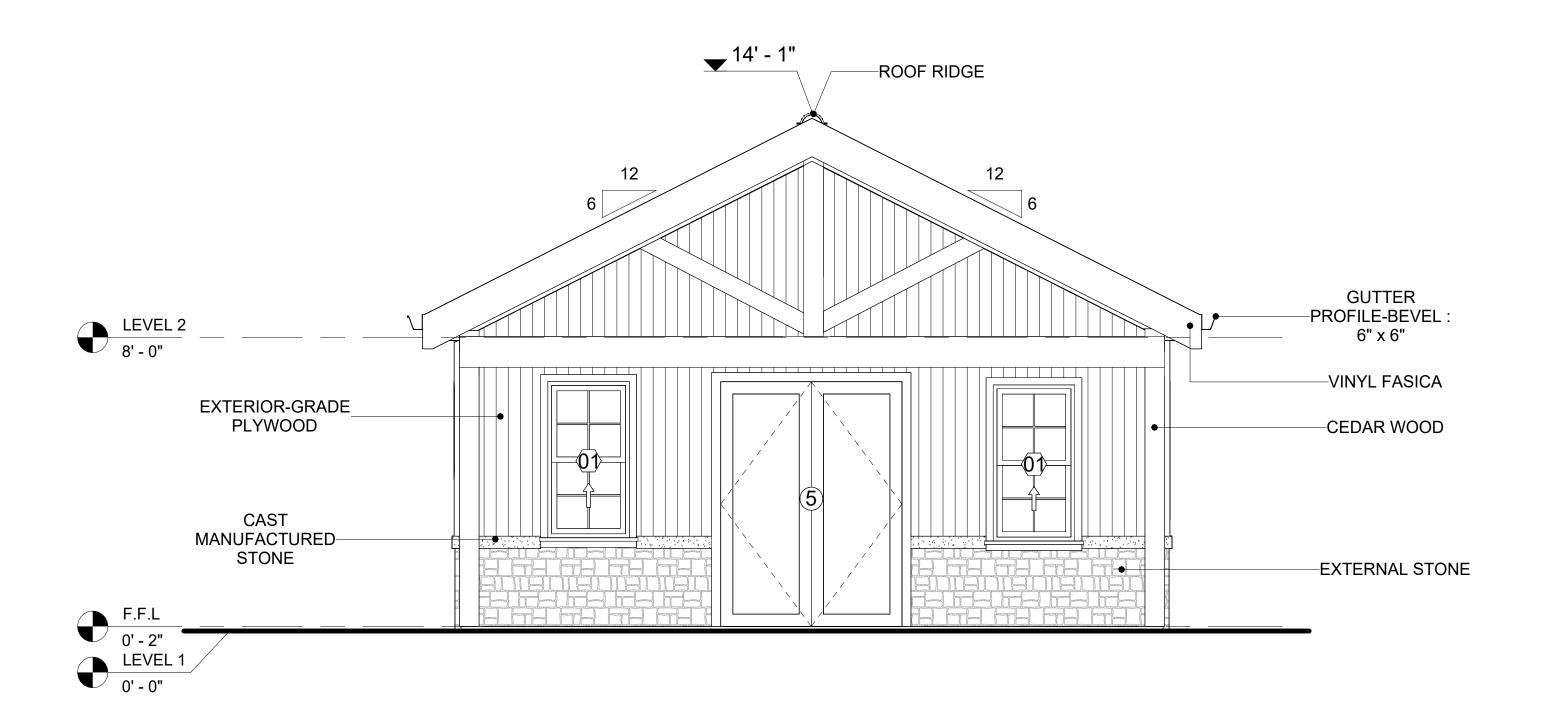
WOOD SHAKES ARE ROUGH-SAWN PIECES OF WOOD, TYPICALLY MADE FROM CEDAR OR REDWOOD, USED FOR ROOFING OR WALL CLADDING. THEY OFFER A RUSTIC, TEXTURED LOOK BUT REQUIRE REGULAR MAINTENANCE FOR DURABILITY AND PROTECTION AGAINST THE ELEMENTS.

IN THIS SPECIFIC PROJECT, WOOD SHAKES ARE APPLIED AT THE TOP OF THE EXTERNAL WALL, CREATING AN EYE-CATCHING DETAIL THAT COMPLEMENTS THE OVERALL ARCHITECTURE AND ENSURES A STURDY, WEATHER-RESISTANT FINISH.

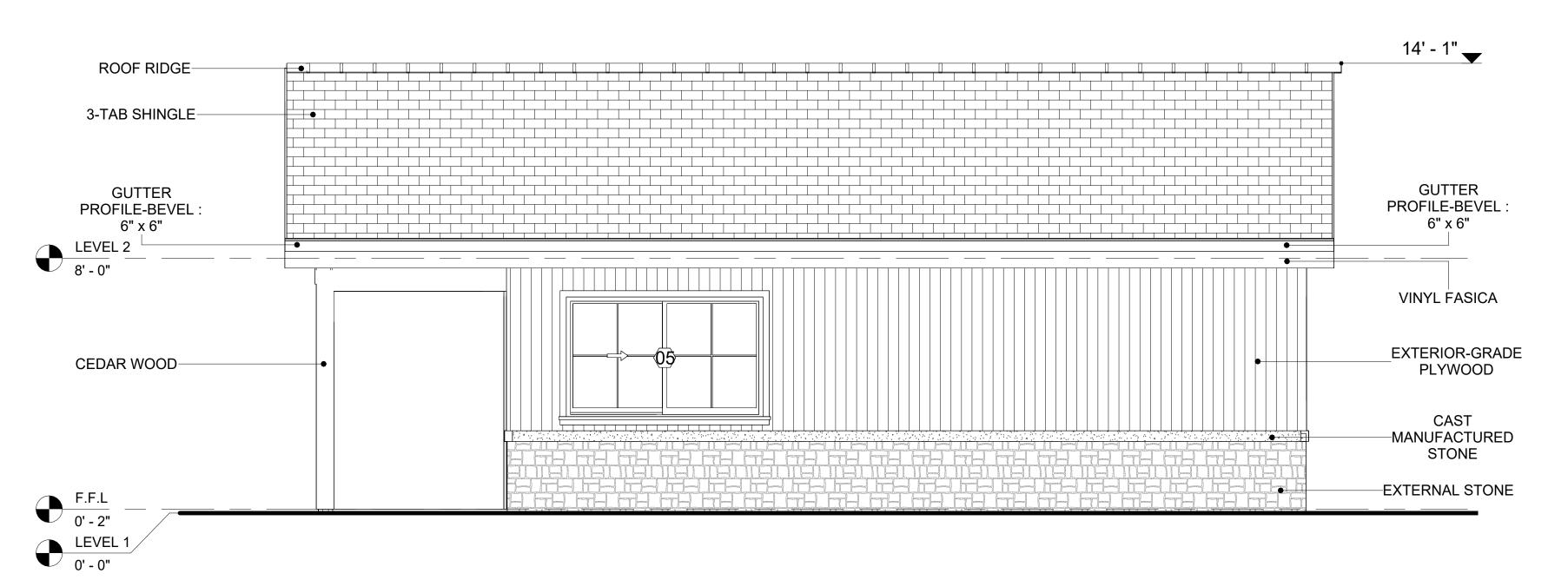
#### CEDAR WOOD

CEDAR WOOD REFERS TO THE WOOD FROM VARIOUS SPECIES OF CEDAR TREES, WHICH ARE CONIFEROUS EVERGREEN TREES KNOWN FOR THEIR DISTINCT AROMA AND NATURAL RESISTANCE TO DECAY AND INSECTS.

IN THIS SPECIFIC PROJECT, CEDAR WOOD IS USED A FINISH MATERIAL ON BEAMS AND COLUMNS.



## 1 FRONT ELEVATION 3/8" = 1'-0"



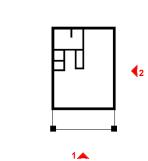
## 2 RIGHT SIDE ELEVATION 3/8" = 1'-0"

		DOOR SCHE	DULE			
TYPE				5	SIZE	
MAR K	SUPPLIER	DOOR TYPE	LOCATIO N	WIDTH	HEIGHT	COUNT
					•	
1	HOME DEPOT	INTERIOR SINGLE PANEL SWINGING	INTERIOR	3' - 0"	6' - 8"	1
2	HOME DEPOT	INTERIOR SINGLE PANEL SWINGING	INTERIOR	2' - 0"	6' - 8"	1
3	HOME DEPOT	DOOR-BIFOLD_9052	INTERIOR	2' - 6"	6' - 8"	1
4	HOME DEPOT	INTERIOR DOUBLE PANEL SLIDING	INTERIOR	4' - 8"	6' - 8"	1
5	HOME DEPOT	EXTERIOR DOUBLE PANEL SWINGING	INTERIOR	5' - 0"	6' - 8"	1

		WINDOW	SCHEDULE		
				SIZE	
TYPE MARK	SUPPLIER	WINDOW TYPE	WIDTH	HEIGHT	COUNT
01	HOME DEPOT	SINGLE HUNG	2' - 3"	4' - 3"	2
02	HOME DEPOT	DOUBLE HUNG	2' - 0"	2' - 4"	3
03	HOME DEPOT	FIXED	3' - 1"	2' - 1"	1
04	HOME DEPOT	SINGLE HUNG	2' - 7"	3' - 3"	1
05	HOME DEPOT	SLIDING	6' - 3"	3' - 9"	1



**KEY PLAN** 



	NO.	DESCRIPTION	DAIE
1			_

NOTE:

LEGEND:

PROJECT

### 153 HAVEN 499 STUDIO RANCH 550

DRAWING NAME

## ARCHITECTURAL ELEVATIONS

Client Name	CLIENT NAME:
0061_12	PROJECT NUMBER:
3/8/2025 5:14:33 PM	DATE:
Designer	DESIGNED BY:
Author	DRAWN BY:
Checker	CHECKED BY:

A201

#### **ABOUT WALL FINISHING**

#### PLYWOOD WALL SIDING

WALL SIDING IS AN EXTERIOR CLADDING MATERIAL USED TO COVER AND PROTECT THE WALLS OF A BUILDING, PROVIDING BOTH FUNCTIONAL AND AESTHETIC BENEFITS.

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#### **WOOD SHAKES**

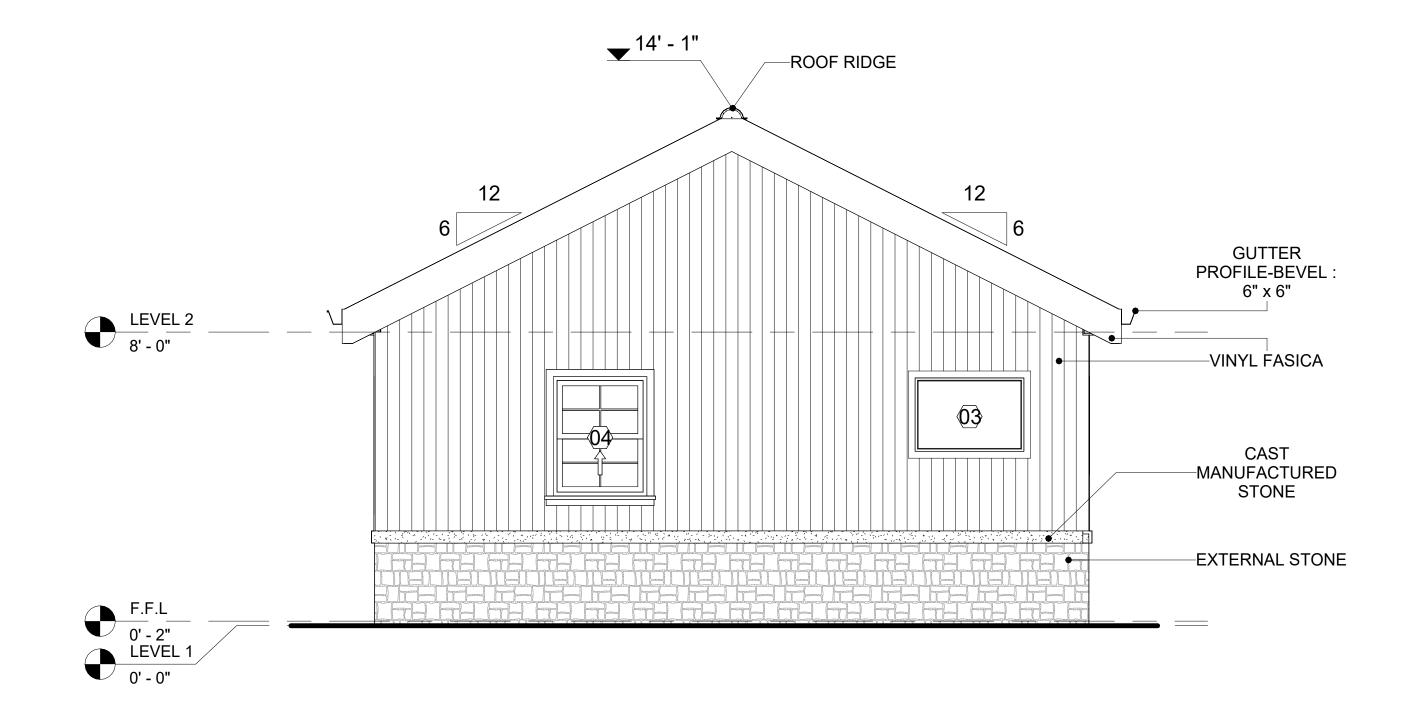
WOOD SHAKES ARE ROUGH-SAWN PIECES OF WOOD, TYPICALLY MADE FROM CEDAR OR REDWOOD, USED FOR ROOFING OR WALL CLADDING. THEY OFFER A RUSTIC, TEXTURED LOOK BUT REQUIRE REGULAR MAINTENANCE FOR DURABILITY AND PROTECTION AGAINST THE ELEMENTS.

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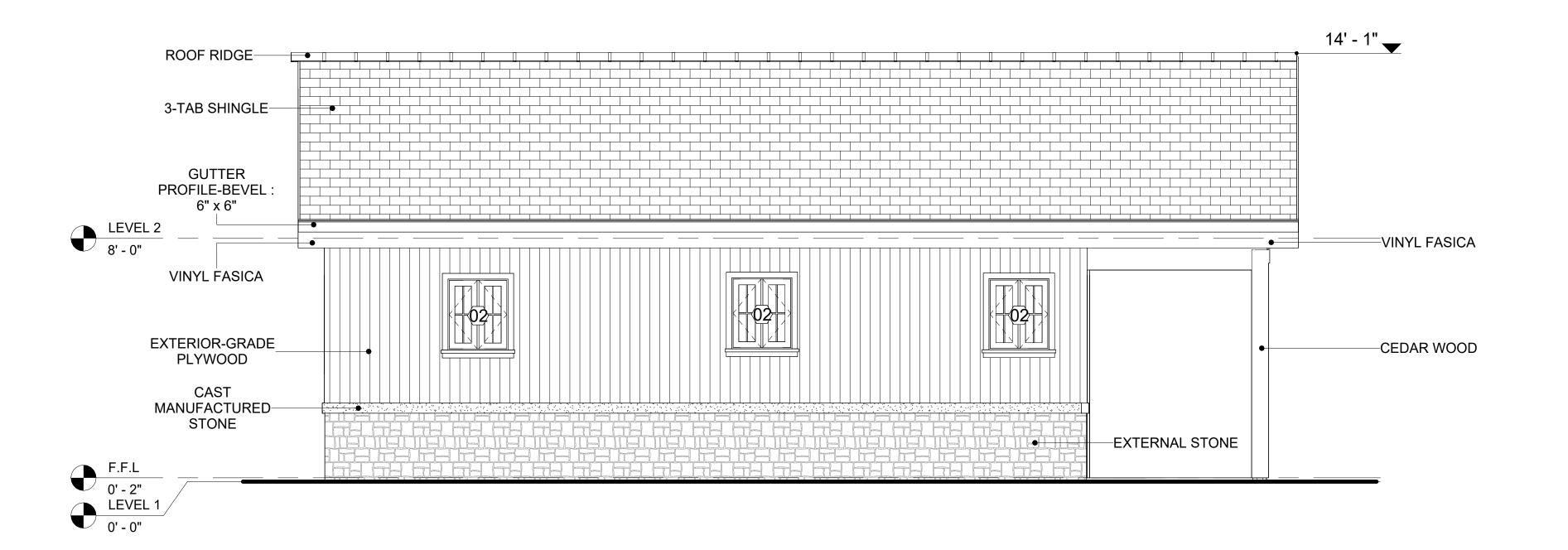
#### CEDAR WOOD

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IN THIS SPECIFIC PROJECT, CEDAR WOOD IS USED A FINISH MATERIAL ON BEAMS AND COLUMNS.



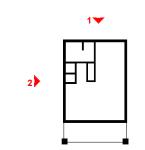
1 REAR ELEVATION
3/8" = 1'-0"



2 LEFT SIDE ELEVATION
3/8" = 1'-0"



**KEY PLAN** 



NO.	DESCRIPTION	DATI

NOTE:

LEGEND:

PROJECT

### 153 HAVEN 499 STUDIO RANCH 550

DRAWING NAME

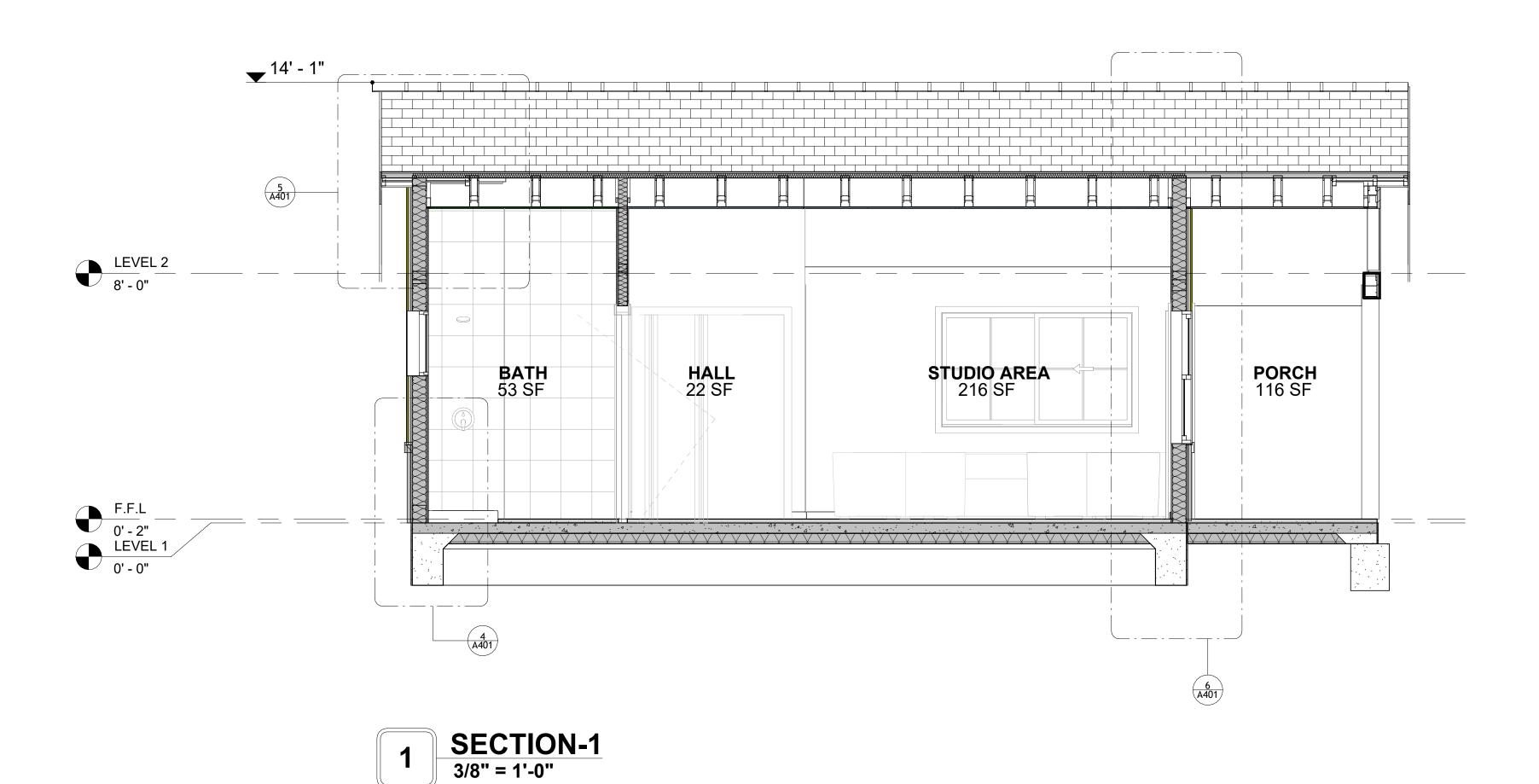
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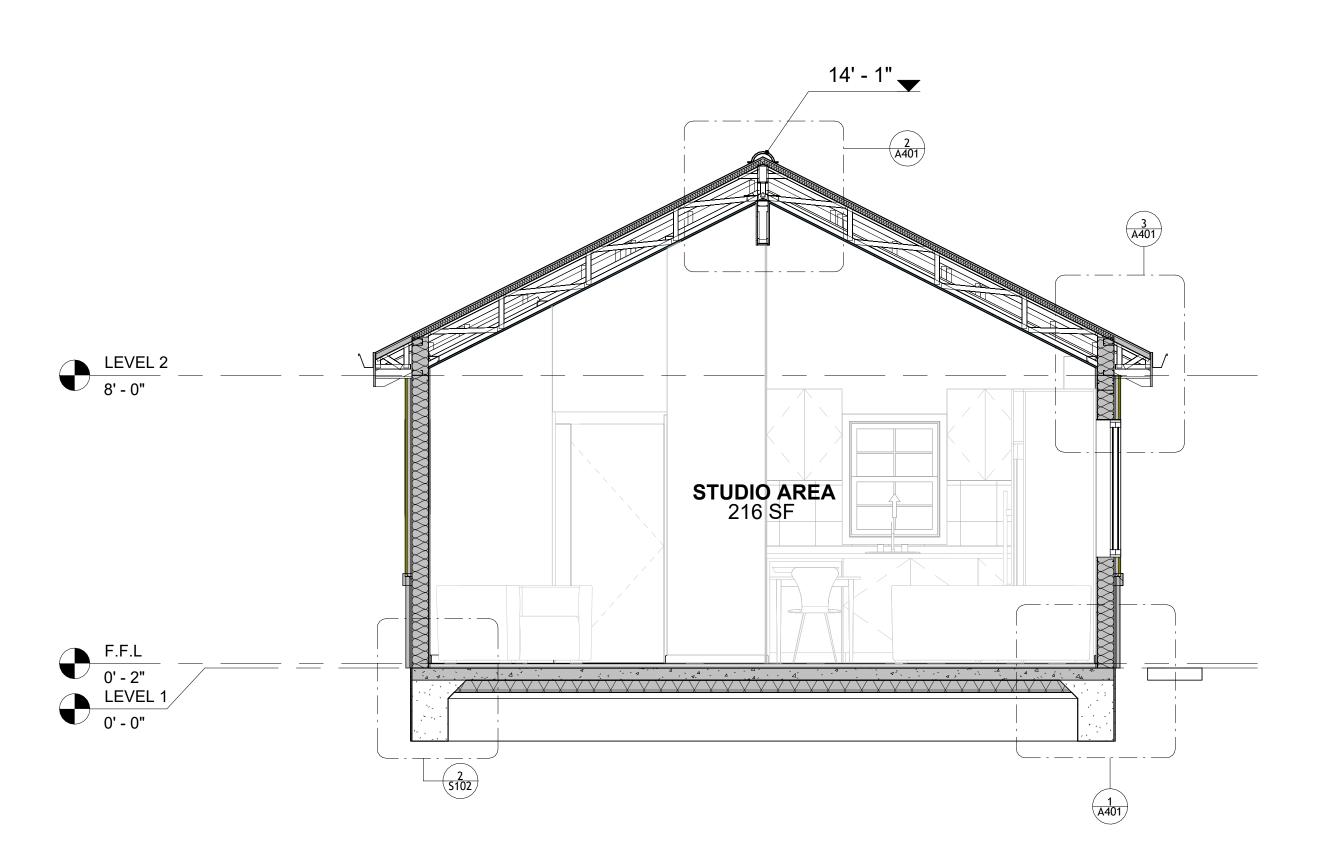
CLIENT NAME:	Client Name
PROJECT NUMBER:	0061_12
DATE:	3/8/2025 5:14:37 PM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

A202

SCALE: As indicated

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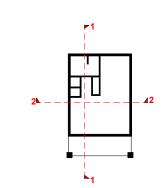




2 SECTION-2 3/8" = 1'-0"



**KEY PLAN** 



NO.	DESCRIPTION	DATE
NOTE:		

LEGEND:

PROJEC<sup>1</sup>

## 153 HAVEN 499 STUDIO RANCH 550

DRAWING NAME

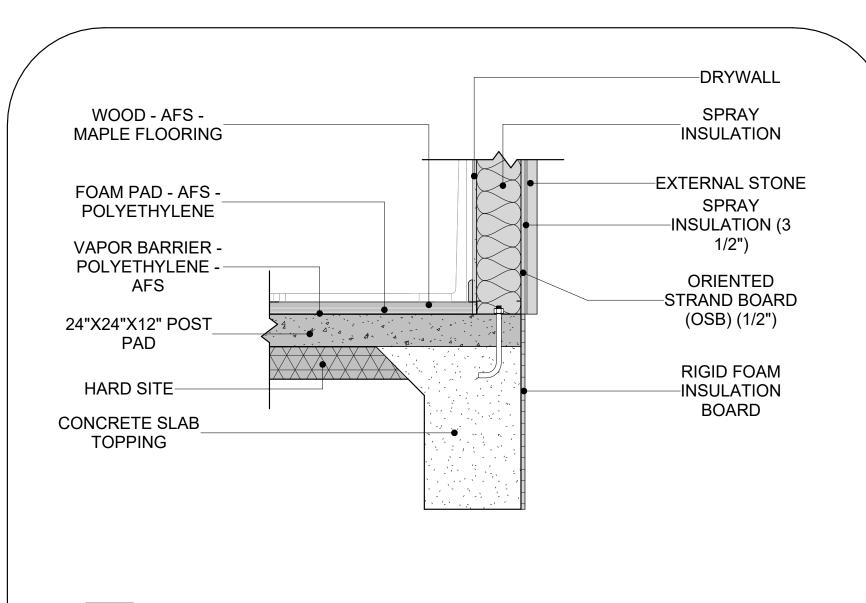
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CLIENT NAME:	Client Name
PROJECT NUMBER:	0061_12
DATE:	3/8/2025 5:14:39 PM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

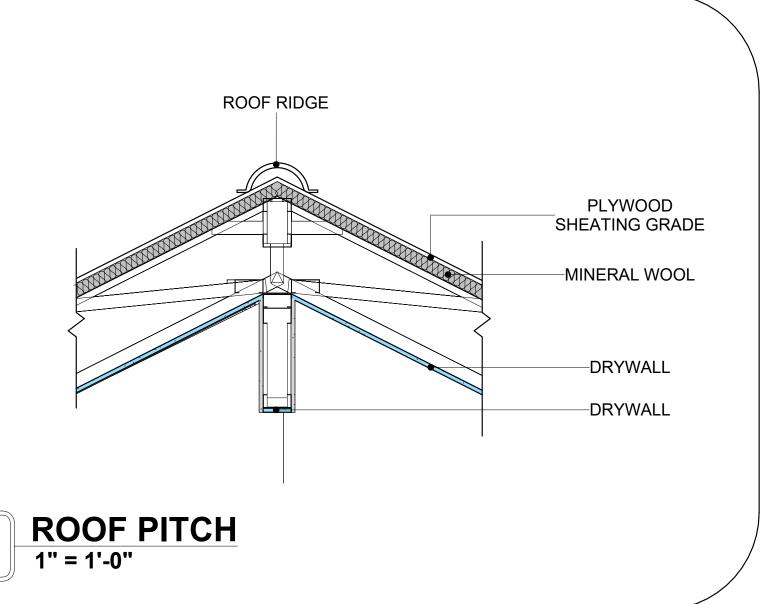
A301

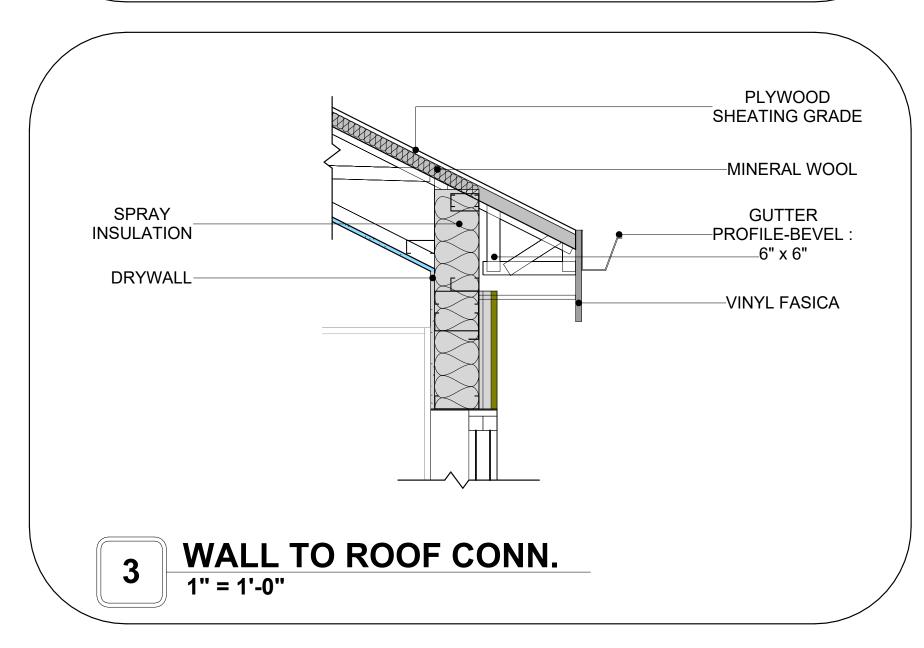
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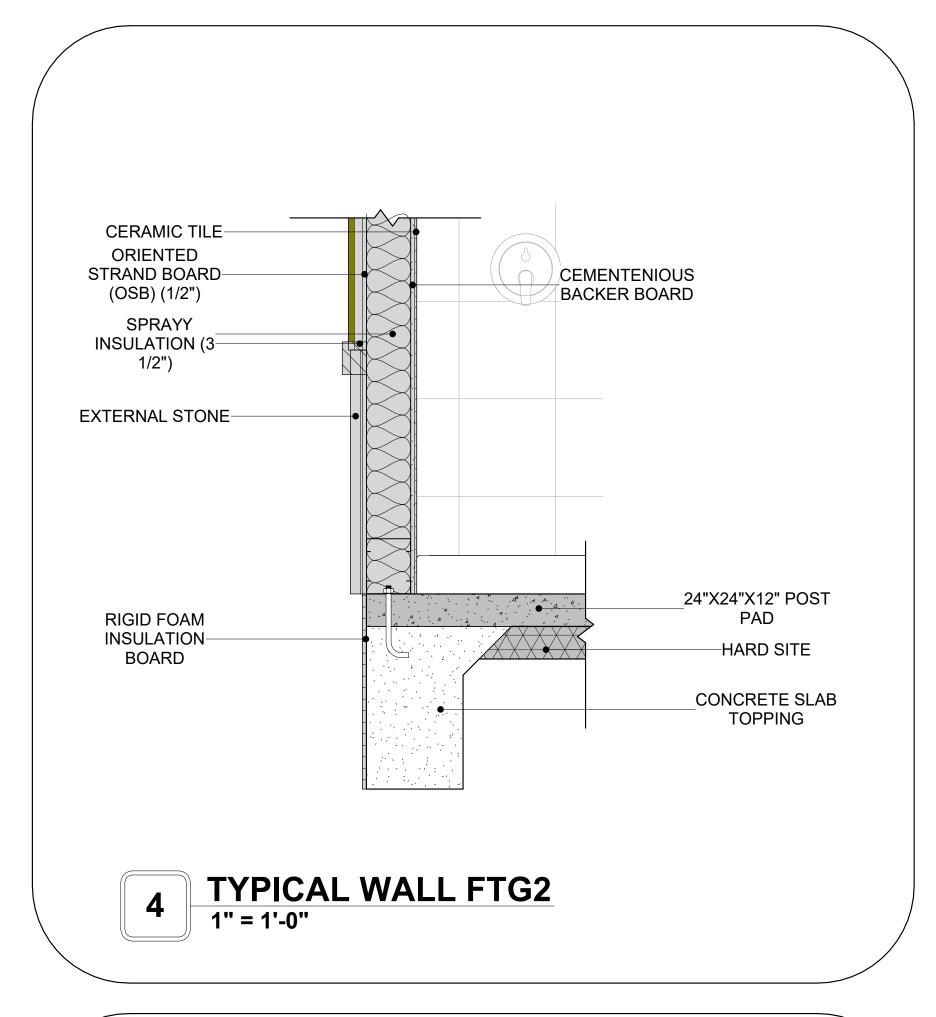
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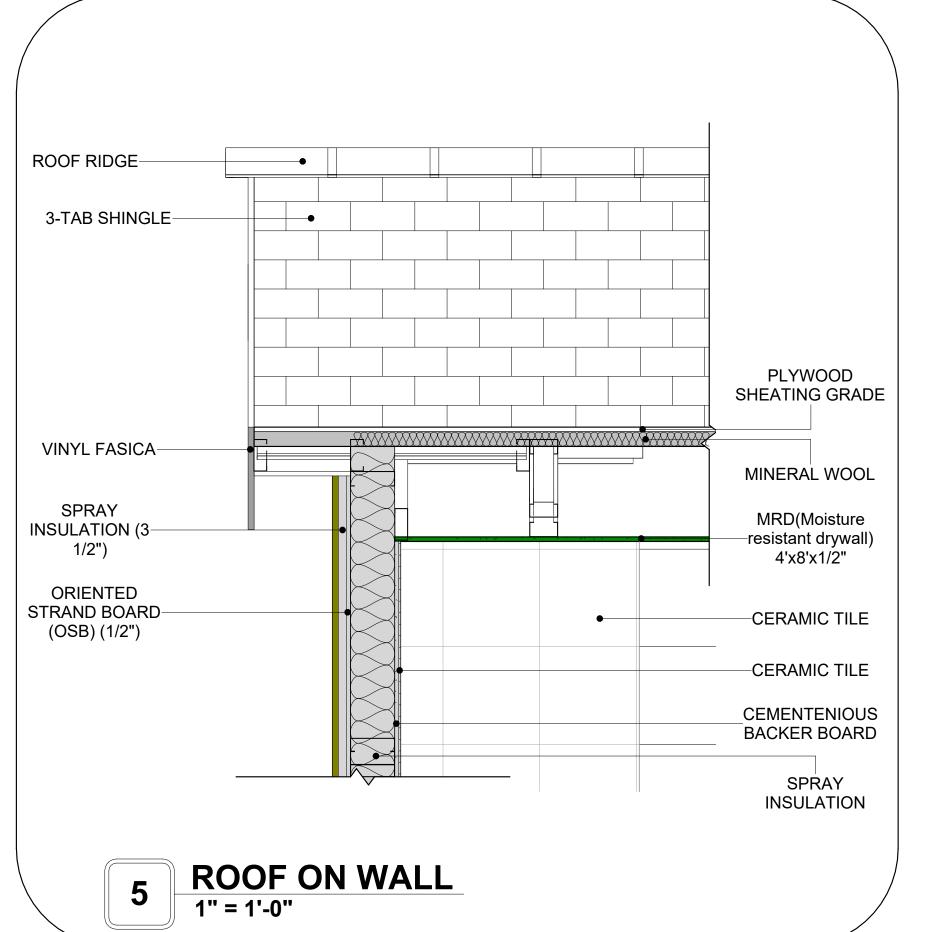


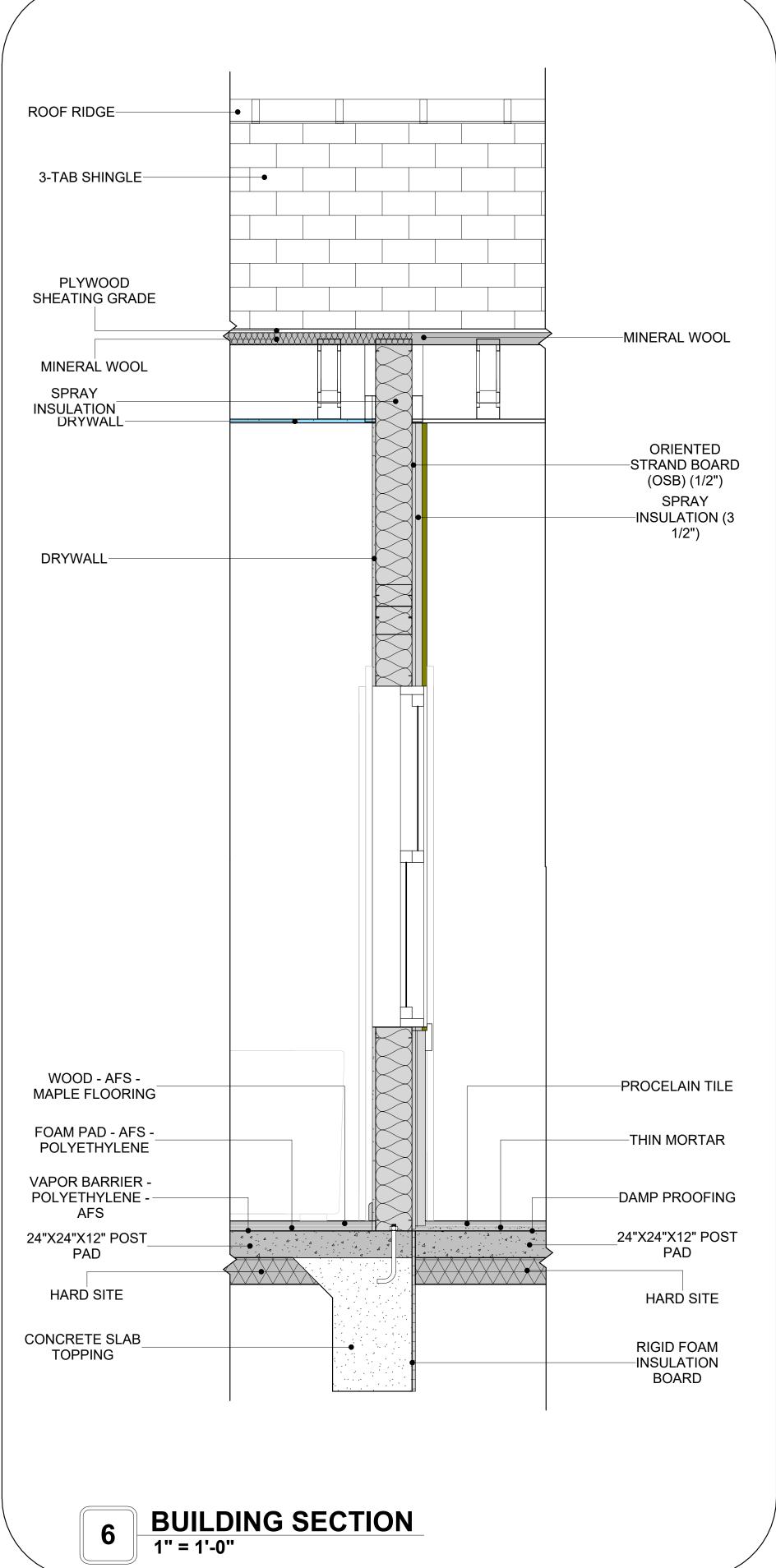
1 TYPICAL WALL FTG
1" = 1'-0"













**KEY PLAN** 

NO.	DESCRIPTION	DATE
NOTE:		

LEGEND:

PROJECT

153 HAVEN 499 STUDIO RANCH 550

DRAWING NAME

## ARCHITECTURAL DETAILS

Client Name	CLIENT NAME:
0061_12	PROJECT NUMBER:
3/8/2025 5:14:41 PM	DATE:
Designer	DESIGNED BY:
Author	DRAWN BY:
Checker	CHECKED BY:

A401

SCALE: 1" = 1'-0"

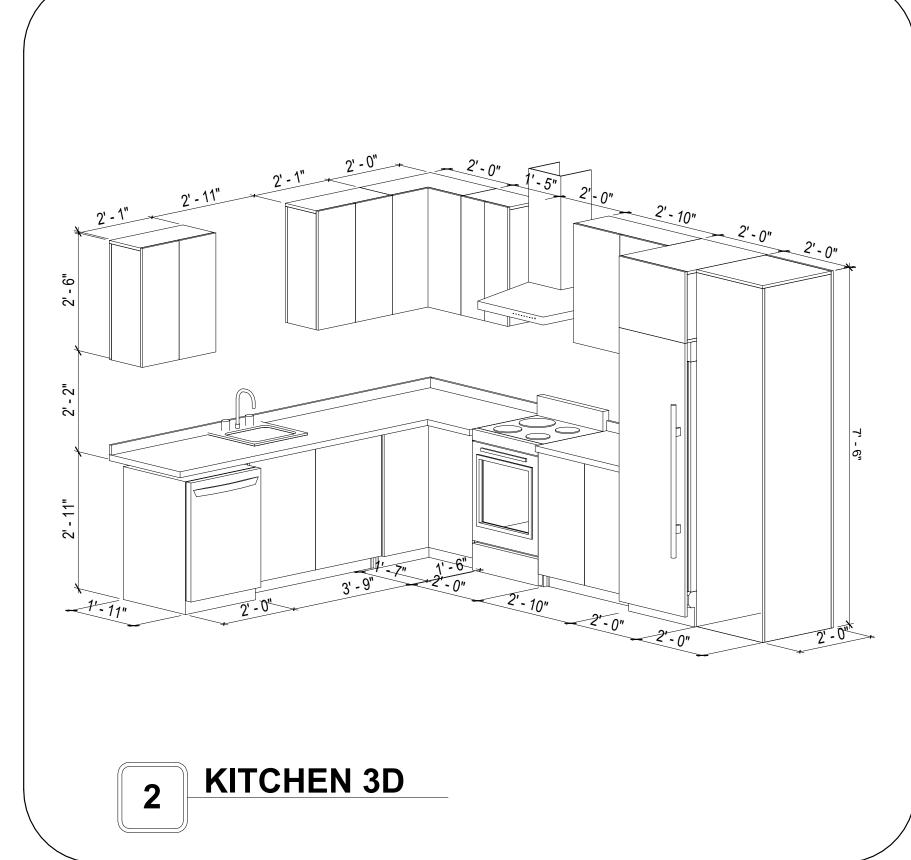
#### **CASEWORK GENERAL NOTES**

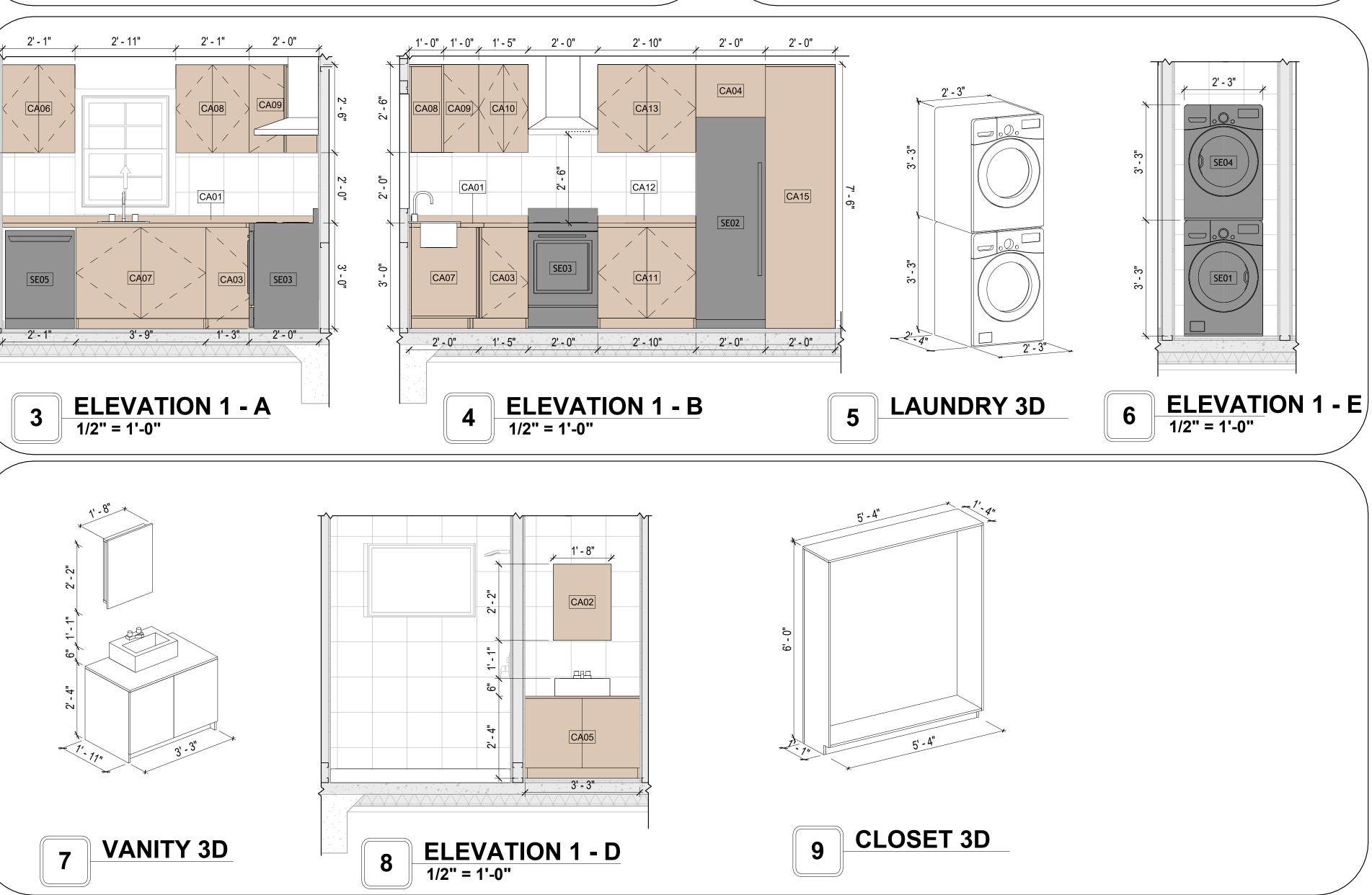
- ALL CABINET HEIGHTS INCLUDE COUNTERTOPS. DIMENSIONS ARE TO THE NEAREST INCH.
   DIVISIONS IN CASEWORK ARE SHOWN FOR CLARITY AND DO NOT REPRESENT BREAKS IN THE
- DIVISIONS IN CASEWORK ARE SHOWN FOR CLARITY AND DO NOT REPRESENT BREAKS IN THI COUNTERTOP.
- 3. PROVIDE CONTINUOUS COUNTERTOP OVER ALL SIMILAR HEIGHT CASEWORK, UNLESS AND OTHERWISE NOTED.
- 4. MANUFACTURER AND CATALOG NUMBERS ARE FOR REFERENCE AND ILLUSTRATION PURPOSES
- ONLY.
  5. DOTTED LINES INDICATE WALL HUNG CABINETS, DIVISIONS OF BASE CABINETS BELOW THE
- 6. COUNTERTOP, FURNITURE NOT IN THE CONTRACT OR PROJECTION SCREENS -SEE CASEWORK KEY AND SPECIFICATIONS.
- 7. ALL CABINETS AND DRAWERS TO HAVE CAM LOCKS EXCEPT FOR SINK BASE CABINETS.
  8. ALL EXPOSED SURFACES (EXPOSED TO VIEW FROM ANY PERSPECTIVE) TO BE COVERED WITH
- 8. ALL EXPOSED SURFACES (EXPOSED TO VIEW FROM ANY PERSPECTIVE) TO BE COVERED WITH LAMINATE.
- 9. ALL CASEWORK WHICH MEETS A WALL AT ONE OR BOTH ENDS, TO BE PROVIDED WITH FILLER PANELS AND SCRIBED TO THE WALL(S) AS REQUIRED.
- 10. ALL CABINETS AND DRAWERS ARE PROVIDED WITH RECESSED HANDLES.
- 11. CONTRACTOR TO FIELD VERIFY ALL CLEAR OPENINGS PRIOR TO MILLWORK OR CASEWORK
- 12. CASEWORK DRAWINGS ARE DIAGRAMMATIC IN NATURE TO SHOW DESIGN INTENT.

	CAS	EWOR	K SCHEDU	JLE		
TYPE MAR K	TYPE	COUN	HEIGHT	WIDTH	DEPTH	AREA
			ı			
01	L-SHAPE COUNTER TOP	1	0' - 4"	7' - 0"	7' - 0"	2 SF
02	RECESSED_MED_CABINET 2	1	2' - 0"	1' - 6"	0' - 3"	3 SF
03	BASE_CABINET_L-SHAPED 2	1	2' - 11"	3' - 5"	3' - 3"	10 SF
04	REFRIGERATOR TOP	1	1' - 6"	2' - 0"	2' - 4"	3 SF
05	VANITY_CABINET_2 2	1	2' - 4"	3' - 3"	2' - 0"	8 SF
06	WALL CABINET DOUBLE DOOR 4	1	2' - 6"	2' - 1"	1' - 0"	5 SF
07	BASE_CABINET_DOUBLE_DOOR 3	1	2' - 11"	3' - 9"	2' - 0"	11 SF
08	WALL CABINET DOUBLE DOOR 5	1	2' - 6"	2' - 1"	1' - 0"	5 SF
09	WALL_CABINET_L-SHAPE	1	2' - 6"	2' - 0"	2' - 0"	5 SF
10	WALL CABINET DOUBLE DOOR 6	1	2' - 6"	1' - 5"	1' - 0"	4 SF
11	BASE CABINET DOUBLE DOOR 3	1	2' - 11"	2' - 10"	2' - 0"	8 SF
12	LINEAR COUNTER TOP 2	1	0' - 4"	2' - 10"	2' - 1"	1 SF
13	WALL CABINET DOUBLE DOOR 3	1	2' - 6"	2' - 10"	1' - 0"	7 SF
14	CLOSET_2	1	6' - 0"	5' - 4"	1' - 4"	32 SF
15	HD_TALL_CABINET_24	1	7' - 6"	2' - 0"	2' - 0"	15 SF
GRAND	TOTAL	15		,		,

SPECIALTY EQUIPMENT SCHEDULE			
TYPE MARK	TYPE	COUNT	
	WASHED EDON'T LOAD		
01	WASHER-FRONT-LOAD	1	
02	REFRIGERATOR	1	
03	RANGE	1	
04	DRYER-FRONT-LOAD	1	
05	DISHWASHER	1	
GRAND TOTAL: 5			

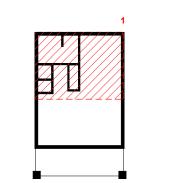








**KEY PLAN** 



NO.	DESCRIPTION	DATE
	•	

NOTE:

LEGEND:

PROJECT

153 HAVEN 499 STUDIO RANCH 550

DRAWING NAME

## ARCHITECTURAL CASEWORK

CLIENT NAME:	Client Name
PROJECT NUMBER:	0061_12
DATE:	3/8/2025 5:14:44 PM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

A402

#### **GENERAL NOTES**

1. THIS DRAWING DEPICTS THE HVAC (HEATING, VENTILATION, AND AIR CONDITIONING) SYSTEM FOR THE HAVEN STUDIO RANCH. IT PROVIDES A VISUAL REPRESENTATION OF THE SYSTEM LAYOUT AND COMPONENTS.

2.THE HVAC SYSTEM IS DESIGNED TO MEET THE SPECIFIC REQUIREMENTS OF THE BUILDING, INCLUDING HEATING, COOLING, AND VENTILATION NEEDS, AS PER THE PROJECT SPECIFICATIONS AND APPLICABLE CODES AND STANDARDS.

3. THE HVAC SYSTEM INSTALLATION SHALL COMPLY WITH THE LATEST EDITION OF THE INTERNATIONAL MECHANICAL CODE (IMC), INTERNATIONAL RESIDENTIAL CODE (IRC), AND ALL OTHER APPLICABLE LOCAL, STATE, AND NATIONAL CODES AND REGULATIONS.

4. THE EQUIPMENT SHOWN ON THIS DRAWING INCLUDES BUT IS NOT LIMITED TO AIR HANDLING UNITS (AHUS), CHILLERS, BOILERS, COOLING TOWERS, PUMPS, DUCTWORK, DIFFUSERS, GRILLES, AND CONTROL DEVICES.

5. ALL EQUIPMENT, DUCTWORK, AND PIPING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, LOCAL CODES, AND INDUSTRY BEST PRACTICES.

6. ALL DUCTWORK SHALL BE SIZED, FABRICATED, AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE ACCA MANUAL D AND THE SMACNA HVAC DUCT CONSTRUCTION STANDARDS. DUCTWORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, PROPERLY SUPPORTED AND BRACED TO PREVENT SAGGING, AIR LEAKAGE, OR VIBRATION.

7. CONDENSATE DRAINAGE PIPING SHALL BE PROPERLY PITCHED TO ENSURE POSITIVE DRAINAGE TO AN APPROVED DISPOSAL LOCATION, SUCH AS A FLOOR DRAIN, SUMP PUMP, OR EXTERIOR GRADE. CONDENSATE LINES SHALL BE INSULATED TO PREVENT SWEATING.

8. THE LOCATION OF CONTROL PANELS AND SENSORS INDICATED ON THIS DRAWING CAN BEMODIFY WITH THE SPECIFIC LOCATIONS AND WIRING

DETAILS WILL BE DETERMINED DURING THE CONTROL SYSTEM DESIGN AND INSTALLATION.

9. THE HVAC SYSTEM DESIGN CONSIDER ENERGY EFFICIENCY, INDOOR AIR QUALITY, OCCUPANT COMFORT, AND NOISE CONTROL, FOLLOWING

APPLICABLE GUIDELINES AND REGULATIONS.

10. COORDINATION WITH OTHER TREADS HAS BEEN DONE ON A DESIGN LEVEL. THIS DRAWING SHALL BE READ TOGETHER WITH THE AR, EL AND SN

DESIGN DRAWINGS TO ENSURE PROPER INSTALLATION AND INTEGRATION OF THE HVAC SYSTEMS.

11. THE HVAC CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND LICENSES, AND FOR SCHEDULING AND COORDINATING WITH THE LOCAL BUILDING DEPARTMENT AND UTILITY PROVIDERS TO ENSURE A TIMELY AND COMPLIANT INSTALLATION.

12. ALL DUCTWORK PENETRATIONS THROUGH WALLS, FLOORS, OR CEILINGS SHALL BE PROPERLY SEALED AND FIRE-STOPPED USING APPROVED METHODS AND MATERIALS TO MAINTAIN THE INTEGRITY OF THE BUILDING'S FIRE-RESISTANCE RATINGS.

13. HVAC EQUIPMENT SHALL BE INSTALLED LEVEL AND PLUMB, AND IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS. PROVIDE ADEQUATE CLEARANCES AROUND EQUIPMENT FOR PROPER AIRFLOW, SERVICE ACCESS, AND

14. ALL HVAC EQUIPMENT AND COMPONENTS, INCLUDING THERMOSTATS, DAMPERS, AND ACCESS PANELS, SHALL BE LOCATED IN ACCESSIBLE AREAS FOR EASY SERVICING AND MAINTENANCE. PROVIDE ADEQUATE SPACE AROUND EQUIPMENT FOR PROPER AIRFLOW AND SERVICE ACCESS.

15. THE HVAC SYSTEM SHALL BE BALANCED AND ADJUSTED TO ENSURE PROPER AIRFLOW, TEMPERATURE DISTRIBUTION, AND SYSTEM PERFORMANCE THROUGHOUT THE RESIDENCE. PROVIDE A WRITTEN REPORT DOCUMENTING THE FINAL SYSTEM BALANCE.

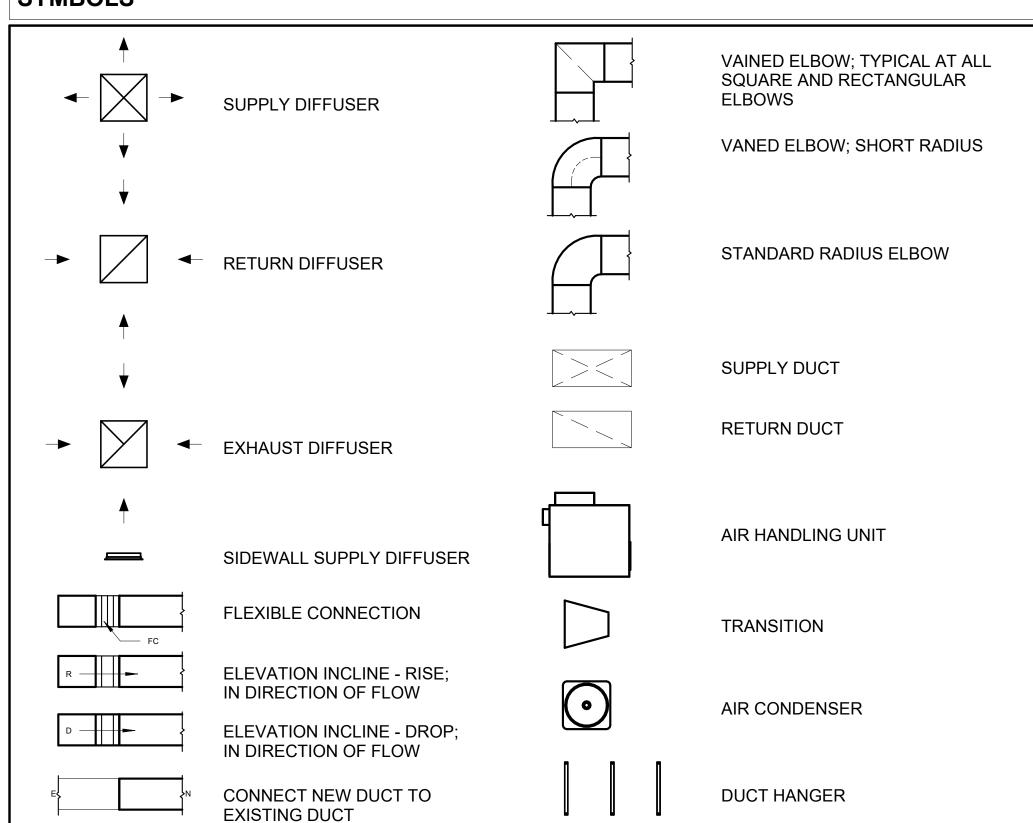
16. ANY DEVIATIONS OR MODIFICATIONS TO THE HVAC SYSTEM DESIGN SHALL BE REVIEWED AND APPROVED BY THE RESPONSIBLE DESIGN

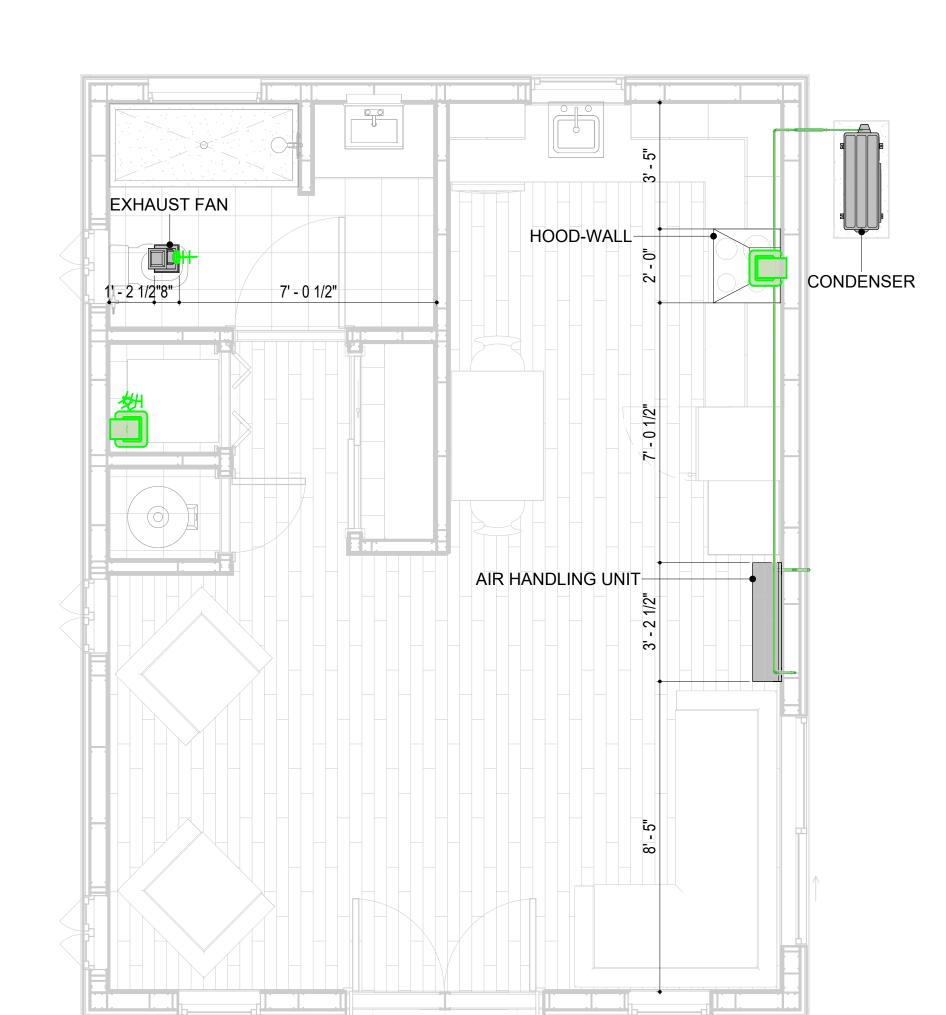
PROFESSIONALS AND COMMUNICATED TO ALL RELEVANT PARTIES INVOLVED IN THE CONSTRUCTION PROCESS.

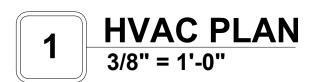
17. FOR ANY INQUIRIES OR CLARIFICATIONS REGARDING THE HVAC SYSTEM DESIGN, PLEASE CONSULT THE RESPONSIBLE DESIGN PROFESSIONALS OR THE PROJECT MANAGEMENT TEAM.

#### SYMBOLS

CODE COMPLIANCE.

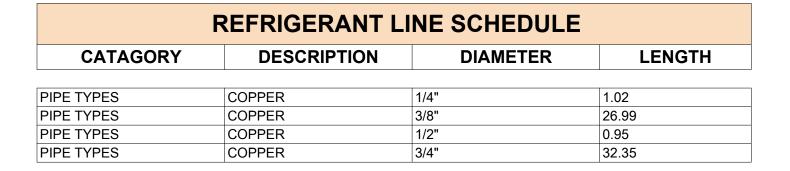






HVAC COLOR SCHEME

 AIR CONDITIONING PIPE LINE



REFRIGERANT LINE FITTING SCHEDULE			
CATAGORY	DESCRIPTION	Size	Count
ELBOW - GENERIC	ELBOW - GENERIC: STANDARD/HVAC	1/2"ø-1/2"ø	1
ELBOW - GENERIC	ELBOW - GENERIC: STANDARD/HVAC	1/4"ø-1/4"ø	1
ELBOW - GENERIC	ELBOW - GENERIC: STANDARD/HVAC	3/4"ø-3/4"ø	10
ELBOW - GENERIC	ELBOW - GENERIC: STANDARD/HVAC	3/8"ø-3/8"ø	7
TRANSITION - GENERIC	TRANSITION - GENERIC: STANDARD	3/4"ø-1/2"ø	2
TRANSITION - GENERIC	TRANSITION - GENERIC: STANDARD	3/4"ø-5/8"ø	1
TRANSITION - GENERIC	TRANSITION - GENERIC: STANDARD	3/8"ø-1/4"ø	1

MECHANICAL EQUIPMENT SCHEDULE		
CATAGORY	DESCRIPTION	COUNT
AIR HANDLING UNIT	AIR HANDLING UNIT: WALL MOUNTED	1
7 till t 1 ij til til E E il t G G T til 1		
CONDENSER	CONDENSER: OUT DOOR	1
	CONDENSER: OUT DOOR EXHAUST FAN: 75 CFM	1

DUCT FITTING SCHEDULE						
CATAGORY DESCRIPTION COUN						
ROUND TRANSITION - ANGLE	45 DEGREE	5				

DUCT ACCESSORY SCHEDULE						
CATAGORY	DESCRIPTION	COUNT				
ROOF VENT	3" DIAMETER	3				

FLEX DUCT SCHEDULE						
DESCRIPTION	DESCRIPTION	LENGTH	DIAMETER	COUNT		
FLEX DUCT ROUND	FLEX-ROUND	8.06	4"	3		
GRAND TOTAL: 3	•	8.06				



**KEY PLAN** 

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

153-Haven-499-Studio Ranch-550

DRAWING NAME

**HVAC PLAN** 

 CLIENT NAME:
 Owner

 PROJECT NUMBER:
 15\_0001

 DATE:
 3/6/2025 1:58:36 AM

 DESIGNED BY:
 Designer

 DRAWN BY:
 Author

 CHECKED BY:
 Checker

M101

SCALE: As indicated

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#### **ELECTRICAL NOTES**

- 1. THIS DRAWING DEPICTS THE ELECTRICAL SYSTEM FOR THE 152-Haven-499-Studio Craftsman-550. IT PROVIDES A VISUAL REPRESENTATION OF THE ELECTRICAL LAYOUT AND COMPONENTS, INCLUDING POWER DISTRIBUTION, LIGHTING, AND CONTROL SYSTEMS.
- 2. THE ELECTRICAL SYSTEM IS DESIGNED TO MEET THE SPECIFIC REQUIREMENTS OF THE BUILDING, INCLUDING POWER DISTRIBUTION, LIGHTING, AND SPECIALIZED ELECTRICAL EQUIPMENT NEEDS, AS PER THE PROJECT SPECIFICATIONS AND APPLICABLE CODES AND STANDARDS.
- 3. THE ELECTRICAL SYSTEM INSTALLATION SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), INTERNATIONAL BUILDING CODE (IBC), AND ALL OTHER APPLICABLE LOCAL, STATE, AND NATIONAL CODES AND REGULATIONS.
- 4. LOCATIONS AS NEEDED, DEVICES ARE SHOWN ON PLANS IN APPROXIMATE IDEAL LOCATIONS, UNLESS SPECIFICALLY DIMMENSIONED.
- 5. OPEN WALLS AS NEEDED TO ALLOW FOR NEW ELECTRICAL INSTALLATIONS.
- 6. LABEL ALL CIRCUITS ON JUNCTION BOXES, RECEPTACLES, DATA, SMOKE DETECTOR, AND EQUIPMENT IN PANEL BOX.
- 7. INSTALL RACEWAY AS NEEDED FOR DDC, ACCESS CONTROL, LOW VOLTAGE WIRING & DATA.
- 8. RELABEL POWER, DATA & FIRE ALARM FOR ROOM #CHANGES.
- 9. VERIFY ALL CIRCUITS LABELED ON PRINT ARE CORRECT BEFORE WORKING ON THEM.
   10. NOTE ON SITE PLAN ALL CHANGES OR MISSING DETAIL TO BE INCORPORATED INTO THE MASTER PLAN.
- 11. DRAWINGS ARE DIAGRAMMATIC ONLY FOR THE PURPOSE OF SHOWING FIXTURE AND OUTLET LOCATIONS.
- 12. ELECTRICAL CONTRACTOR TO VERIFY SERVICE SIZE BY CALCULATION BASED UPON ACTUAL NAME PLATE RATINGS OF SELECTED FOLIPMENT
- PLATE RATINGS OF SELECTED EQUIPMENT.

  13. VERIEV LOCATION OF SERVICE ENTRANCE WITH POWER COMPANY, PROVIDE LIFER GROUND IN
- 13. VERIFY LOCATION OF SERVICE ENTRANCE WITH POWER COMPANY. PROVIDE UFER GROUND IN BUILDING FOUNDATION AT SERVICE ENTRANCE LOCATION.
- 14. PROVIDE A MIN. OF 20 FEET OF ONE \*4 BARE COPPER UFER WIRE EMBEDDED IN CONCRETE FOOTING AT THE SERVICE ENTRANCE LOCATION WHERE APPROVED BY LOCAL SERVICE PROVIDER.
- 15. PROVIDE WATERPROOF FIXTURES IN ALL HIGH MOISTURE AREAS (EXTERIOR, SHOWER AND TUB CEILINGS ETC.)
- 16. PROVIDE DEDICATED CIRCUITS TO EACH BATH, DEN, FAMILY ROOM, BEDROOM, LOFT, KITCHEN
- REFRIGERATOR, KITCHEN FREEZER DISHWASHER, AND ANY AREA/ITEM SPECIFIED BY OWNER.

  17. INCANDESCENT FIXTURES WITH OPEN OR PARTIALLY ENCLOSED LAMPS, PENDANT FIXTURES, AND
- LAMP HOLDERS ARE NOT PERMITTED IN CLOSETS.

  18. ALL WORKMANSHIP AND MATERIALS TO CONFORM WITH THE 2015 IRC.
- 19. PROVIDE A MIN. OF 20 FEET OF ONE \*4 BARE COPPER UFER WIRE EMBEDDED IN CONCRETE FOOTING AT THE SERVICE ENTRANCE LOCATION WHERE APPROVED BY LOCAL SERVICE PROVIDER.
- 20. PROVIDE A BONDING CONDUCTOR CONSISTING OF A MINIMUM OF ONE \*4 BARE COPPER WIRE CONNECTING THE BUILDING'S METAL WATER PIPING SYSTEM TO THE SERVICE EQUIPMENT ENCLOSURE GROUNDING.

#### MAIN PANEL CALCS

ELECTRICAL CALCS				
LIGHT AND OUTLETS 499 @ 3W	1,497 W			
3 APPLIANCE CIRCUITS	4,500 W			
DRYER	2,000 W			
WASHER	2,000 W			
RANGE	5,000 W			
WATER HEATER	5,000 W			
REFRIG.	1,800 W			
DISHWASHER & DISPOSAL	3000 W			
TOTAL	24,797 W			
FRIST 10,000 @ 100% REMAINDER @ 40% MINI. SPLIT UNITS	10,000 W 5,919W 10,000 W			
TOTAL	25,919 W			

25,919 W DIVIDED BY 240V =108 AMPS TOTAL

(USE 200 AMP SERVICE)

#### **ELECTRICAL ABBREVIATIONS LIST**

1P	1 DOLE (2D 2D 4D ETC.)	CTR	CENTER	нт	HEIGHT
A	1 POLE (2P, 3P, 4P, ETC.)		COPPER	HTG	HEATING
	APOVE COUNTED OR AIR CONDITIONED	CU			
AC	ABOVE COUNTER OR AIR CONDITIONER	DCP	DOMESTIC WATER CIRCULATING PUMP	HTR	HEATER
ACLG	ABOVE CEILING	DEPT	DEPARTMENT	HV	HIGH VOLTAGE
ADO	AUTOMATIC DOOR OPENER	DET	DETAIL	HVAC	HEATING, VENTILATING AND AIR
AF	AMP FRAME	DIA	DIAMETER	CONDITIONING	CONDITIONING
AFF	ABOVE FINISHED FLOOR	DISC	DISCONNECT	HWP	HYDRONIC WATER PUMP
AFG	ABOVE FINISHED GRADE	DIST	DISTRIBUTION	IC	INTERRUPTING CAPACITY
AFI	ARC FAULT CIRCUIT INTERRUPTER	DN	DOWN	IG	ISOLATED GROUND
AHU	AIR HANDLING UNIT	DPR	DAMPER	IMC	INTERMEDIATE METAL CONDUIT
AL	ALUMINUM	DS	SAFETY DISCONNECT SWITCH	INCAND	INCANDESCENT
ALT	ALTERNATE	DT	DOUBLE THROW	IR	INFRARED
AMP	AMPERE	DWG	DRAWING	I/W	INTERLOCK WITH
AMPL	AMPLIFIER	DDC	DIRECT DIGITAL CONTROL	J-BOX	JUNCTION BOX
ANNUN	ANNUNCIATOR APPROX APPROXIMATELY		ELECTRICAL CONTRACTOR	KV	KILOVOLT
AQ-STAT	AQUASTAT	ELEC	ELECTRIC, ELECTRICAL	KVA	KILOVOLT-AMPERE
ARCH	ARCHITECT, ARCHITECTURAL	ELEV	ELEVATOR	KVAR	KILOVOLT-AMPERE REACTIVE
AS	AMP SWITCH	EM	EMERGENCY	KW	KILOWATT
AT	AMP TRIP	EMS	ENERGY MANAGEMENT SYSTEM	KWH	KILOWATT HOUR
ATS	AUTOMATIC TRANSFER SWITCH	EMT	ELECTRICAL METALLIC TUBING	LOC	LOCATE OR LOCATION
AUTO	AUTOMATIC	EP	ELECTRIC PNEUMATIC	LT	LIGHT
AUX	AUXILIARY	EQUIP	EQUIPMENT	LTG	LIGHTING
AV	AUDIO VISUAL	EWC	ELECTRIC WATER COOLER	LTNG	LIGHTNING
AWG	AMERICAN WIRE GAUGE	EXIST	EXISTING	LV	LOW VOLTAGE
BATT	BATTERY	EXH	EXHAUST	MAX	MAXIMUM
BD	BOARD	EXP	EXPLOSION PROOF	MAG.S	MAGNETIC STARTER
BLDG	BUILDING	FA	FIRE ALARM	M/C	MOMENTARY CONTACT
BMS	BUILDING MANAGEMENT SYSTEM	FABP	FIRE ALARM BOOSTER POWER	MC	MECHANICAL CONTRACTOR
С	CONDUIT	SUPPLY PANEL	SUPPLY PANEL	MCB	MAIN CIRCUIT BREAKER
CAB	CABINET	FACP	FIRE ALARM CONTROL PANEL	MCC	MOTOR CONTROL CENTER
CAT	CATALOG	FCU	FAN COIL UNIT	MDC	MAIN DISTRIBUTION CENTER
CATV	CABLE TELEVISION	FIXT	FIXTURE	MDP	MAIN DISTRIBUTION PANEL
СВ	CIRCUIT BREAKER	FLR	FLOOR	MFR	MANUFACTURERMAIN FUSED
CCTV	CLOSED CIRCUIT TELEVISION	FLUOR	FLUORESCENT		DISCONNECT SWITCH
CKT	CIRCUIT	FU	FUSE	MH	MANHOLE
CLG	CEILING	FUDS	FUSED SAFETY DISCONNECT SWITCH	MIC	MICROPHONE
COMB	COMBINATION	GA	GAUGE	MIN	MINIMUM
CMPR	COMPRESSOR	GAL	GALLON	MISC	MISCELLANEOUS
CONN	CONNECTION	GALV	GALVANIZED	MLO	MAIN LUGS ONLY
CONST	CONSTRUCTION	GC	GENERAL CONTRACTOR	MMS	MANUAL MOTOR STARTER
CONT	CONTINUATION OR CONTINUOUS	GEN	GENERATOR	MOA	MULTIOUTLET ASSEMBLY
CONTR	CONTRACTOR	GFI	GROUND FAULT CIRCUIT INTERRUPTER	MSP	MOTOR STARTER PANELBOARD
CONV	CONVECTOR	GFP	GROUND FAULT PROTECTOR	MSBD	MAIN SWITCHBOARD
CP	CIRCULATING PUMP	GND	GROUND	MT	MOUNT
CRT	CATHODE-RAY TUBE	GRS	GALVANIZED RIGID STEEL (CONDUIT)	MT.C	EMPTY CONDUIT
CT	CURRENT TRANSFORMER	GYP BD	GYPSUM BOARD	UL	UNDERWRITERS LABORATORIES
	CONTRACT TO MICH				ONDERWINITERO ENDORATORIES

#### **Branch Panel:**

Location: STUDIO AREA 01
Supply From:
Mounting: Recessed

Enclosure: Type 1

Volts: 120/240 Single
Phases: 1
Wires: 3

A.I.C. Rating:
Mains Type:
Mains Rating: 200 A
MCB Rating: 1 A

#### lotes:

Circuit Numb er	Circuit Description	Number of Elements	Rating	Length	Wire Size	A			В	Wire Size	Length	Rating	Number of Elements	Circuit Description	Circu Numl er
1	BATH GFCI & LIGHT	7	20 A	32' - 9 1/8"	1-#12, 1-#12, 1-#12	576 VA	336 VA			1-#14, 1-#14, 1-#14	38' - 2 11/16"	15 A	7	KITCHEN LIGHT	2
3	KITCHEN GFCI	4	20 A	30' - 8 3/32"	1-#12, 1-#12, 1-#12			720 VA	1200 VA	1-#12, 1-#12, 1-#12	32' - 9 27/32"	20 A	1	DISHWASHER	4
5	OVENHOOD	1	20 A	13' - 2 9/32"	1-#12, 1-#12, 1-#12	180 VA	2500 VA			2-#10, 1-#10, 1-#10	33' - 11 3/32"	30 A	1	DRYER	6
	WASHING MASHEIN	1	20 A	35' - 11 19/32"	1-#12, 1-#12, 1-#12			1200 VA	2500 VA						8
9	WATER HEATER	1	20 A	29' - 10 17/32"	2-#12, 1-#12, 1-#12	2250 VA	209 VA			1-#14, 1-#14, 1-#14	27' - 9 11/32"	15 A	7	LIVING LIGHT	10
11								2250 VA	1080 VA	1-#12, 1-#12, 1-#12	34' - 11 7/8"	20 A	6	LIVING RECEPTACLE	12
13	HALL LIGHT	7	15 A	26' - 4 11/16"	1-#14, 1-#14, 1-#14	240 VA	200 VA			1-#12, 1-#12, 1-#12	30' - 10 31/32"	20 A	3	OUTDOOR LIGHT	14
15	OUTDOOR GFCI	3	20 A	27' - 8 11/32"	1-#12, 1-#12, 1-#12			540 VA	2500 VA	2-#6, 1-#6, 1-#10	22' - 11 13/32"	60 A	1	CONDENSER	16
17	RANGE	1	50 A	18' - 11 1/2"	2-#8, 1-#8, 1-#10	2500 VA	2500 VA								18
19								2500 VA	2500 VA	2-#12, 1-#12, 1-#12	13' - 6 29/32"	20 A	1	REFRIGERATOR	20
21							2500 VA								22
23															24
25															26
						13978	3 VA	1699	0 VA						•
						116	Α	14	2 A			·			

#### Lege

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel	Totals
LIGHTING - DWELLING UNIT	400 VA	100.00%	400 VA		
OTHER	712 VA	100.00%	712 VA	Total Conn. Load:	30967 VA
RECEPTACLE	5280 VA	100.00%	5280 VA	Total Est. Demand:	29967 VA
LIGHTING	100 VA	100.00%	100 VA	Total Conn.:	129 A
CONDENSER	5000 VA	100.00%	5000 VA	Total Est. Demand:	125 A
WATER HEATER	4500 VA	100.00%	4500 VA		
RANGE	5000 VA	80.00%	4000 VA		
DRYER	5000 VA	100.00%	5000 VA		
REFRIGERATOR	5000 VA	100.00%	5000 VA		
NI . d	•	•	•		



**KEY PLAN** 

NO. DESCRIPTION DATE

NOTE:

LEGEND:

PROJECT

153-Haven-499-Studio-Ranch-550

DRAWING NAME

## **SCHEDULE**

CLIENT NAME:

PROJECT NUMBER:

0246\_11

DATE:
3/6/2025 4:54:43 PM

DESIGNED BY:

DRAWN BY:

CHECKED BY:

Checker

E101

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

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#### **ELECTRICAL NOTE**

- A. PROVIDE INTERCONNECTED SMOKE ALARMS IN EACH SLEEPING ROOMS, OUTSIDE EACH SLEEPING ROOM, ON EACH STORY, IN THE HALL OR ADJACENT ROOM LUHERE THE CEILING HEIGHT OF A ROOM OPEN TO THE HALL EXCEEDS THE HALL BY 24'. SMOKE ALARMS SHALL BE PERMANENTLY HARD WIRED WITH BATTERY BACKUP.
- B. RECEPTACLE OUTLETS FOR RANGES AND CLOTHES DRYERS SHALL BE A THREE POLE WITH GROUND TYPE. FOUR WIRE GROUNDING-TYPE FLEXIBLE CORDS WILL BE REQUIRED FOR CONNECTION OF RANGES AND CLOTHES DRYERS. THE BONDING JUMPER SHALL NOT BE CONNECTED BETWEEN NEUTRAL TERMINAL AND THE FRAME OF THE APPLIANCE.
- C. TWO OR MORE 20 AMP SMALL APPLIANCE CIRCUITS SHALL BE PROVIDED TO SERVE THE KITCHEN, BREAKFAST NOOK, AND DINING ROOM. SUCH CIRCUITS SHALL HAVE NO OTHER OUTLETS.
- D. AT LEAST ONE 20 AMP BRANCH CIRCUIT SHALL BE PROVIDED TO SERVICE THE LAUNDRY ROOM. THIS CIRCUIT SHALL HAVE NO OTHER OUTLETS.
- E. ALL RECEPTACLES WITH IN 6' OF A WET BAR SINK OR KITCHEN SINK TO SERVE COUNTER TOP SURFACES MUST BE GFCI. ON KITCHEN COUNTERS 12' OR WIDER NO POINT ALONG THE WALL SHALL BE MORE THAN 2' FROM A RECEPTACLE. ALL RECEPTACLES WITH IN 6' OF KITCHEN SINK MUST BE GFCI. AT LEAST ONE GFCI RECEPTACLE SHALL
- BE INSTALLED IN THE BATHROOM ADJACENT TO EACH BASIN.

  F. FIXTURES INCLUDING CEILING FANS THAT ARE LOCATED IN DAMP LOCATIONS SHALL BE LISTED TO BE SUITABLE FOR
- SUCH LOCATIONS PER 2012 IRC
- G. PROVIDE ONE (1) SWITCHED OUTLET @ ALL BEDROOMS AND DEN
- H. CEILING FANS NOT EXCEEDING 35 LBS. (WITH OR WITHOUT ACCESSORIES MAY BE SUPPORTED BY OUTLET BOXES PROVIDED THE OUTLET BOXES ARE IDENTIFIED FOR SUCH USE PER 2012 IRC
- I. ELECTRICAL OUTLET BOXES ON OPPOSITE SIDES OF FIRE RATED WALLS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24".
- J. OUTLET BOXES IN THE WALLS BETWEEN THE GARAGE AND DWELLING SHALL BE METAL OR U.L. APPROVED FIRE RESISTIVE PLASTIC. BOXES IN GARAGE CEILING SHALL BE METAL.
- K. ALL BRANCH CIRCUITS THAT SUPPLY 120 VOLTS SINGLE PHASE 15 AND 20 AMPS RECEPTACLE OUTLETS INSTALLED IN THE DWELLING SHALL BE PROTECTED BY AN ARC FAULT CIRCUIT INTERRUPTER, EXCEPT GFCI RECEPTICLES.

#### NOTE:

A. RECEPTACLES MUST BE PROVIDED IN HALLWAYS 10'-0" OR MORE IN LENGTH. FOR A ONE FAMILY DWELLINGS AND EACH OF A TWO FAMILY DWELLING THAT IS AT GRADE LEVEL, AT LEAST ONE WP-GFCI RECEPTACLE OUTLET ACCESSIBLE AT GRADE LEVEL AND NOT MORE THAN 6'-6" ABOVE GRADE SHALL BE INSTALLED AT THE FRONT AND BACK OF THE DWELLING.

#### **NOTE: APPLIANCE DISCONNECT**

#### **E4001.5 GROUNDING OF ENCLOSURES.**

METAL ENCLOSURES FOR SWITCHES OR CIRCUIT BREAKERS SHALL BE CONNECTED TO AN

EQUIPMENT GROUNDING CONDUCTOR.

METAL ENCLOSURES FOR SWITCHES OR CIRCUIT BREAKERS USED AS SERVICE

EQUIPMENT SHALL COMPLY WITH THE PROVISIONS OF SECTION E3609.4. WHERE NONMETALLIC ENCLOSURES ARE USED WITH METAL RACEWAYS OR METAL-ARMORED

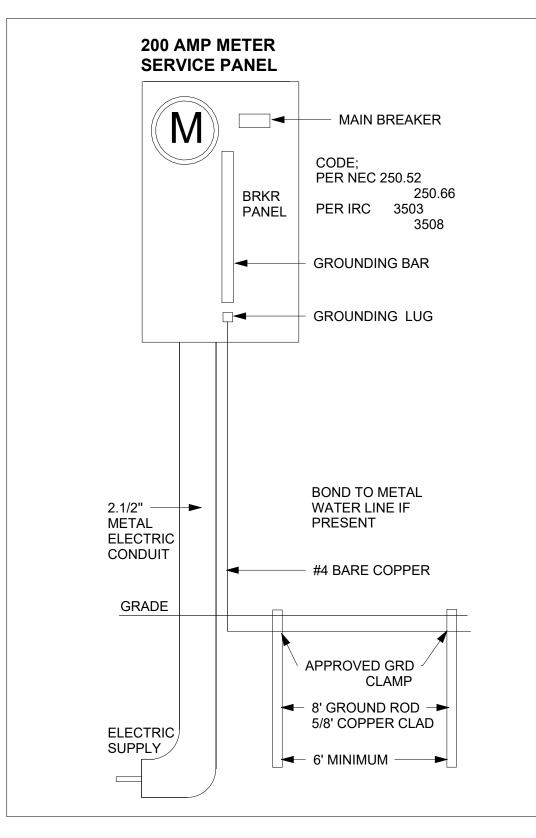
CABLES, PROVISIONS SHALL BE MADE FOR CONNECTING THE EQUIPMENT GROUNDING

CONDUCTOR.

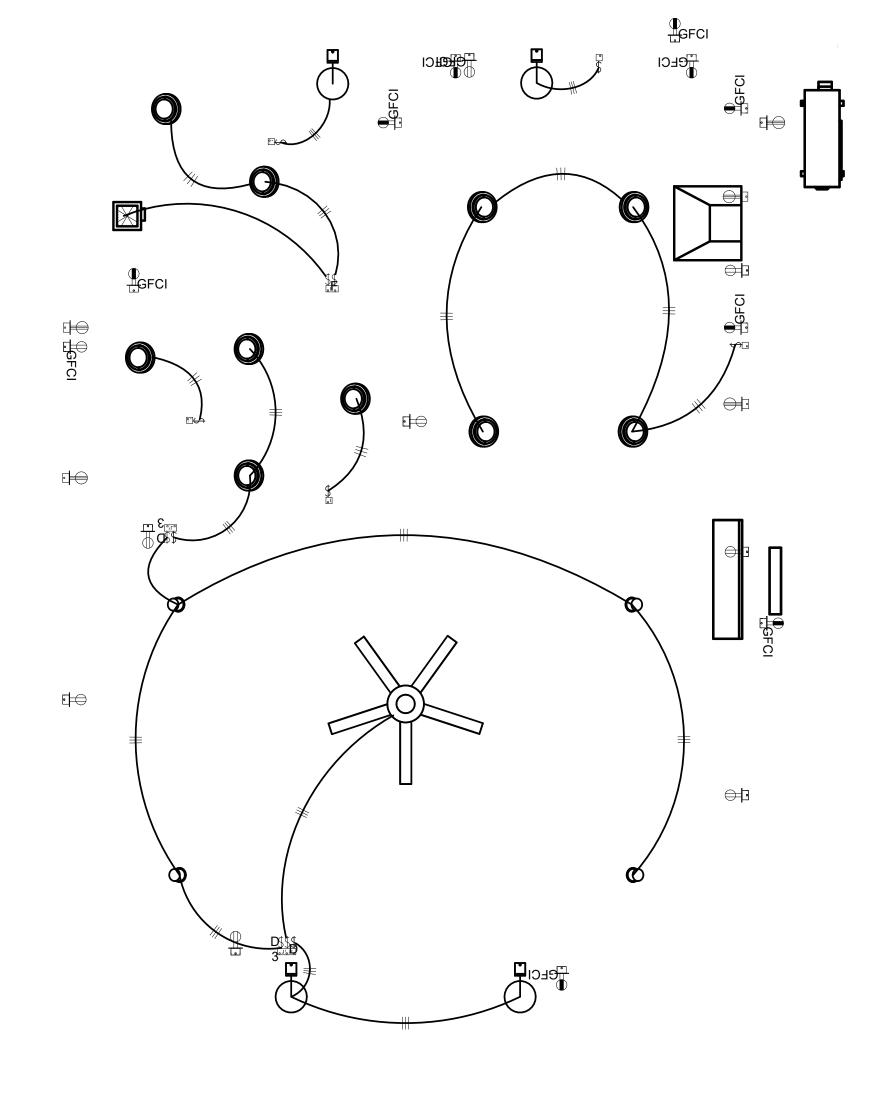
NONMETALLIC BOXES FOR SWITCHES SHALL BE INSTALLED WITH A WIRING METHOD THAT

PROVIDES OR INCLUDES AN EQUIPMENT GROUNDING CONDUCTOR. (404.12)

ELECTRICAL LEGEND				
	Electrical Lights With Fan			
0	Waterproof Recessed Can Light			
	Pendant Light			
0	Recessed Can Light			
<b>-</b> □	Wall Lamp			
	Standalone linear			
<b>⊬</b> 13	Single Switch			
₩	Three way Switch			
<b>₩</b>	Fan Switch			
	Duplex Receptacle			
	Triplex Receptacle			
⊕ GFCI	GFCI Receptacle			
	Exhaust Fan			
•	Smoke and heat detector			







1 - Lighting 3/8" = 1'-0"



**KEY PLAN** 

NO. DESCRIPTION DATE

NOTE:

LEGEND:

PROJECT

153-Haven-499-Studio-Ranch-550

DRAWING NAME

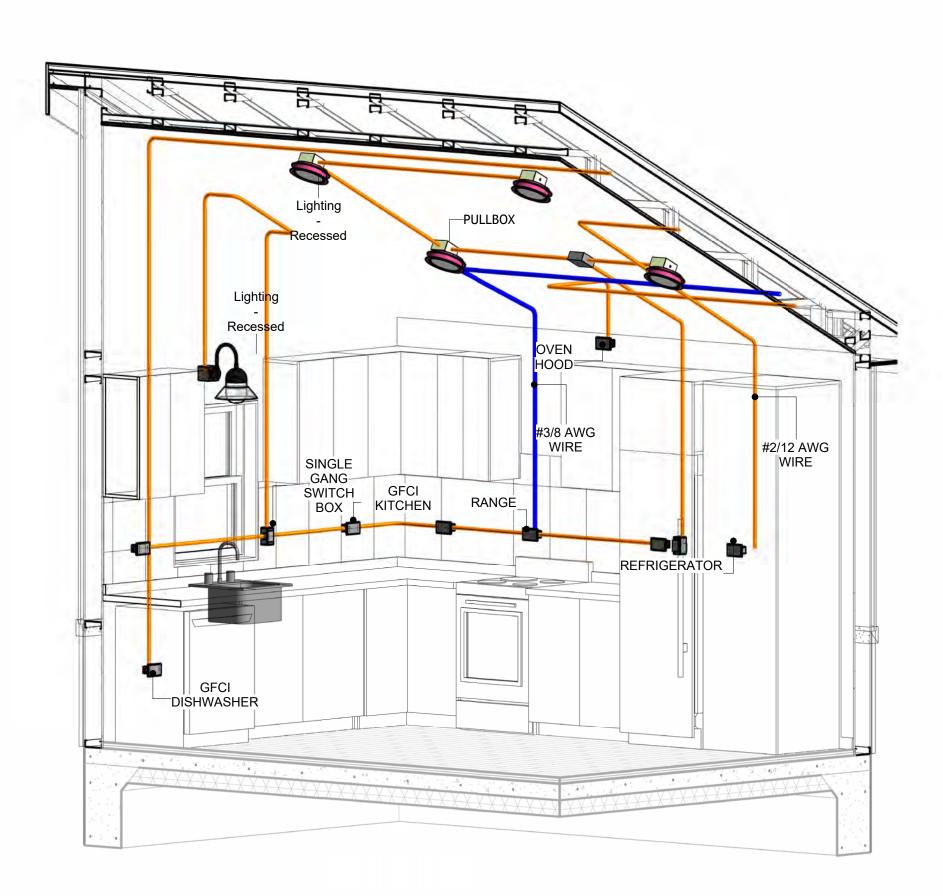
### LIGHTING

CLIENT NAME:	Owner
PROJECT NUMBER:	0246_11
DATE:	3/6/2025 4:54:45 PM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

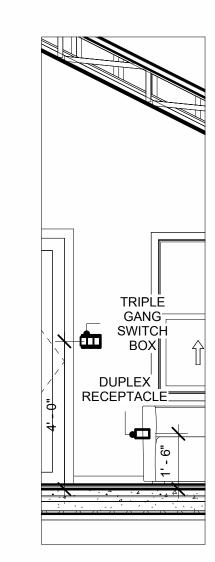
E102

#### **NOTES: CONDUIT, CABLE AND WIRING**

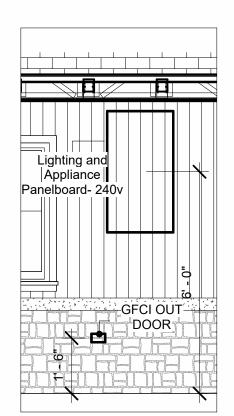
- Use Metalic Conduits (IMC) for cables running under concrete slabs.
   Use IMC for circuits with high voltage appliances (240 volts and above)
   For circuits with 120 volts consider using EMT or PVC conduits if needed.
   For Low voltage applications up to 50 volts consider using non metalic conduits.
   All conduits to be used in the project must conform to the latest National Electrical Code (NEC),
- 6. All wiring and cables to be used in the project must also conform to the latest National Electrical
- 7. All cables and wires used should be rated for their respective loading and should be gauged and conform to the NEC.



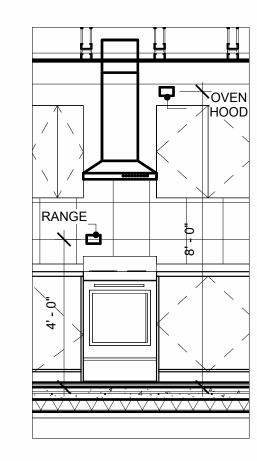
**3D-KITCHEN** 



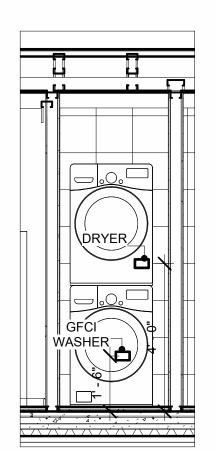
**RECEPTACLE & SWITCH** 



PANELBOARD& OUTDOOR GFCI



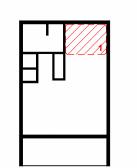
**RANGE & OVENHOOD** 3/8" = 1'-0"



**DRYER& WASHER** 3/8" = 1'-0"



**KEY PLAN** 



NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

153-Haven-499-Studio-Ranch-550

DRAWING NAME

**POWER** 

CLIENT NAME:	Owner
PROJECT NUMBER:	0246_11
DATE:	3/6/2025 4:55:09 PM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

E103

SCALE: As indicated

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#### **NOTES: LIGHT**

- 1. LIGHT FIXTURES AND LUMINARIES SHALL CONFORM TO THE NEC, THE IRC AND LOCAL SAFETY & BUILDING CODE.
- 2. ALL LIGHTING FIXTURES SHOULD CONFORM TO THE DESIGN ELECTRICAL LOAD AND SHALL BE PROPERLY WIRED AND MOUNTED BY QUALIFIED ELECTRICIAN FOLLOWING MANUFACTURERS SPECIFICATIONS.
- 3. CEILING FANS AND FANS WITH LIGHT WITH WEIGHT EXCEEDING 35 LBS SHOULD BE PROVIDED WITH STRUCTURAL BACKING FOR SUPPORT AND SHALL BE FIXED AS PER MANUFACTURERS SPECIFICATIONS.
- 4. EXTERIOR LIGHTS SHALL CONFORM TO LOCAL BUILDING CODE AND GUIDELINES.

#### **NOTES: SWITCH JUNCTION BOX**

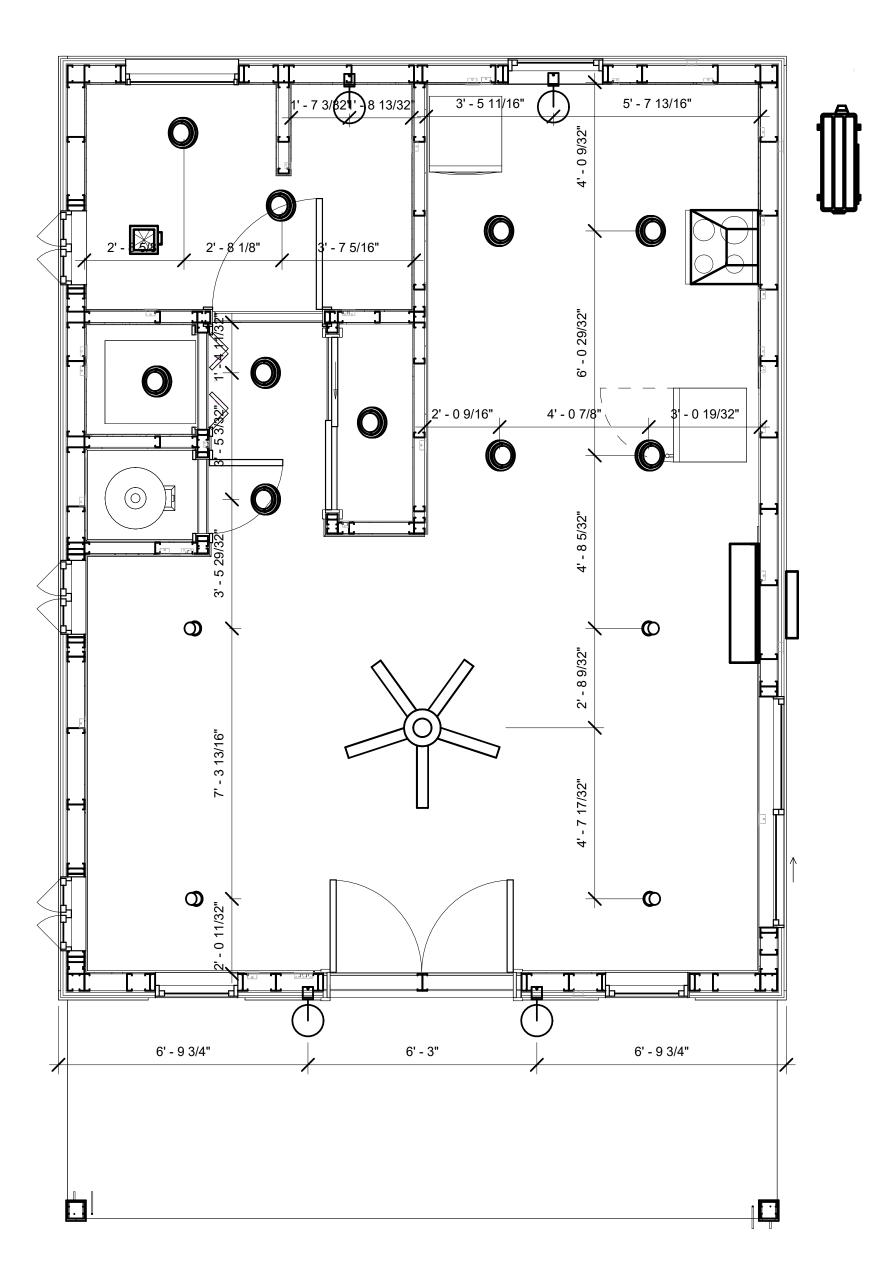
- 1. THE MINIMUM SIZE OF JUCTION BOX TO BE USED IS 2"X4"X(1.5" OR 3.5" DEEP) THIS ARE TO BE USED FOR SINGLE GANG SWITCH OR OUTLETS.
- 2. FOR DOUBLE GANG (2 GANG) OUTLETS AND SWITCHS THE MINIMUM SIZE OF THE
- JUCTION BOX TO BE PROVIDED SHALL NOT BE LESS THAN 4"X4"X(1.5" OR 3.5" DEEP)
- 3. FOR THREE GANG (3 GANG) OUTLETS AND SWITCHS THE MINIMUM SIZE OF THE JUĆTION BOX SHALL NOT BE LESS THAN 6"X4"X(1.5" OR 3.5" DEEP).

FITTING SCHEDULE(PULL BOX)		
FAMILY COUNT DESCRIPTION		DESCRIPTION
CONDUIT JUNCTION BOX - TEE - ALUMINUM	1	
PULLBOX1	15	#1/4 PULLBOX

ELECTRICAL FIXTURE SCHEDULE (SWITCH BOX)	
TYPE COUNT	
DOUBLE GANG SWITCH BOX 2	
SINGLE GANG SWITCH BOX 5	
TRIPLE GANG SWITCH BOX 1	

LIGHTING DEVICE	
TYPE	COUNT
DIMMER	1
FAN SWITCH	1
SINGLE POLE	8
THREE WAY WITH DIMMER	2

LIGHTING FIXTURE				
LIGHTING FIXTURE TYPE VOLTAGE ELECTRICAL LOAD				
ELECTRICAL_LIGHTS_FAN-LIGHT1	120 V/1-100 VA- 120 V/1-100 VA	200 A, 120 V/240 V, SINGLE PHASE, 3 WIRES	1	
LIGHTING - RECESSED	120 V/1-60 VA	200 A, 120 V/240 V, SINGLE PHASE, 3 WIRES	10	
SASSO 100 ROUND WALLWASHER TRIM	120 V/1-28 VA	200 A, 120 V/240 V, SINGLE PHASE, 3 WIRES	4	
WALL LAMP - BRACKET	120 V/1-100 VA	200 A, 120 V/240 V, SINGLE PHASE, 3 WIRES	4	



**DIMENSION FOR LIGHT FIXTURES** 3/8" = 1'-0"



**KEY PLAN** 

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

153-Haven-499-Studio-Ranch-550

DRAWING NAME

## **DIMENSION PLAN** FOR LIGHT FIXTURES

CLIENT NAME:	Owner
PROJECT NUMBER:	0246_11
DATE:	3/6/2025 4:55:10 PM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

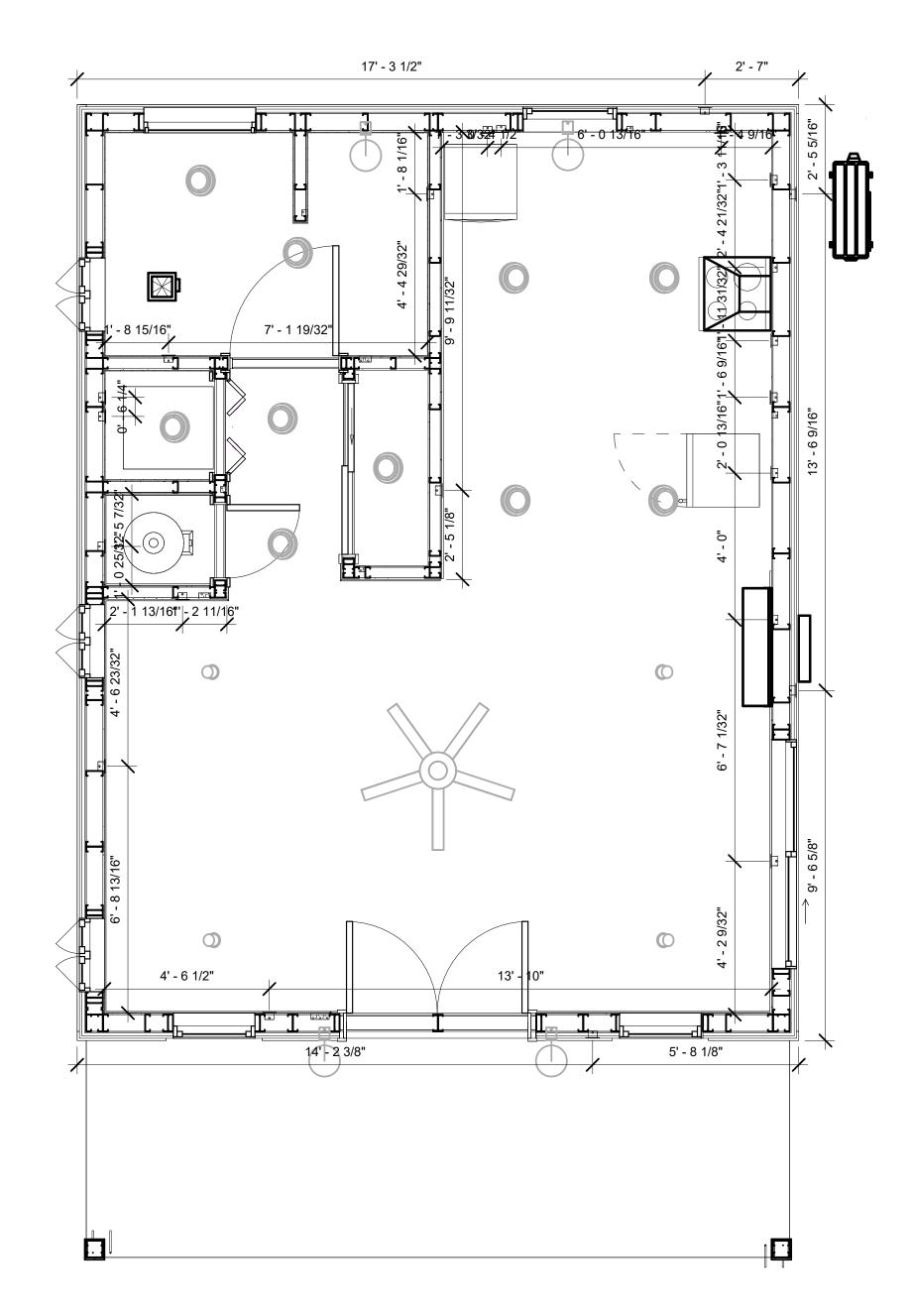
E104

#### NOTES;

- 1. VERIFY EQUIPMENT PLUG CONFIGURATION BEFORE PURCHASING RECEPTACLES
- 2. FOR ALL EQUIPMENT.
- 3. COORDINATE EXACT LOCATION OF LIGHT FIXTURES, WALL SWITCHES, RECEPTACLES AND OTHER DEVICES WITH ARCHITECTURAL DRAWINGS.
- 4. USE METALLIC JUNCTION BOX WITH THE GFCI RECEPTACLES, WITH HIGHT VOLTAGE.

ELECTRICAL FIXTUR	E SCHEDULE (RECEPTACLE)
TYPE	COUNT
CONDENSER	1
DRYER	1
DUPLEX RECEPTACLE	6
GFCI BATH ROOM	2
GFCI DISHWASHER	1
GFCI KITCHEN	4
GFCI OUT DOOR	3
GFCI WASHER	1
OVEN HOOD	1
RANGE	1
REFRIGERATOR	1
WATER HEATER	1

			_
	ELECTRICAL O	UTLET SCHEDULE	<b>_</b>
TYPE	CIRCUIT NUMBER	ELECTRICAL DATA	COUNT
GFCI BATH ROOM	1	120 V/1-180 VA	2
GFCI KITCHEN	3	120 V/1-180 VA	4
GFCI DISHWASHER	4	120 V/1-1200 VA	1
OVEN HOOD	5	120 V/1-180 VA	1
DRYER	6,8	240 V/2-5000 VA	1
GFCI WASHER	7	120 V/1-1200 VA	1
WATER HEATER	9,11	240 V/2-4500 VA	1
DUPLEX RECEPTACLE	12	120 V/1-180 VA	6
GFCI OUT DOOR	15	120 V/1-180 VA	3
CONDENSER	16,18	240 V/2-5000 VA	1
RANGE	17,19	240 V/2-5000 VA	1
REFRIGERATOR	20,22	240 V/2-5000 VA	1



1 DIMENSION FOR FITTINGS 3/8" = 1'-0"



**KEY PLAN** 

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

153-Haven-499-Studio-Ranch-550

DRAWING NAME

## DIMENSION PLAN FOR FITTINGS

Owner	CLIENT NAME:
0246_11	PROJECT NUMBER:
3/6/2025 4:55:11 PM	DATE:
Designer	DESIGNED BY:
Author	DRAWN BY:
Checker	CHECKED BY:

E105

#### SHEET LIST

SHEET NUMBER SHEET NAME

P101 NOTE AND SCHEDULE
P102 WATER SUPPLY AND SEWAGE
SYSTEM

PIPE COLOR SCHE	ME
DOMES SANITA	RY SEWER I DRAINAGE
GAS LII	·· ·· —· ·

#### PLUMBING NOTES

- . THE PLUMBING SYSTEM IS DESIGNED TO MEET THE BUILDING'S DOMESTIC WATER SUPPLY, SANITARY DRAINAGE, AND STORM DRAINAGE REQUIREMENTS, AS PER PROJECT SPECIFICATIONS AND APPLICABLE CODES.
- THE SYSTEM INSTALLATION SHALL COMPLY WITH THE LATEST INTERNATIONAL PLUMBING CODE (IPC), INTERNATIONAL RESIDENTIAL CODE (IRC), AND ALL OTHER RELEVANT LOCAL, STATE, AND NATIONAL REGULATIONS.
- ALL PLUMBING WORK SHALL COMPLY WITH THE LATEST EDITION OF THE INTERNATIONAL PLUMBING CODE (IPC) AND THE LOCAL PLUMBING CODE.
- 4. PLUMBING SYSTEMS SHALL BE TESTED AND INSPECTED IN ACCORDANCE WITH THE LOCAL PLUMBING CODE REQUIREMENTS.
- 5. PLUMBING FIXTURES SHALL BE INSTALLED WITH THE APPROPRIATE TRIM, FITTINGS, AND ACCESSORIES, AS RECOMMENDED BY THE MANUFACTURER.
- 6. PIPING SHALL BE PROPERLY SUPPORTED AND SECURED TO PREVENT SAGGING,
- MOVEMENT, AND VIBRATION.
  7. SHUT-OFF VALVES SHALL BE PROVIDED AT ALL BRANCH CONNECTIONS AND AT THE
- INLET AND OUTLET OF EACH PIECE OF EQUIPMENT.

  8. BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED AS REQUIRED BY THE LOCAL
- PLUMBING CODE TO PROTECT THE POTABLE WATER SYSTEM.

  9. PLUMBING FIXTURES AND EQUIPMENT SHALL BE ACCESSIBLE FOR MAINTENANCE AND
- SERVICING.
- 10. EXPOSED PLUMBING PIPING AND FIXTURES SHALL BE INSULATED TO PREVENT CONDENSATION AND ENERGY LOSS.

  11. DEAD ENDS IN THE DRAINAGE SYSTEM MUST BE AVOIDED, EXCEPT WHERE NECES
- 11. DEAD ENDS IN THE DRAINAGE SYSTEM MUST BE AVOIDED, EXCEPT WHERE NECESSARY TO INSTALL A CLEANOUT IN AN ACCESSIBLE LOCATION, AND MUST HAVE A VENTED CONNECTION TO THE OUTSIDE ATMOSPHERE.
- 12. THE VERTICAL DEFLECTION OF PVC PIPE MUST NOT EXCEED 5%, AND NO DEFLECTION IS PERMITTED FOR IRON PIPE.
- 13. WORK MUST BE PROPERLY COORDINATED WITH OTHER TRADES TO AVOID CONFLICTS, REFERRING TO THE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR INFORMATION REGARDING CEILING ELEVATIONS, SPACE CLEARANCES, WALL AND PARTITION LOCATIONS, ETC.
- 14. ALL FIXTURES SHALL HAVE ACCESSIBLE STOPS.
- 15. DOMESTIC WATER PIPING SHALL BE PEX, AND PVC PIPING IS NOT ACCEPTABLE FOR INTERIOR USE.
- 16. VENT TERMINATIONS SHALL BE LOCATED AT LEAST 10 FEET FROM OR 3 FEET ABOVE ANY OPERABLE WINDOW, DOOR OPENING, AIR INTAKE, OR VENT SHAFT, AND AT LEAST 3 FEET IN EVERY DIRECTION FROM ANY LOT LINE, ALLEY, OR STREET.
- 17. PIPE AND FITTINGS UTILIZED IN THE WATER SUPPLY SYSTEM SHALL HAVE A MAXIMUM OF 8 PERCENT LEAD.
- 18. ACRYLONITRILE BUTADIENE STYRENE (ABS) SHALL BE USED FOR THE SEWERAGE AND
- VENTILATION SYSTEM.

  19. CROSS-LINKED POLYETHYLENE (PEX) SHALL BE USED FOR THE WATER SUPPLY SYSTEM.
- 20. POLYVINYL CHLORIDE (PVC) SHALL BE USED FOR THE RAIN WATER SYSTEM.
- 21. THE MIMIMUM WATER SUPPLY DEPTH UNDER FLOOR FINISH SHOUD BE 1/2".
  22. ANY PIPE INSTALLED UNDERGROUND MUST HAVE AT LEAST 12 INCHES OF CLEARANCE
- BETWEEN THE OUTSIDE OF THE PIPE AND ANY OTHER UNDERGROUND STRUCTURE.
- 23. THE MINIMUM CLEARANCE BETWEEN COLD AND HOT WATER LINES IN RESIDENTIAL
- HOMES MAINTAIN A MINIMUM DISTANCE OF 6 INCHES.

  24. HORIZONTAL SEPARATION BETWEEN WATER AND SEWER LINES: A MINIMUM OF 12 INCHES BETWEEN POTABLE WATER SUPPLY LINES (COLD AND HOT WATER) AND

#### **ABBREVIATIONS**

SANITARY SEWER LINES.

ABS ACRYLONITRILE BUTADIENE STYRENE ABV ABOVE AD AREA DRAIN AFF ABOVE FINISHED FLOOR ALT ALTERNATE BFF BELOW FINISHED FLOOR BLW BELOW CO CLEAN OUT CW COLD WATER D DEGREE DFU DRANAGE FIXTURE UNIT DIA DIAMETER DN DOWN FCO FLOOR CLEAN OUT FD FLOOR DRAIN FL FLOOR FS FLOOR SINK FT FOOT/FEET HB HOSE BIB HW HOT WATER IN INCH MIN MINIMUM NO NUMBER NTS NOT TO SCALE PEX CROSS-LINKED POLYETHYLENE PLBG PLUMBING PVC POLYVINYL CHLORIDE QTY QUANTITY RD ROOF DRAIN RED REDUCER RM ROOM RW RAIN WATER SF SQUARE FOOT	Ø	DIAMETER
AD AREA DRAIN  AFF ABOVE FINISHED FLOOR  ALT ALTERNATE  BFF BELOW FINISHED FLOOR  BLW BELOW  CO CLEAN OUT  CW COLD WATER  D DEGREE  DFU DRANAGE FIXTURE UNIT  DIA DIAMETER  DN DOWN  FCO FLOOR CLEAN OUT  FD FLOOR DRAIN  FL FLOOR  FS FLOOR SINK  FT FOOT/FEET  HB HOSE BIB  HW HOT WATER  IN INCH  MIN MINIMUM  NO NUMBER  NTS NOT TO SCALE  PEX CROSS-LINKED POLYETHYLENE  PLBG PLUMBING  PVC POLYVINYL CHLORIDE  QTY QUANTITY  RD ROOF DRAIN  RED REDUCER  RM ROOM  RW RAIN WATER	ABS	ACRYLONITRILE BUTADIENE STYRENE
AFF ABOVE FINISHED FLOOR ALT ALTERNATE BFF BELOW FINISHED FLOOR BLW BELOW CO CLEAN OUT CW COLD WATER D DEGREE DFU DRANAGE FIXTURE UNIT DIA DIAMETER DN DOWN FCO FLOOR CLEAN OUT FD FLOOR DRAIN FL FLOOR FS FLOOR SINK FT FOOT/FEET HB HOSE BIB HW HOT WATER IN INCH MIN MINIMUM NO NUMBER NTS NOT TO SCALE PEX CROSS-LINKED POLYETHYLENE PLBG PLUMBING PVC POLYVINYL CHLORIDE QTY QUANTITY RD ROOF DRAIN RED REDUCER RM ROOM RW RAIN WATER	ABV	ABOVE
ALT ALTERNATE BFF BELOW FINISHED FLOOR BLW BELOW CO CLEAN OUT CW COLD WATER D DEGREE DFU DRANAGE FIXTURE UNIT DIA DIAMETER DN DOWN FCO FLOOR CLEAN OUT FD FLOOR DRAIN FL FLOOR FS FLOOR SINK FT FOOT/FEET HB HOSE BIB HW HOT WATER IN INCH MIN MINIMUM NO NUMBER NTS NOT TO SCALE PEX CROSS-LINKED POLYETHYLENE PLBG PLUMBING PVC POLYVINYL CHLORIDE QTY QUANTITY RD ROOF DRAIN RED REDUCER RM ROOM RW RAIN WATER	AD	AREA DRAIN
BFF BELOW FINISHED FLOOR BLW BELOW CO CLEAN OUT CW COLD WATER D DEGREE DFU DRANAGE FIXTURE UNIT DIA DIAMETER DN DOWN FCO FLOOR CLEAN OUT FD FLOOR DRAIN FL FLOOR FS FLOOR SINK FT FOOT/FEET HB HOSE BIB HW HOT WATER IN INCH MIN MINIMUM NO NUMBER NTS NOT TO SCALE PEX CROSS-LINKED POLYETHYLENE PLBG PLUMBING PVC POLYVINYL CHLORIDE QTY QUANTITY RD ROOF DRAIN RED REDUCER RM ROOM RW RAIN WATER	AFF	ABOVE FINISHED FLOOR
BLW BELOW CO CLEAN OUT CW COLD WATER D DEGREE DFU DRANAGE FIXTURE UNIT DIA DIAMETER DN DOWN FCO FLOOR CLEAN OUT FD FLOOR DRAIN FL FLOOR FS FLOOR SINK FT FOOT/FEET HB HOSE BIB HW HOT WATER IN INCH MIN MINIMUM NO NUMBER NTS NOT TO SCALE PEX CROSS-LINKED POLYETHYLENE PLBG PLUMBING PVC POLYVINYL CHLORIDE QTY QUANTITY RD ROOF DRAIN RED REDUCER RM ROOM RW RAIN WATER	ALT	ALTERNATE
CO CLEAN OUT CW COLD WATER D DEGREE DFU DRANAGE FIXTURE UNIT DIA DIAMETER DN DOWN FCO FLOOR CLEAN OUT FD FLOOR DRAIN FL FLOOR FS FLOOR SINK FT FOOT/FEET HB HOSE BIB HW HOT WATER IN INCH MIN MINIMUM NO NUMBER NTS NOT TO SCALE PEX CROSS-LINKED POLYETHYLENE PLBG PLUMBING PVC POLYVINYL CHLORIDE QTY QUANTITY RD ROOF DRAIN RED REDUCER RM ROOM RW RAIN WATER	BFF	BELOW FINISHED FLOOR
CW COLD WATER  D DEGREE  DFU DRANAGE FIXTURE UNIT  DIA DIAMETER  DN DOWN  FCO FLOOR CLEAN OUT  FD FLOOR DRAIN  FL FLOOR  FS FLOOR SINK  FT FOOT/FEET  HB HOSE BIB  HW HOT WATER  IN INCH  MIN MINIMUM  NO NUMBER  NTS NOT TO SCALE  PEX CROSS-LINKED POLYETHYLENE  PLBG PLUMBING  PVC POLYVINYL CHLORIDE  QTY QUANTITY  RD ROOF DRAIN  RED REDUCER  RM ROOM  RW RAIN WATER	BLW	BELOW
D DEGREE DFU DRANAGE FIXTURE UNIT DIA DIAMETER DN DOWN FCO FLOOR CLEAN OUT FD FLOOR DRAIN FL FLOOR FS FLOOR SINK FT FOOT/FEET HB HOSE BIB HW HOT WATER IN INCH MIN MINIMUM NO NUMBER NTS NOT TO SCALE PEX CROSS-LINKED POLYETHYLENE PLBG PLUMBING PVC POLYVINYL CHLORIDE QTY QUANTITY RD ROOF DRAIN RED REDUCER RM ROOM RW RAIN WATER	CO	CLEAN OUT
DFU DRANAGE FIXTURE UNIT DIA DIAMETER DN DOWN FCO FLOOR CLEAN OUT FD FLOOR DRAIN FL FLOOR FS FLOOR SINK FT FOOT/FEET HB HOSE BIB HW HOT WATER IN INCH MIN MINIMUM NO NUMBER NTS NOT TO SCALE PEX CROSS-LINKED POLYETHYLENE PLBG PLUMBING PVC POLYVINYL CHLORIDE QTY QUANTITY RD ROOF DRAIN RED REDUCER RM ROOM RW RAIN WATER	CW	COLD WATER
DIA DIAMETER DN DOWN FCO FLOOR CLEAN OUT FD FLOOR DRAIN FL FLOOR FS FLOOR SINK FT FOOT/FEET HB HOSE BIB HW HOT WATER IN INCH MIN MINIMUM NO NUMBER NTS NOT TO SCALE PEX CROSS-LINKED POLYETHYLENE PLBG PLUMBING PVC POLYVINYL CHLORIDE QTY QUANTITY RD ROOF DRAIN RED REDUCER RM ROOM RW RAIN WATER	D	DEGREE
DN DOWN FCO FLOOR CLEAN OUT FD FLOOR DRAIN FL FLOOR FS FLOOR SINK FT FOOT/FEET HB HOSE BIB HW HOT WATER IN INCH MIN MINIMUM NO NUMBER NTS NOT TO SCALE PEX CROSS-LINKED POLYETHYLENE PLBG PLUMBING PVC POLYVINYL CHLORIDE QTY QUANTITY RD ROOF DRAIN RED REDUCER RM ROOM RW RAIN WATER	DFU	DRANAGE FIXTURE UNIT
FCO FLOOR CLEAN OUT FD FLOOR DRAIN FL FLOOR FS FLOOR SINK FT FOOT/FEET HB HOSE BIB HW HOT WATER IN INCH MIN MINIMUM NO NUMBER NTS NOT TO SCALE PEX CROSS-LINKED POLYETHYLENE PLBG PLUMBING PVC POLYVINYL CHLORIDE QTY QUANTITY RD ROOF DRAIN RED REDUCER RM ROOM RW RAIN WATER	DIA	DIAMETER
FD FLOOR DRAIN FL FLOOR FS FLOOR SINK FT FOOT/FEET HB HOSE BIB HW HOT WATER IN INCH MIN MINIMUM NO NUMBER NTS NOT TO SCALE PEX CROSS-LINKED POLYETHYLENE PLBG PLUMBING PVC POLYVINYL CHLORIDE QTY QUANTITY RD ROOF DRAIN RED REDUCER RM ROOM RW RAIN WATER	DN	DOWN
FL FLOOR FS FLOOR SINK FT FOOT/FEET HB HOSE BIB HW HOT WATER IN INCH MIN MINIMUM NO NUMBER NTS NOT TO SCALE PEX CROSS-LINKED POLYETHYLENE PLBG PLUMBING PVC POLYVINYL CHLORIDE QTY QUANTITY RD ROOF DRAIN RED REDUCER RM ROOM RW RAIN WATER	FCO	FLOOR CLEAN OUT
FS FLOOR SINK FT FOOT/FEET HB HOSE BIB HW HOT WATER IN INCH MIN MINIMUM NO NUMBER NTS NOT TO SCALE PEX CROSS-LINKED POLYETHYLENE PLBG PLUMBING PVC POLYVINYL CHLORIDE QTY QUANTITY RD ROOF DRAIN RED REDUCER RM ROOM RW RAIN WATER	FD	FLOOR DRAIN
FT FOOT/FEET  HB HOSE BIB  HW HOT WATER  IN INCH  MIN MINIMUM  NO NUMBER  NTS NOT TO SCALE  PEX CROSS-LINKED POLYETHYLENE  PLBG PLUMBING  PVC POLYVINYL CHLORIDE  QTY QUANTITY  RD ROOF DRAIN  RED REDUCER  RM ROOM  RW RAIN WATER	FL	FLOOR
HB HOSE BIB HW HOT WATER IN INCH MIN MINIMUM NO NUMBER NTS NOT TO SCALE PEX CROSS-LINKED POLYETHYLENE PLBG PLUMBING PVC POLYVINYL CHLORIDE QTY QUANTITY RD ROOF DRAIN RED REDUCER RM ROOM RW RAIN WATER	FS	FLOOR SINK
HW HOT WATER IN INCH MIN MINIMUM NO NUMBER NTS NOT TO SCALE PEX CROSS-LINKED POLYETHYLENE PLBG PLUMBING PVC POLYVINYL CHLORIDE QTY QUANTITY RD ROOF DRAIN RED REDUCER RM ROOM RW RAIN WATER	FT	FOOT/FEET
IN INCH MIN MINIMUM NO NUMBER NTS NOT TO SCALE PEX CROSS-LINKED POLYETHYLENE PLBG PLUMBING PVC POLYVINYL CHLORIDE QTY QUANTITY RD ROOF DRAIN RED REDUCER RM ROOM RW RAIN WATER	HB	HOSE BIB
MIN MINIMUM  NO NUMBER  NTS NOT TO SCALE  PEX CROSS-LINKED POLYETHYLENE  PLBG PLUMBING  PVC POLYVINYL CHLORIDE  QTY QUANTITY  RD ROOF DRAIN  RED REDUCER  RM ROOM  RW RAIN WATER	HW	HOT WATER
NO NUMBER  NTS NOT TO SCALE  PEX CROSS-LINKED POLYETHYLENE  PLBG PLUMBING  PVC POLYVINYL CHLORIDE  QTY QUANTITY  RD ROOF DRAIN  RED REDUCER  RM ROOM  RW RAIN WATER	IN	INCH
NTS NOT TO SCALE PEX CROSS-LINKED POLYETHYLENE PLBG PLUMBING PVC POLYVINYL CHLORIDE QTY QUANTITY RD ROOF DRAIN RED REDUCER RM ROOM RW RAIN WATER	MIN	
PEX CROSS-LINKED POLYETHYLENE PLBG PLUMBING PVC POLYVINYL CHLORIDE QTY QUANTITY RD ROOF DRAIN RED REDUCER RM ROOM RW RAIN WATER	NO	NUMBER
PLBG PLUMBING PVC POLYVINYL CHLORIDE QTY QUANTITY RD ROOF DRAIN RED REDUCER RM ROOM RW RAIN WATER	NTS	
PVC POLYVINYL CHLORIDE QTY QUANTITY RD ROOF DRAIN RED REDUCER RM ROOM RW RAIN WATER		CROSS-LINKED POLYETHYLENE
QTY QUANTITY  RD ROOF DRAIN  RED REDUCER  RM ROOM  RW RAIN WATER		_
RD ROOF DRAIN RED REDUCER RM ROOM RW RAIN WATER		
RED REDUCER RM ROOM RW RAIN WATER	QTY	QUANTITY
RM ROOM RW RAIN WATER		
RW RAIN WATER		
1111 111111111		
SF   SQUARE FOOT		
V VENT		
VTR VENT THROUGH ROOF		
W WASTE		
WCO WALL CLEAN OUT		
WSFU WATER SUPPLY FIXTURE UNIT	WSFU	WATER SUPPLY FIXTURE UNIT

## PLUMBING LEGEND

CAP
BEND 45 DEG
BEND 90 DEG
TEE REDUCING
TEE
CLEAN TWO-WAY
WYE 45 DEG
WYE 45 DEG DOUBLE
WYE COMBINATION
P-TRAP

PIPE SCHEDULE								
MATERIAL	DIAMETER	LENGTH						
ACRYLONITRILE BUTADIENE STYRENE (ABS)	1 1/2"	22 FT						
ACRYLONITRILE BUTADIENE STYRENE (ABS)	2"	36 FT						
ACRYLONITRILE BUTADIENE STYRENE (ABS)	3"	18 FT						
CROSS-LINKED POLYETHYLENE (PEX)	1/2"	84 FT						
CROSS-LINKED POLYETHYLENE (PEX)	3/4"	20 FT						
CROSS-LINKED POLYETHYLENE (PEX)	1"	1 FT						
POLYVINYL CHLORIDE - RIGID	2"	45 FT						

FITTING SCHEDULE						
FITTING	SIZE	QTY				
DOMESTIC COLD WATER						
PEX 90 DEGREE ELBOW	1/2"ø-1/2"ø	11				
PEX 90 DEGREE ELBOW	3/4"ø-3/4"ø	1				
PEX TEE ELBOW	1/2"ø-1/2"ø	5				
PEX TEE ELBOW	3/4"ø-3/4"ø-3/4"ø	2				
PEX TRANSITION ELBOW	1"ø-3/4"ø	1				
PEX TRANSITION ELBOW	3/4"ø-1/2"ø	1				
DOMESTIC HOT WATER						
PEX 90 DEGREE ELBOW	1/2"ø-1/2"ø	14				
PEX 90 DEGREE ELBOW	3/4"ø-3/4"ø	2				
PEX TEE ELBOW	1/2"ø-1/2"ø	4				
PEX TRANSITION ELBOW	3/4"ø-1/2"ø	1				
PVC 90 DEG BEND ELBOW PVC 90 DEGREE BEND ELBOW SEWAGE	2"ø-2"ø 2"ø-2"ø	12				
SEWAGE	4.4/014.4/01.					
ABS 90 DEGREE BEND ELBOW ABS 90 DEGREE BEND ELBOW	1 1/2"ø-1 1/2"ø 2"ø-2"ø	2 2				
ABS 90 DEGREE BEND ELBOW	3"ø-3"ø	1				
ABS P-TRAP	1 1/2"ø-1 1/2"ø	2				
ABS P-TRAP	2"ø-2"ø	2				
ABS REDUCER ELBOW	2"ø-1 1/2"ø	1				
ABS REDUCER ELBOW	3"ø-2"ø	1				
ABS TEE ELBOW	1 1/2"ø-1 1/2"ø-1 1/2"ø	1				
ABS TEE ELBOW	2"ø-2"ø-2"ø	1				
ABS TEE ELBOW	3"ø-3"ø-3"ø	2				
ABS TEE REDUCER ELBOW	2"ø-2"ø-1 1/2"ø	1				
ABS TEE REDUCER ELBOW	3"ø-3"ø-1 1/2"ø	1				
ABS TEE REDUCER ELBOW	3"ø-3"ø-2"ø	1				
WASTE DOUBLE TEE	2"ø-2"ø-2"ø	1				
VENT						
ABS VENT CAP ELBOW	1 1/2"ø	1				
ABS VENT CAP ELBOW	2"ø	2				

FIXTURE CONNECTION SCHEDULE											
FAMILY	W	V	TRAP	CW	HW	QTY	DFU	TOT.	WFU	TOT.	NOTES
DIOLINA OLIED	0"	4 4 (0)	4.4/01	4 (0)	4 (0)	4		•			DRAIN TO SEWER SEE
DISHWASHER	2"	1-1/2"	1-1/2"	1/2"	1/2"	1		0			PLANS
DRYER	N/A	N/A	N/A	N/A	N/A	1		0			
HANGING PIPES CLAMP						12		0			
SHOWER TRAY	2"	1-1/2"	1-1/2"	1/2"	1/2"	1		0			
SHOWER TRIM	-	-	-	1/2"	1/2"	1		0			
SINK ISLAND SINGLE	2"	1-1/2"	1-1/2"	1/2"	1/2"	1		0			
VANITY SINK	2"	1-1/2"	1-1/2"	1/2"	1/2"	1		0			
WASHER	2"	1-1/2"	2"	1/2"	1/2"	1		0			DRAINS TO GRAY WATER
WATER CLOSET						1		0			
WATER HEATER	N/A	N/A	N/A	3/4"	3/4"	1		0			

EIVTLIDE CONNECTION SCHEDLILE

ABS VENT CAP ELBOW

FIXTURE SCHEDULE							
FIXTURE	FIXTURE QTY DESCRIPTION						
DICHIMACHED	1	DRAIN TO SEWER SEE PLANS					
DISHWASHER DRYER	1	DRAIN TO SEWER SEE PLANS					
HANGING PIPES CLAMP	12						
SHOWER TRAY	1						
SHOWER TRIM	1						
SINK ISLAND SINGLE	1						
VANITY SINK	1						
WASHER	1	DRAINS TO GRAY WATER OR SEWER SEE PLANS					
WATER CLOSET	1						
WATER HEATER	1						

ACCESSORIES & FITTINGS SCHEDULE							
FIXTURE	QTY	DESCRIPTIONS					
DISHWASHER CONNECTOR	2						
HOSE BIB	1						
SHUTOFF VALVE	6						

PLUMBING SCHEDULE									
FIXTURE	TRAP	WASTE	VENT	C.W	H.W				
DISHWASHER	1-1/2"	2"	1-1/2"	1/2"	1/2"				
DRYER	N/A	N/A	N/A	N/A	N/A				
SHOWER TRAY	1-1/2"	2"	1-1/2"	1/2"	1/2"				
SHOWER TRIM	-	-	-	1/2"	1/2"				
SINK ISLAND SINGLE	1-1/2"	2"	1-1/2"	1/2"	1/2"				
VANITY SINK	1-1/2"	2"	1-1/2"	1/2"	1/2"				
WASHER	2"	2"	1-1/2"	1/2"	1/2"				
WATER CLOSET									
WATER HEATER	N/A	N/A	N/A	3/4"	3/4"				

WATER FIXTURE UNIT SCHEDULE									
FAMILY	QTY	UNIT VALUE	TOTAL						
DISHWASHER 1 0									
DRYER	1		0						
HANGING PIPES CLAMP	12		0						
SHOWER TRAY	1		0						
SHOWER TRIM	1		0						
SINK ISLAND SINGLE	1		0						
VANITY SINK	1		0						
WASHER	1		0						
WATER CLOSET	1		0						
WATER HEATER	1		0						

WASTE FIXTURE UNIT SCHEDULE								
FAMILY	QTY	DFU VALUES	TOTAL					
DISHWASHER	1	0						
DRYER	1	0						
HANGING PIPES CLAMP	12	0						
SHOWER TRAY	1	0						
SHOWER TRIM	1	0						
SINK ISLAND SINGLE	1	0						
VANITY SINK	1	0						
WASHER	1	0						
WATER CLOSET	1	0						
WATER HEATER	1	0						



inquira@framaunnaw.com

**KEY PLAN** 

NO. DESCRIPTION DATE

NOTE:

LEGEND:

PROJECT

153-Haven-499-Studio Ranch-550

DRAWING NAME

NOTE AND SCHEDULE

 CLIENT NAME:

 PROJECT NUMBER:
 0246\_11

 DATE:
 3/6/2025 10:18:55 AM

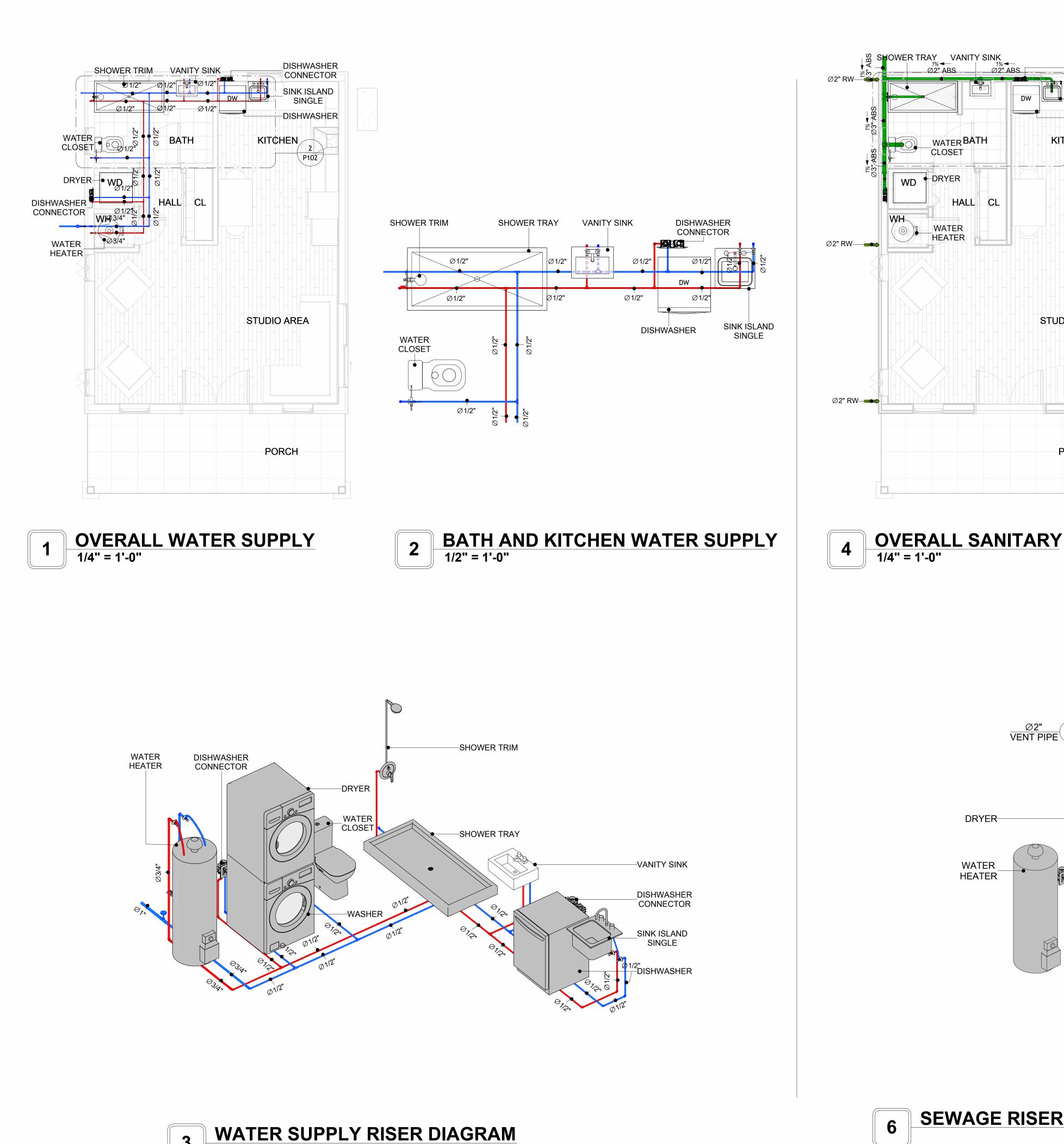
 DESIGNED BY:
 Designer

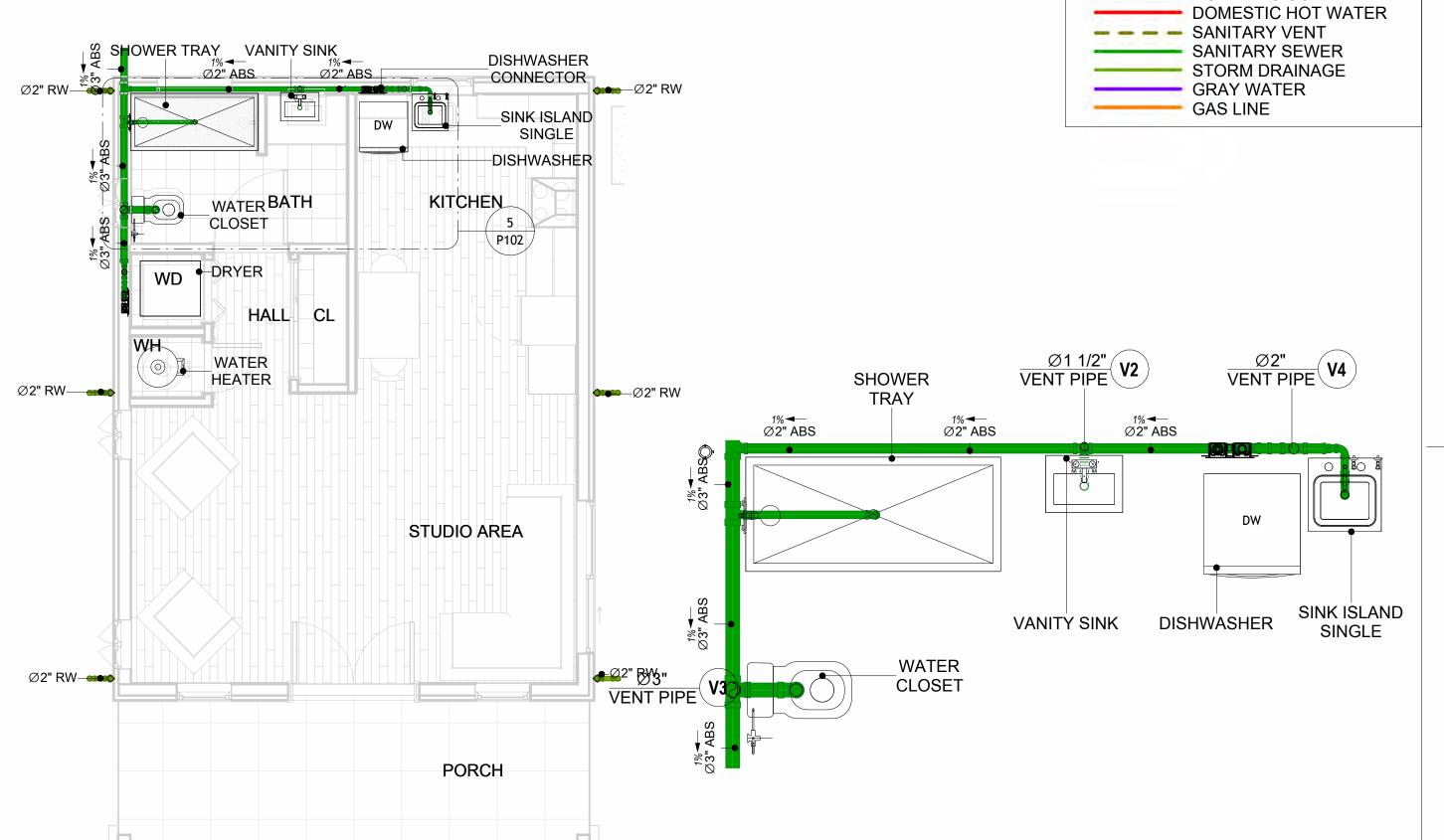
 DRAWN BY:
 Author

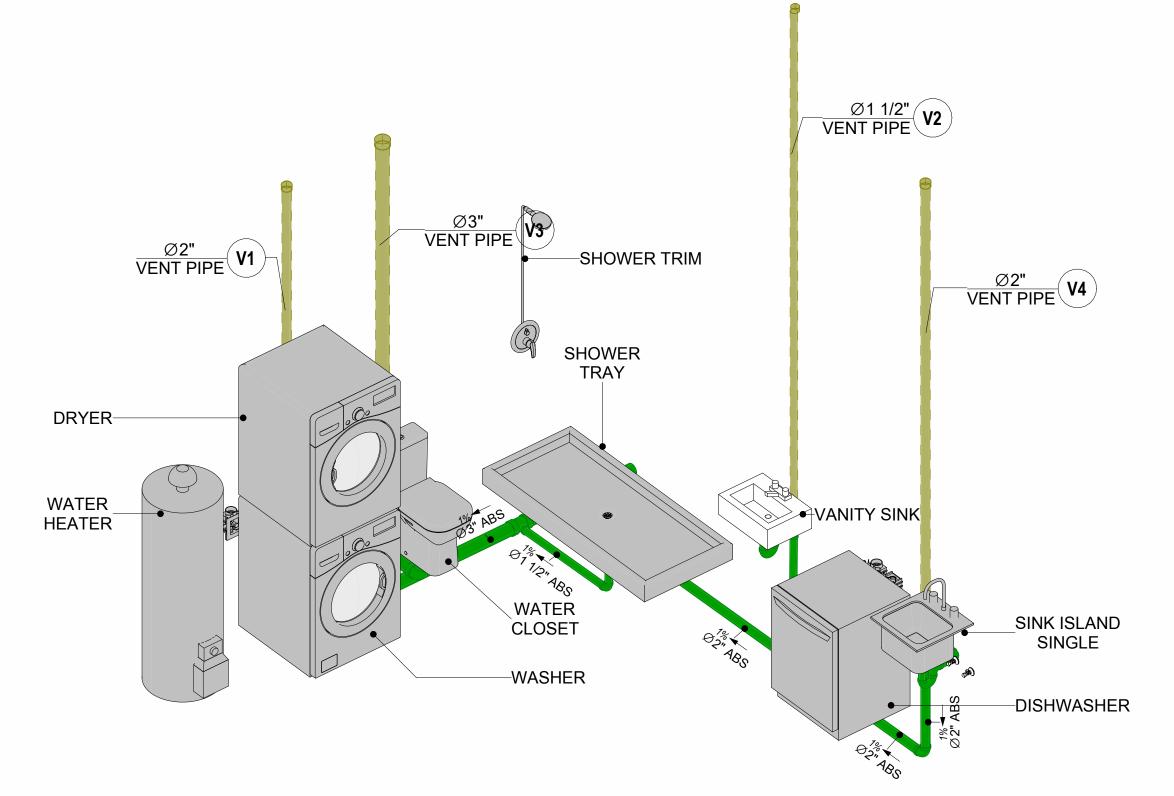
 CHECKED BY:
 Checker

P101

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







**BATH AND KITCHEN SEWAGE** 

**SEWAGE RISER DIAGRAM** 



**KEY PLAN** 

PIPE COLOR SCHEME

DOMESTIC COLD WATER



NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

153-Haven-499-Studio Ranch-550

DRAWING NAME

## WATER SUPPLY AND **SEWAGE SYSTEM**

CLIENT NAME: PROJECT NUMBER: 0246\_11 3/6/2025 10:19:24 AM DESIGNED BY: DRAWN BY: CHECKED BY: Checker

P102

## Materials Shopping List

Please print and take this Materials Shopping List to your favorite Home Depot and ask for assistance in selecting the materials, fixtures and fittings to complete your new home.

Record your selection and the price of the item. Then do the math to determine the cost for your selections and the total cost of finishing your home.

#### **Have It Your Way!**

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Have It Your Way!



## 20 good reasons to frame a home with metal and not wood



Why build your ADU with metal vs wood	Wood	Metal	Explanation
1 DIY Construction Benefit		<b>~</b>	The wall frames, trusses and beams can be erected in a just a few days
2 Minimal Construction Skills Required		<b>~</b>	Pre-assembled walls and trusses require no specialized skills to errect
3 Build as DIY, Hybrid or by a General Contractor		<b>~</b>	Do it yourself, Hybrid (involve special contractors) or hire a General Contractor
4 Build It As You Can Afford It		<b>~</b>	Impervious to Weather - build as you have the time and money
5 Up Front Cost of Framing Materials	~		As to only the framing material, wood is less expensive
6 Total Cost To Build		<b>~</b>	Savings in time, labor, and other areas make light gauge steel LESS expensive
7 Termites and wood boring insects		<b>~</b>	Termites, carpenter ants and wood boring insects eat wood, not metal
8 Mold resistant		<b>~</b>	Metal does not attract mold
9 Damage caused by exterior and interior flooding		<b>~</b>	Metal needs no reconditioning after a flood
10 Fire Resistant		<b>✓</b>	Non-combustible
11 Lower insurance rates		<b>~</b>	Many insurance underwriters now provide lower rates for metal framed homes
12 Walls, trusses, and beams retain their original form		<b>~</b>	Perfectly straight walls - no shimming of drywall
13 Corners are 90 degrees		<b>~</b>	No need for templating of countertops to adjust for out of square corners
14 Strength and weight		<b>~</b>	Metal is stronger than wood and weighs less - no need for crane to lift ADU trusses
15 IBC Engineered Stamp		<b>✓</b>	If an engineering stamp is necessary, months of waiting are saved
16 Complete BOM (Materials Shopping List)		<b>~</b>	Take the materials shopping list to Home Depot and start shopping/pricing
17 Flexible in Seismic Areas - Won't Fracture		<b>~</b>	Light gauge steel is flexible and won't fracture when the earth moves
18 No Waste At Job Site		<b>~</b>	Steel is the most recycled material in the world. A typical wood home has 20-30% waste
19 Environmentally Friendly		<b>~</b>	Trees don't have to be destroyed and the source of most metal is from recycling
20 How-To Videos Included		<b>~</b>	How-to videos provide simple assembly instructions
21 Relationship Counselor		<b>~</b>	Eliminate emotional uphevels - save time, money, and preserve the relationship

#### Universal Requirements - some or all may be required

- 1 Site plan
- 2 Electrical Supply Connection
- 3 Sewer Connection
- 4 Fresh Water Supply Connection
- 5 Set Backs
- 6 Soils Evaluation

- 7 Earthquake (fault) evaluation
- 8 Foundation Plan subject to soils
- 9 Compliance with local energy codes: insulation home wrap and flashing
- 10 Engineering for wind speed and snow load.
- 11 State and Local ordinances regarding ADUs
- 12 Local Architect and/or Engineer may be necessary

#### Haven-Studio-Ranch





## Haven-Studio-Ranch MATERIAL SHOPPING LIST

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#### TOC



#### Table Of Content

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- 7 If there are additional trim elements or specific installation methods, the total amount of materials needed might vary. Consider any additional trim required for corners, intersections, or other architectural details that might cause this variations before proceeding to purchase and construction.

#### **ARCHITECTURAL BOM**



			laven-Stuc				
		ARCHITECTL					
No.	Item	Туре	Unit	Quantity	Unit Price	Total	Description
<u> </u>	APPLIANCES	I	la co				
1	Refrigerator		PCS	1			
2	Range		PCS	1			
3	Washer		PCS	1			
4	Dryer		PCS	1			
5	Dish Washer		PCS	1			
6	Oven		PCS	0			
7	Microwave		PCS	0			
<u></u>	CASEWORKS	1					
1	Kitchen Cabinet		FT	19.23			
2	Laundry Cabinet		FT	0			
3	Vanity Cabinet		FT	3.29			
4	Medicine Cabinet		PCS	1			
5	Kitchen countertop		SF	28			
6	Laundry Countertop		PCS	0			
7	Bathroom Countertop		SF	0			
8	Island		FT	0			
9	Peninsula		FT	0			
10	Closets		SF	32			
Δ	CEILING						
1	Ceiling Board	Dry Wall	SF	422			
2	Dry Wall Fastener	Screw	PCS	738.5			
3	Vapor Retarder	Polyethylene film	SF	615			
4	Vapor Retarder Fastener	Nails with washer heads	PCS	1845			
5	Ceiling Board (MRD)	Moisture resistant drywall	SF	62			
6	MRD Fastener	j	PCS	108.5			
7	Ceiling Board	Marine Plywood	SF	131			
8	Marine Plywood Fastener	Screw	PCS	229.25			
9	Dry Wall Tape		FT	307.5			
Δ	FLOORING	!		007.10			
1	Main Living Space		SF	359.88			
2	Bathroom		SF	60.35			
	Porch		SF	119.5			
	STRUCTURE	I.	31	117.5			
_	Foundation		SF	604			
	WALLS EXTERIOR	I.	51	001	I		
1	External Stone		SF	210			
2	Exterior-Grade Plywood		SF	707			
3		Self-drilling screws(100/pkt)	SF	7.07			
4	Wall Shteathing (OSB)	John drilling Sciews (100/pkt)	PKT	917			
5	Shteathing Fastener	Self-drilling screws(100/pkt)	SF	9.17			
	Wall Homewrap	Self-drilling Screws(100/pkt)	PKT	9.17			
6		Stanlad factonor (200/sld)					
	Homewrap Fastener	Stapled fastener (200/pkt)	SF	3.4846			
8	Furring Strip	0 15 1 1111	PKT	88.375			
9	Furring Strip Fastener	Self-drilling screws(100/pkt)	PCS	7.07			
10	Wall Paint		PKT	917			
11	Stone Copping	Masonry stone	SF	917			
	Stone Veneer	Masonry stone	SF	0			
	Mortar for Stone Veneer		SF	0			
	Wall Insulation		SF	2205			
	WALLS INTERIOR						
	Cementitious Backer Board		SF	450			
	Kerdi membrane		SF	450			
3	Kerdi membrane Fastener		SF	450			
4	Wall Ceramic Tile		SF	450			
5	Drywall Board		SF	994			
	Drywall Fastener	Self-drilling screws(100/pkt)	PKT	9.94			
7	Wall Paint	, , , ,	SF	994			
8	Drywall Tape		FT	187			
	Wall Sweep		FT	88			

#### **ARCHITECTURAL BOM**



$\cap$	DOORS					
1	Interior Swinging	3' - 0" X 6'-8"	PCS	1		
2		2' - 0" X 6'-8"	PCS	1		
3	Interior Swinging Bifold	2' - 6" X 6'-8"	PCS	1		
_				1		
4	Interior Sliding	4' - 8" X 6'-8"	PCS	1		
5	Exterior Swinging	5' - 0" X 6'-8"	PCS			
6	Exterior Door Trim		FT	19		
7	Interior Door Trim		FT	150		
8	Entry Lock set			1		
9	Privacy Lock set			1		
10	Passage Lock set			3		
	WINDOWS					
1	Single Hung	2' - 3" X 4'-3"	PCS	2		
2	Casement	2' - 0" X 2'-4"	PCS	3		
3	Awning	3' - 1" X 2'-1"	PCS	1		
4	Single Hung	2' - 7" X 3'-3"	PCS	1		
5	Sliding	6' - 3" X 3'-9"	PCS	1		
6	Exterior Window Trim		FT	94		
7	Interior Window Trim		FT	94		
	ROOF					
1	Roof Covering		SF	794		
2	Roof Covering Fastener		PCS	397		
3	Roof Felt Paper		SF	794		
4	Roof Felt Paper Fastener		PCS	2382		
5	Roof Sheathing		SF	794		
6	Roof Sheathing Fastener		PCS	6352		
7	Batten		FT	0		
8	Batten Fastener		PCS	0		
9	Soffit		SF	110		
10	Soffit Fastener		PCS	55		
	Fascia		FT	114		
	Fascia board fastener		PCS	57		
	Roof Insulation		SF	794		
_ 13	TOOL HISUIGUOT	1	J31			



		Haven-Studio-Ran	ch		
	FLECTRIC	AL MATERIAL SHO	OPPING LIS	T	
No.	Item	Type	Unit	Quantity	Description
Δ	LIGHTING FIXTURES				<u> </u>
1	Kitchen Ceiling Light		PCS	2	
2	Kitchen Wall Mounted Light		PCS	1	
3	Exterior Wall Mounted Light		PCS	2	
4	Livingroom Ceiling Light With Fan		PCS	1	
5	Bedroom Ceiling Light With Fan		PCS	0	
6	Dining Ceiling Light		PCS	2	
7	Bathroom Wall Mounted Light		PCS	1	
8	Bathroom Ceiling Light		PCS	2	
9	Livingroom Ceiling Light		PCS	4	
10	Bedroom Ceiling Light		PCS	0	
	Hall & Entry Ceiling Light		PCS	2	
	Closet Ceiling Light		PCS	1	
	WD Ceiling Light		PCS	1	
14	Smoke Detector		PCS	0	
Δ	ELECTRICAL FITTINGS				
15	Standard Receptacle 120V	20A	PCS	6	
	GFCI Receptacle 120V	20 A	PCS	14	
17	GFCI Receptacle 240V	30 A	PCS	2	
18	GFCI Receptacle 240V	50 A	PCS	1	
19	GFCI Receptacle 240V	60 A	PCS	1	
	Fan Switch		PCS	1	
21	Single Pole Switch		PCS	8	
	Three Way Switch		PCS	2	
	Dimmer Switch		PCS	1	
	ELECTRICAL CONDUITS & WIRING		1.00		
	ROMEX 14 AWG	14/2/W/ground	FT	92	
	ROMEX 12 AWG	12/3/W/ground	FT	238	
	ROMEX 12 AWG	12/2/W/ground	FT	44	
27	ROMEX 10 AWG	10/3/W/ground	FT	0	
	ROMEX 10 AWG	10/2/W/ground	FT	34	
	Romex 8 AWG	8/3/W/ground	FT	0	
	Romex 8 AWG	8/2/W/ground	FT	19	
	ROMEX 6 AWG	6/3/W/ground	FT	23	
	Bare Copper Ground Wire 6 AWG	0/0/W/ground	FT	0	
<u>\( \text{\( \text{\) \exitin\} \ext{\\ \ext{\( \text{\( \text{\\ \exitin\} \ext{\\ \exitin\} \ext{\\ \ext{\( \text{\( \text{\\ \ext{\\ \ext{\\ext{\\ \exi}\}\\ \ext{\\ \exi}\\ \ext{\\ \ext{\\ \ext{\\ \ext{\\ \ext{\\ \exi}\}\\ \\ \ex{</u>	ELECTRICAL BOXES & CIRCUTES		11	0	
	Panelboard -240V 1 Phase MLO	200 AMP	PCS	1	
	Circuit breaker	15 A	PCS	3	
	Circuit breaker	20 A	PCS	10	
	Circuit breaker	30 A	PCS	10	
	Circuit breaker	50 A	PCS	1	
	Circuit breaker	60 A	PCS	1	
	Single Gang Switch Box	UU A	PCS	5	
	Double Gang Switch Box		PCS	2	
	Triple Gang Switch Box	+	PCS	1	
	Pull Box	#1/4	PCS	12	
		π 1/4	PCS	23	
44	Receptacle Box		100	۷۵	

#### **PLUMBING BOM**

1 Bath Tub (Alcove Tub)

Bath room Faucets

2 Kitchen Sink

4 Vanity Sink

3 Kitchen Faucets

Water Closet

Shower Trim

8 Shower Tray

Item

□ PLUMBING FIXTURES & ACCESSORIES

No.

#### Haven-Studio-Ranch PLUMBING SYSTEM MATERIAL SHOPPING LIST Description Unit Quantity Unit Price Total Type PCS 0 PCS 1 PCS 1 PCS 1 PCS 1 PCS 1 PCS 1 PCS 1

9	Water Heater		PCS	1		
10	Hose Bib		PCS	1		
11	Shutoff Valve		PCS	6		
12	Hanging pipe clamp		PCS	19		
13	Gate Valve		PCS	1		
14	Dishwasher Supply Single Connector		PCS	1		
15	Dishwasher Sewage Single Connector		PCS	1		
16	Laundry Sweat Connector		PCS	1		
	SANITARY & PLUMBING PIPES					
1	ABS (Acrylonitrile Butadiene Styrene) Pipes	ø 1"	FT	0		
2	ABS (Acrylonitrile Butadiene Styrene) Pipes	ø 1 1/2"	FT	22		
3	ABS (Acrylonitrile Butadiene Styrene) Pipes	ø 2"	FT	41		
4	ABS (Acrylonitrile Butadiene Styrene) Pipes	ø 3"	FT	21		
5	PEX (Cross-linked polyethylene) Pipes	ø 1/2"	FT	84		
6	PEX (Cross-linked polyethylene) Pipes	ø 3/4"	FT	20		
7	PEX (Cross-linked polyethylene) Pipes	ø 1"	FT	1		
8	PVC Pipes Sch.80 - Rigid	ø 1 1/2"	FT	0		
9	PVC Pipes Sch.80 - Rigid	ø 2"	FT	45		
10	PVC Pipes Sch.80 - Rigid	ø 3"	FT	0		
11	Flex Pipe Round	ø 1/2"	PCS	8		

#### **PLUMBING BOM**

	PIPE FITTINGS					
1	ABS 90 Degree Bend Elbow	1 1/2"ø-1 1/2"ø	PCS	2		
	ABS 90 Degree Bend Elbow	2"ø-2"ø	PCS	2		
	ABS 90 Degree Bend Elbow	3"ø-3"ø	PCS	1		
4	ABS P-Trap	1 1/2"ø-1 1/2"ø	PCS	2		
	ABS P-Trap	2"ø-2"ø	PCS	2		
6	ABS Reducer Elbow	2"ø-1 1/2"ø	PCS	1		
7	ABS Reducer Elbow	3"ø-2"ø	PCS	1		
8	ABS TEE Elbow	1 1/2"ø-1 1/2"ø-1 1/2"ø	PCS	1		
9	ABS TEE Elbow	2"ø-2"ø-2"ø	PCS	1		
10	ABS TEE Elbow	3"ø-3"ø-3"ø	PCS	2		
11	ABS Tee Reducer Elbow	2"ø-2"ø-1 1/2"ø	PCS	1		
	ABS Tee Reducer Elbow	3"ø-3"ø-1 1/2"ø	PCS	1		
	ABS Tee Reducer Elbow	3"ø-3"ø-2"ø	PCS	1		
	ABS Vent Cap Elbow	1 1/2"ø	PCS	1		
	ABS Vent Cap Elbow	2"ø	PCS	2		
	ABS Vent Cap Elbow	3"ø	PCS	1		
17	PEX 90 Degree Elbow	1/2"ø-1/2"ø	PCS	26		
18	PEX 90 Degree Elbow	3/4"ø-3/4"ø	PCS	3		
19	PEX Tee Elbow	1/2"ø-1/2"ø-1/2"ø	PCS	9		
	PEX Tee Elbow	3/4"ø-3/4"ø-3/4"ø	PCS	2		
	PEX Transition Elbow	1"ø-3/4"ø	PCS	1		
	PEX Transition Elbow	3/4"ø-1/2"ø	PCS	2		
23	PVC 90 Deg Bend Elbow	2"ø-2"ø	PCS	12		
24	WASTE DOUBLE TEE	2"ø-2"ø-2"ø	PCS	1		

#### **HVAC BOM**

		Haver	n-Studio-	Ranch			
		HVAC SYSTEM N	1ATERIAL	SHOPP	ING LIST		
No.	Item	Туре	Unit	Quantity	Unit Price	Total	Description
	HVAC_DUCTS						
1	PIPE (REFRIGERANT LINE)	1/4" Ø	FT	1.02			
2	PIPE (REFRIGERANT LINE)	3/4" Ø	FT	26.99			
3	PIPE (REFRIGERANT LINE)	1/2" Ø	FT	0.95			
4	PIPE (REFRIGERANT LINE)	3/4" Ø	FT	32.35			
5	DRAYER HOSE	5" Ø	FT	4			
6	FLEX DUCT ROUND	4"	FT	4.06			
	<b>DUCT FITTINGS &amp; ACCESSORIES</b>						
7	ELBOW (REFRIGERANT LINE)	1/2" (Ø)-1/2" (Ø)	PCS	1			
8	ELBOW (REFRIGERANT LINE)	1/4" (Ø)-1/4" (Ø)	PCS	1			
9	ELBOW (REFRIGERANT LINE)	3/4" (Ø)-3/4" (Ø)	PCS	10			
10	ELBOW (REFRIGERANT LINE)	3/8" (Ø)-3/8" (Ø)	PCS	7			
11	TRANSITION (REFRIGERANT	3/4" (Ø)-1/2" (Ø)	PCS	2			
	TRANSITION (REFRIGERANT	3/4" (Ø)-3/8" (Ø)	PCS	1			
13	TRANSITION (REFRIGERANT	3/8" (Ø)-1/4" (Ø)	PCS	1			
14	ROUND TRANSITION(ANGLE)	#REF!	PCS	5			
	HVAC_EQUIPMENTS						
15	AIR HANDLING UNIT	WALL MOUNTED	PCS	1			
16	CONDENSER	OUTDOOR UNIT	PCS	1			
17	EXHAUST FAN	75 CFM	PCS	1			
18	EXHAUST HOOD	WALL MOUNTED	PCS	1			
19	HOOD-WALL: VENT	HOOD-WALL: VENT	PCS	1			
20	DRAYER: VENT	DRAYER: VENT	PCS	1			
21	ROOF VENT	3"(Ø)	PCS	1			



#### **Table Of Content**

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			LIGHTING FIXTURES				
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity U	nit Price T	Γotal
1	Kitchen Ceiling Light			PCS	2		
2	Kitchen Wall Mounted Light			PCS	1		
3	Exterior Wall Mounted Light			PCS	2		
4	Livingroom Ceiling Light With Fan			PCS	1		
5	Bedroom Ceiling Light With Fan			PCS	0		
6	Dining Ceiling Light			PCS	2		
7	Bathroom Wall Mounted Light			PCS	1		
8	Bathroom Ceiling Light			PCS	2		
9	Livingroom Ceiling Light			PCS	4		
10	Bedroom Ceiling Light			PCS	0		
11	Hall & Entry Ceiling Light			PCS	2		
12	Closet Ceiling Light			PCS	1		
12	WD Ceiling Light			PCS	1		
13	Smoke Detector			PCS	0		
14							
15							



			ELECTRICAL FITTINGS				
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	Standard Receptacle 120V	20A		PCS	6		
2	GFCI Receptacle 120V	20 A		PCS	14		
3	GFCI Receptacle 240V	30 A		PCS	2		
4	GFCI Receptacle 240V	50 A		PCS	1		
5	GFCI Receptacle 240V	60 A		PCS	1		
6	Fan Switch			PCS	1		
7	Single Pole Switch			PCS	8		
8	Three Way Switch			PCS	2		
9	Dimmer Switch			PCS	1		
10							
11							
12							
13							
14							
15							



		ELECTRI	CAL CONDUITS & WIRING				
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	ROMEX 14 AWG	14/3/W/ground		FT	92		
2	ROMEX 12 AWG	12/3/W/ground		FT	238		
3	ROMEX 12 AWG	12/2/W/ground		FT	44		
4	ROMEX 10 AWG	10/3/W/ground		FT	0		
5	ROMEX 10 AWG	10/2/W/ground		FT	34		
6	Romex 8 AWG	8/3/W/ground		FT	0		
7	Romex 8 AWG	8/2/W/ground		FT	19		
8	ROMEX 6 AWG	6/2/W/ground		FT	23		
9	Bare Copper Ground Wire 6 AWG			FT			
10		+					
11							
12							
13							
14							
15							
16							



		ELEC	CTRICAL BOXES & CIRCUTES				
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	Panelboard -240V 1 Phase MLO	200 AMP		PCS	1		
2	Circuit breaker	15 A		PCS	3		
3	Circuit breaker	20 A		PCS	10		
4	Circuit breaker	30 A		PCS	1		
5	Circuit breaker	50 A		PCS	1		
6	Circuit breaker	60 A		PCS	1		
7	Single Gang Switch Box			PCS	5		
8	Double Gang Switch Box			PCS	2		
9	Triple Gang Switch Box			PCS	1		
10	Pull Box	#1/4		PCS	12		
11	Receptacle Box			PCS	23		
12							
13							
14							
15							

#### **HVAC BOM**

			HVAC_DUCTS 01				
‡		Туре	Description, Manufacturer, SKU	Unit	Quantity	<b>Unit Price</b>	Total
	PIPE (REFRIGERANT LINE)			FT	1.02		
	PIPE (REFRIGERANT LINE)	3/8" (Ø)		FT	26.99		
	PIPE (REFRIGERANT LINE)	1/2" (Ø)		FT	0.95		
	PIPE (REFRIGERANT LINE)	3/4''' (Ø)		FT	32.35		
	DRAYER HOSE	4" (Ø)		FT	4		
	FLEX DUCT ROUND	4" (Ø)		FT	4.06		

#### **HVAC BOM**

	DUCT FITTINGS & ACCESSORIES						
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	<b>Unit Price</b>	Total
1	ELBOW (REFRIGERANT LINE)	1/2" (Ø)-1/2" (Ø)		PCS	1		
	ELBOW (REFRIGERANT LINE)	1/4" (Ø)-1/4" (Ø)		PCS	1		
	ELBOW (REFRIGERANT LINE)	3/4" (Ø)-3/4" (Ø)		PCS	10		
	ELBOW (REFRIGERANT LINE)	3/8" (Ø)-3/8" (Ø)		PCS	7		
	TRANSITION (REFRIGERANT LINE)	3/4" (Ø)-1/2" (Ø)		PCS	2		
	TRANSITION (REFRIGERANT LINE)	3/4" (Ø)-5/8" (Ø)		PCS	1		
•	TRANSITION (REFRIGERANT LINE)	3/8" (Ø)-1/4" (Ø)		PCS	1		
1	ROUND TRANSITION(ANGLE)	45 DEGREE		PCS	5		

# **HVAC BOM**

			HVAC_EQUIPMENTS				
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
L	AIR HANDLING UNIT	WALL MOUNTED		PCS	1		
2	CONDENSER	OUTDOOR UNIT		PCS	1		
1	EXHAUST FAN	75 CFM		PCS	1		
ļ.	EXHAUST HOOD	WALL MOUNTED		PCS	1		
<u>,                                    </u>	HOOD-WALL: VENT	HOOD-WALL: VENT		PCS	1		
5	DRAYER: VENT	DRAYER: VENT		PCS	1		
7	ROOF VENT	3"(Ø)		PCS	1		
3							
)							
LO							
L1							
.2							
L3							
14							

	PLUMBING FIXTURES & ACCESSORIES								
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total		
1	Bath Tub (Alcove Tub)			PCS	0				
2	Kitchen Sink			PCS	1				
3	Kitchen faucets			PCS	1				
1	Vanity Sink			PCS	1				
5	Bath room faucets			PCS	1				
5	Water Closet			PCS	1				
7	Shower Trim			PCS	1				
8	Shower Tray			PCS	1				
9	Water Heater			PCS	1				
10	Hose Bib			PCS	1				
l1	Shutoff Valve			PCS	6				
12	Hanging pipe clamp			PCS	12				
13	Gate Valve			PCS	1				
14	Dishwasher Supply Single Connector			PCS	1				
15	Dishwasher Sewage Single Connector			PCS	1				
16	Laundry Sweat Connector			PCS	1				

	SANITARY & PLUMBING PIPES									
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total			
1	ABS (Acrylonitrile Butadiene	ø 1"								
	Stvrene) Pipes			FT	0					
2	ABS (Acrylonitrile Butadiene	ø 1 1/2"								
	Stvrene) Pipes			FT	22					
3	ABS (Acrylonitrile Butadiene	Ø 2"			44					
	Stvrene) Pipes			FT	41					
4	ABS (Acrylonitrile Butadiene	Ø 3"			01					
	Styrene) Pipes	1/01		FT	21					
5	PEX (Cross-linked	ø 1/2"		FT	84					
	polvethylene) Pipes	2/4		FI	84					
6	PEX (Cross-linked	ø 3/4"		FT	20					
7	polvethylene) Pipes	ø 1"		1 1	20					
'	PEX (Cross-linked	Ø I		FT	1					
8	polvethylene) Pipes PVC Pipes Sch.80 - Rigid	ø 1 1/2"			<u>'</u>					
0	r v C ripes 3cii.ou - Rigiu			FT	0					
9	PVC Pipes Sch.80 - Rigid	ø 2"								
				FT	45					
10	PVC Pipes Sch.80 - Rigid	ø 3"		FT	0					
11	Flex Pipe Round	ø 1/2"								
	<u>'</u>			PCS	8					
	1	<u> </u>								

	PIPE FITTINGS 01									
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total			
1	ABS 90 Degree Bend Elbow	1 1/2"ø-1 1/2"ø		PCS	2					
2	ABS 90 Degree Bend Elbow	2"ø-2"ø		PCS	2					
3	ABS 90 Degree Bend Elbow	3"ø-3"ø		PCS	1					
4	ABS P-Trap	1 1/2"ø-1 1/2"ø		PCS	2					
5	ABS P-Trap	2"ø-2"ø		PCS	2					
6	ABS Reducer Elbow	2"ø-1 1/2"ø		PCS	1					
7	ABS Reducer Elbow	3"ø-2"ø		PCS	1					
8	ABS TEE Elbow	1 1/2"ø-1 1/2"ø-1 1/2"ø		PCS	1					
9	ABS TEE Elbow	2"ø-2"ø-2"ø		PCS	1					
10	ABS TEE Elbow	3"ø-3"ø-3"ø		PCS	2					
11	ABS Tee Reducer Elbow	2"ø-2"ø-1 1/2"ø		PCS	1					
12	ABS Tee Reducer Elbow	3"ø-3"ø-1 1/2"ø		PCS	1					
13	ABS Tee Reducer Elbow	3"ø-3"ø-2"ø		PCS	1					
14	ABS Vent Cap Elbow	1 1/2"ø		PCS	1					
15	ABS Vent Cap Elbow	2"ø		PCS	2					

			PIPE FITTINGS 02				
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	ABS Vent Cap Elbow	3"ø		PCS	1		
2	PEX 90 Degree Elbow	1/2"ø-1/2"ø		PCS	26		
3	PEX 90 Degree Elbow	3/4"ø-3/4"ø		PCS	3		
4	PEX Tee Elbow	1/2"ø-1/2"ø-1/2"ø		PCS	9		
5	PEX Tee Elbow	3/4"ø-3/4"ø		PCS	2		
6	PEX Transition Elbow	1"ø-3/4"ø		PCS	1		
7	PEX Transition Elbow	3/4"ø-1/2"ø		PCS	2		
8	PVC 90 Deg Bend Elbow	2"ø-2"ø		PCS	12		
9	WASTE DOUBLE TEE	2"ø-2"ø-2"ø		PCS	1		
14							
15							



			APPLIANCES				
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	Refrigerator			PCS	1		
2	Range			PCS	1		
3	Washer Front Load	Stackable		PCS	1		
4	Dryer Front Load	Stackable		PCS	1		
5	Dish Washer			PCS	1		
6	Oven			PCS	(		
7	Microwave			PCS	(		
8							
9							
10							
11							
12							
13							
14							
15							
16							



			CASEWORKS 01				
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	Kitchen Cabinet			FT	19.23		
2	Laundry Cabinet			FT	0		
3	Vanity Cabinet			FT	3.29		
4	Medicine Cabinet			PCS	1		
5	Kitchen countertop			SF	28		
6	Laundry Countertop			PCS	0		
7	Bathroom Countertop			SF	0		
8	Island			FT	0		
9	Peninsula			FT	0		
10	Closets			SF	32		
11							
12							
13							
14							
15							



	<u>1</u>		CEILING 01				
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
	LIVING ROOM + KITCHEN			SF	368.0		
1	Ceiling Board	Drywall		SF	368		
2	Drywall Fastener	Screw		PCS	644		
3	Vapor Retarder	Polyethylene film		SF	368		
4	Vapor Retarder Fastener	Nails with washer heads		PCS	1104		
	BATH ROOM			SF	62.0		
5	Ceiling Board	MRD (Moisture resistant drywall)		SF	62		
5	MRD Fastener	Screw		PCS	109		
	HALL			SF	21.0		
7	Ceiling Board	Drywall		SF	21		
3	Drywall Fastener	Screw		PCS	37		
)	Vapor Retarder	Polyethylene film		SF	21		
.0	Vapor Retarder Fastener	Nails with washer heads		PCS	63		
	PORCH			SF	131.0		
l1	Ceiling Board	Marine Plywood		SF	131		
12	Exterior Grade Plywood	Screw		PCS	229		



			CEILING 02				
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
	WD			SF	11.0		
13	Ceiling Board	Drywall		SF	11		
14	Drywall Fastener	Screw		PCS	19		
15	Vapor Retarder	Polyethylene film		SF	11		
16	Vapor Retarder Fastener	Nails with washer heads		PCS	33		
	CLOSET			SF	13.0		
17	Ceiling Board	Drywall		SF	13		
18	Drywall Fastener	Screw		PCS	23		
19	Vapor Retarder	Polyethylene film		SF	13		
20	Vapor Retarder Fastener	Nails with washer heads		PCS	39		
	WH			SF	9.0		
21	Ceiling Board	Drywall		SF	9		
22	Drywall Fastener	Screw		PCS	16		
23	Vapor Retarder	Polyethylene film		SF	9		
24	Vapor Retarder Fastener	Nails with washer heads		PCS	27.0		



	FLOORING INTERIOR 01								
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total		
	CL #1								
1	Closet Flooring			SF	11.28				
2	Wood underlay	Foam Pad Polyethylene		SF	11.28				
3	Vapor Retarder	Vapor Barrier Polyethylene		SF	11.28				
	LIVING ROOM AND KITCH	EN							
4	Living Area Flooring			SF	348.6				
5	Wood underlay	Foam Pad Polyethylene		SF	348.6				
6	Vapor Retarder	Vapor Barrier Polyethylene		SF	348.6				
	BATHROOM 1								
7	Tile Finish			SF	42.88				
8	Adhesive	1/2" Thin set Mortar		SF	42.88				
9	Vapor Retarder	Vapor Barrier Polyethylene		SF	42.88				



		FLOORING INTERIOR 02									
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total				
	W/D										
10	Tile Finish			SF	9.51						
11	Adhesive	1/2" Thin set Mortar		SF	9.51						
12	Vapor Retarder	Vapor Barrier Polyethylene		SF	9.51						
	BOILER ROOM										
13	Tile Finish			SF	7.96						
	Adhesive	1/2" Thin set Mortar		SF	7.96						
15	Vapor Retarder	Vapor Barrier Polyethylene		SF	7.96						



			FLOORING EXTERIOR			
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price
	STRUCTURE			SF	603.9	
1	Concrete Slab	4"concrete cast in situ		CF	201.29	
2	Insulation	Rigid insulation		SF	199.12	
3	Hard core	Compacted soil		CF	152.81	
4	Re-bar	#4 re-bar		Ton	0.58	
5	Concrete Pad	4"concrete cast in situ		CF	1.58	
6	Slab edge	Turndown		CF	162.72	
7	Footing	Cast-in-place concrete		CF	4.68	
	PORCH FRONT					
1	Tile Finish			SF	119.5	
2	Adhesive	1/2" Thin set Mortar		SF	119.5	
3	Vapor Retarder	Vapor Barrier Polyethylene		SF	119.5	



			WALLS: EXTERIOR				
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	External Stone			SF	210		
2	Exterior-Grade Plywood Vertical Siding			SF	707		
3	Exterior-Grade Plywood Fastener 8/panel	Self-drilling screws(100/pkt)		PKT	7.07		
4	Wall Shteathing (OSB)			SF	917		
5	Shteathing Fastener	Self-drilling screws(100/pkt)		PKT	9.17		
6	Wall Homewrap			SF	917.00		
7	Homewrap Fastener	Stapled fastener (200/pkt)		PKT	3.48		
8	Furring Strip			PCS	88.375		
9	Furring Strip Fastener	Self-drilling screws(100/pkt)		PKT	7.07		
10	Wall Paint			SF	917		
11	Stone Copping	Masonry stone		SF	0		
12	Stone Veneer	Masonry stone		SF	0		
13	Mortar for Stone Veneer			SF	0		
14	Wall Insulation			SF	2205		
15							



	WALLS: INTERIOR 01							
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total	
	BATHROOM			SF	53.0			
1	Cementitious Backer Board			SF	332			
2	Kerdi membrane			SF	332			
3	Kerdi membrane Fastener			SF	332			
4	Wall Ceramic Tile			SF	332			
	CL			SF	11.0			
5	Drywall Board			SF	147			
6	Drywall Fastener	Self-drilling screws(100/pkt)		PKT	1.47			
7	Wall Paint			SF	147			
8	Drywall Tape			FT	27.6			
	HALL			SF	23.0			
9	Drywall Board			SF	74			
10	Drywall Fastener	Self-drilling screws(100/pkt)		PKT	0.74			
11	Wall Paint			SF	74			
12	Drywall Tape			FT	13.9			



			WALLS: INTERIOR 02				
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
	STUDIO			SF	216.0		
13	Drywall Board			SF	357		
14	Drywall Fastener	Self-drilling screws(100/pkt)		PKT	3.57		
15	Wall Paint			SF	357		
16	Drywall Tape			FT	67.0		
	KITCHEN			SF	110.0		
17	Cementitious Backer Board			SF	28		
18	Drywall Board			SF	331		
19	Drywall Fastener	Self-drilling screws(100/pkt)		PKT	3.31		
20	Kerdi membrane			SF	28		
21	Kerdi membrane Fastener			SF	28		
22	Wall Ceramic Tile			SF	28		
23	Wall Paint			SF	331		
24	Drywall Tape			FT	62.5		



			WALLS: INTERIOR 03				
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
	WD			SF	9.0		
25	Cementitious Backer Board			SF	90		
26	Kerdi membrane			SF	90		
27	Kerdi membrane Fastener			SF	90		
28	Wall Ceramic Tile			SF	90		
	WH	·		SF	7.0		
29	Drywall Board			SF	85		
30	Drywall Fastener	Self-drilling screws(100/pkt)		PKT	0.85		
31	Wall Paint			SF	85		
32	Drywall Tape			FT	16		
1	Wall Sweep			FT	88		



			DOORS				
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	Interior Swinging	3' - 0" X 6'-8"		PCS	1		
2	Interior Swinging	2' - 0" X 6'-8"		PCS	1		
3	Bifold	2' - 6" X 6'-8"		PCS	1		
4	Interior Sliding	4' - 8" X 6'-8"		PCS	1		
5	Exterior Swinging	5' - 0" X 6'-8"		PCS	1		
6	Exterior Door Trim			FT	19		
7	Interior Door Trim			FT	150		
8	Entry Lock set			PCS	1		
9	Privacy Lock set			PCS	1		
10	Passage Lock set			PCS	3		
11							
12							
13							
14							
15							



			WINDOWS				
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	Single Hung	2' - 3" X 4'-3"		PCS	2		
2	Casement	2' - 0" X 2'-4"		PCS	3		
3	Awning	3' - 1" X 2'-1"		PCS	1		
4	Single Hung	2' - 7" X 3'-3"		PCS	1		
5	Sliding	6' - 3" X 3'-9"		PCS	1		
6	Exterior Window Trim			FT	94		
7	Interior Window Trim			FT	94		
8							
9							
10							
11							
12							
13							
14							
15							



			ROOF 01				
#	Item	Туре	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	Roof Covering			SF	794.0		
2	Roof Covering Fastener			PCS	397		
3	Roof Felt Paper			SF	794.0		
4	Roof Felt Paper Fastener			PCS	2382.0		
5	Roof Sheathing			SF	794.0		
6	Roof Sheathing Fastener			PCS	6352		
7	Batten			FT	0.0		
8	Batten Fastener			PCS	0.0		
9	Soffit			SF	110.0		
10	Soffit Fastener			PCS	55.0		
11	Fascia			FT	114.0		
12	Fascia board fastener			PCS	57		
13	Roof Insulation			SF	794.0		
14				0.	771.0		
15							