



EMBER

The Ember is a charming Craftsman-style studio home. The walls are finished with horizontal siding in a cool gray tone. The gable end features wood shingles, adding a touch of natural texture. A simple gable roof with a decorative trim detail at the peak provides shelter and a welcoming covered porch extends from the main entrance, supported by substantial pillars with stone accents.

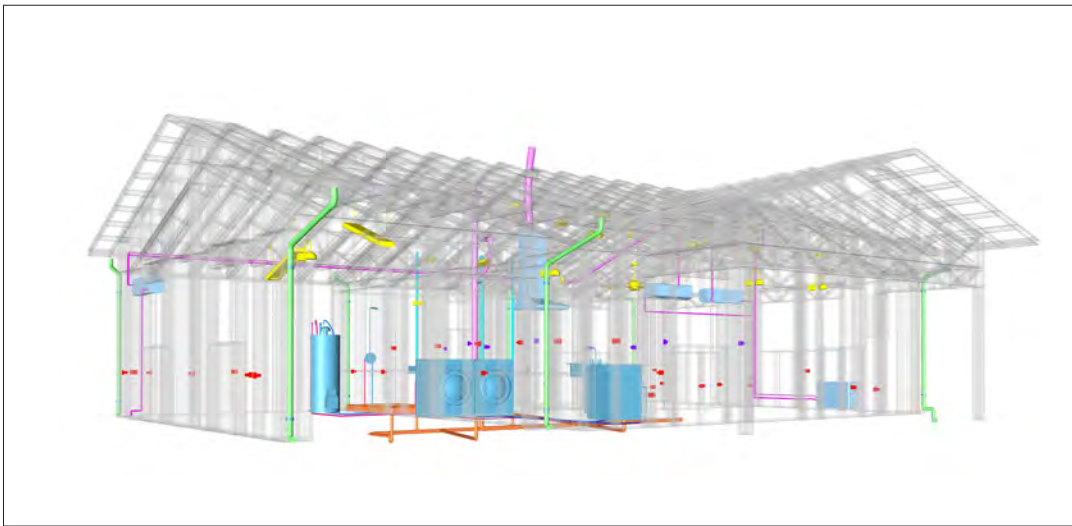
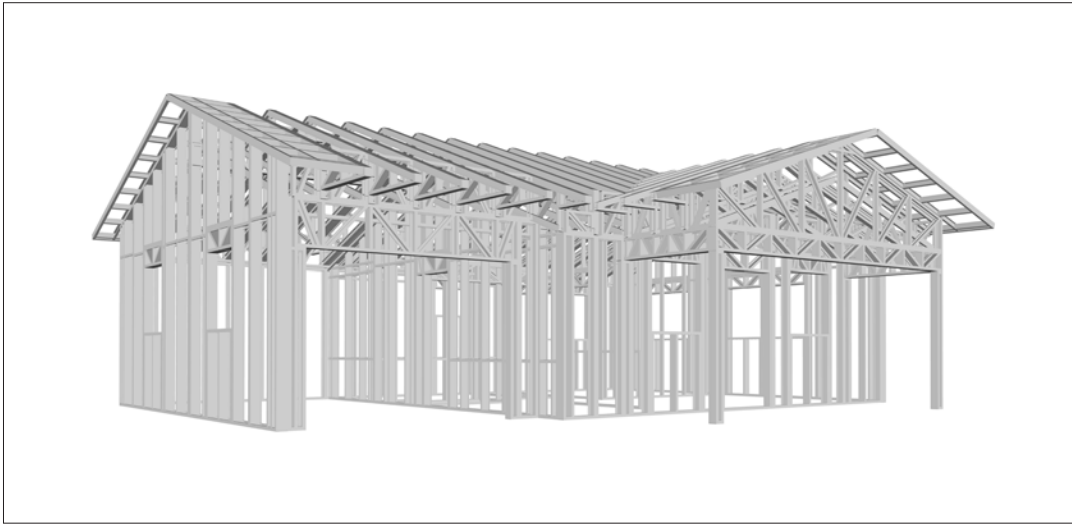
Inside, the Ember features a simple rectangular layout. The living and kitchen areas are merged into one large room at the center of the house. The bedroom and functional spaces, such as the bathroom and laundry, are conveniently located on one side of the plan, while the one-car garage is situated on the other side.

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

- 624 SF
- 1 Bed Room
- Covered Porch

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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 to 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

**237-Ember-
624-1Bd1Ba-
Craftsman-550**

DRAWING NAME

INTRODUCTION

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

DISCLAIMER

DISCLAIMER: This documentation and all its contents are the intellectual property of FrameUpNow. It is provided solely for marketing the services of FrameUpNow. The preliminary information is not approved for actual construction use and is not warranted to be complete or accurate. Unauthorized copying, distribution, or application of these proprietary materials, in any form or format, is strictly prohibited. FrameUpNow assumes no liability for any issues arising from improper use of this marketing content.

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.

MECHANICAL

The mechanical package includes everything needed to guide HVAC installation:

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.

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 construction.

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 doors.

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.

PLUMBING

The plumbing package includes everything needed to guide the installation of your home's water supply and drainage systems:

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

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

Detailed Riser Diagrams: Provide information needed to properly install all vertical plumbing risers and vent stacks.

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

HOW TO BUILD

1 Buildable Plot

2 Sewage Installation

3 Foundation

4 Concrete Floor

Site Preparation

1

2

3

4

Layout and Marking

1 Staged Wall Panels

2 Staged Truss Panels

3 Concrete Floor

4 Layout Markers

Roof Truss Installation

5

6

7

8

Wall & Roof Insulation

1 Installed Walls

2 Installed Trusses

1 Installed Walls

2 Installed Trusses

3 OSB Sheathing

1 OSB Sheathing

2 Plumbing System

3 HVAC System

4 Electrical System

1 Home Wrap

2 Roof Felt Paper

1 Corrugated iron sheet

2 Home Wrap

3 Roof Felt Paper

4 Coronado Stone

5 Corrugated iron sheet

1 Doors and windows

2 Rain Gutters

KEY PLAN

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

237-Ember-624-1Bd1Ba-Craftsman-550

DRAWING NAME

INTRODUCTION

CLIENT NAME:

PROJECT NUMBER:

DATE:

DESIGNED BY:

DRAWN BY:

CHECKED BY:

BOM (Bill Of Materials) (Separately Attached)

EMBER 1BD1BA CRAFTSMAN

THE EMBER 1BED 1BATH MATERIAL SHOPPING LIST

BOM

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 system.

ELECTRICAL BOM

#	Item	Type	Description,Manufacturer,SKU	Unit	Quantity	Unit Price	Total
1	60 watt Ceiling Light	Flat Round-LED		PCS	10		
2	15 watt Down light	Round-LED		PCS	4		
3	200 watt Ceiling Light with Fan	pendant		PCS	3		
4	100 watt Floor Lamp	Standup		PCS	1		
5	20 watt Pendant Light	Linear 2 Lamp		PCS	1		
6	64 watt Recessed Light	square		PCS	2		
7	Standalone Linear light	Recessed		PCS	1		

#	Item	Type	Description,Manufacturer,SKU	Unit	quantity	Price
1	Top_Cabinet_Double_Door	3'0" X 2'1" X 1'9-3/8"		PCS	1	
2	Top_Cabinet_Double_Door	3'0" X 1'0" X 2'6"		PCS	3	
3	L_Shape_Toe_Kick_For_Cal	3-1/2" High X 3/4" Thick		PCS	1	

Item

Type

Description,Manufacturer,-SKU

Unit

A list of items listed to be further illustrated and specified in the type column .

For the list of materials listed in th item column there will a more detail description about the type of the Material.

Space provided to be filled by informations like Description,Manufacturer and SKU.

Materials are listed in a unit that is most convenient.

ARCHITECTURAL BOM

#	Item	Type	Description,Manufacturer,SKU	Unit	Quantity	Unit Price
1	Tile Finish	3/4" non-slippery Porcelain Tile	Emph.	SF	458	

HVAC BOM

#	Item	Type	Description,Manufacturer,SKU	Unit	Quantity	Unit Price
1	Rectangular Duct	6"x10"		Ft	0.1	
2	Rectangular Duct	8"x10"		Ft	12.5	
3	Rectangular Duct	10"x10"		PCS	3	

ELECTRICAL BOM

#	Item	Type	Description,Manufacturer,SKU	Unit	Quantity	Unit Price
1	60 watt Ceiling Light	Flat Round-LED		PCS	10	
2	15 watt Down light	Round-LED		PCS	4	
3	200 watt Ceiling Light with Fan	pendant		PCS	3	

PLUMBING BOM

#	Item	Type	Description,Manufacturer,SKU	Unit	Quantity	Unit Price
1	ABS (Acrylonitrile Butadiene Styrene) Pipes	ø 1 1/2"		ft	33.5	
2	ABS (Acrylonitrile Butadiene Styrene) Pipes	ø 2"		ft	52	
3	ABS (Acrylonitrile Butadiene Styrene) Pipes	ø 3"		ft	34	
4	PEX (Cross-linked	ø 1/2"				

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OWNER

NAME	
EMAIL	
PHONE	

CONTRACTOR

NAME	
EMAIL	
PHONE	

SITE LOCATION

COUNTRY	
STATE	
ZIP CODE	

SITE INFORMATION

PARCEL I.D.	
SQ.FOOTAGE	

MINIMUM SETBACKS

FRONT	
SIDE	
REAR	

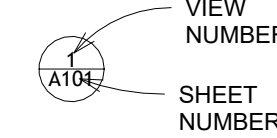
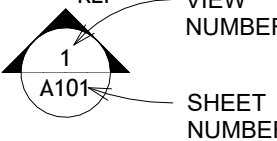
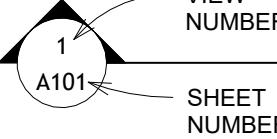
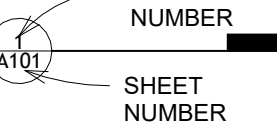
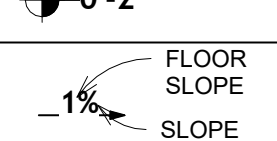
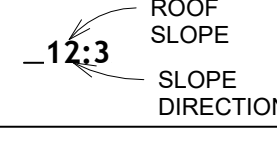
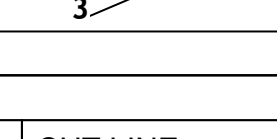
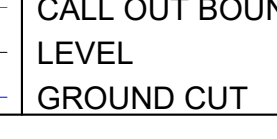
ZONING

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CODES AND AMENDMENTS

CODE BOOK	
SNOW LOAD	
WIND SPEED	
SEISMIC DESIGN CATEGORY	
WEATHERING	
FROST LINE DEPTH	
TERMITE	
DECAY	
WINTER DESIGN TEMP	
FLOOD HAZARDS	

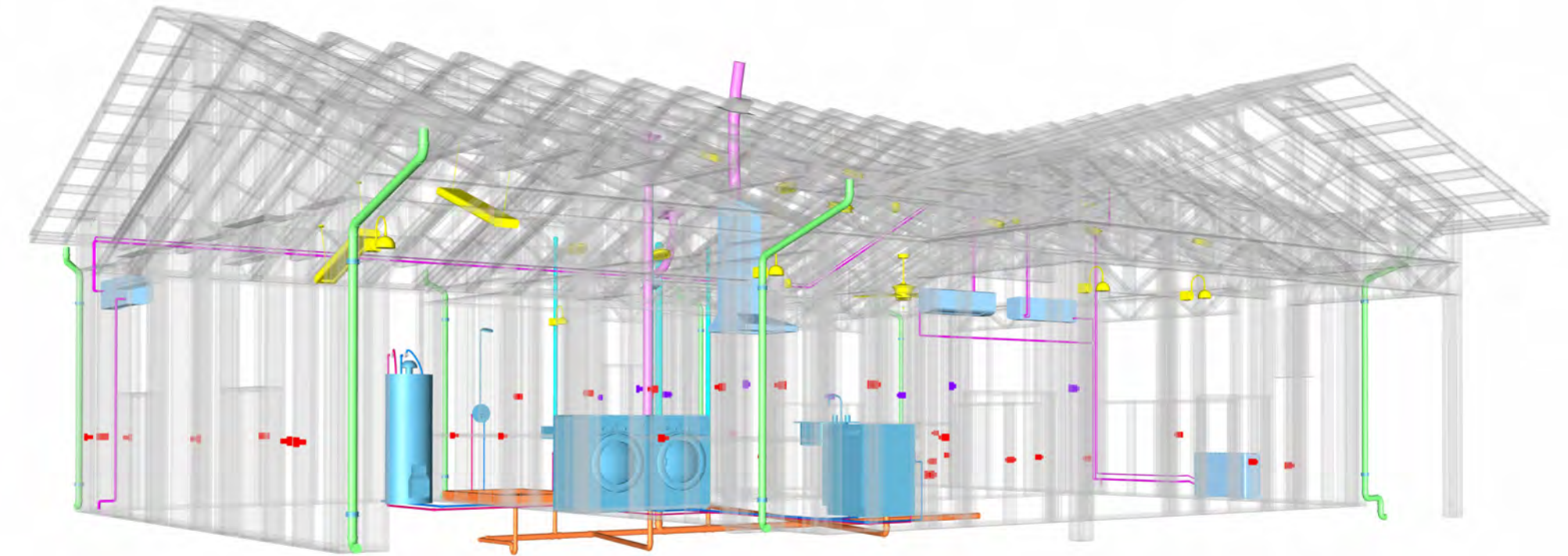
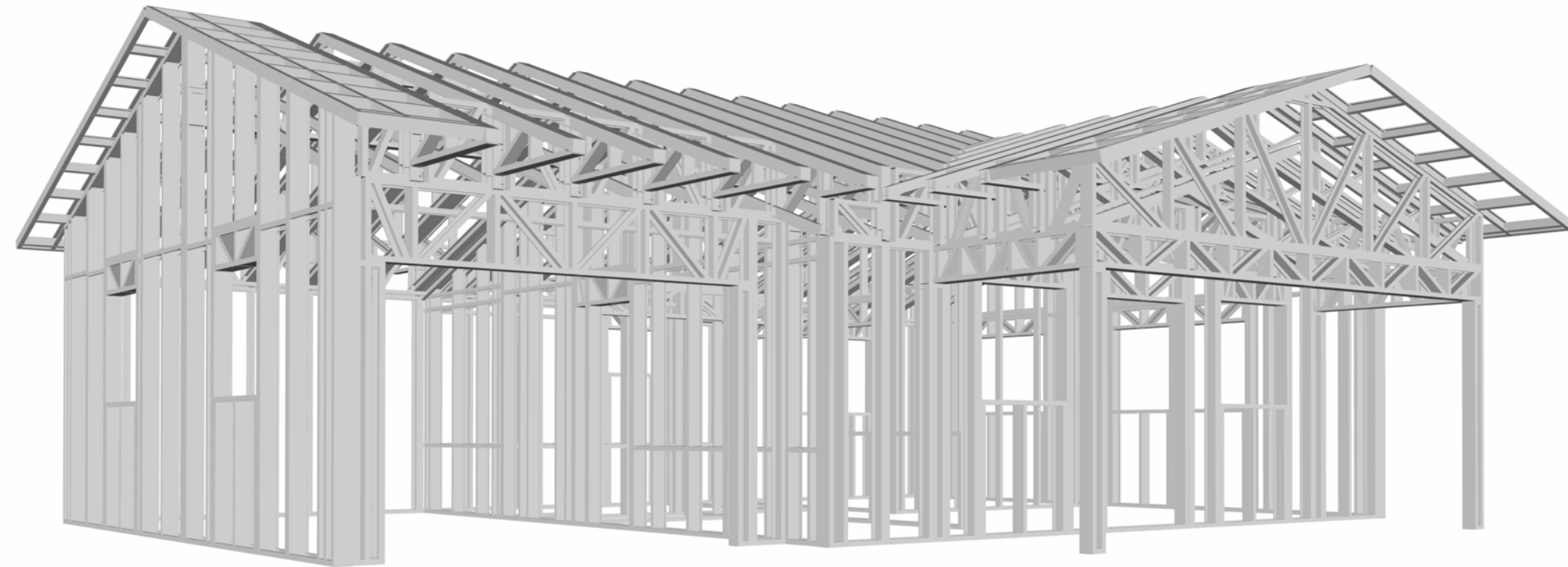
LINE LEGEND			
HIDDEN LINE	----	CUT LINE	----
ROOM SEPARATOR	----	CALL OUT BOUNDRY	----
DOOR OPENING DIRECTION	----	LEVEL	----
OVER HEAD	----	GROUND CUT	----

SYMBOLS	SYMBOLS NAME
	CALLOUT HEAD
	INTERIOR ELEVATION
	BUILDING ELEVATION
	SECTION
	DETAIL VIEW
	ELEVATION LEVEL
	SPOT ELEVATION
	FLOOR SLOPE
	ROOF SLOPE
	ROOF SLOPE ELEVATION

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A101	FLOOR PLAN
A102	DIMENSION PLAN
S101	FOUNDATION PLAN
S102	STRUCTURAL FLOOR PLAN
S103	FRAME LAYOUT
S104	ROOF TRUSS LAYOUT
A103	ROOF PLAN
A201	ELEVATIONS
A202	ELEVATIONS
A301	SECTIONS
A401	DETAILS
A402	CASEWORK DETAILS
A403	CASEWORK DETAILS
E101	SCHEDULE
E102	LIGHTING PLAN
E103	POWER PLAN
E104	DIMENSION PLAN FOR LIGHT FIXTURE
E105	DIMENSION PLAN FOR FITTING
P101	COVER SHEET
P102	WATER SUPPLY SYSTEM
P103	SEWAGE SYSTEM
P104	RISER DIAGRAM
M101	HVAC PLAN
M102	HVAC SECTION
M103	RISER DIAGRAM

TAG	TAG'S NAME
CA01	CASEWORK TAG
1	DOOR TAG
1	FURNITURE TAG
1	WINDOW TAG
SE01	SPECIALTY EQUIPMENT TAG
ME01	MECHANICAL EQUIPMENT TAG
PE01	PLUMBING EQUIPMENT TAG

ABBREVIATION	
AFS	ACTION FLOOR SYSTEMS
ASTM D698	AMERICAN SOCIETY FOR TESTING AND MATERIAL
CA	CASEWORK
EL	ELECTRICAL
F.F.E	FINISHED FLOOR ELEVATION
F.F.L	FINISHED FLOOR LEVEL
FTG	FOOTINGS
HVAC	HEATING, VENTILATION & AIR CONDITIONING
IRC	INTERNATIONAL RESIDENCE CODE
IMC	INTERNATIONAL MECHANICAL CODE
MAX.	MAXIMUM
ME	MECHANICAL
MIN.	MINIMUM
NO.	NUMBER
O.C	ON CENTER
OSB	ORIENTED STRAND BOARD
PL	PLUMBING
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
REF	REFERENCE
RG	RIGHT GARAGE
SE	SPECIAL EQUIPMENT
SF	SQUARE FEET
SIMP. STDH8	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 CONDENSING UNIT
AHU	AIR HANDLING 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
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

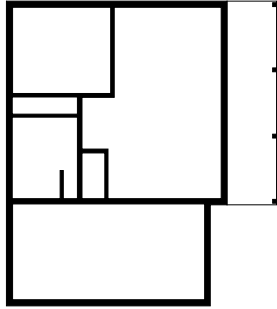


237-EMBER-624-1Bd1Ba CRAFTSMAN-550

SQUARE FOOTAGE	
LIVING	624
GARAGE	286
PORCH	103
TOTAL	1013



KEY PLAN



NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

237-EMBER-624-1Bd1Ba CRAFTSMAN-550

DRAWING NAME

COVER SHEET

CLIENT NAME:	Client Name
PROJECT NUMBER:	0033_15
DATE:	5/14/2025 11:25:52 AM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

G101

SCALE: As indicated



KEY PLAN

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

237-EMBER-624-1Bd1Ba
CRAFTSMAN-550

DRAWING NAME

FLOOR PLAN

CLIENT NAME: Client Name
PROJECT NUMBER: 0033_15
DATE: 5/14/2025 11:25:54 AM
DESIGNED BY: Designer
DRAWN BY: Author
CHECKED BY: Checker

A101

SCALE: As indicated

GENERAL NOTES

- 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.
- 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:

- 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.
- 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 HEAT.

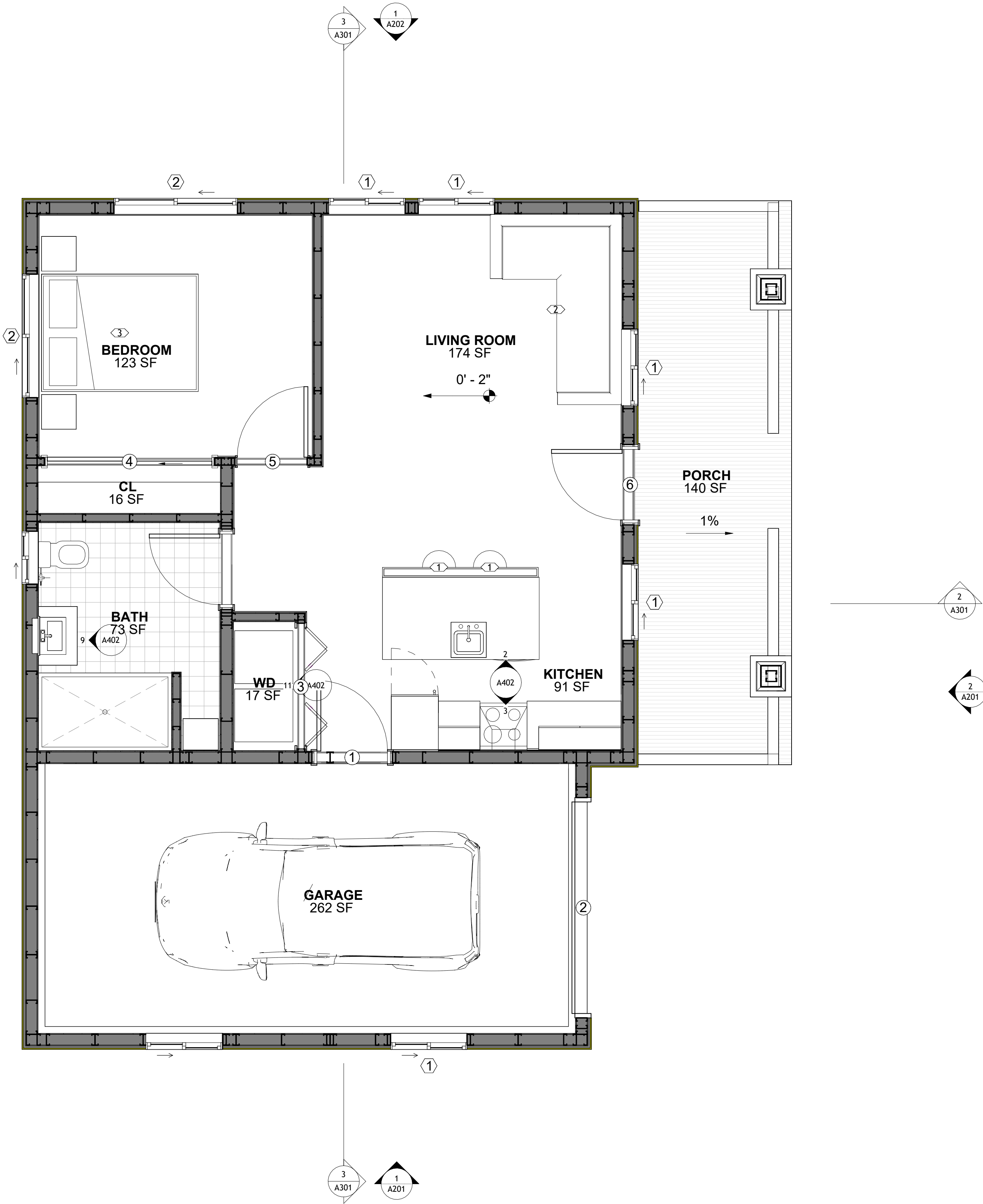
REFER TO SHEETS **A201** & **A202** FOR GENERAL NOTES ON EXTERNAL FINISHING MATERIALS

ABOUT FLOORS:

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

FURNITURE SCHEDULE		
TYPE MARK	TYPE	COUNT
1	STOOL-BAR_SMARTBIM	2
2	FIVE SIT 68" X 126" 2	1
3	KING SIZE BED	1

ROOM FINISH SCHEDULE							
ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	CEILING HEIGHT	COMMENTS
1	BEDROOM	HARDWOOD	CONCRETE	WALL PAINT	DRY WALL	8' - 0"	
2	KITCHEN	HARDWOOD	CONCRETE	WALL PAINT	DRY WALL	8' - 0"	
3	LIVING ROOM	HARDWOOD	CONCRETE	WALL PAINT	DRY WALL	8' - 0"	
4	GARAGE	EPOXY	CONCRETE	WALL PAINT	DRY WALL	8' - 0"	
5	PORCH	HARDWOOD	CONCRETE	EXTERIOR-GRADE PLYWOOD	PLYWOOD	8' - 0"	
6	BATH	VINYL TILES	CONCRETE	WALL PAINT + CERAMIC	MRD	8' - 0"	
7	WD	HARDWOOD	CONCRETE	WALL PAINT	DRY WALL	8' - 0"	
9	CL	HARDWOOD	CONCRETE	WALL PAINT	DRY WALL	8' - 0"	
10	HALL	HARDWOOD	CONCRETE	WALL PAINT	DRY WALL	8' - 0"	



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

SQUARE FOOTAGE	
LIVING	624
GARAGE	286
PORCH	103
TOTAL	1013

KEY PLAN

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

237-EMBER-624-1Bd1Ba
CRAFTSMAN-550

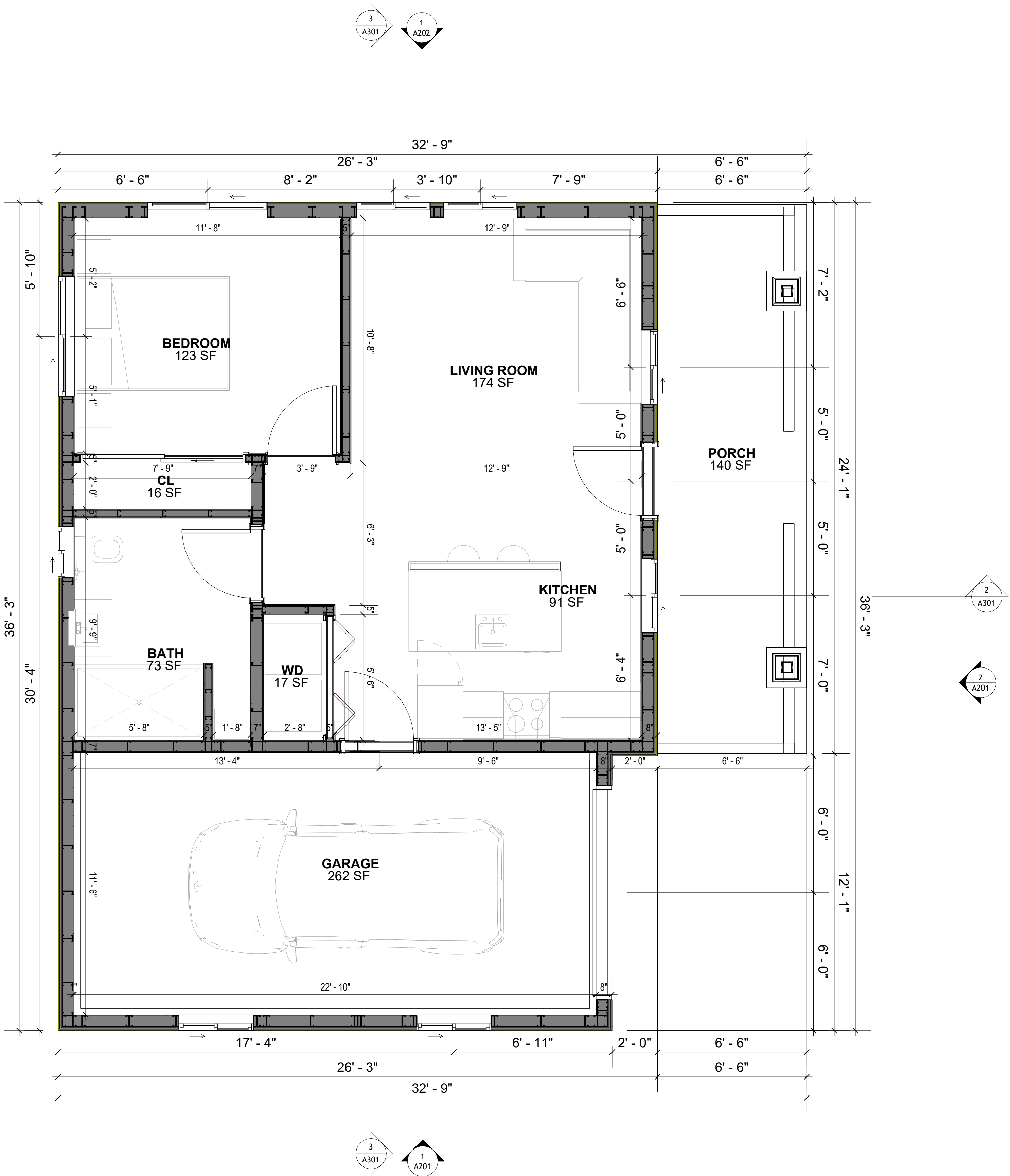
DRAWING NAME

DIMENSION PLAN

CLIENT NAME: Client Name
PROJECT NUMBER: 0033_15
DATE: 5/14/2025 11:25:55 AM
DESIGNED BY: Designer
DRAWN BY: Author
CHECKED BY: Checker

A103

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



1 1ST FLOOR 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	
LIVING	624
GARAGE	286
PORCH	103
TOTAL	1013

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 2021
- 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.

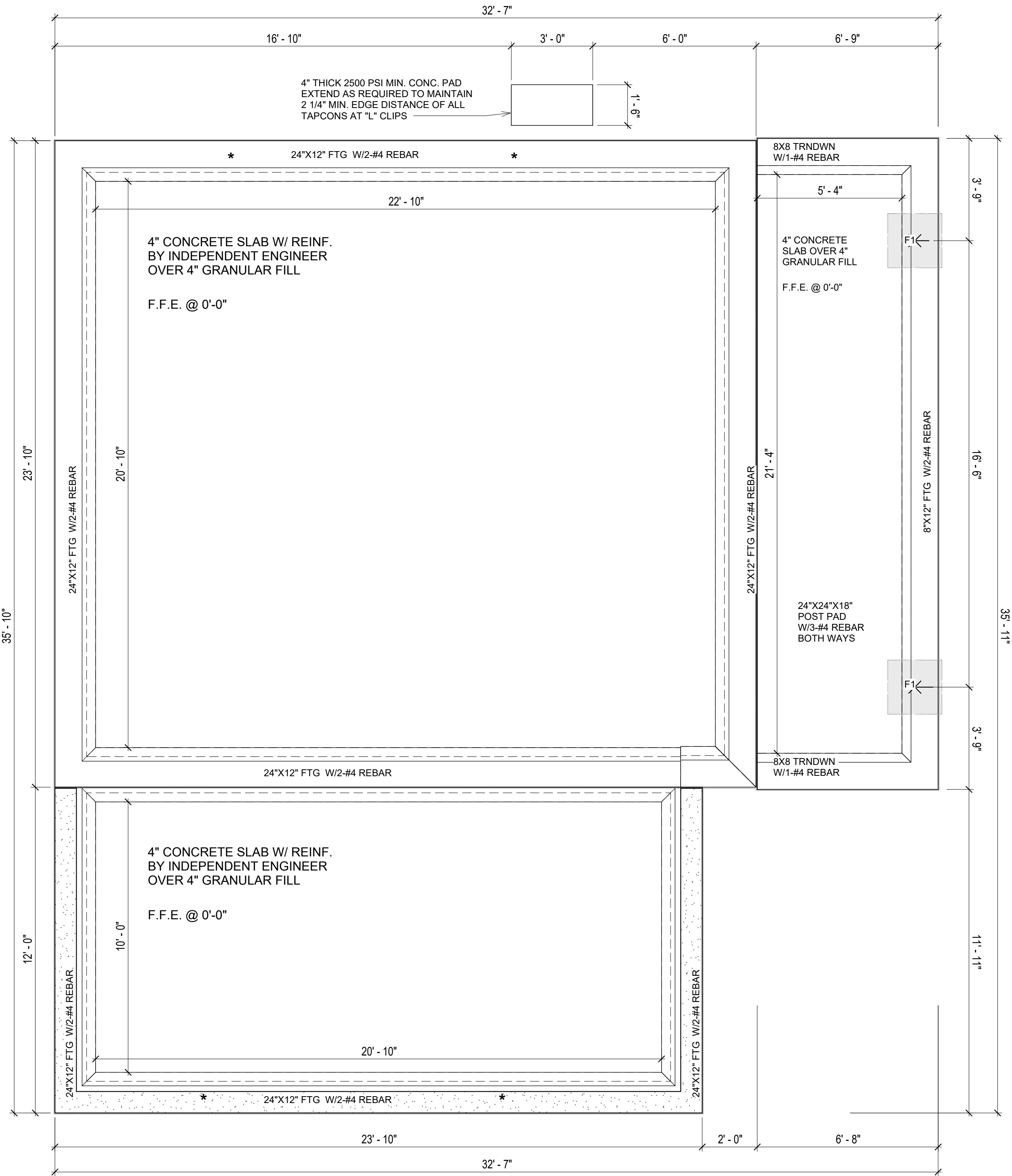
3. **CONCRETE CONSTRUCTION:**
- THE SLAB SHALL BE UNDERLAIN BY A VAPOR BARRIER/RETARDER IN THE LIVING AREA (TYPICALLY POLYETHYLENE, UNLESS MORE STRINGENT PROTECTION REQUIRED BY THE ARCHITECT, ENGINEER, FLOOR COVERING MANUFACTURER, OR ACCEPTED PRACTICE). UNLESS OTHERWISE REQUIRED, BARRIER MAY BE OMITTED 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.
4. ALL REINFORCEMENT BARS SIZE 10MM OR LARGER IN ACCORDANCE TO ASTM
3. 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.
4. ANCHOR BOLTS SHALL BE INSTALLED WITHIN 12 INCHES OF EACH END OF EACH SILL 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 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:

- ALL HOLDDOWNS , STRAP, AND POST LOCATIONS.
- CONCRETE FINISHES. PANEL RISER LOCATION - WHERE APPLICABLE.
- UNDERSLAB MECHANICAL REQUIREMENTS.
- STEM WALL BLOCKOUTS.
- UNDERSLAB ELECTRICAL REQUIREMENTS AND PANEL RISER LOCATION. WHERE APPLICABLE.
- PROVIDE THE FOLLOWING:
 - PVC SLEEVES THROUGH FTG IF REQUIRED
 - 20' #4 COPPER GROUND BAR.
- SLOPE FINISH GRADE AWAY FROM FOOTING.

NOTE: FIELD VERIFY ALL DIMENSIONS SEE DIMENSIONED ARCHITECTURAL DRAWINGS



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

SQUARE FOOTAGE	
LIVING	624
GARAGE	286
PORCH	103
TOTAL	1013

KEY PLAN

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

237-EMBER-624-1Bd1Ba
CRAFTSMAN-550

DRAWING NAME

FOUNDATION PLAN

CLIENT NAME:	Client Name
PROJECT NUMBER:	0033_15
DATE:	5/14/2025 11:25:56 AM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

S101

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

GENERAL NOTES

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

A) FOUNDATION PLAN NOTES:

- 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.
- INSTALL HOLDDOWNS BEFORE CONCRETE SLAB POUR.
- EXISTING FILL ON-SITE SHALL BE COMPACTED IN ACCORDANCE WITH THE REQUIREMENTS IN THE GEOTECHNICAL REPORT.
- ALL FLOOR SLABS ARE REINFORCED ON CONCRETE SLABS.

SPECIAL INSPECTION IS REQUIRED FOR THICKENED FOUNDATION CONSTRUCTION

- REINFORCEMENT
- 2300 PSI CONCRETE POUR

B) REINFORCEMENT FOR CONCRETE:

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

- SPLICES SHALL BE SECURELY WIRED TOGETHER AND SHALL LAP OR EXTEND
- GRADE OF STEEL FOR RCC WORKS SHALL BE GRADE 4 10.
- BAR NOTATIONS GIVES INFORMATION
A) BAR SIZE
B) SPACING(IIF REQUIRED)
- LAP REINFORCEMENT ONLY AT LOCATION SHOWN IN THE DRAWINGS
- REINFORCEMENT SHALL NOT BE CUT, VENT OR HEATED ON SITE WITHOUT ENGINEERS' APPROVAL.
- CONCRETE SLAB NOTES

- ALL SLAB REINFORCEMENT SHALL BE 20MM CLEAR MINIMUM FROM BOTTOM AND FROM TOP OF SLAB.
- 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.

#4-REBAR ON A 2'-0" X 2'-0" GRID
SLAB ON GRADE FOUNDATION

FURRING STRIP
ORIENTED
STRAND BOARD
(OSB) (1/2")
EXTERIOR-GRADE
PLYWOOD
CONCRETE SLAB
TOPPING

SPRAY
INSULATION
CONCRETE
CAST-IN-PLACE
THIN MORTAR
VINYL TILE
HARD SITE

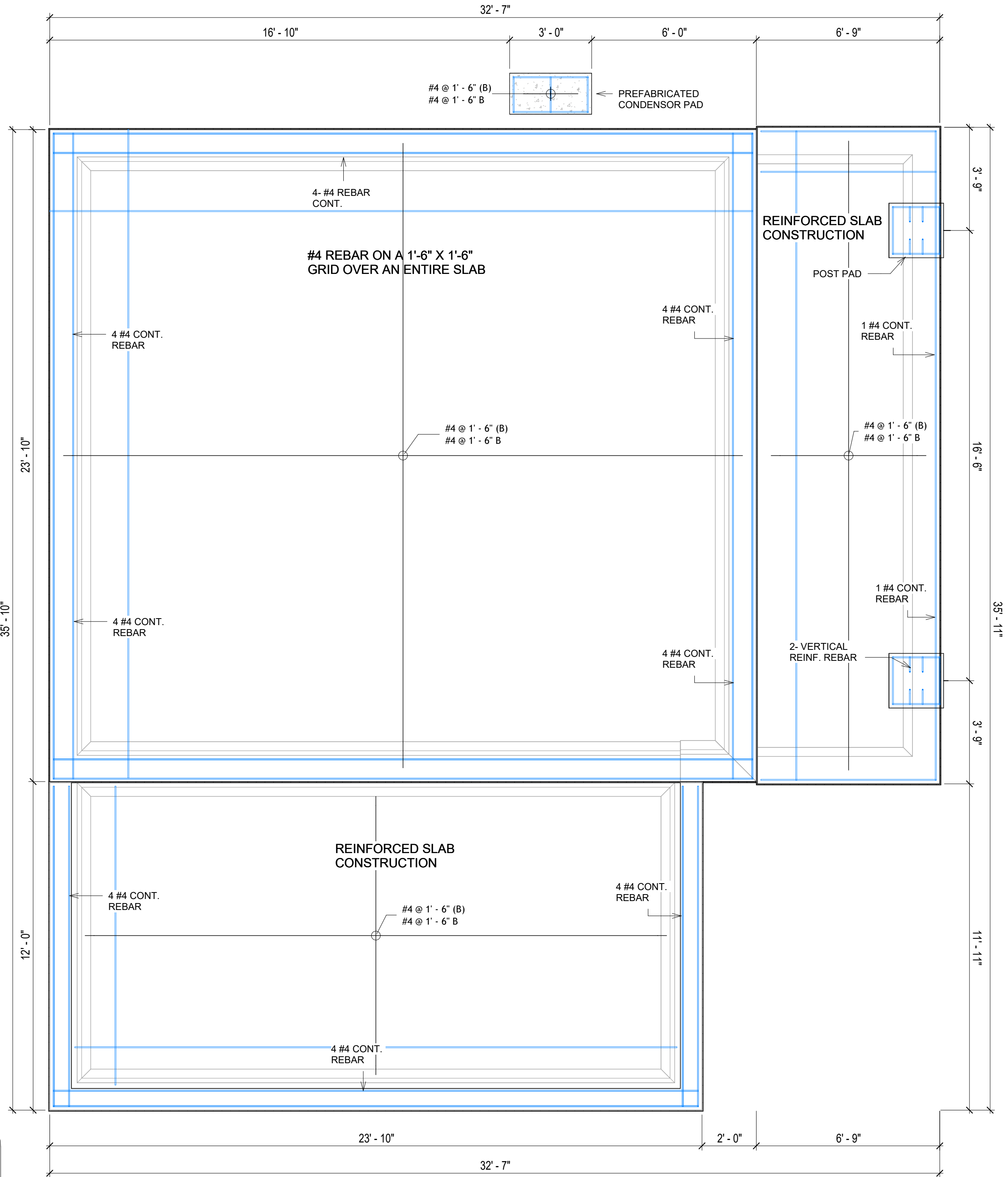
1'-0"
1'-0"

2 TYPICAL WALL FTG DETAIL
3/4" = 1'-0"

#4
CONT.REBAR

EXTERNAL STONE
DAMP PROOFING
RIGID FOAM
INSULATION
BOARD
24"X24"X12" POST
PAD
F02

3 TURNDOWN/POST PAD
1" = 1'-0"



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

KEY PLAN

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

237-EMBER-624-1Bd1Ba
CRAFTSMAN-550

DRAWING NAME

STRUCTURAL FLOOR PLAN

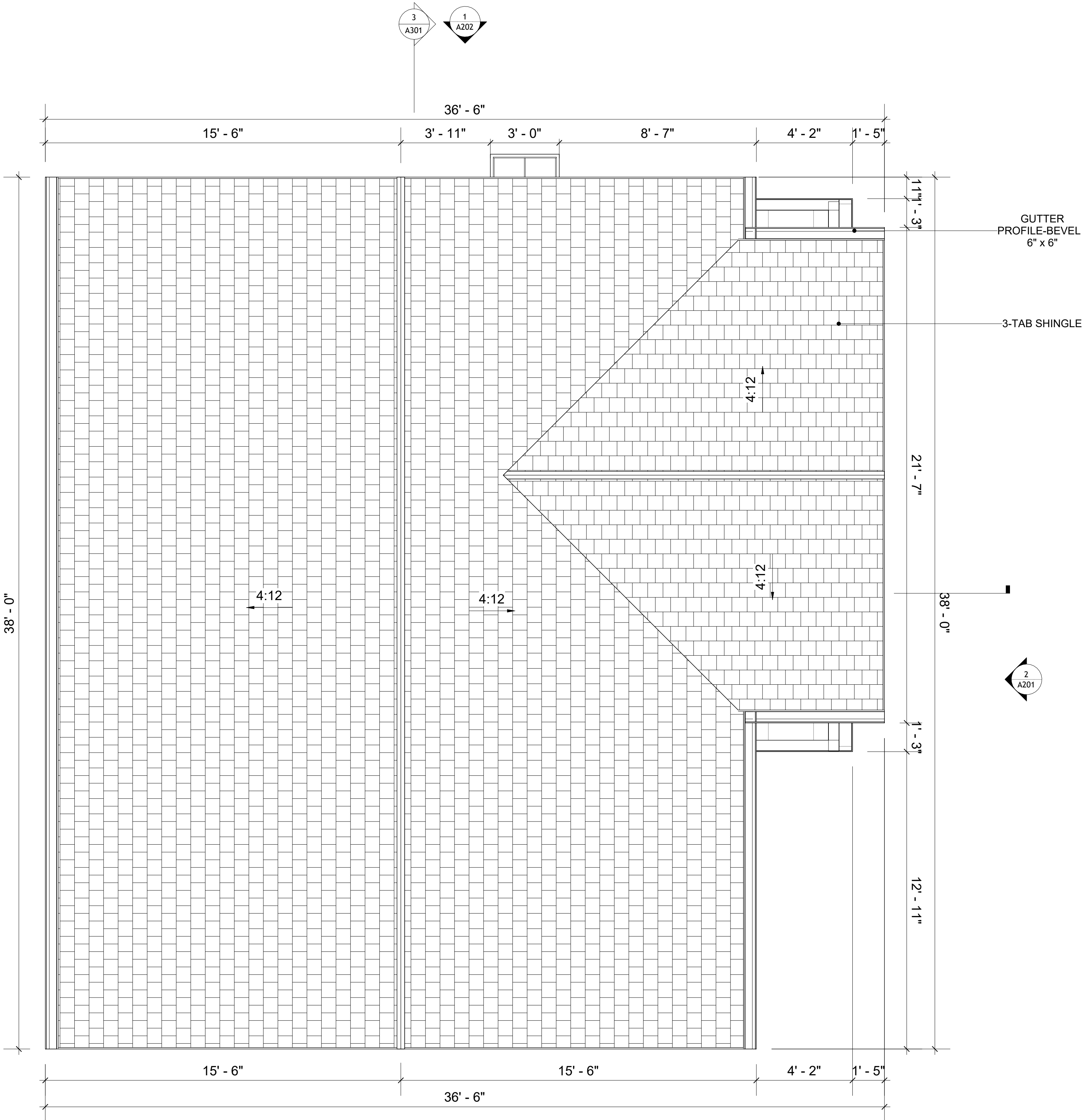
CLIENT NAME:	Client Name
PROJECT NUMBER:	0033_15
DATE:	5/14/2025 11:25:57 AM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

S102

SCALE: As indicated

ROOF NOTES

1. 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.
7. 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.



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

SQUARE FOOTAGE	
LIVING	624
GARAGE	286
PORCH	103
TOTAL	1013



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KEY PLAN

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

237-EMBER-624-1Bd1Ba
CRAFTSMAN-550

DRAWING NAME

ROOF PLAN

CLIENT NAME:	Client Name
PROJECT NUMBER:	0033_15
DATE:	5/14/2025 11:26:01 AM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

A105

SCALE: As indicated

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.

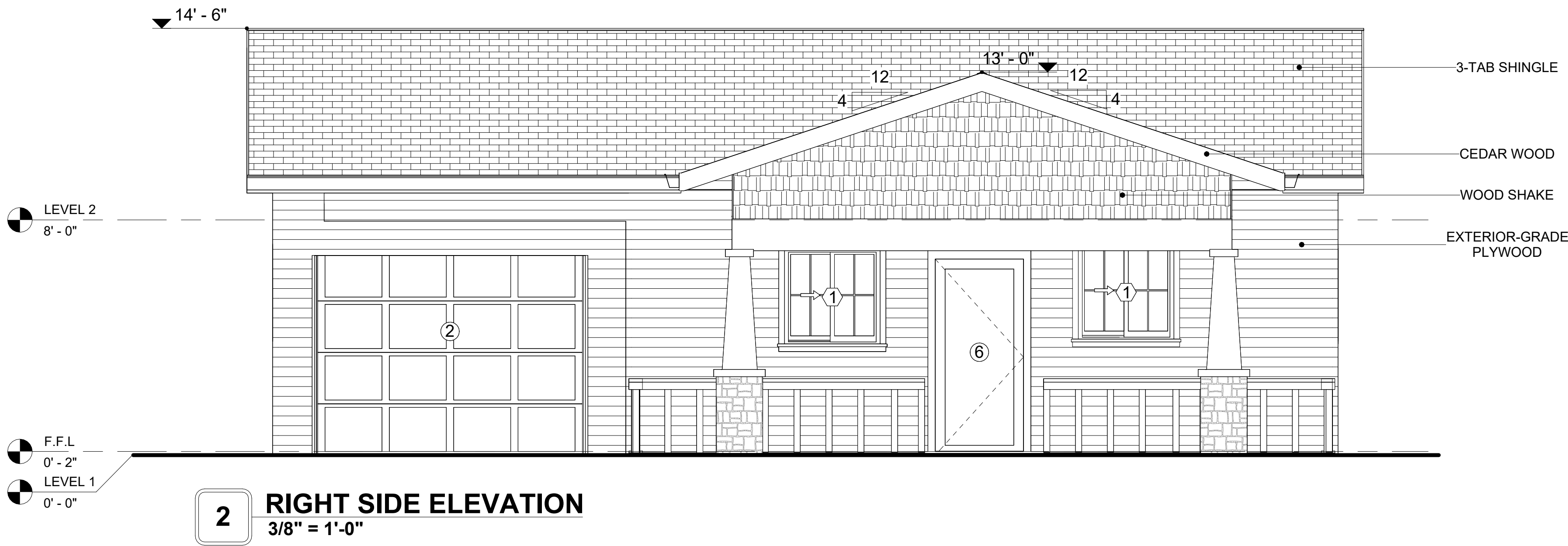
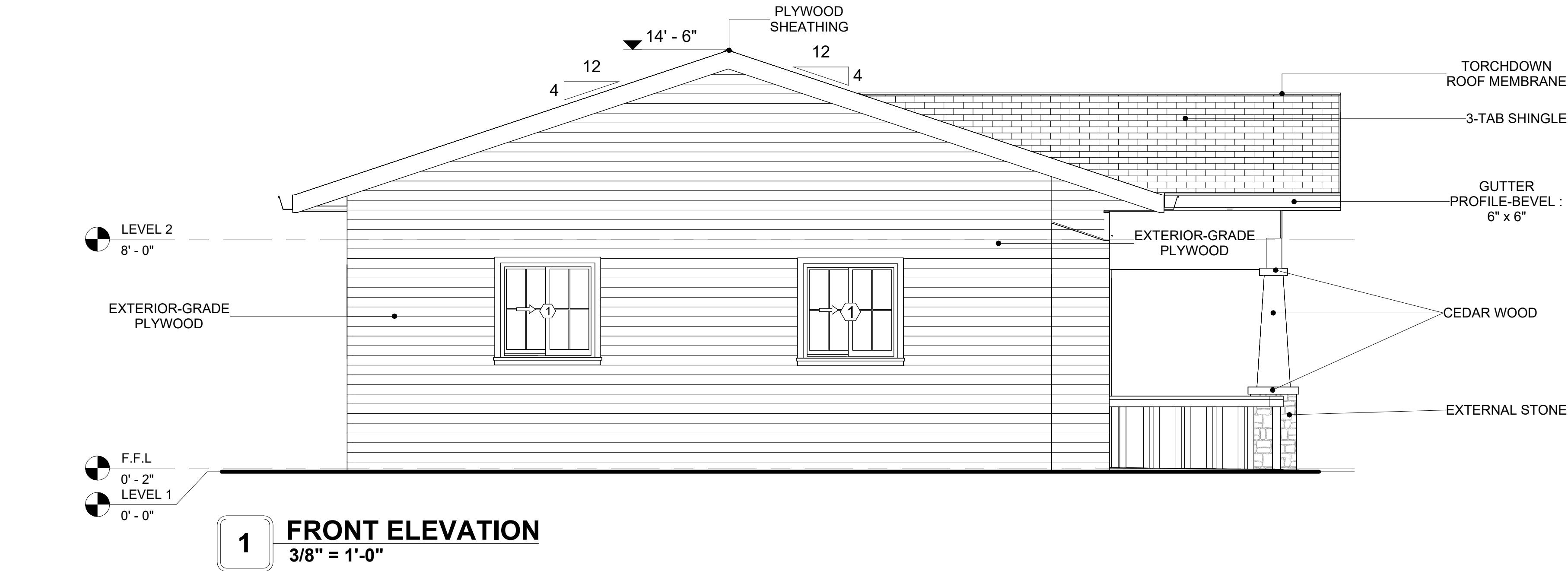
THE STONE FINISH IS DIRECTLY ATTACHED TO COLD-FORMED STEEL (CS) FRAMING. (FOR COLUMN FINISH) EXTERNAL STONE CAN BE AN EXCELLENT EXTERIOR CLADDING OPTION FOR CS-FRAMED BUILDINGS. IN THIS SCENARIO, THE EXTERNAL STONE WOULD BE ADHERED TO THE CS FRAME USING A SCRATCH COAT AND MORTAR-BASED ADHESIVE.

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 AS A FURRING STRIP AND A FINISH MATERIAL ON BEAMS AND COLUMNS.

CEDAR WOOD AS A FURRING STRIPS PROVIDE THERMAL INSULATION AND MOISTURE MANAGEMENT. THE VERTICAL CEDAR WOOD FURRING STRIPS ARE ATTACHED TO HOME WRAP USING CORROSION-RESISTANT FASTENERS (HOT-DIP GALVANIZED SCREWS), ENSURING PROPER PENETRATION INTO THE WALL FRAMING.



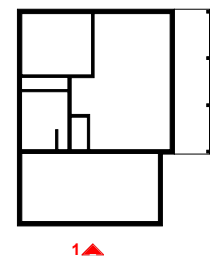
DOOR SCHEDULE						
TYPE MAR K	SUPPLIER	DOOR TYPE	LOCATION	SIZE		COUNT
				WIDTH	HEIGHT	
1	HOME DEPOT	INTERIOR SINGLE PANEL SWINGING	INTERIOR	3' - 0"	6' - 8"	1
2	HOME DEPOT	DOOR-GARAGE-EMBOSSD_PANEL	EXTERIOR	9' - 0"	7' - 0"	1
3	HOME DEPOT	DOOR-BIFOLD_9052	INTERIOR	5' - 0"	6' - 8"	1
4	HOME DEPOT	INTERIOR DOUBLE PANEL SLIDING	INTERIOR	7' - 0"	6' - 8"	1
5	HOME DEPOT	INTERIOR SINGLE PANEL SWINGING	INTERIOR	3' - 0"	6' - 8"	1
6	HOME DEPOT	EXTERIOR SINGLE PANEL SWINGING	INTERIOR	3' - 0"	6' - 8"	1
7	HOME DEPOT	INTERIOR SINGLE PANEL SWINGING	INTERIOR	3' - 0"	8' - 0"	1

WINDOW SCHEDULE					
TYPE MARK	SUPPLIER	WINDOW TYPE	SIZE		COUNT
			WIDTH	HEIGHT	
1	HOME DEPOT	SLIDING	3' - 3"	3' - 3"	6
2	HOME DEPOT	SLIDING	5' - 3"	3' - 3"	2
3	HOME DEPOT	SLIDING	2' - 3"	1' - 9"	1



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KEY PLAN



NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

237-EMBER-624-1Bd1Ba
CRAFTSMAN-550

DRAWING NAME

ARCHITECTURAL ELEVATIONS

CLIENT NAME: Client Name
PROJECT NUMBER: 0033_15
DATE: 5/14/2025 11:26:05 AM
DESIGNED BY: Designer
DRAWN BY: Author
CHECKED BY: Checker

A201

SCALE: As indicated

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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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.

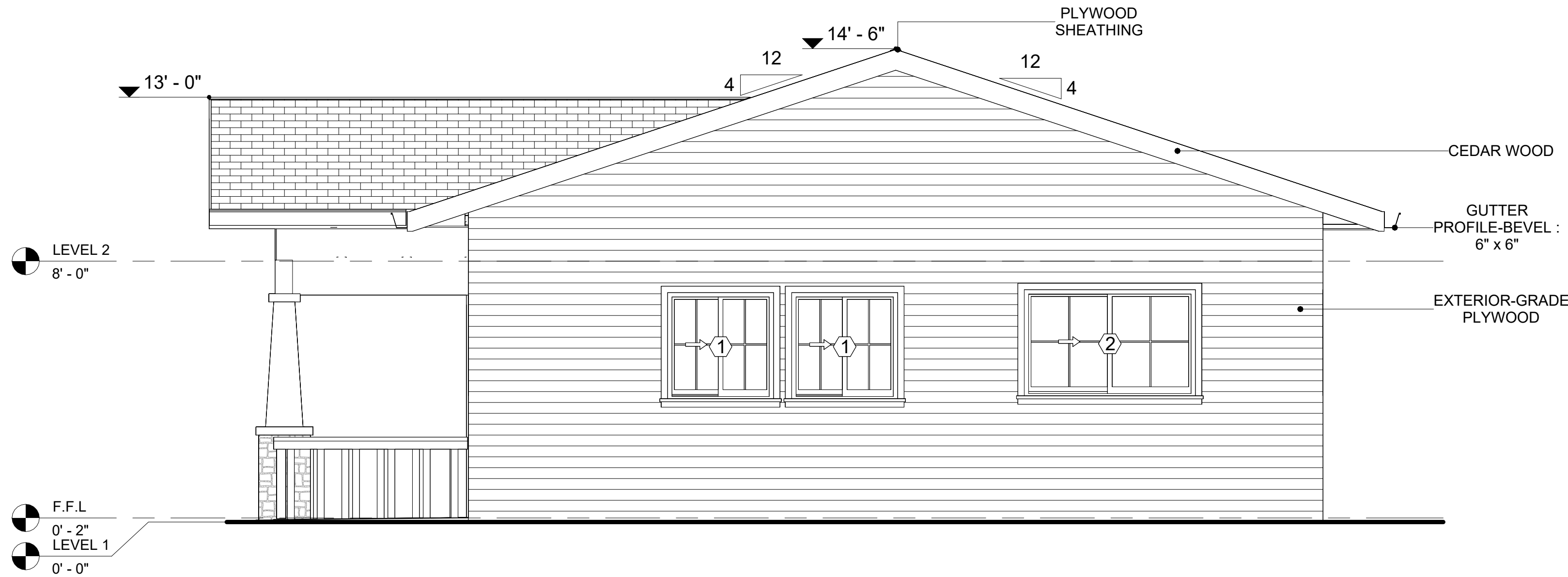
THE STONE FINISH IS DIRECTLY ATTACHED TO COLD-FORMED STEEL (CS) FRAMING. (FOR COLUMN FINISH) EXTERNAL STONE CAN BE AN EXCELLENT EXTERIOR CLADDING OPTION FOR CS-FRAMED BUILDINGS. IN THIS SCENARIO, THE EXTERNAL STONE WOULD BE ADHERED TO THE CS FRAME USING A SCRATCH COAT AND MORTAR-BASED ADHESIVE.

CEDAR WOOD

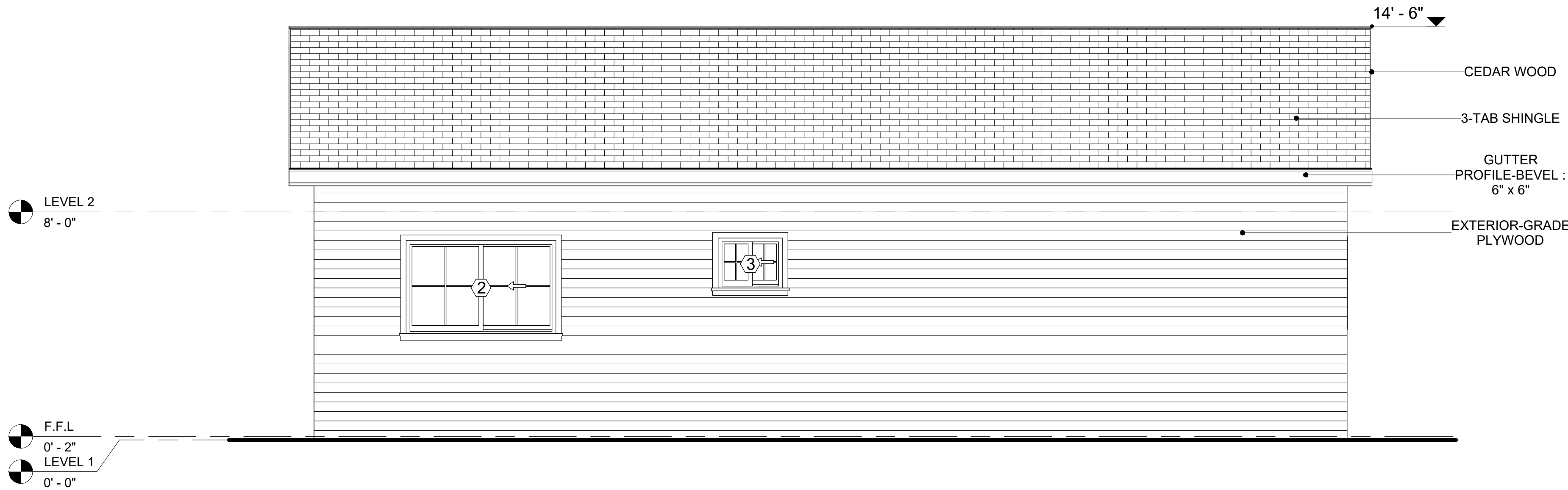
CEDAR WOOD REFERS TO THE WOOD FROM VARIOUS SPECIES OF CEDAR TREES, WHICH ARE CONIFEROUS EVERGREEN TREES KNOWN FOR THEIR DISTINCT AROMA AND NATURAL RESISTANCE TO DECAY AND INSECTS.

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

CEDAR WOOD AS A FURRING STRIPS PROVIDE THERMAL INSULATION AND MOISTURE MANAGEMENT. THE VERTICAL CEDAR WOOD FURRING STRIPS ARE ATTACHED TO HOME WRAP USING CORROSION-RESISTANT FASTENERS (HOT-DIP GALVANIZED SCREWS), ENSURING PROPER PENETRATION INTO THE WALL FRAMING.



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

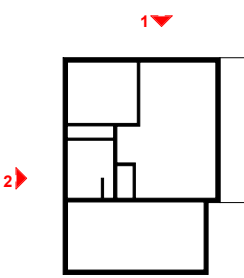


2 LEFT SIDE ELEVATION
3/8" = 1'-0"



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KEY PLAN



NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

237-EMBER-624-1Bd1Ba
CRAFTSMAN-550

DRAWING NAME

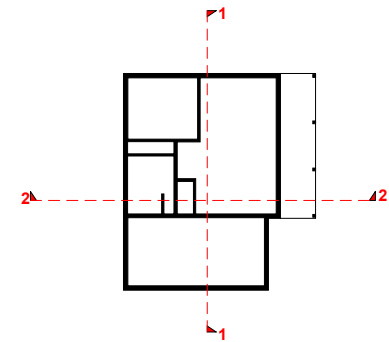
ARCHITECTURAL ELEVATIONS

CLIENT NAME:	Client Name
PROJECT NUMBER:	0033_15
DATE:	5/14/2025 11:26:09 AM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

A202

SCALE: As indicated

KEY PLAN



NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

237-EMBER-624-1Bd1Ba
CRAFTSMAN-550

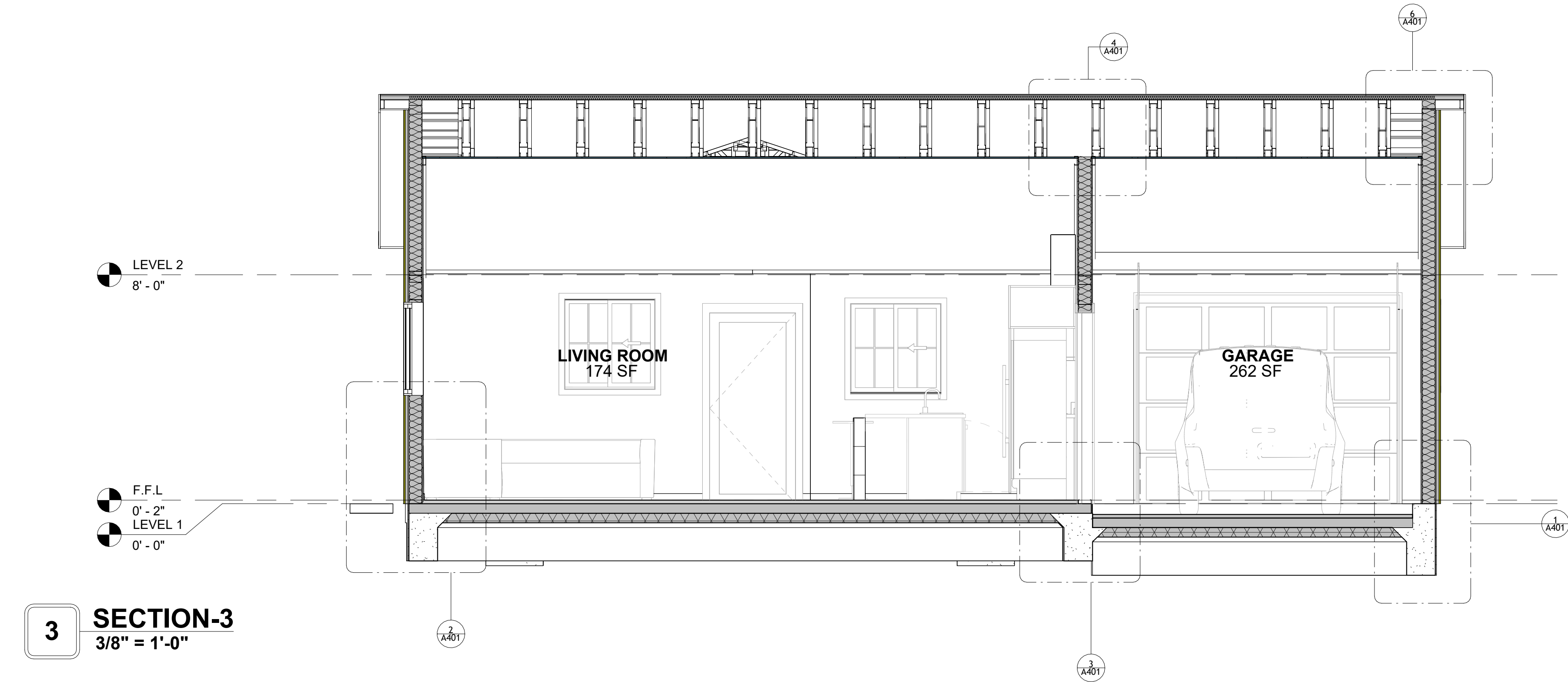
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ARCHITECTURAL SECTIONS

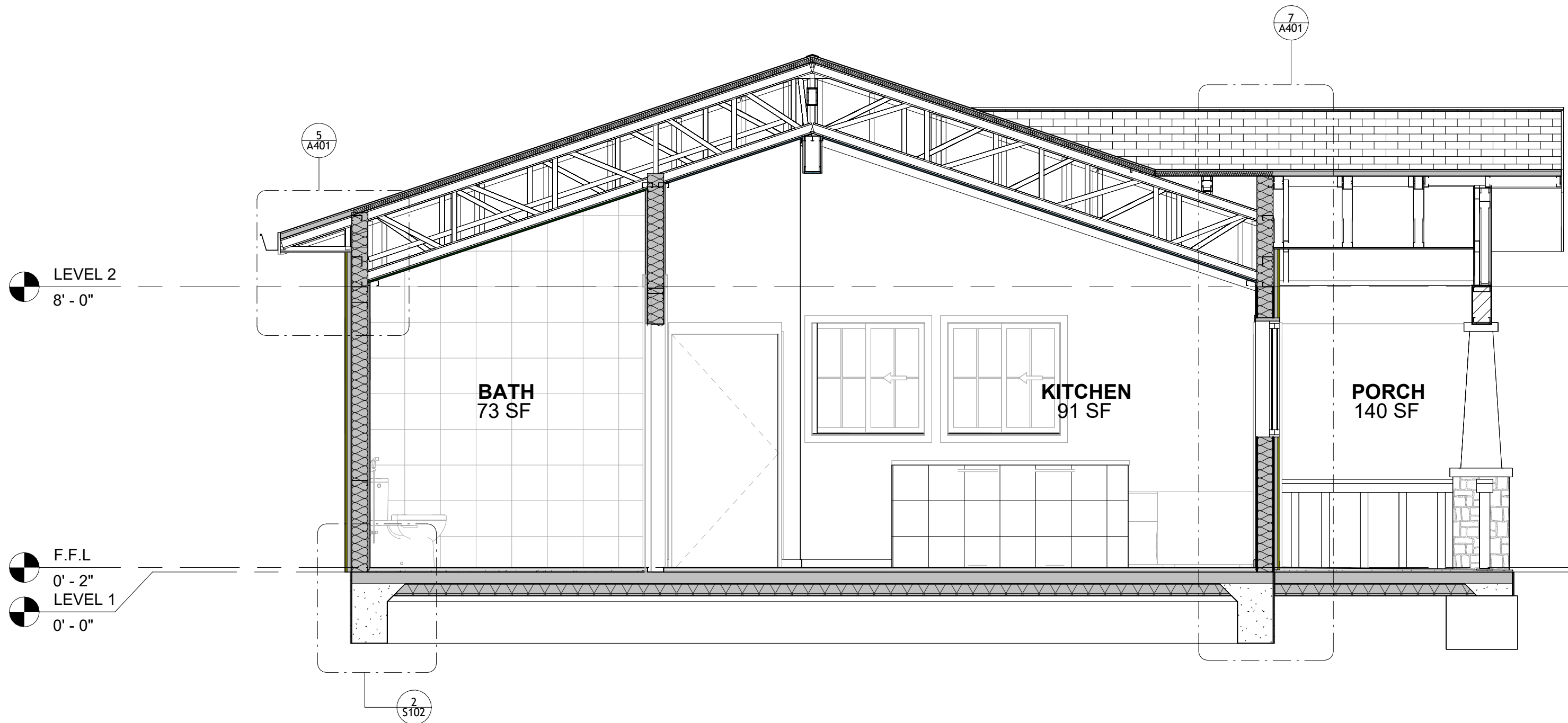
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PROJECT NUMBER:	0033_15
DATE:	5/14/2025 11:26:11 AM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

A301

SCALE: As indicated



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



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

KEY PLAN

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

237-EMBER-624-1Bd1Ba
CRAFTSMAN-550

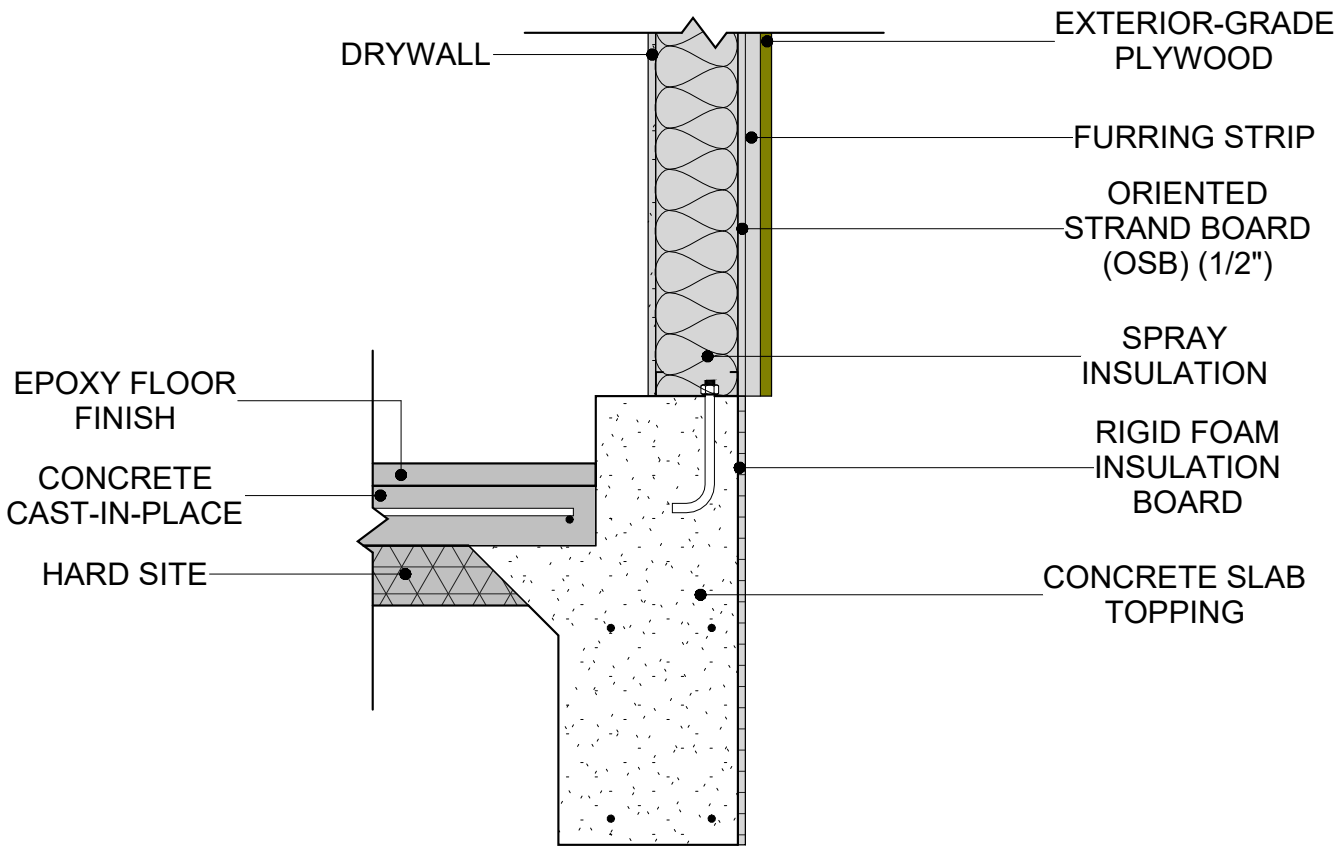
DRAWING NAME

ARCHITECTURAL DETAILS

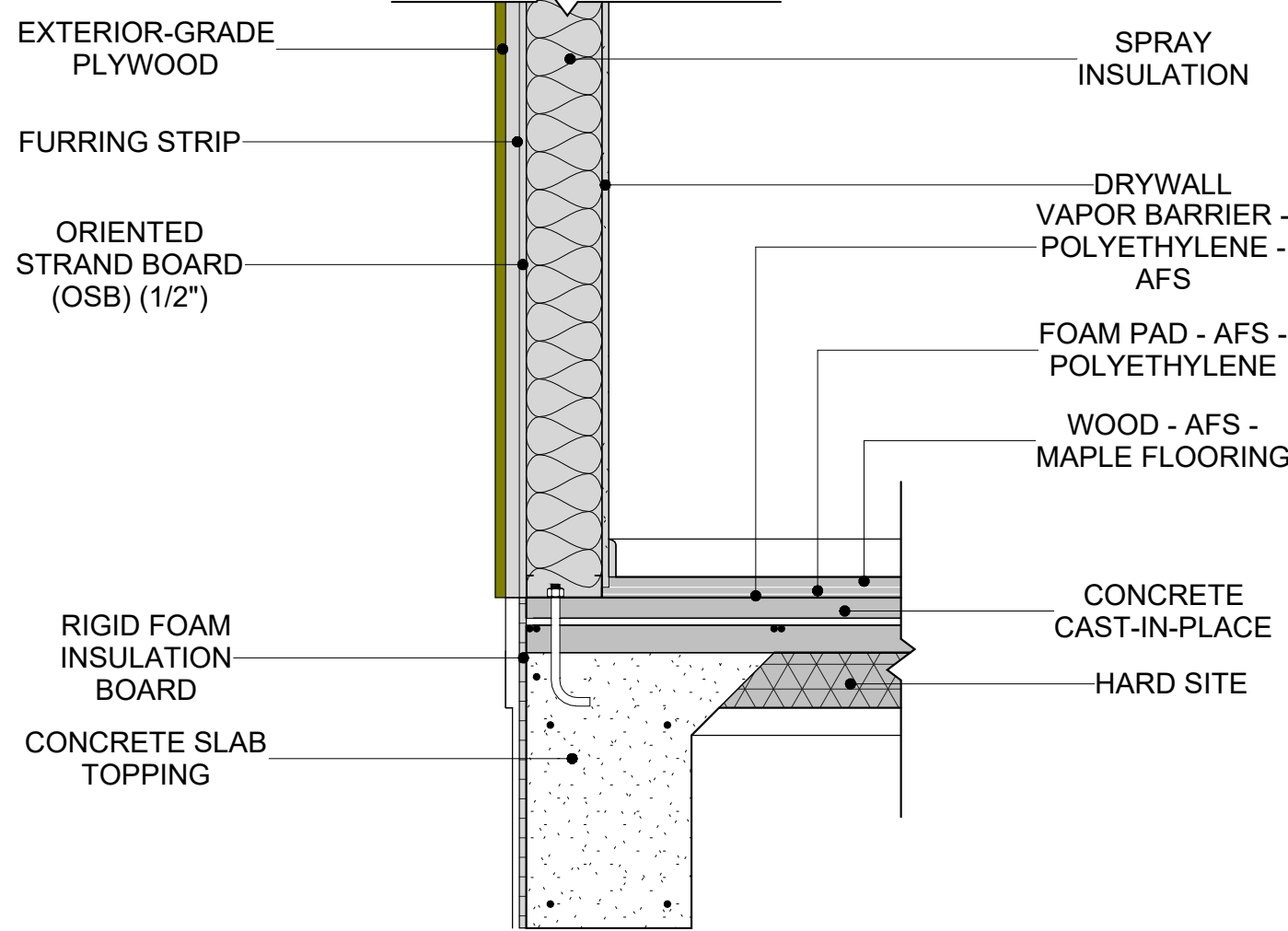
CLIENT NAME: Client Name
PROJECT NUMBER: 0033_15
DATE: 5/14/2025 11:26:12 AM
DESIGNED BY: Designer
DRAWN BY: Author
CHECKED BY: Checker

A401

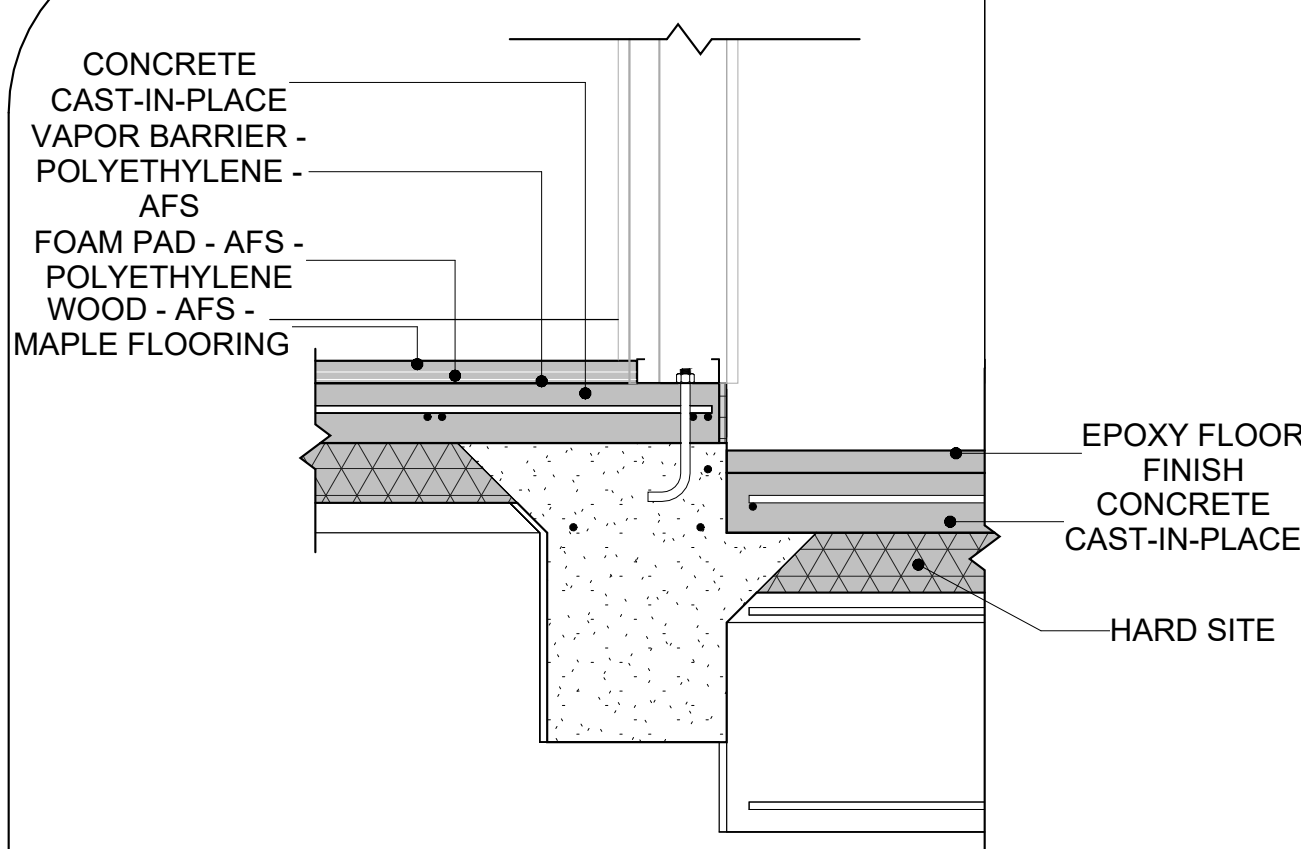
SCALE: 1" = 1'-0"



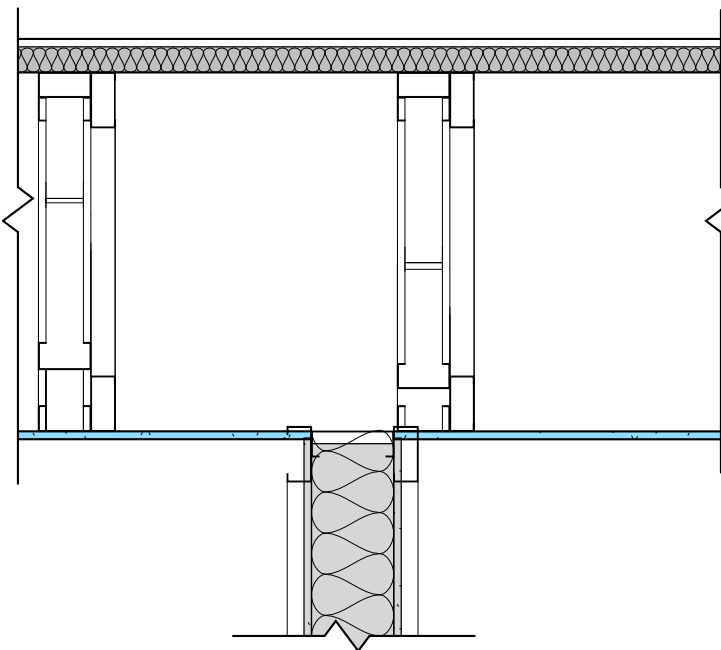
1 WALL FLOOR CONN.1
1" = 1'-0"



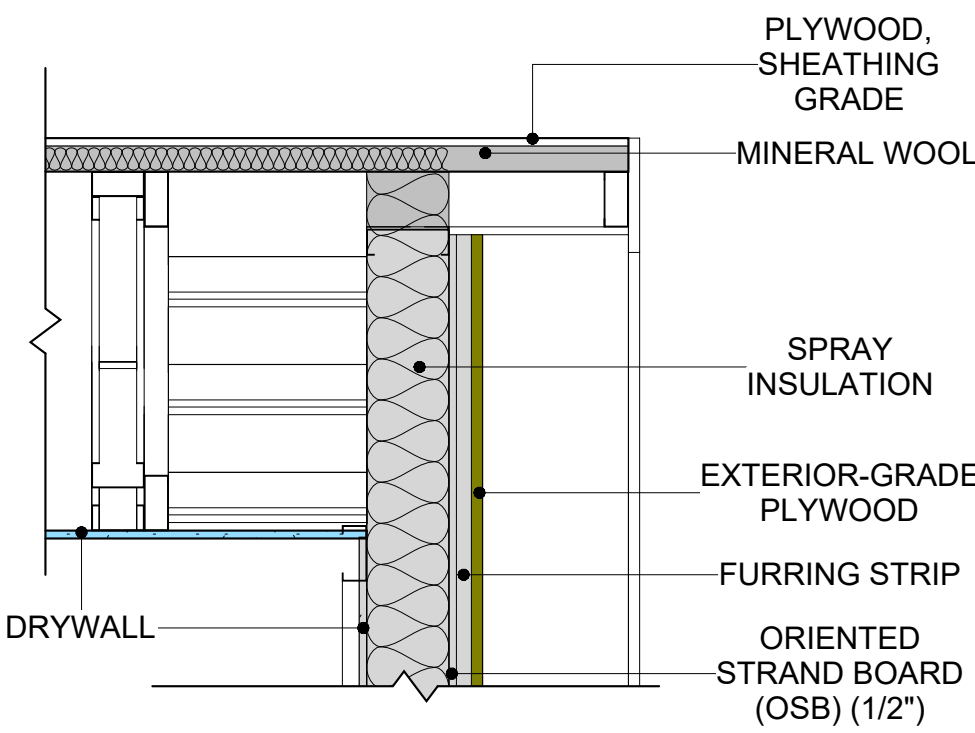
2 TYPICAL WALL FTG2
1" = 1'-0"



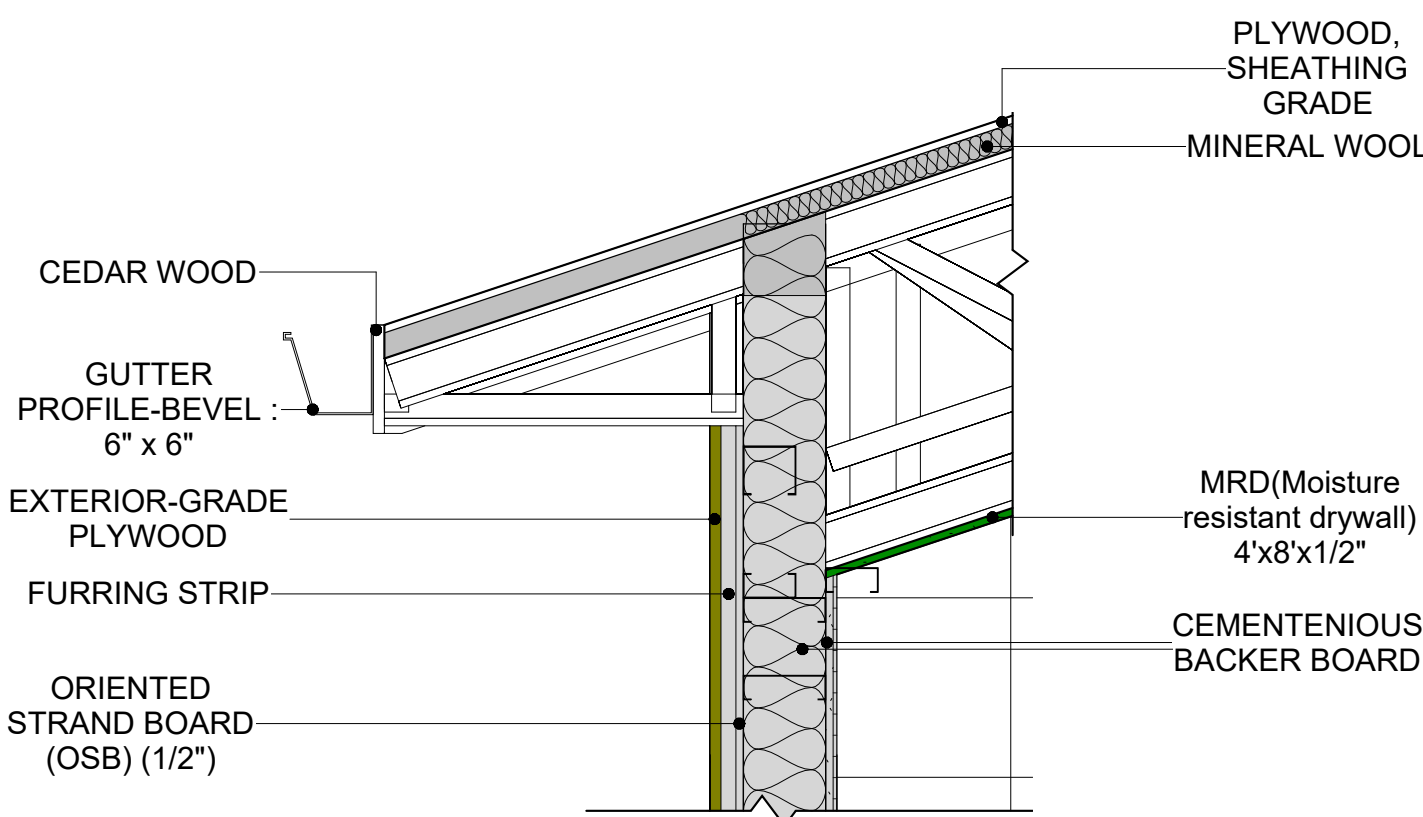
3 FLOOR ON WALL
1" = 1'-0"



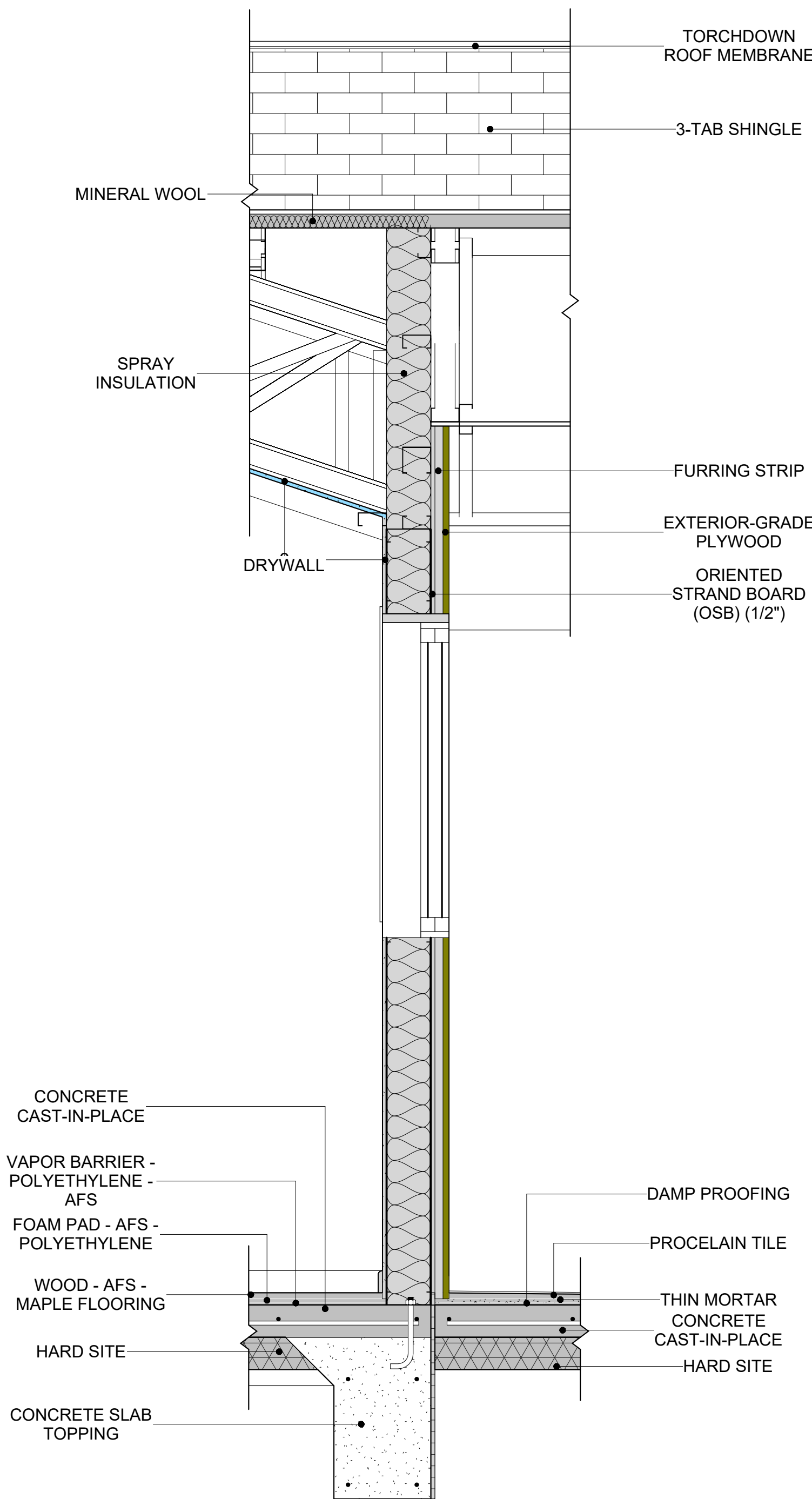
4 ROOF/TRUSS CONN.
1" = 1'-0"



6 BUILDING SECTION
1" = 1'-0"



5 WALL TO FLOOR CONN.
1" = 1'-0"



7 WALL SECTION
1" = 1'-0"

CASEWORK GENERAL NOTES

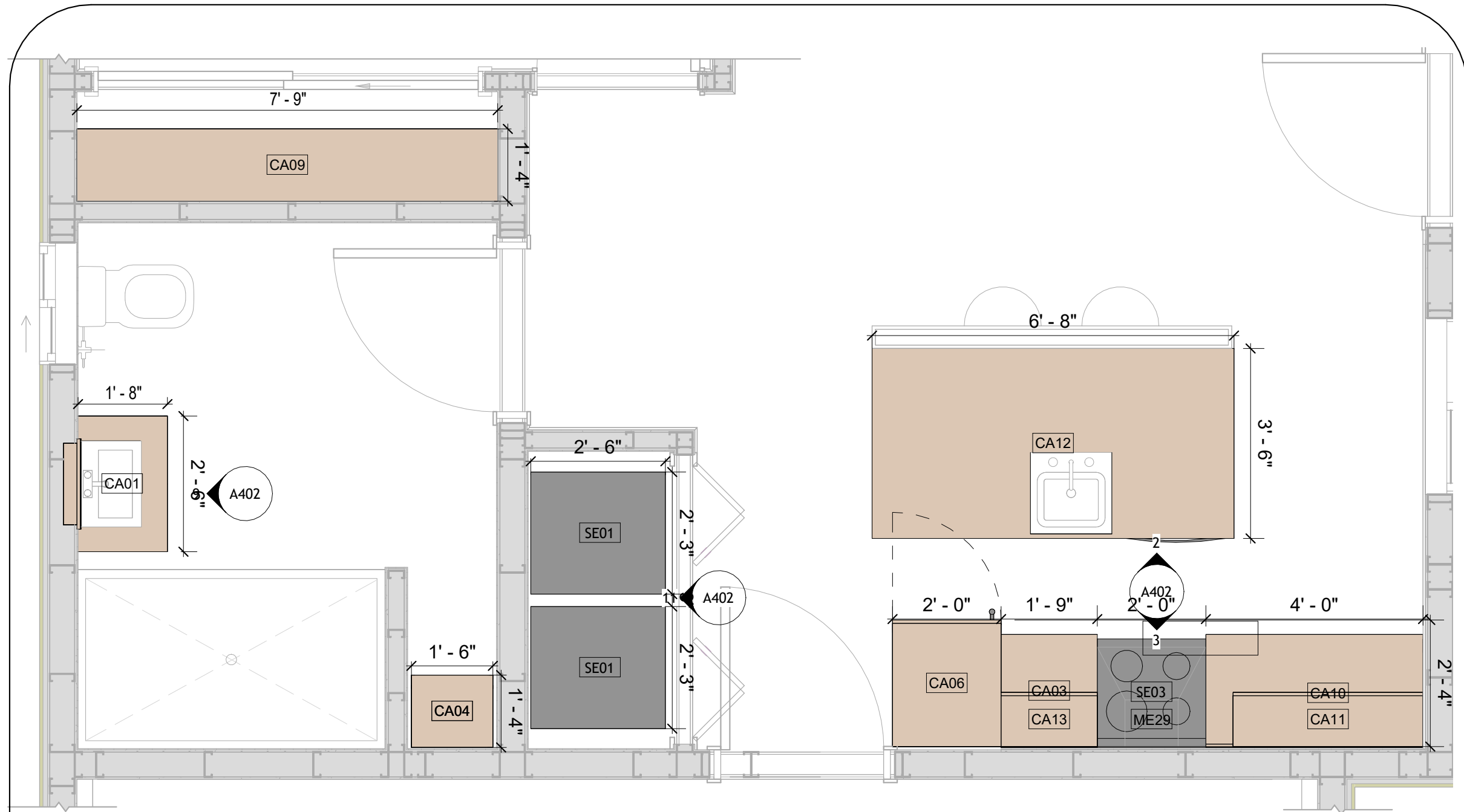
1. ALL CABINET HEIGHTS INCLUDE COUNTERTOPS. DIMENSIONS ARE TO THE NEAREST INCH.
2. DIVISIONS IN CASEWORK ARE SHOWN FOR CLARITY AND DO NOT REPRESENT BREAKS IN THE COUNTERTOP.
3. PROVIDE CONTINUOUS COUNTERTOP OVER ALL SIMILAR HEIGHT CASEWORK, UNLESS AND OTHERWISE NOTED.
4. MANUFACTURER AND CATALOG NUMBERS ARE FOR REFERENCE AND ILLUSTRATION PURPOSES ONLY.
5. DOTTED LINES INDICATE WALL HUNG CABINETS, DIVISIONS OF BASE CABINETS BELOW THE 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 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 FABRICATION.
12. CASEWORK DRAWINGS ARE DIAGRAMMATIC IN NATURE TO SHOW DESIGN INTENT.

CASEWORK SCHEDULE

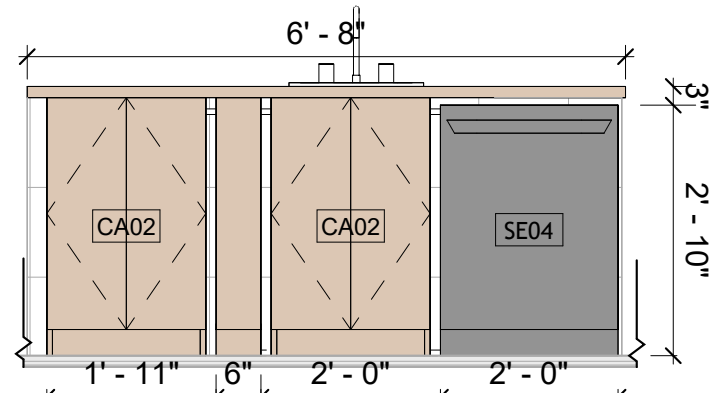
TYPE MAR K	TYPE	COUN T	HEIGHT	WIDTH	DEPTH	AREA
01	VANITY 2	1	2' - 4"	2' - 6"	1' - 8"	6 SF
02	BASE CABINET DOUBLE DOOR 1	3	2' - 11"	1' - 9"	2' - 0"	5 SF
03	LINEAR COUNTER TOP 4	1	0' - 4"	1' - 9"	2' - 1"	1 SF
04	CLOSET 5	1	6' - 0"	1' - 6"	1' - 4"	9 SF
05	WALL FILLER 3	2	2' - 11"	0' - 6"	2' - 0"	1 SF
06	LAUNDRY OPEN CABINET	1	1' - 6"	2' - 0"	2' - 4"	3 SF
07	LINEAR COUNTER TOP 3	1	0' - 4"	4' - 0"	2' - 1"	1 SF
08	RECESSED_MED_CABINET	1	2' - 0"	1' - 6"	0' - 3"	3 SF
09	CLOSET 4	1	6' - 0"	7' - 9"	1' - 4"	47 SF
10	BASE_CABINET_DOUBLE_DOOR 3	1	2' - 11"	3' - 6"	2' - 0"	10 SF
11	WALL_CABINET_DOUBLE_DOOR 5	1	2' - 6"	3' - 6"	1' - 0"	9 SF
12	HD_LINEAR_COUNTER_TOP 2	1	0' - 4"	6' - 8"	3' - 6"	2 SF
13	WALL_CABINET_SINGLE_DOOR	1	2' - 6"	1' - 9"	1' - 0"	4 SF
GRAND TOTAL		16				

SPECIALTY EQUIPMENT SCHEDULE

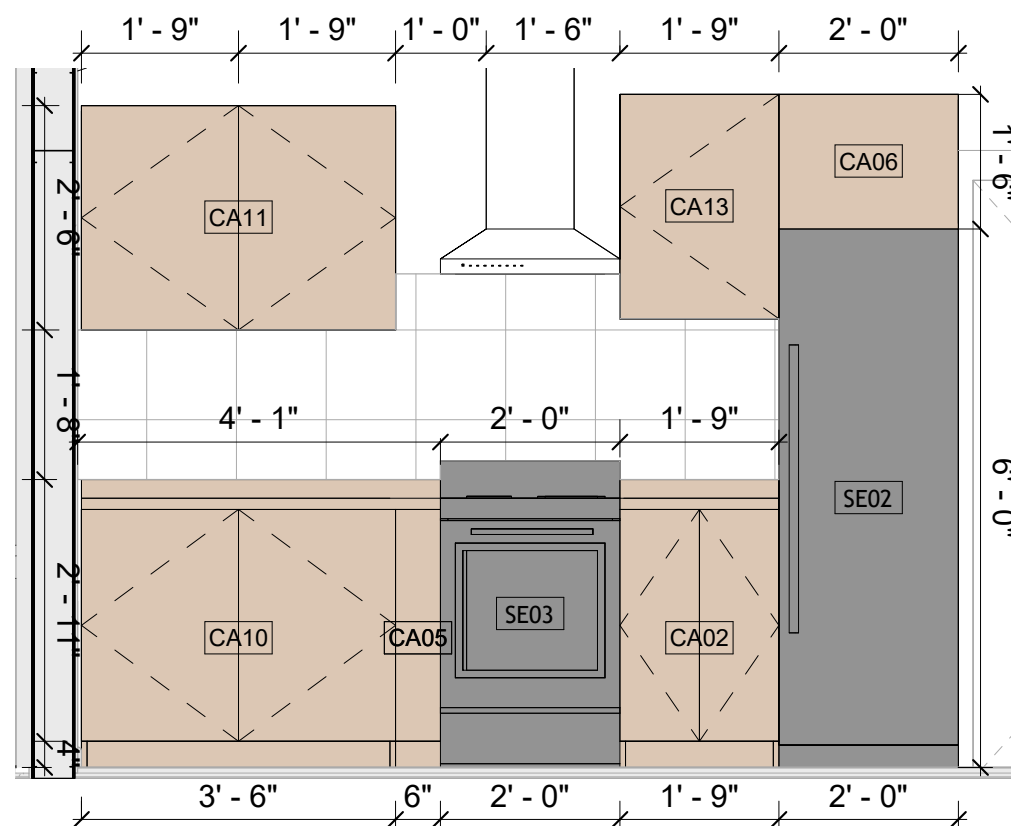
TYPE MARK	TYPE	COUNT
01	WASHER-FRONT-LOAD	2
02	REFRIGERATOR	1
03	RANGE	1
04	DISHWASHER	1
GRAND TOTAL: 5		



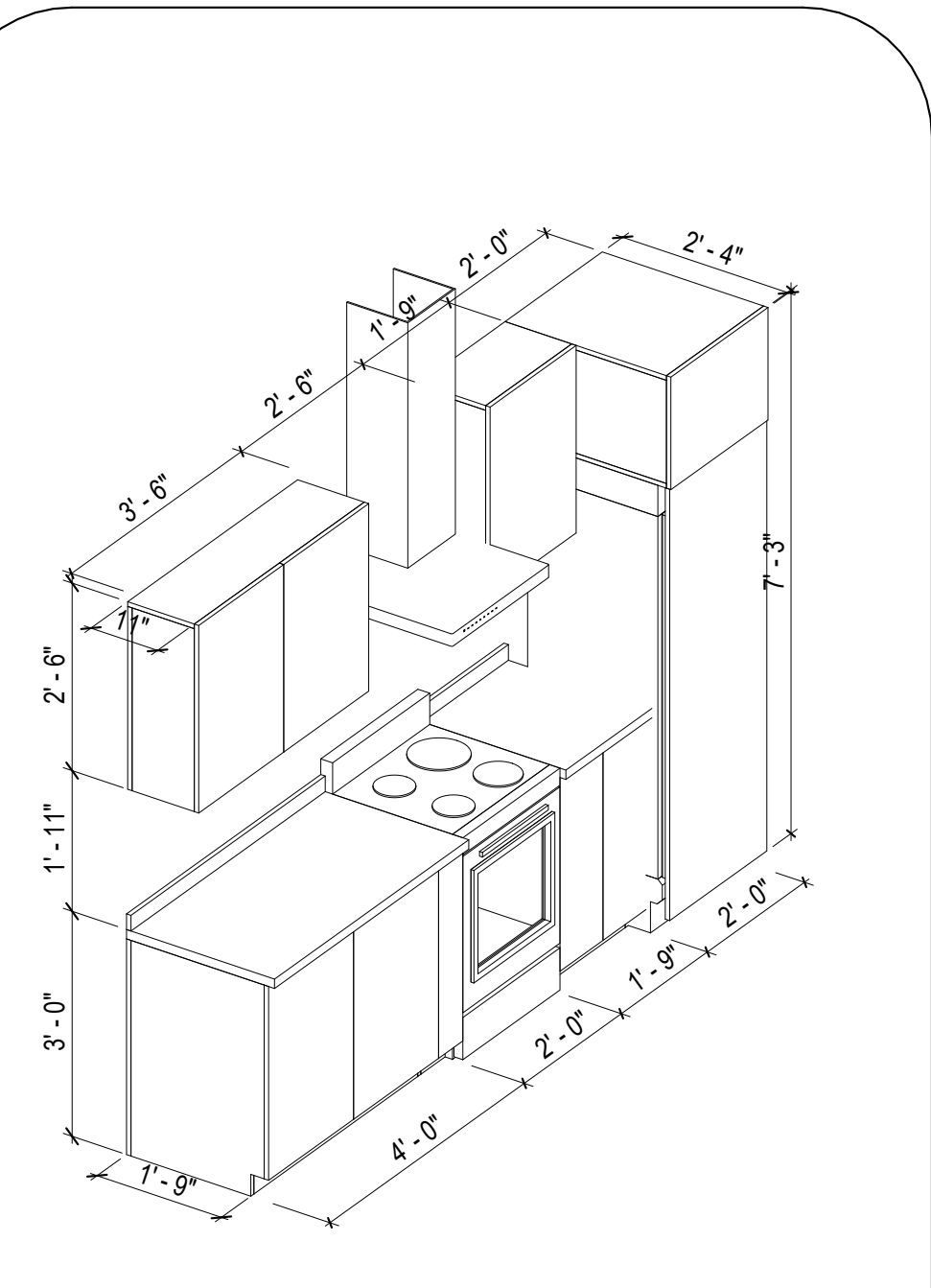
1 CASEWORK PLAN
1/2" = 1'-0"



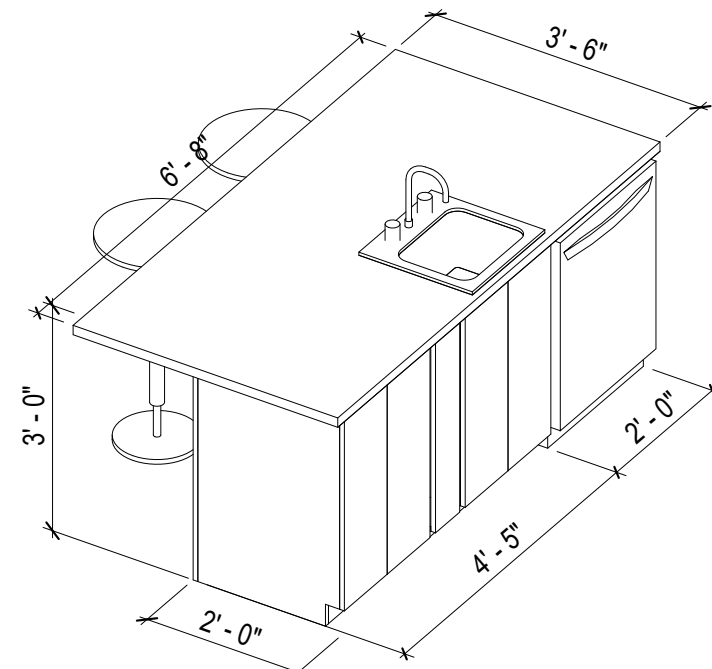
2 Elevation 1 - b
1/2" = 1'-0"



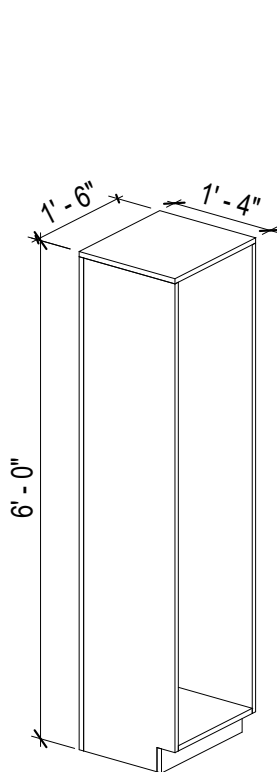
3 Elevation 1 - d
1/2" = 1'-0"



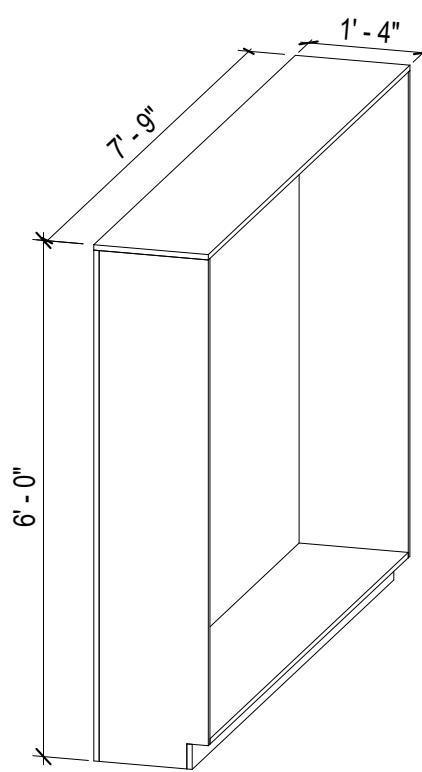
4 KITCHEN 3D



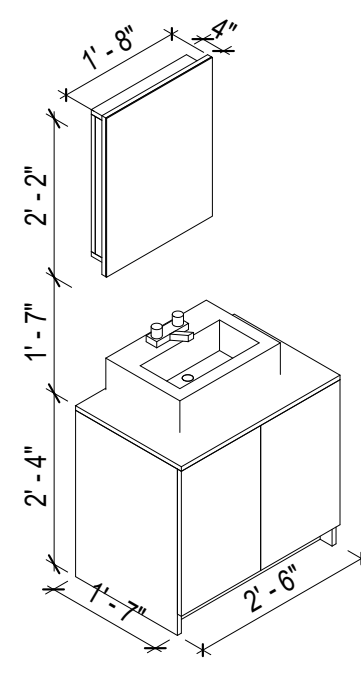
5 KITCHEN 3D 2



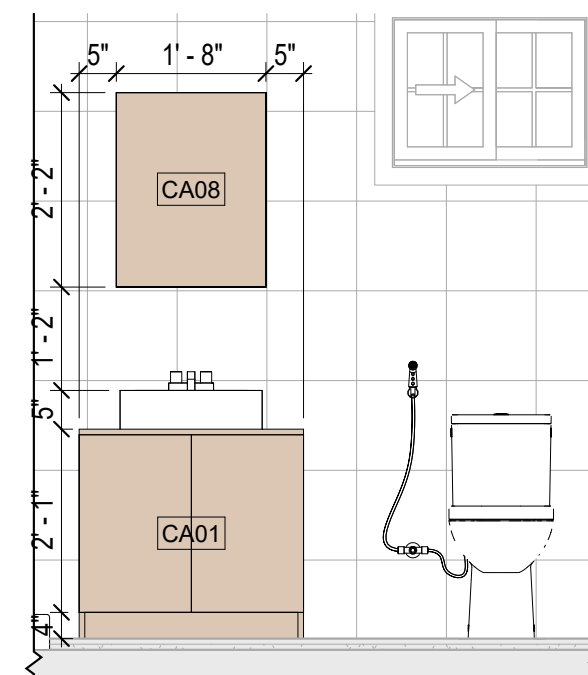
6 CLOSET 3D



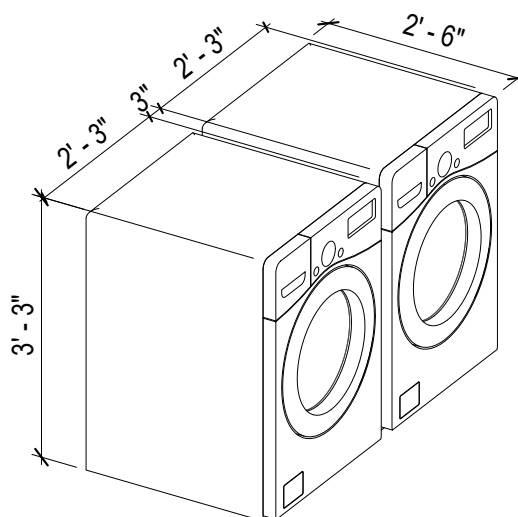
7 CLOSET 3D1



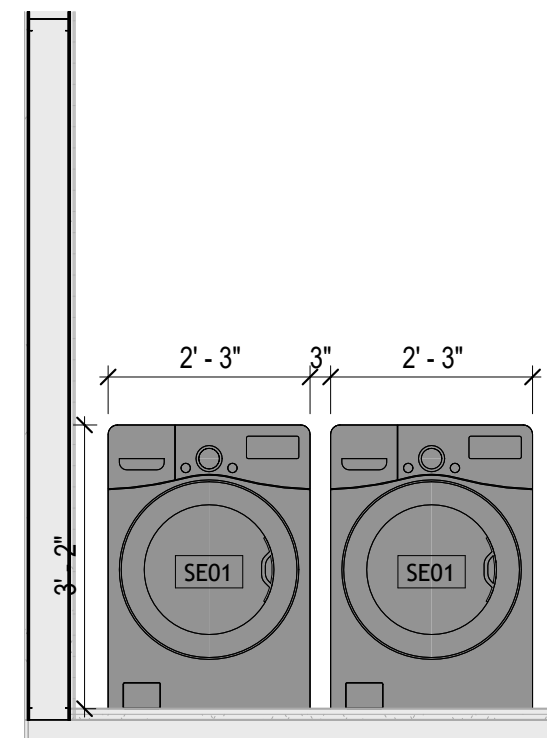
8 VANITY 3D



9 ELEVATION 1 - B
1/2" = 1'-0"

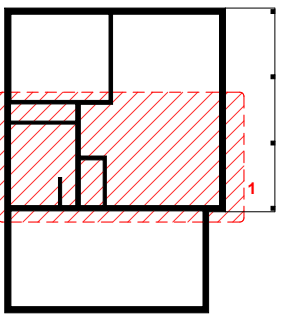


10 LAUNDRY 3D



11 Elevation 2 - d
1/2" = 1'-0"

KEY PLAN



NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

237-EMBER-624-1Bd1Ba
CRAFTSMAN-550

DRAWING NAME

ARCHITECTURAL CASEWORK

CLIENT NAME: Client Name
PROJECT NUMBER: 0033_15
DATE: 5/14/2025 11:26:14 AM
DESIGNED BY: Designer
DRAWN BY: Author
CHECKED BY: Checker

A402

SCALE: As indicated

GENERAL NOTES

1. THIS DRAWING DEPICTS THE HVAC (HEATING, VENTILATION, AND AIR CONDITIONING) SYSTEM FOR THE EMBER 1BD 1BA CRAFTSMAN. 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 BMODIFY 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 CODE COMPLIANCE.
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

SUPPLY DIFFUSER

RETURN DIFFUSER

EXHAUST DIFFUSER

SIDEWALL SUPPLY DIFFUSER

FLEXIBLE CONNECTION

ELEVATION INCLINE - RISE;
IN DIRECTION OF FLOW

ELEVATION INCLINE - DROP;
IN DIRECTION OF FLOW

CONNECT NEW DUCT TO
EXISTING DUCT

VAINED ELBOW; TYPICAL AT ALL
SQUARE AND RECTANGULAR
ELBOWS

VANED ELBOW; SHORT RADIUS

STANDARD RADIUS ELBOW

SUPPLY DUCT

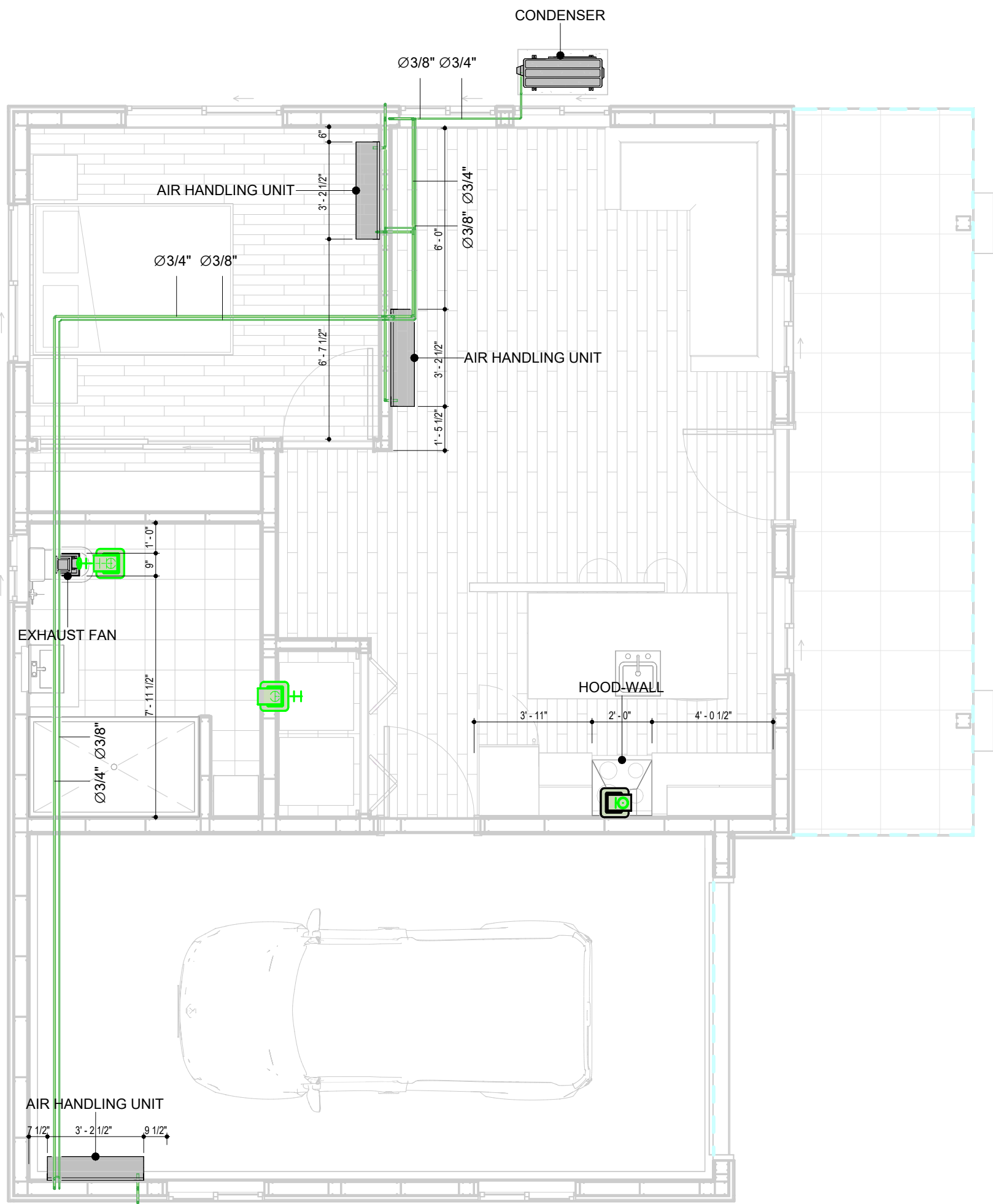
RETURN DUCT

AIR HANDLING UNIT

TRANSITION

AIR CONDENSER

DUCT HANGER



1 HVAC PLAN
1/4" = 1'-0"

HVAC COLOR SCHEME
AIR CONDITIONING PIPE
LINE

REFRIGERANT LINE SCHEDULE

CATAGORY	DESCRIPTION	DIAMETER	LENGTH
PIPE TYPES	COPPER	3/8"	80.91
PIPE TYPES	COPPER	3/4"	105.69

REFRIGERANT LINE FITTING SCHEDULE

CATAGORY	DESCRIPTION	Size	Count
ELBOW - GENERIC	ELBOW - GENERIC: STANDARD/HVAC	3/4"ø-3/4"ø	25
ELBOW - GENERIC	ELBOW - GENERIC: STANDARD/HVAC	3/8"ø-3/8"ø	19
TEE - GENERIC	TEE - GENERIC: STANDARD	3/4"ø-3/4"ø-3/4"ø	3
TEE - GENERIC	TEE - GENERIC: STANDARD	3/8"ø-3/8"ø-3/8"ø	2
TRANSITION - GENERIC	TRANSITION - GENERIC: STANDARD	3/4"ø-1/2"ø	4
TRANSITION - GENERIC	TRANSITION - GENERIC: STANDARD	3/4"ø-5/8"ø	3
TRANSITION - GENERIC	TRANSITION - GENERIC: STANDARD	3/8"ø-1/4"ø	1
TRANSITION - GENERIC	TRANSITION - GENERIC: STANDARD	3/8"ø-3/8"ø	1

MECHANICAL EQUIPMENT SCHEDULE

CATAGORY	DESCRIPTION	COUNT
AIR HANDLING UNIT	AIR HANDLING UNIT: WALL MOUNTED	3
CONDENSER	CONDENSER: OUT DOOR	1
EXHAUST FAN	EXHAUST FAN: 75 CFM	1
	HOOD-WALL: VENT	1

DUCT FITTING SCHEDULE

CATAGORY	DESCRIPTION	COUNT
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	19.16	4"	3
GRAND TOTAL: 3		19.16		

KEY PLAN

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

237-Ember-624-1Bd 1Ba
Craftsman-550

DRAWING NAME

HVAC PLAN

CLIENT NAME: Owner
PROJECT NUMBER: 15_0001
DATE: 4/28/2025 11:51:47 PM
DESIGNED BY: Designer
DRAWN BY: Author
CHECKED BY: Checker

M101

SCALE: As indicated

ELECTRICAL NOTES

1. THIS DRAWING DEPICTS THE ELECTRICAL SYSTEM FOR THE 237_EMBER_624_1Bd1Ba_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 EQUIPMENT.
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	897 @ 3W	2,691 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		25,991 W	
FRIST 10,000 @ 100% REMAINDER @ 40% MINI. SPLIT UNITS		10,000 W 6,396 W 10,880 W	
TOTAL		26,396 W	
26,396 W DIVIDED BY 240V = 110 AMPS TOTAL			
(USE 200 AMP SERVICE)			

Branch Panel:

Location: LIVING ROOM 3						Volts: 120/240 Single				A.I.C. Rating:					
Supply From:						Phases: 1				Mains Type:					
Mounting: Recessed						Wires: 3				Mains Rating: 200 A					
Enclosure: Type 1						MCB Rating: 1 A									
Notes:															
Circuit Number	Circuit Description	Number of Elements	Rating	Length	Wire Size	A		B		Wire Size	Length	Rating	Number of Elements	Circuit Description	Circuit Number
1	BEDROOM LIGHT UNITS	10	20 A	31' - 9 9/16"	1-#12, 1-#12, 1-#12	568 VA	900 VA			1-#12, 1-#12, 1-#12	41' - 5 1/32"	20 A	5	BEDROOM RECEPTACLES	2
3	OUTDOOR GFCI RECEPTACLES	4	20 A	65' - 7 9/16"	1-#12, 1-#12, 1-#12			720 VA	750 VA	2-#6, 1-#6, 1-#10	14' - 11 15/16"	60 A	1	CONDENCER	4
5	LIVINGROOM RECEPTACLES	6	20 A	33' - 5 11/16"	1-#12, 1-#12, 1-#12	1080 VA	750 VA			--	--	--	--	--	6
7	LIVINGROOM LIGHT POINTS	6	20 A	28' - 4 11/16"	1-#12, 1-#12, 1-#12			240 VA	300 VA	1-#12, 1-#12, 1-#12	48' - 2 3/4"	20 A	7	KITCHEN AND HALL LIGHT POINTS	8
9	BATHROOM UNITS	7	20 A	50' - 2 1/2"	1-#12, 1-#12, 1-#12	396 VA	1200 VA			1-#12, 1-#12, 1-#12	40' - 10 7/8"	20 A	1	GFCI WASHER	10
11	DRYER	1	30 A	43' - 5 3/4"	2-#10, 1-#10, 1-#10			750 VA	1500 VA	1-#12, 1-#12, 1-#12	37' - 6 5/16"	20 A	1	REFRIGERATOR	12
13	--	--	--	--	--	750 VA	750 VA			2-#8, 1-#8, 1-#10	33' - 11 7/16"	50 A	1	RANGE	14
15	GFCI KITCHEN RECEPTACLES	3	20 A	33' - 0 13/32"	1-#12, 1-#12, 1-#12			540 VA	750 VA	--	--	--	--	--	16
17	DISH WASHER	1	30 A	26' - 7 1/4"	1-#10, 1-#10, 1-#10	1200 VA	750 VA			2-#10, 1-#10, 1-#10	53' - 1 23/32"	30 A	1	WATER HEATER	18
19	GARAGE GFCI RECEPTACLES	7	20 A	66' - 7 15/16"	1-#10, 1-#10, 1-#10			1260 VA	750 VA	--	--	--	--	--	20
21	GARAGE LIGHT POINTS	3	15 A	48' - 3 1/32"	1-#14, 1-#14, 1-#14	128 VA	400 VA			1-#12, 1-#12, 1-#12	43' - 1 1/8"	20 A	6	OUTDOOR LIGHT POINTS	22
23															24
25															26
						8847 VA		7560 VA							
						74 A		63 A							
Legend:															
Load Classification				Connected Load		Demand Factor		Estimated Demand		Panel Totals					
Lighting - Dwelling Unit				628 VA		100.00%		628 VA							
Other				1132 VA		100.00%		1132 VA		Total Conn. Load: 16405 VA					
Receptacle				14580 VA		84.29%		12290 VA		Total Est. Demand: 14115 VA					
Lighting				100 VA		100.00%		100 VA		Total Conn.: 68 A					
										Total Est. Demand: 59 A					
Notes:															

ELECTRICAL ABBREVIATIONS LIST

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

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

237-EMBER-624-1Bd1Ba
CRAFTSMAN-550

DRAWING NAME

SCHEDULE

CLIENT NAME:	Owner
PROJECT NUMBER:	0127_12
DATE:	5/1/2025 2:15:17 AM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

E101

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

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

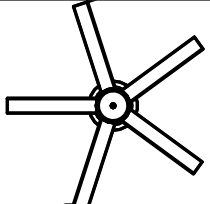
E4001.5 GROUNDING OF ENCLOSURES.

METAL ENCLOSURES FOR SWITCHES OR CIRCUIT BREAKERS SHALL BE CONNECTED TO AN EQUIPMENT GROUNDING CONDUCTOR.

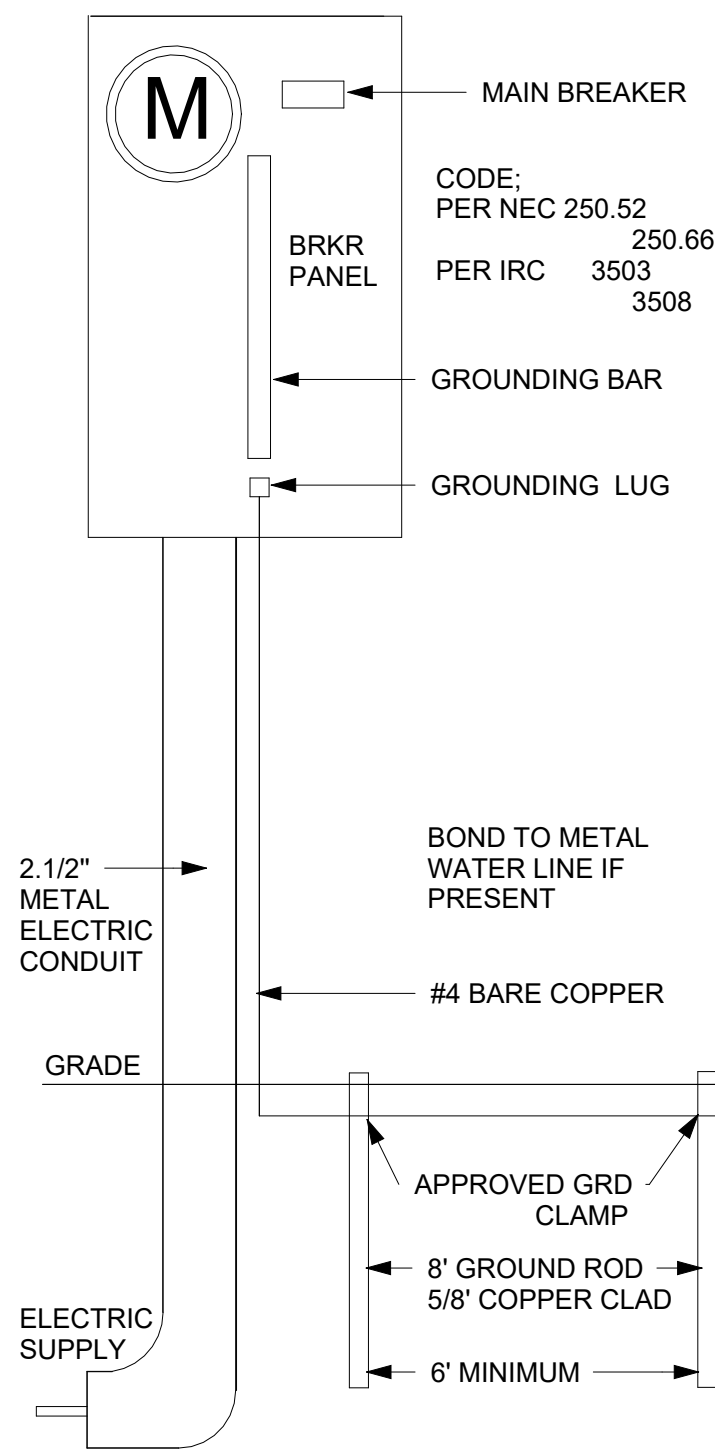
METAL ENCLOSURES FOR SWITCHES OR CIRCUIT BREAKERS USED AS SERVICE EQUIPMENT SHALL COMPLY WITH THE PROVISIONS OF SECTION E3609.4. WHERE NONMETALLIC ENCLOSURES ARE USED WITH METAL RACEWAYS OR METAL-ARMORED CABLES, PROVISIONS SHALL BE MADE FOR CONNECTING THE EQUIPMENT GROUNDING CONDUCTOR.

NONMETALLIC BOXES FOR SWITCHES SHALL BE INSTALLED WITH A WIRING METHOD THAT PROVIDES OR INCLUDES AN EQUIPMENT GROUNDING CONDUCTOR. (404.12)

ELECTRICAL LEGEND

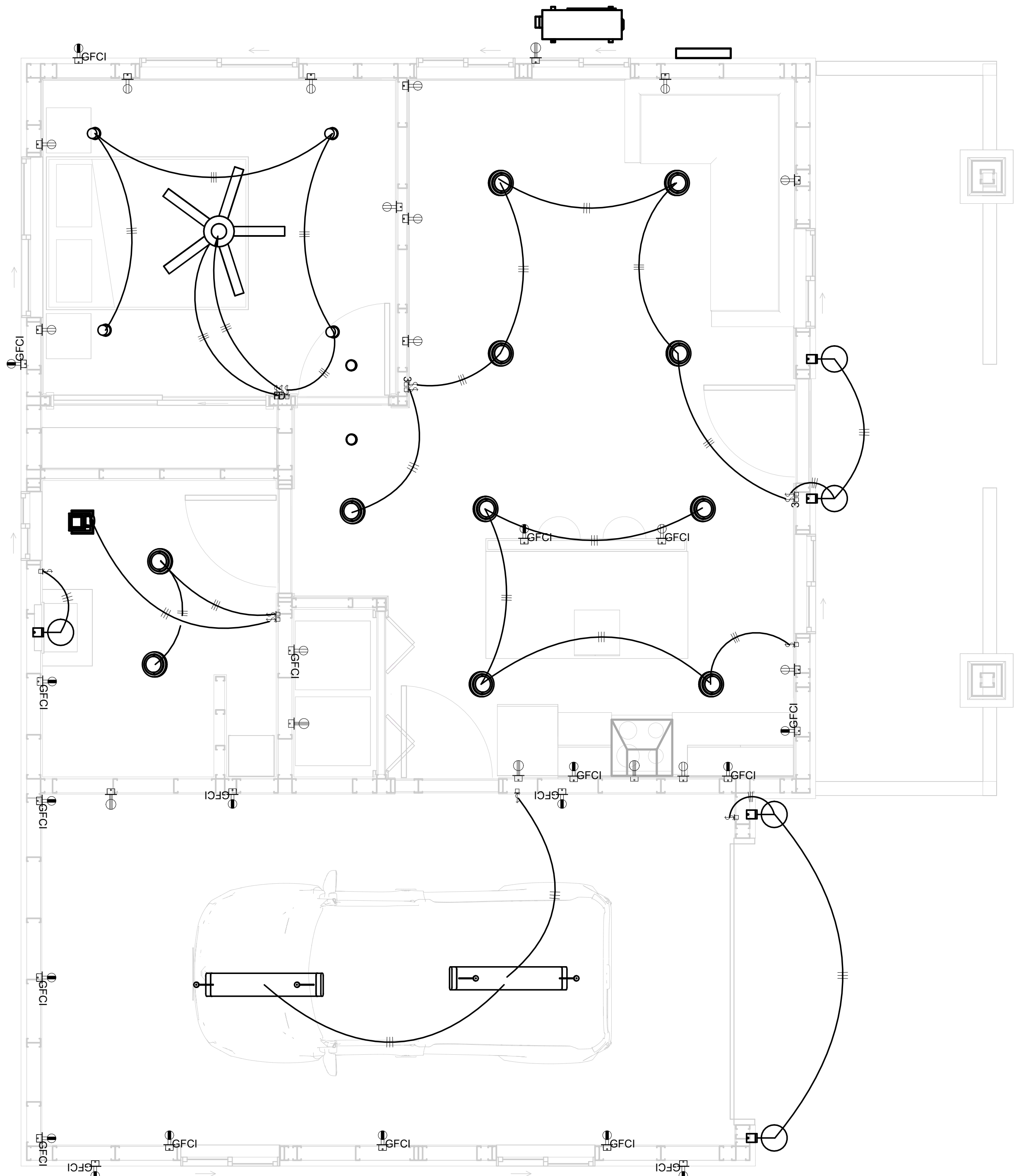
	Electrical Lights With Fan
	Waterproof Recessed Can Light
	Pendant Light
	Recessed Can Light
	Wall Lamp
	Standalone linear
	Single Switch
	Three way Switch
	Fan Switch
	Duplex Receptacle
	Triplex Receptacle
	GFCI Receptacle
	Exhaust Fan
	Smoke and heat detector

200 AMP METER SERVICE PANEL



2

SERVICE PANEL DIAGRAM
12" = 1'-0"



1

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

FrameUPNow

Tucson, AZ, USA
888-864-0184
inquire@frameupnow.com
www.frameupnow.com

KEY PLAN

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

237-EMBER-624-1Bd1Ba
CRAFTSMAN-550

DRAWING NAME

LIGHTING

CLIENT NAME:	Owner
PROJECT NUMBER:	0127_12
DATE:	5/1/2025 2:15:19 AM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

E102

SCALE: As indicated

- NOTES: CONDUIT, CABLE AND WIRING
1.

Use Metallic Conduits (IMC) for cables running under concrete slabs.
2.

Use IMC for circuits with high voltage appliances (240 volts and above)
3.

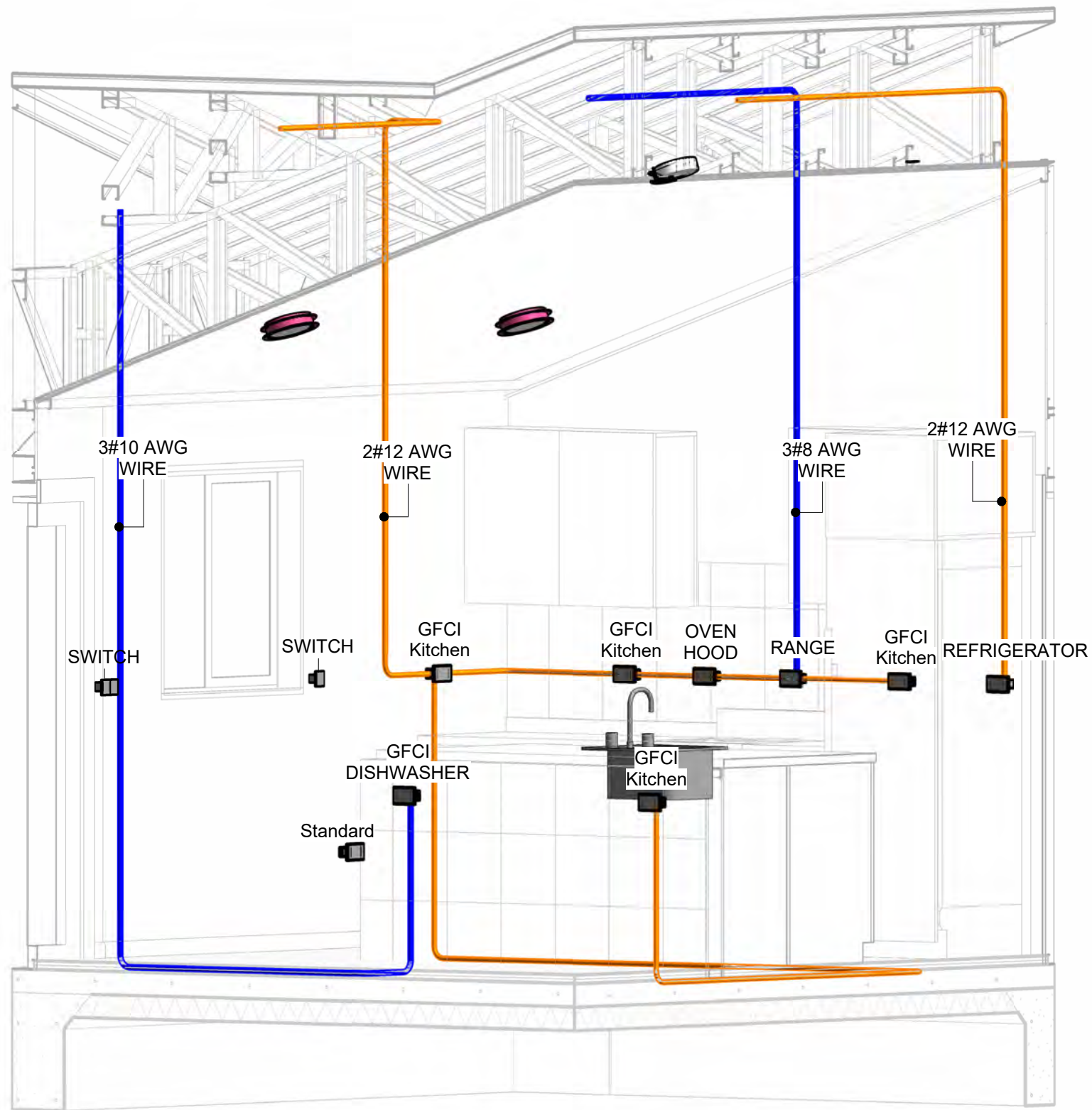
For circuits with 120 volts consider using EMT or PVC conduits if needed.
4.

For Low voltage applications up to 50 volts consider using non metallic conduits.
5.

All conduits to be used in the project must conform to the latest National Electrical Code (NEC), 2015.
6.

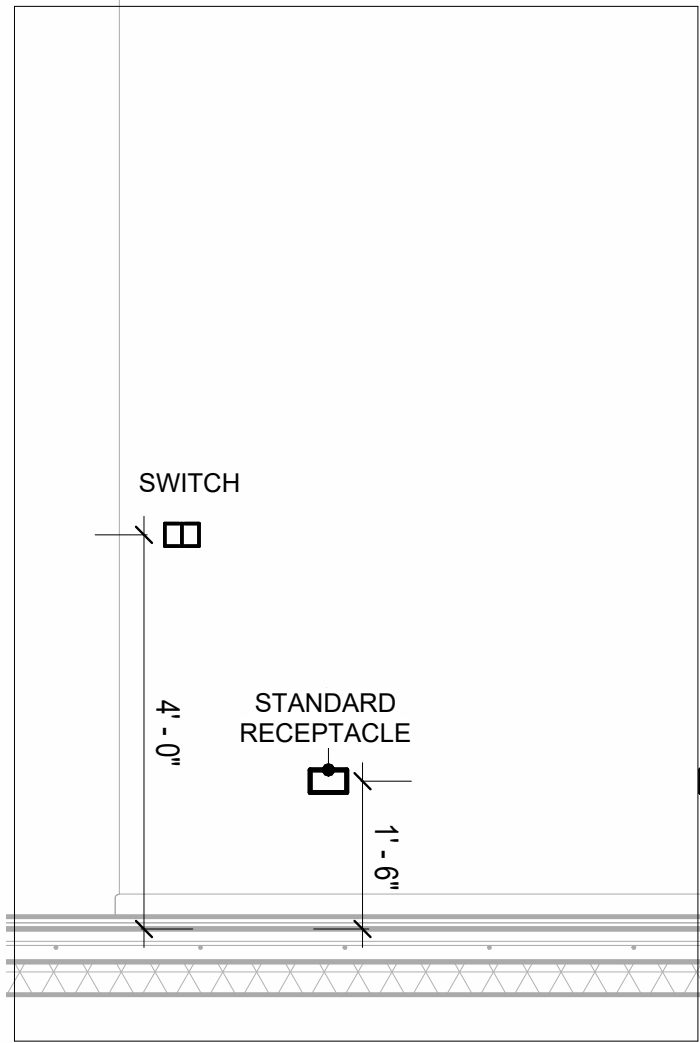
All wiring and cables to be used in the project must also conform to the latest National Electrical Code (NEC), 2015.
7.

All cables and wires used should be rated for their respective loading and should be gauged and conform to the NEC.



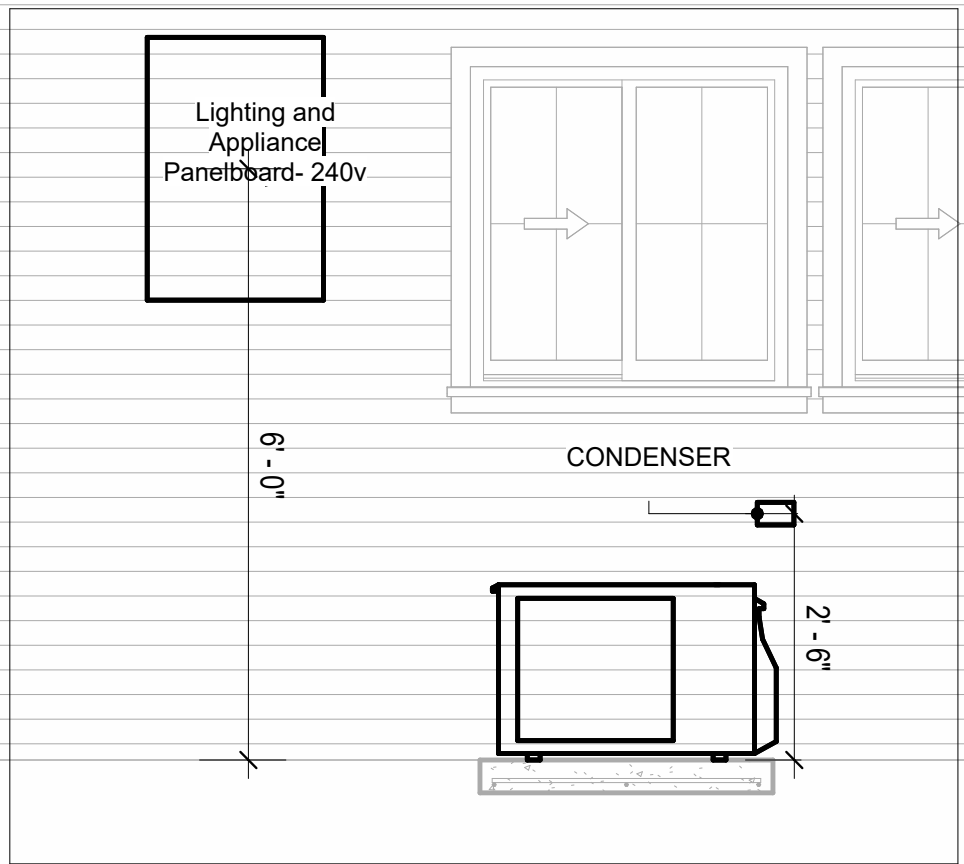
1

3D-KITCHEN



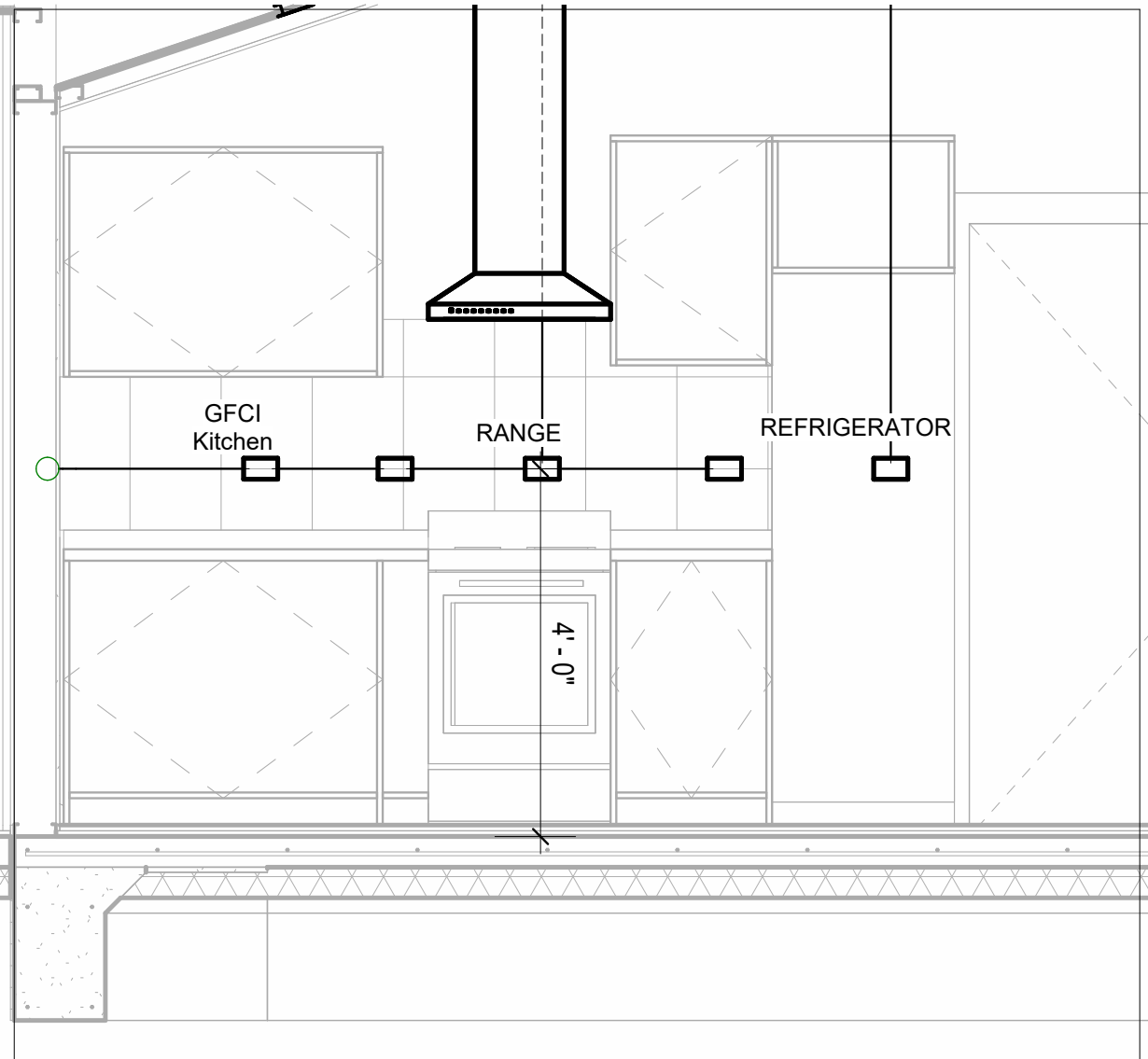
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Section 1
1/2" = 1'-0"



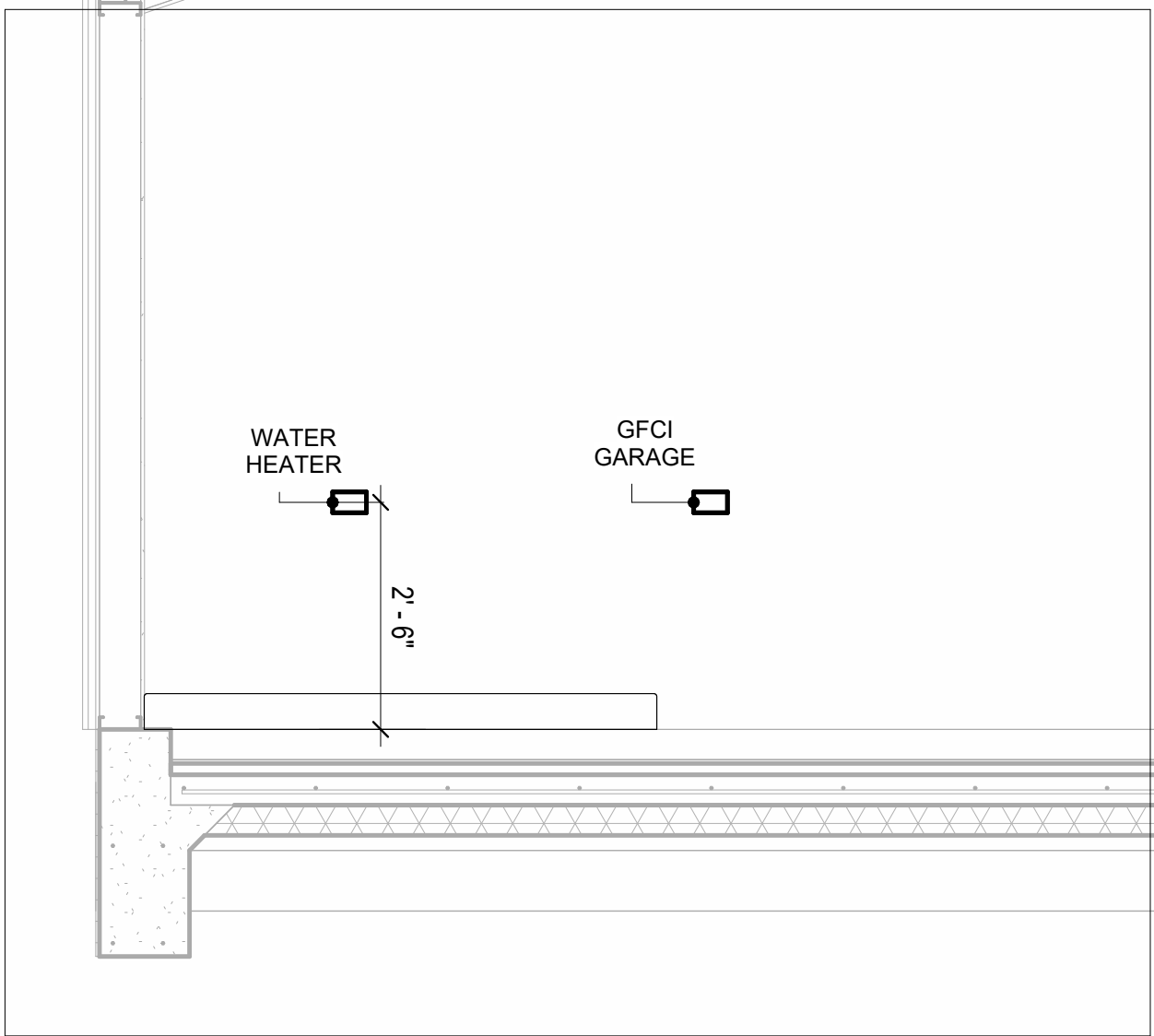
3

Section 2
1/2" = 1'-0"



4

Section 3
1/2" = 1'-0"

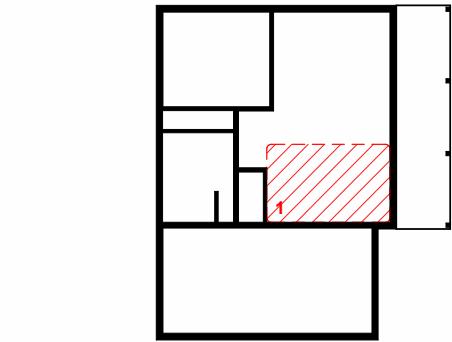


6

Section 4
1/2" = 1'-0"



KEY PLAN



PERSPECTIVE
ANGLE

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

237-EMBER-624-1Bd1Ba
CRAFTSMAN-550

DRAWING NAME

POWER

CLIENT NAME:	Owner
PROJECT NUMBER:	0127_12
DATE:	5/1/2025 2:15:44 AM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

E103

SCALE: As indicated

NOTES: LIGHT

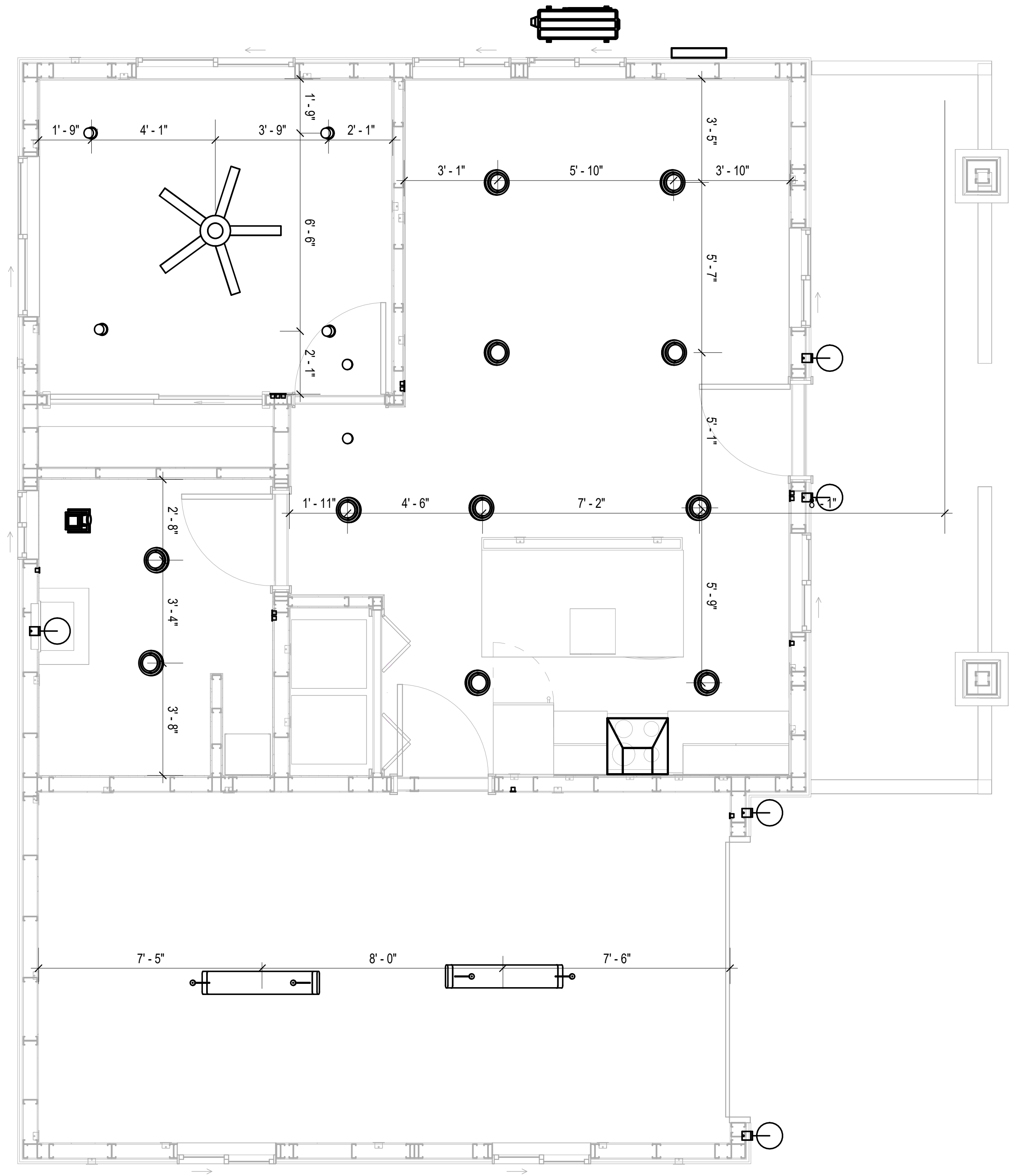
1. LIGHT FIXTURES AND LUMINARIES SHALL CONFORM TO THE NEC, THE IRC AND LOCAL SAFETY & BUILDING CODE.
2. ALL LIGHTING FIXTURES SHOULD CONFORM TO THE DESIGN ELECTRICAL LOAD AND SHALL BE PROPERLY WIRED AND MOUNTED BY QUALIFIED ELECTRICIAN FOLLOWING MANUFACTURERS SPECIFICATIONS.
3. CEILING FANS AND FANS 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 JUCTION BOX SHALL NOT BE LESS THAN 6"X4"X(1.5" OR 3.5" DEEP).

Lighting Device	
Type	Count
Dimmer	1
Fan switch	1
Single Pole	9
Three Way	2

Lighting Fixture			
Lighting Fixture Type	Voltage	Electrical Load	Count
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	11
Pendant Light - Linear - 2 Lamp	120 V/1-64 VA	200 A, 120 V/240 V, Single Phase, 3 Wires	2
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	5



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



KEY PLAN

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

237-EMBER-624-1Bd1Ba
CRAFTSMAN-550

DRAWING NAME

DIMENSION PLAN FOR LIGHT
FIXTURES

CLIENT NAME:	Owner
PROJECT NUMBER:	0127_12
DATE:	5/1/2025 2:15:45 AM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

E104

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

NOTES;

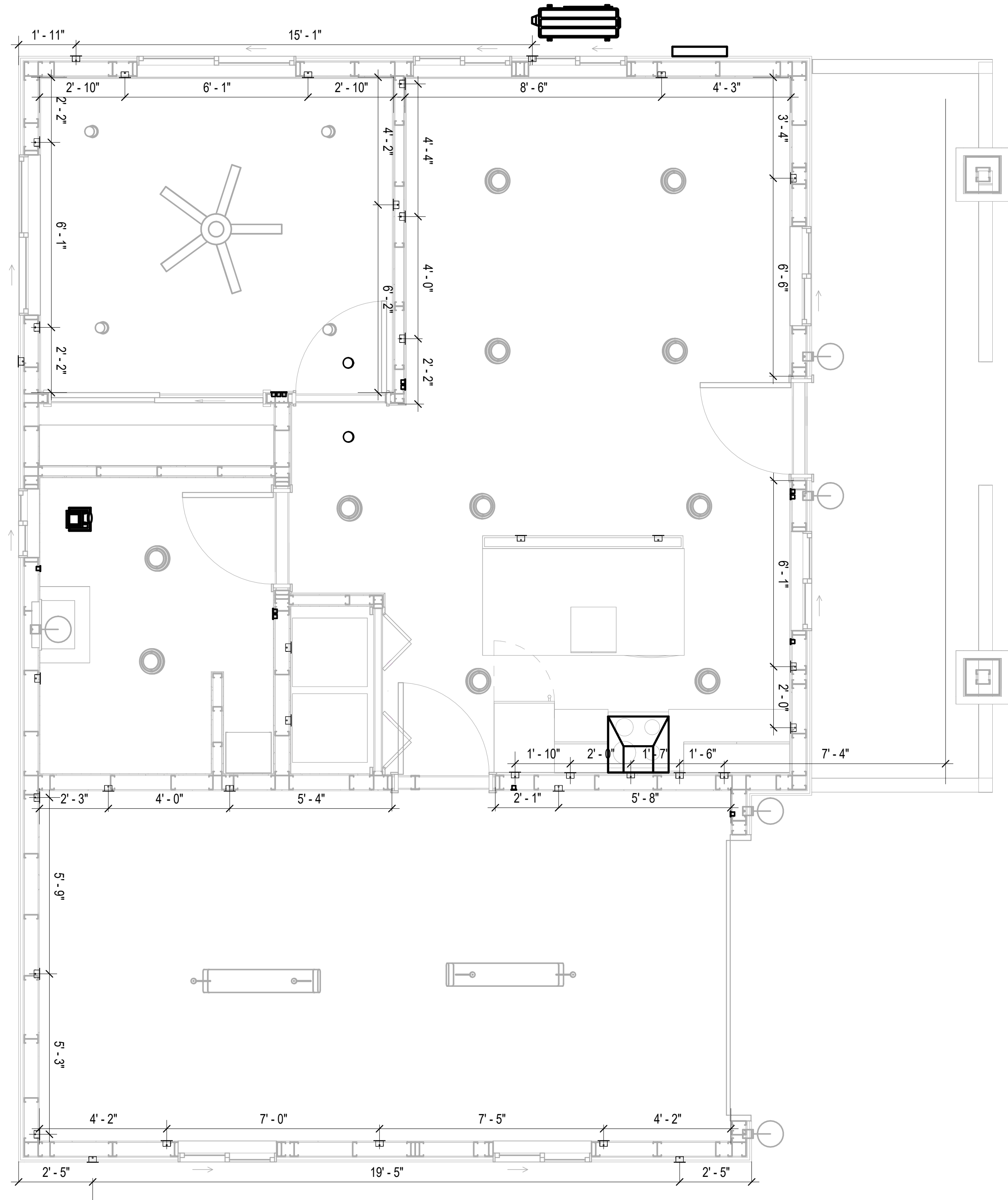
1. VERIFY EQUIPMENT PLUG CONFIGURATION BEFORE PURCHASING RECEPTACLES
2. FOR ALL EQUIPMENT.
3. COORDINATE EXACT LOCATION OF LIGHT FIXTURES, WALL SWITCHES, RECEPTACLES AND OTHER DEVICES WITH ARCHITECTURAL DRAWINGS.
4. USE METALLIC JUNCTION BOX WITH THE GFCI RECEPTACLES, WITH HIGHT VOLTAGE.

Electrical Fixture Schedule (Receptacle)	
Type	Count

CONDENSER	1
DRYER	1
GFCI BATH ROOM	1
GFCI DISHWASHER	1
GFCI GARAGE	8
GFCI Kitchen	4
GFCI OUT DOOR	4
GFCI WASHER	1
OVEN HOOD	1
RANGE	1
REFRIGERATOR	1
Standard	10
STANDARD RECEPTACLE	1
WATER HEATER	1

Electrical Outlet Schedule			
Type	Circuit Number	Electrical Data	Count

GFCI GARAGE		120 V/1-180 VA	1
GFCI Kitchen		120 V/1-180 VA	1
OVEN HOOD		120 V/1-180 VA	1
Standard	2	120 V/1-180 VA	5
GFCI OUT DOOR	3	120 V/1-180 VA	4
CONDENSER	4,6	240 V/2-1500 VA	1
Standard	5	120 V/1-180 VA	5
STANDARD RECEPTACLE	5	120 V/1-180 VA	1
GFCI BATH ROOM	9	120 V/1-180 VA	1
GFCI WASHER	10	120 V/1-1200 VA	1
DRYER	11,13	240 V/2-1500 VA	1
REFRIGERATOR	12	120 V/1-1500 VA	1
RANGE	14,16	240 V/2-1500 VA	1
GFCI Kitchen	15	120 V/1-180 VA	3
GFCI DISHWASHER	17	120 V/1-1200 VA	1
WATER HEATER	18,20	240 V/2-1500 VA	1
GFCI GARAGE	19	120 V/1-180 VA	7



1 DIMENSION FOR FITTINGS

$\frac{3}{8}" = 1'-0"$

KEY PLAN

[illegible]

NOTE:

LEGEND:

PROJECT

237-EMBER-624-1Bd1Ba
CRAFTSMAN-550

DRAWING NAME

DIMENSION PLAN FOR FITTINGS

CLIENT NAME:	Owner
PROJECT NUMBER:	0127_12
DATE:	5/1/2025 2:15:46 AM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

E105

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

SHEET LIST	
SHEET NUMBER	SHEET NAME
P101	NOTE AND SCHEDULE
P102	WATER SUPPLY AND SEWAGE SYSTEM

PIPE COLOR SCHEME	
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	SANITARY VENT
	SANITARY SEWER
	STORM DRAINAGE
	GRAY WATER
	GAS LINE

PLUMBING NOTES

1. 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.
2. 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.
3. 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 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 MINIMUM WATER SUPPLY DEPTH UNDER FLOOR FINISH SHOULD 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 SANITARY SEWER LINES.

ABBREVIATIONS

Ø	DIAMETER
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
V	VENT
VTR	VENT THROUGH ROOF
W	WASTE
WCO	WALL CLEAN OUT
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"	18 FT
ACRYLONITRILE BUTADIENE STYRENE (ABS)	2"	57 FT
ACRYLONITRILE BUTADIENE STYRENE (ABS)	2 1/2"	6 FT
ACRYLONITRILE BUTADIENE STYRENE (ABS)	3"	29 FT
CROSS-LINKED POLYETHYLENE (PEX)	1/2"	57 FT
CROSS-LINKED POLYETHYLENE (PEX)	3/4"	68 FT
POLYVINYL CHLORIDE - RIGID	2"	66 FT

FITTING SCHEDULE		
FITTING	SIZE	QTY
PEX 90 DEG ELBOW	1/2"ø-1/2"ø	1
PEX 90 DEGREE ELBOW	1/2"ø-1/2"ø	12
PEX 90 DEGREE ELBOW	3/4"ø-3/4"ø	4
PEX TEE ELBOW	3/4"ø-3/4"ø-3/4"ø	7
PEX TRANSITION ELBOW	1"ø-3/4"ø	2
PEX TRANSITION ELBOW	3/4"ø-1/2"ø	7
PEX 90 DEG ELBOW	1/2"ø-1/2"ø	3
PEX 90 DEGREE ELBOW	1/2"ø-1/2"ø	8
PEX 90 DEGREE ELBOW	3/4"ø-3/4"ø	4
PEX TEE ELBOW	3/4"ø-3/4"ø-3/4"ø	4
PEX TRANSITION ELBOW	3/4"ø-1/2"ø	5
PVC 90 DEG BEND ELBOW	2"ø-2"ø	7
PVC 90 DEGREE BEND ELBOW	2"ø-2"ø	16
ABS 90 DEGREE BEND ELBOW	1 1/2"ø-1 1/2"ø	2
ABS 90 DEGREE BEND ELBOW	2"ø-2"ø	2
ABS 90 DEGREE BEND ELBOW	3"ø-3"ø	1
ABS 90 DEGREE DOUBLE BEND ELBOW	2"ø-2"ø-2"ø	1
ABS P-TRAP	1 1/2"ø-1 1/2"ø	3
ABS P-TRAP	2"ø-2"ø	1
ABS REDUCER ELBOW	2 1/2"ø-1 1/2"ø	1
ABS REDUCER ELBOW	2"ø-1 1/2"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	2
ABS TEE ELBOW	3"ø-3"ø-3"ø	1
ABS TEE REDUCER ELBOW	2 1/2"ø-2 1/2"ø-1 1/2"ø	1
ABS TEE REDUCER ELBOW	2 1/2"ø-2 1/2"ø-2"ø	1
ABS TEE REDUCER ELBOW	3"ø-2 1/2"ø-3"ø	1
ABS TEE REDUCER ELBOW	3"ø-3"ø-2"ø	1
ABS TRAP P	2"ø-2"ø	1
ABS VENT CAP ELBOW	1 1/2"ø	1
ABS VENT CAP ELBOW	2"ø	2
ABS VENT CAP ELBOW	3"ø	1

FIXTURE CONNECTION SCHEDULE											
FAMILY	W	V	TRAP	CW	HW	QTY	DFU	TOT.	WFU	TOT.	NOTES
DISHWASHER	2"	1-1/2"	1-1/2"	1/2"	1/2"	1		0			DRAIN TO SEWER SEE PLANS
DRYER	N/A	N/A	N/A	N/A	N/A	1		0			
HANGING PIPES CLAMP						14		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 OR SEWER SEE PLANS
WATER CLOSET						1		0			
WATER HEATER	N/A	N/A	N/A	3/4"	3/4"	1		0			

FIXTURE SCHEDULE		
FIXTURE	QTY	DESCRIPTION
DISHWASHER	1	DRAIN TO SEWER SEE PLANS
DRYER	1	
HANGING PIPES CLAMP	14	
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	1	
HOSE BIB	1	
LAUNDRY SWEAT CONNECTOR	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	14		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	14		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



KEY PLAN

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

238-EMBER-624-1Bd1Ba
CRAFTSMAN-550

DRAWING NAME

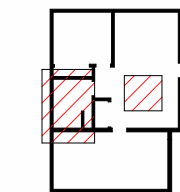
NOTE AND SCHEDULE

CLIENT NAME:	
PROJECT NUMBER:	0127_12
DATE:	4/30/2025 10:25:53 AM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

P101

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

KEY PLAN

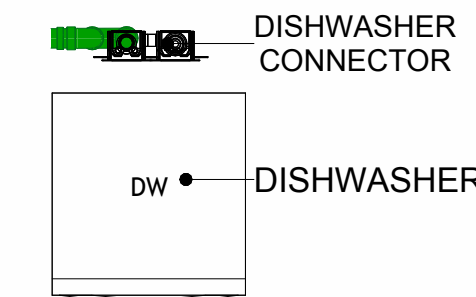


NO.	DESCRIPTION	DATE

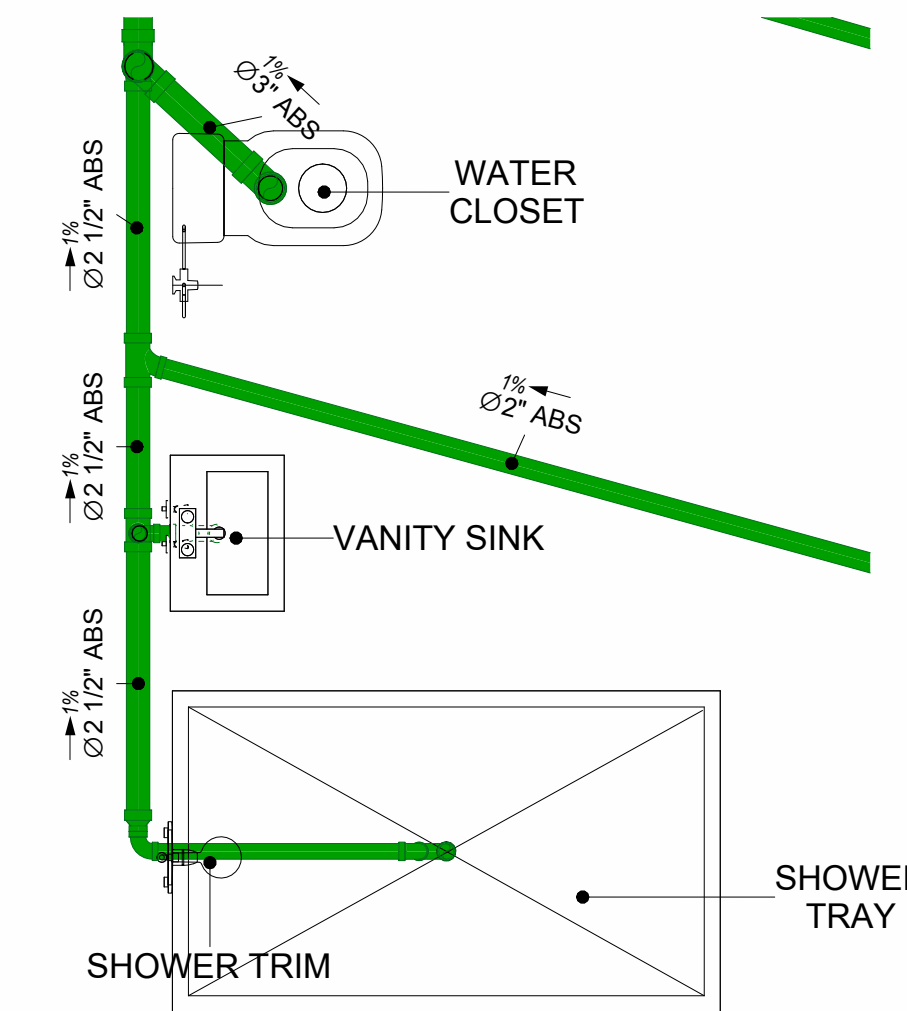
NOTE:

LEGEND:

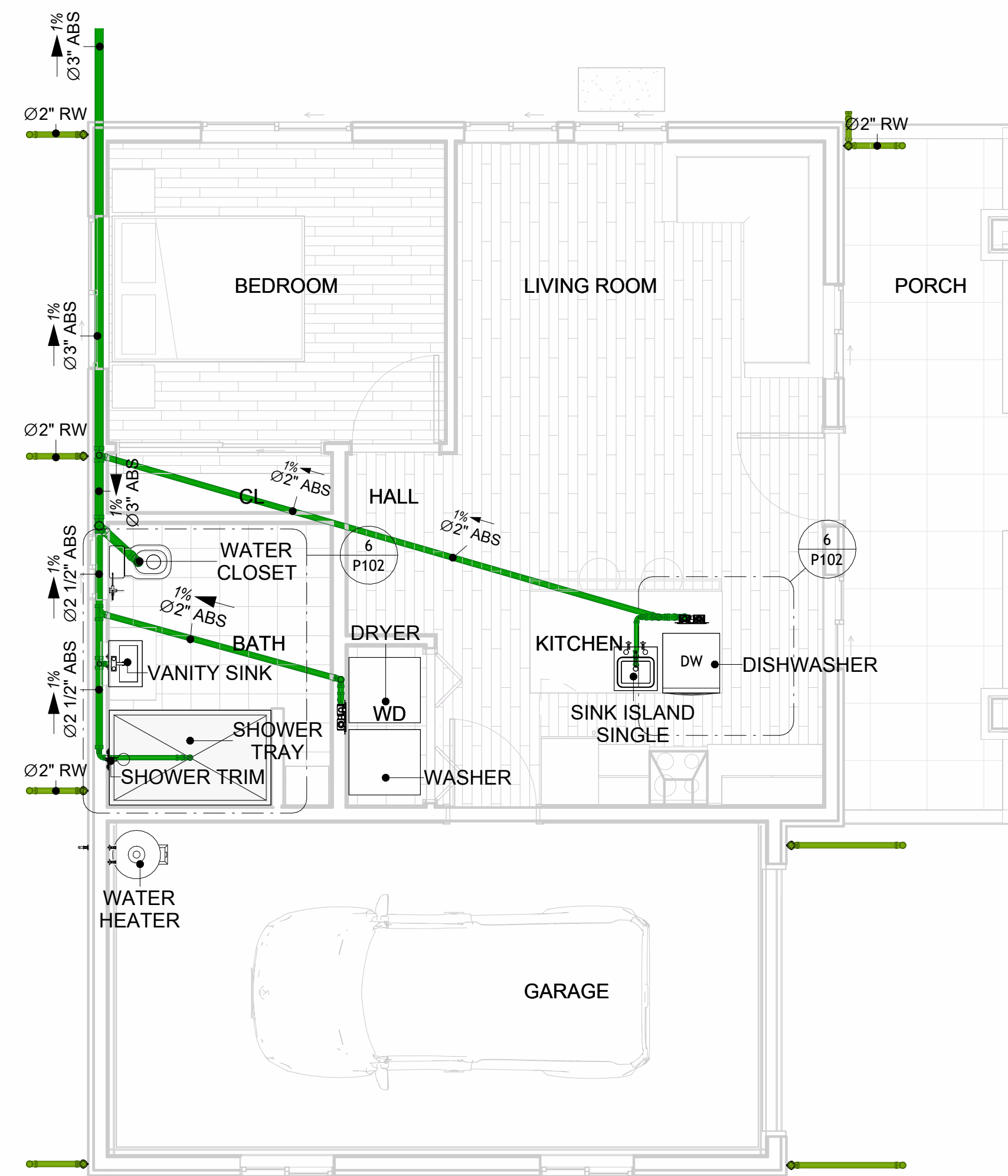
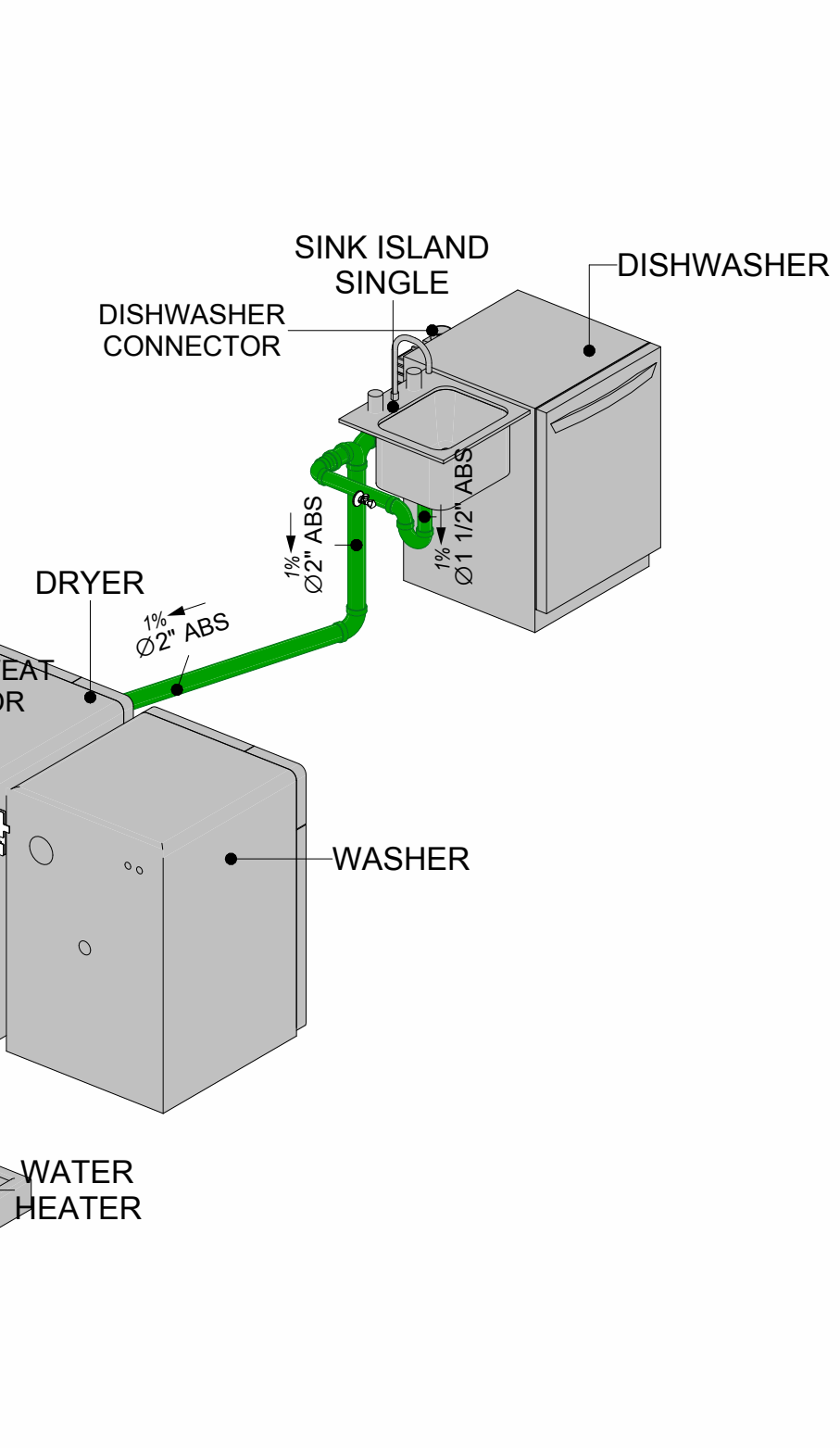
PIPE COLOR SCHEME	
—	DOMESTIC COLD WATER
—	DOMESTIC HOT WATER
—	SANITARY VENT
—	SANITARY SEWER
—	STORM DRAINAGE
—	GRAY WATER
—	GAS LINE



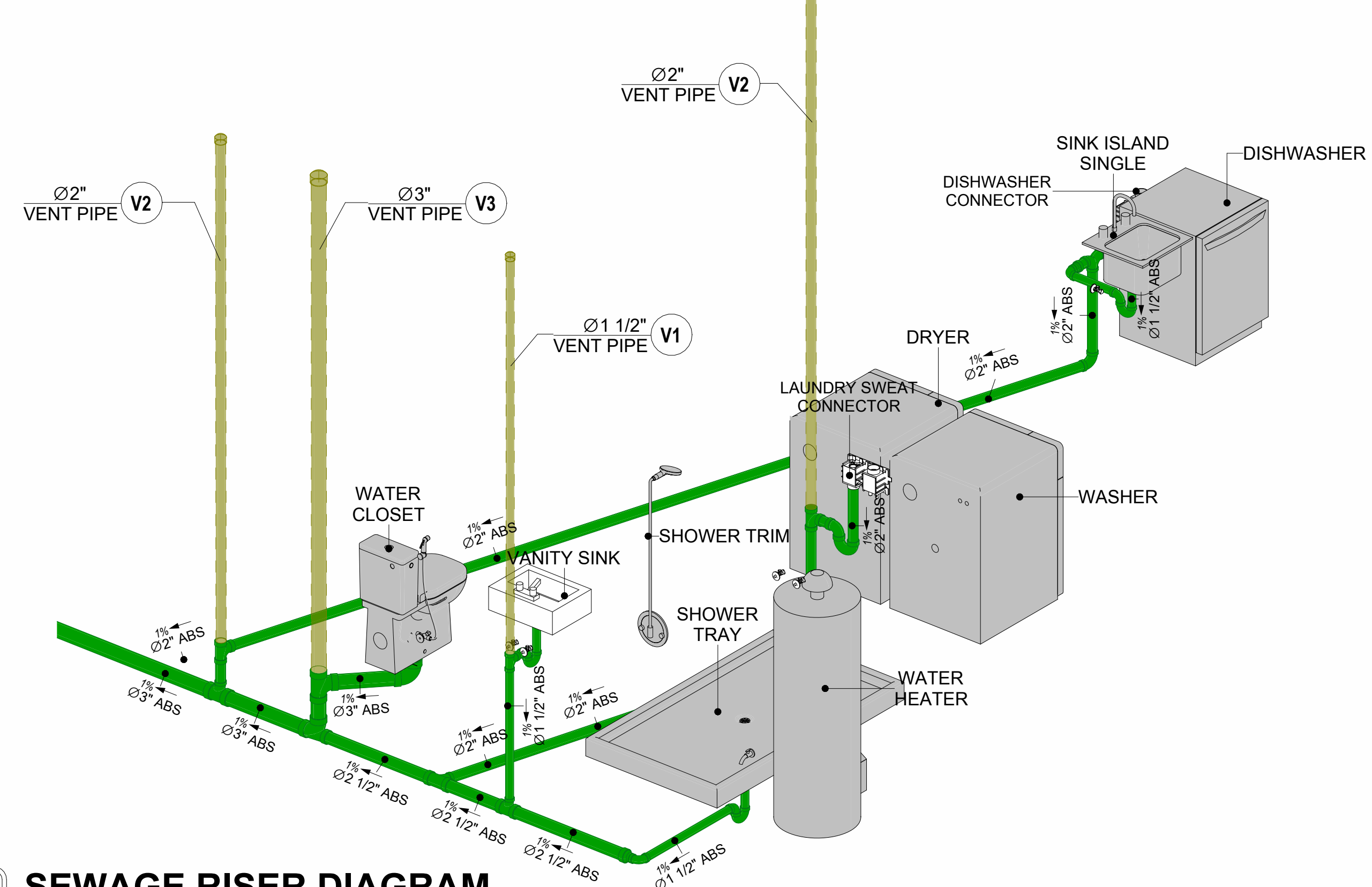
6 KITCHEN SEWAGE
1/2" = 1'-0"



7 BATH SEWAGE
1/2" = 1'-0"

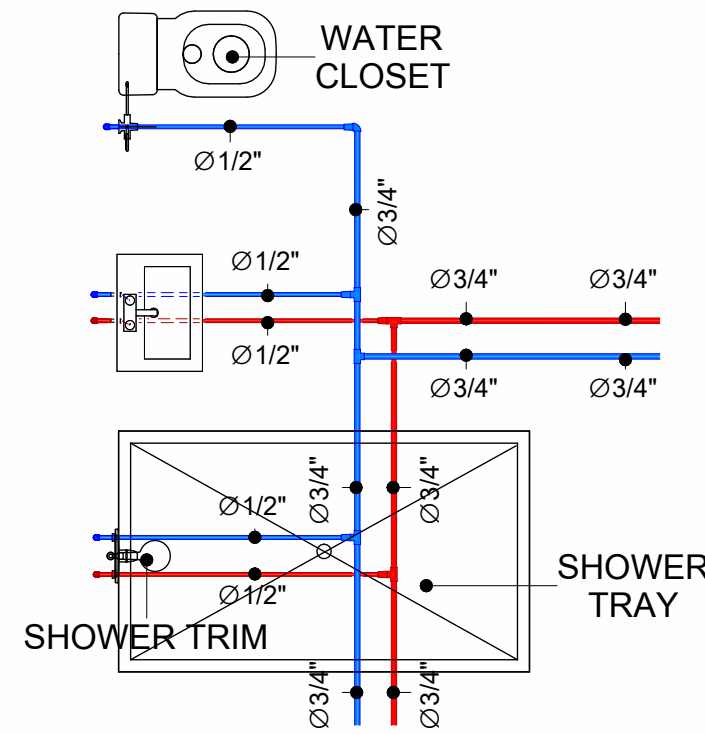
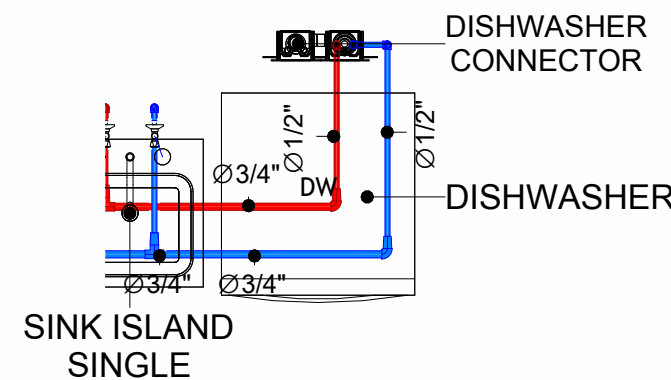


5 OVERALL SANITARY
1/4" = 1'-0"

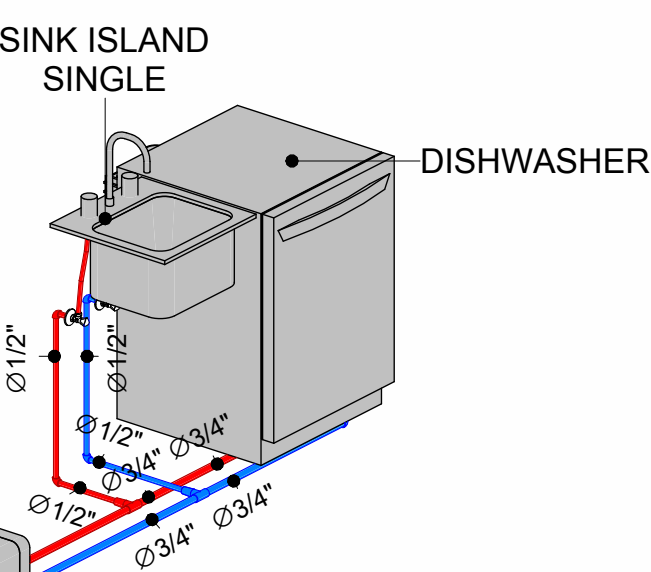


8 SEWAGE RISER DIAGRAM

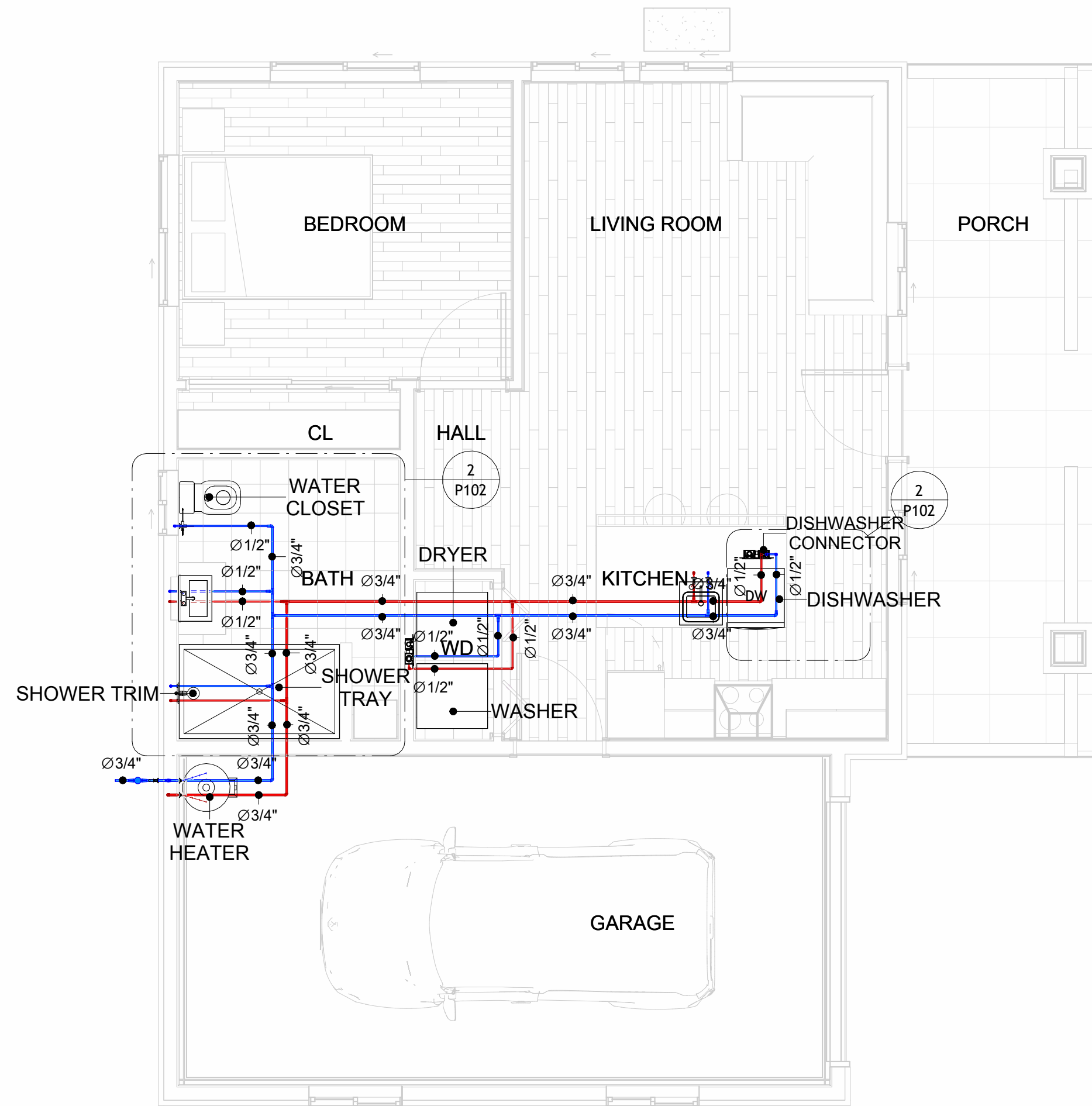
2 KITCHEN WATERSUPPLY
1/2" = 1'-0"



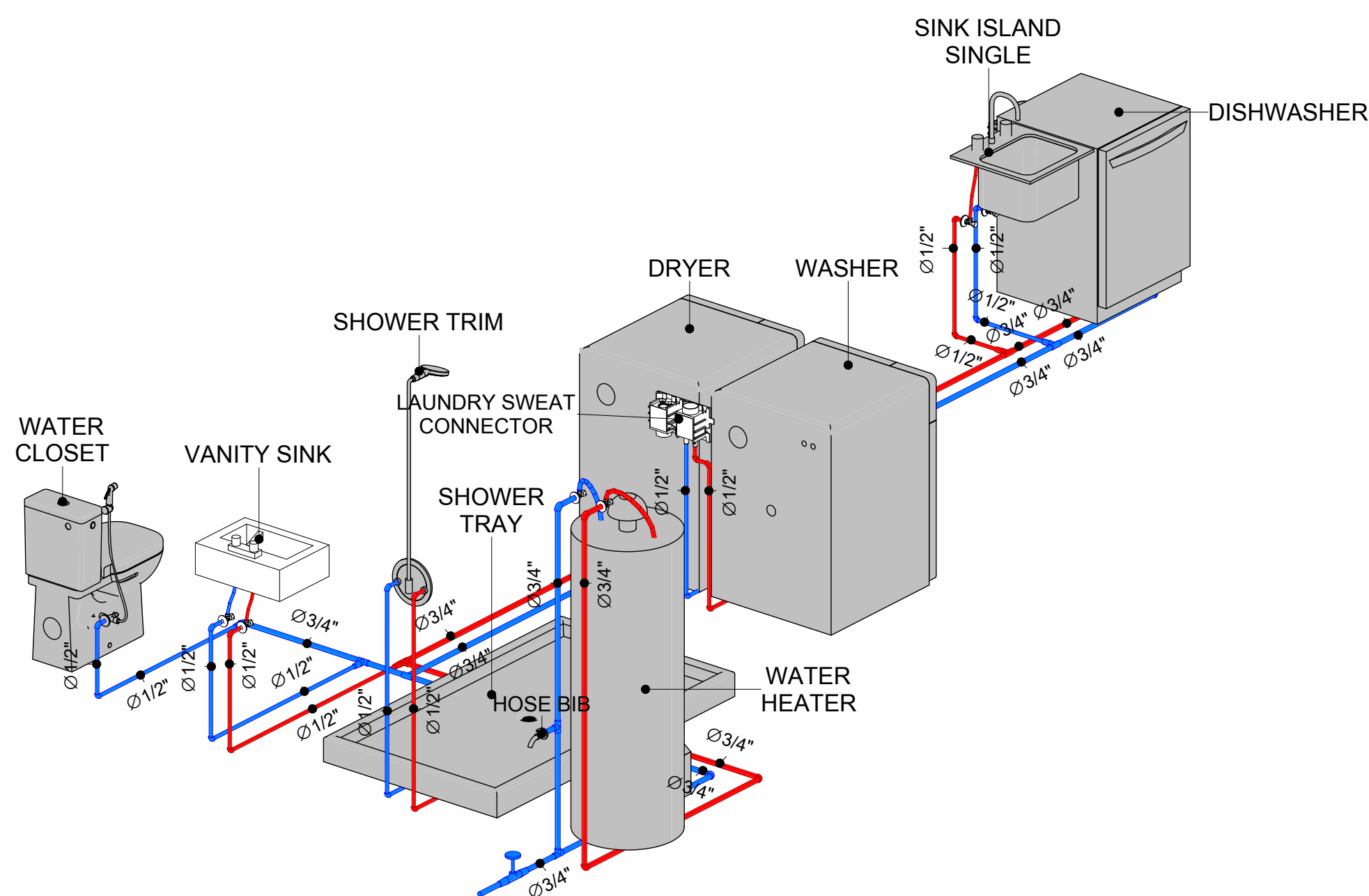
3 BATH WATERSUPPLY
3/8" = 1'-0"



1 OVERALL WATER SUPPLY
1/4" = 1'-0"



4 WATER SUPPLY RISER DIAGRAM



PROJECT

238-EMBER-624-1Bd1Ba
CRAFTSMAN-550

DRAWING NAME

WATER SUPPLY AND
SEWAGE SYSTEM

CLIENT NAME:

PROJECT NUMBER: 0127_12

DATE: 4/30/2025 10:26:26 AM

DESIGNED BY: Designer

DRAWN BY: Author

CHECKED BY: Checker

P102

SCALE: As indicated

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

Universal Requirements - some or all may be required	
1 Site plan	7 Earthquake (fault) evaluation
2 Electrical Supply Connection	8 Foundation Plan - subject to soils
3 Sewer Connection	9 Compliance with local energy codes: insulation home wrap and flashing
4 Fresh Water Supply Connection	10 Engineering for wind speed and snow load.
5 Set Backs	11 State and Local ordinances regarding ADUs
6 Soils Evaluation	12 Local Architect and/or Engineer may be necessary



Ember-1Bd1Ba-Craftsman

MATERIAL SHOPPING LIST

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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



Ember-1Bd1Ba-Craftsman							
ARCHITECTURAL MATERIAL SHOPPING LIST							
No.	Item	Type	Unit	Quantity	Unit Price	Total	Description
APPLIANCES							
1	Refrigerator		PCS	1			
2	Range		PCS	1			
3	Washer		PCS	2			
4	Dryer		PCS	1			
5	Dish Washer		PCS	0			
6	Oven		PCS	0			
7	Microwave		PCS	0			
CASEWORKS							
1	Kitchen Cabinet		FT	16.44			
2	Laundry Cabinet		FT	0			
3	Vanity Cabinet		FT	2.5			
4	Medicine Cabinet		PCS	1			
5	Kitchen countertop		SF	35.29			
6	Laundry Countertop		PCS	0			
7	Bathroom Countertop		SF	0			
8	Island		FT	0			
9	Peninsula		FT	0			
10	Closets		SF	55.5			
CEILING							
1	Ceiling Board	Dry Wall	SF	629			
2	Dry Wall Fastener	Screw	PCS	1100			
3	Vapor Retarder	Polyethylene film	SF	803			
4	Vapor Retarder Fastener	Nails with washer heads	PCS	2410			
5	Ceiling Board (MRD)	Moisture resistant drywall	SF	80			
6	MRD Fastener		PCS	140			
7	Ceiling Board	Marine Plywood	SF	95			
8	Marine Plywood Fastener	Screw	PCS	166			
9	Dry Wall Tape		FT	402			
FLOORING							
1	Main Living Space		SF	322.3			
2	Bathroom		SF	72.3			
3	Bedrooms		SF	139.3			
4	Garage		SF	249			
5	Porch		SF	147			
STRUCTURE							
1	Foundation		SF	1024.8			
WALLS EXTERIOR							
1	Exterior-Grade Plywood Horizontal Siding		SF	1087			
2	Exterior-Grade Plywood Fastener & Self-drilling screws(100/pkt)		PKT	10.87			
3	Wall Shteathing (OSB)		SF	1087			
4	Shteathing Fastener	Self-drilling screws(100/pkt)	PKT	10.87			
5	Wall Homewrap		SF	1087			
6	Homewrap Fastener	Stapled fastener (200/pkt)	PKT	4.1306			
7	Furring Strip		PCS	135.875			
8	Furring Strip Fastener	Self-drilling screws(100/pkt)	PKT	10.87			
9	Wall Paint		SF	1087			
10	Stone Copping	Masonry stone	SF	0			
11	Stone Veneer	Masonry stone	SF	0			
12	Mortar for Stone Veneer		SF	0			
13	Wall Insulation		SF	3743			
WALLS INTERIOR							
1	Cementitious Backer Board		SF	576			
2	Kerdi membrane		SF	576			
3	Kerdi membrane Fastener		SF	576			
4	Wall Ceramic Tile		SF	576			
5	Drywall Board		SF	1668			
6	Drywall Fastener	Self-drilling screws(100/pkt)	PKT	16.68			
7	Wall Paint		SF	1668			
8	Drywall Tape		FT	313			
9	Wall Sweep		FT	125			

ARCHITECTURAL BOM



🏠 DOORS							
1	Exterior Swinging	3' - 0" X 6'-8"	PCS	1			
2	Garage Door	9' - 0" X 7'-0"	PCS	1			
3	Bifold	5' - 0" X 6'-8"	PCS	1			
4	Interior Sliding	7' - 0" X 6'-8"	PCS	1			
5	Interior Swinging	3' - 0" X 6'-8"	PCS	3			
6	Exterior Door Trim		FT	40			
7	Interior Door Trim		FT	201			
8	Entry Lock set			2			
9	Privacy Lock set			3			
10	Passage Lock set			2			
🏠 WINDOWS							
1	Sliding	3' - 3" X 3'-3"	PCS	6			
2	Sliding	5' - 3" X 3'-3"	PCS	2			
3	Sliding	2' - 3" X 1'-9"	PCS	1			
4	Exterior Window Trim		FT	121			
5	Interior Window Trim		FT	121			
🏠 ROOF							
1	Roof Covering		SF	1321.0			
2	Roof Covering Fastener		PCS	661			
3	Roof Felt Paper		SF	1321.0			
4	Roof Felt Paper Fastener		PCS	3963.0			
5	Roof Sheathing		SF	1321			
6	Roof Sheathing Fastener		PCS	10568			
7	Batten		FT	0.0			
8	Batten Fastener		PCS	0.0			
9	Soffit		SF	257.0			
10	Soffit Fastener		PCS	128.5			
11	Fascia		FT	152.0			
12	Fascia board fastener		PCS	76			
13	Roof Insulation		SF	1321.0			

Ember-1Bd1Ba-Craftsman

ELECTRICAL MATERIAL SHOPPING LIST

No.	Item	Type	Unit	Quantity	Unit Price	Total	Description
⬇ LIGHTING FIXTURES							
1	Kitchen Ceiling Light		PCS	4			
2	Kitchen Wall Mounted Light		PCS	0			
3	Exterior Wall Mounted Light		PCS	4			
4	Livingroom Ceiling Light With Fan		PCS	0			
5	Bedroom Ceiling Light With Fan		PCS	1			
6	Dining Ceiling Light		PCS	0			
7	Bath Wall Mounted Light		PCS	1			
8	Bathroom Ceiling Light		PCS	2			
9	Livingroom Ceiling Light		PCS	4			
10	Bedroom Ceiling Light		PCS	4			
11	Hall & Entry Ceiling Light		PCS	1			
12	Closet Ceiling Light		PCS	2			
13	Smoke Detector		PCS	2			
⬇ ELECTRICAL FITTINGS							
14	Standard Receptacle 120V	20A	PCS	11			
15	GFCI Receptacle 120V	20 A	PCS	18			
16	GFCI Receptacle 240V	30 A	PCS	3			
17	GFCI Receptacle 240V	50 A	PCS	1			
18	GFCI Receptacle 240V	60 A	PCS	1			
19	Fan Switch		PCS	1			
20	Single Pole Switch		PCS	9			
21	Three Way Switch		PCS	2			
22	Dimmer Switch		PCS	1			
⬇ ELECTRICAL CONDUITS & WIRING							
23	ROMEX 14 AWG	14/2/W/ground	FT	65			
24	ROMEX 12 AWG	12/3/W/ground	FT	0			
25	ROMEX 12 AWG	12/2/W/ground	FT	459			
26	ROMEX 10 AWG	10/3/W/ground	FT	96.62			
27	ROMEX 10 AWG	10/2/W/ground	FT	93.26			
28	Romex 8 AWG	8/3/W/ground	FT	33.98			
29	Romex 8 AWG	8/2/W/ground	FT	0			
30	ROMEX 6 AWG	6/3/W/ground	FT	15			
31	Bare Copper Ground Wire 6 AWG		FT	0			
⬇ ELECTRICAL BOXES & CIRCUTES							
32	Panelboard -240V 1 Phase MLO	200 AMP	PCS	1			
33	Circuit breaker	15 A	PCS	1			
34	Circuit breaker	20 A	PCS	12			
36	Circuit breaker	30 A	PCS	3			
37	Circuit breaker	50 A	PCS	1			
39	Circuit breaker	60 A	PCS	1			
40	Single Gang Switch Box		PCS	3			
41	Double Gang Switch Box		PCS	2			
42	Triple Gang Switch Box		PCS	1			
43	Pull Box	#1/4	PCS	18			
44	Receptacle Box		PCS	34			

PLUMBING BOM



Ember-1Bd1Ba-Craftsman							
PLUMBING SYSTEM MATERIAL SHOPPING LIST							
No.	Item	Type	Unit	Quantity	Unit Price	Total	Description
PLUMBING FIXTURES & ACCESSORIES							
1	Bath Tub (Alcove Tub)		PCS	0			
2	Kitchen Sink		PCS	1			
3	Kitchen Faucets		PCS	1			
4	Vanity Sink		PCS	1			
5	Bath room Faucets		PCS	1			
6	Water Closet		PCS	1			
7	Shower Trim		PCS	1			
8	Shower Tray		PCS	1			
9	Water Heater		PCS	1			
10	Hose Bib		PCS	1			
11	Shutoff Valve		PCS	6			
12	Hanging pipe clamp		PCS	14			
13	Globe 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 2 1/2"	FT	6			
2	ABS (Acrylonitrile Butadiene Styrene) Pipes	ø 1 1/2"	FT	18			
3	ABS (Acrylonitrile Butadiene Styrene) Pipes	ø 2"	FT	57			
4	ABS (Acrylonitrile Butadiene Styrene) Pipes	ø 3"	FT	29			
5	PEX (Cross-linked polyethylene) Pipes	ø 1/2"	FT	57			
6	PEX (Cross-linked polyethylene) Pipes	ø 3/4"	FT	68			
7	Polyvinyl Chloride - Rigid	1 1/2"	FT	0			
8	Polyvinyl Chloride - Rigid	2"	FT	66			
PIPE FITTINGS							
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 90 Degree Double Bend Elbow	2"ø-2"ø-2"ø	PCS	1			
5	ABS P-Trap	1 1/2"ø-1 1/2"ø	PCS	3			
6	ABS P-Trap	2"ø-2"ø	PCS	1			
7	ABS Reducer Elbow	2 1/2"ø-1 1/2"ø	PCS	1			
8	ABS Reducer Elbow	2"ø-1 1/2"ø	PCS	1			
9	ABS TEE Elbow	1 1/2"ø-1 1/2"ø-1 1/2"ø	PCS	1			
10	ABS TEE Elbow	2"ø-2"ø-2"ø	PCS	2			
11	ABS TEE Elbow	3"ø-3"ø-3"ø	PCS	1			
12	ABS Tee Reducer Elbow	2 1/2"ø-2 1/2"ø-1 1/2"ø	PCS	1			
13	ABS Tee Reducer Elbow	2 1/2"ø-2 1/2"ø-2"ø	PCS	1			
14	ABS Tee Reducer Elbow	3"ø-2 1/2"ø-3"ø	PCS	1			
15	ABS Tee Reducer Elbow	3"ø-3"ø-2"ø	PCS	1			
16	ABS Trap P	2"ø-2"ø	PCS	1			
17	ABS Vent Cap Elbow	1 1/2"ø	PCS	1			
18	ABS Vent Cap Elbow	2"ø	PCS	2			
19	ABS Vent Cap Elbow	3"ø	PCS	1			
20	PEX 90 Deg Elbow	1/2"ø-1/2"ø	PCS	1			
21	PEX 90 Degree Elbow	1/2"ø-1/2"ø	PCS	12			
22	PEX 90 Degree Elbow	3/4"ø-3/4"ø	PCS	4			
23	PEX Tee Elbow	3/4"ø-3/4"ø-3/4"ø	PCS	7			
24	PEX Transition Elbow	1"ø-3/4"ø	PCS	2			
	PEX Transition Elbow	3/4"ø-1/2"ø	PCS	7			
	PEX 90 Deg Elbow	1/2"ø-1/2"ø	PCS	3			
	PEX 90 Degree Elbow	1/2"ø-1/2"ø	PCS	8			
	PEX 90 Degree Elbow	3/4"ø-3/4"ø	PCS	4			
	PEX Tee Elbow	3/4"ø-3/4"ø-3/4"ø	PCS	4			
	PEX Transition Elbow	3/4"ø-1/2"ø	PCS	5			
	PVC 90 Deg Bend Elbow	2"ø-2"ø	PCS	7			
	PVC 90 Degree Bend Elbow	2"ø-2"ø	PCS	16			

HVAC BOM

Ember-1Bd1Ba-Craftsman							
HVAC SYSTEM MATERIAL SHOPPING LIST							
No.	Item	Type	Unit	Quantity	Unit Price	Total	Description
HVAC_DUCTS							
1	PIPE (REFRIGERANT LINE)	3/4" (Ø)	FT	80.91			
2	PIPE (REFRIGERANT LINE)	3/8" (Ø)	FT	105.69			
3	DRAYER HOSE	4" (Ø)	FT	8			
4	FLEX DUCT ROUND	4" (Ø)	FT	10			
DUCT FITTINGS & ACCESSORIES							
5	ELBOW (REFRIGERANT LINE)	3/4"Ø-3/4"Ø	PCS	25			
6	ELBOW (REFRIGERANT LINE)	3/8"Ø-3/8"Ø	PCS	19			
7	TEE (REFRIGERANT LINE)	3/4"Ø-3/4"Ø-3/4"Ø	PCS	3			
8	TEE (REFRIGERANT LINE)	3/8"Ø-3/8"Ø-3/8"Ø	PCS	2			
9	TRANSITION(REFRIGERANT LINE)	3/4"Ø-1/2"Ø	PCS	4			
10	TRANSITION(REFRIGERANT LINE)	3/4"Ø-5/8"Ø	PCS	3			
11	TRANSITION(REFRIGERANT LINE)	3/8"Ø-1/4"Ø	PCS	1			
12	TRANSITION(REFRIGERANT LINE)	3/8"Ø-3/8"Ø	PCS	1			
13	ROUND TRANSITION(ANGLE)	45 DEGREE	PCS	5			
HVAC_EQUIPMENTS							
14	AIR HANDLING UNIT	WALL MOUNTED	PCS	3			
15	CONDENSER	OUTDOOR UNIT	PCS	1			
16	EXHAUST FAN	75 CFM	PCS	1			
17	ROOF VENT	3"(Ø)	PCS	1			
18	HOOD-WALL: VENT	HOOD-WALL: VENT	PCS	1			
19	DRAYER: VENT	DRAYER: VENT	PCS	1			

Table Of Content

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ELECTRICAL BOM



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

ELECTRICAL BOM





ELECTRICAL FITTINGS							
#	Item	Type	Description,Manufacturer,SKU	Unit	Quantity	Unit Price	Total
1	Standard Receptacle 120V	20A		PCS	11		
2	GFCI Receptacle 120V	20 A		PCS	18		
3	GFCI Receptacle 240V	30 A		PCS	3		
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	9		
8	Three Way Switch			PCS	2		
9	Dimmer Switch			PCS	1		
10							
11							
12							
13							
14							
15							

ELECTRICAL BOM



ELECTRICAL CONDUITS & WIRING							
#	Item	Type	Description,Manufacturer,SKU	Unit	Quantity	Unit Price	Total
1	ROMEX 14 AWG	14/2/W/ground		FT	65		
3	ROMEX 12 AWG	12/3/W/ground		FT	0		
4	ROMEX 12 AWG	12/2/W/ground		FT	459		
6	ROMEX 10 AWG	10/3/W/ground		FT	96.62		
8	ROMEX 10 AWG	10/2/W/ground		FT	93.26		
9	Romex 8 AWG	8/3/W/ground		FT	33.98		
10	Romex 8 AWG	8/2/W/ground		FT	0		
11	ROMEX 6 AWG	6/3/W/ground		FT	15		
12	Bare Copper Ground Wire 6 AWG			FT			
13							
14							
15							
16							

ELECTRICAL BOM



ELECTRICAL BOXES & CIRCUTES							
#	Item	Type	Description,Manufacturer,SKU	Unit	Quantity	Unit Price	Total
1	Panelboard -240V 1 Phase MLO	200 AMP		PCS	1		
2	Circuit breaker	15 A		PCS	1		
3	Circuit breaker	20 A		PCS	12		
4	Circuit breaker	30 A		PCS	3		
5	Circuit breaker	50 A		PCS	1		
6	Circuit breaker	60 A		PCS	1		
7	Single Gang Switch Box			PCS	3		
8	Double Gang Switch Box			PCS	2		
9	Triple Gang Switch Box			PCS	1		
10	Pull Box	#1/4		PCS	18		
11	Receptacle Box			PCS	34		
12							
13							
14							
15							

HVAC BOM



HVAC_DUCTS 01

#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	PIPE (REFRIGERANT LINE)	3/4" (Ø)		FT	80.91		
2	PIPE (REFRIGERANT LINE)	3/8" (Ø)		FT	105.69		
3	DRAYER HOSE	4" (Ø)		FT	8		
4	FLEX DUCT ROUND	4" (Ø)		FT	10		
5							
6							
7							
8							
9							
10							
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16							

HVAC BOM

DUCT FITTINGS & ACCESSORIES							
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	ELBOW (REFRIGERANT LINE)	3/4"Ø-3/4"Ø		PCS	25		
2	ELBOW (REFRIGERANT LINE)	3/8"Ø-3/8"Ø		PCS	19		
3	TEE (REFRIGERANT LINE)	3/4"Ø-3/4"Ø-3/4"Ø		PCS	3		
4	TEE (REFRIGERANT LINE)	3/8"Ø-3/8"Ø-3/8"Ø		PCS	2		
5	TRANSITION(REFRIGERANT LINE)	3/4"Ø-1/2"Ø		PCS	4		
6	TRANSITION(REFRIGERANT LINE)	3/4"Ø-5/8"Ø		PCS	3		
7	TRANSITION(REFRIGERANT LINE)	3/8"Ø-1/4"Ø		PCS	1		
8	TRANSITION(REFRIGERANT LINE)	3/8"Ø-3/8"Ø		PCS	1		
9	ROUND TRANSITION(ANGLE)	45 DEGREE		PCS	5		
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16							

HVAC BOM

			HVAC_EQUIPMENTS				
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	AIR HANDLING UNIT	WALL MOUNTED		PCS	3		
2	CONDENSER	OUTDOOR UNIT		PCS	1		
3	EXHAUST FAN	75 CFM		PCS	1		
4	ROOF VENT	3"(Ø)		PCS	1		
5	HOOD-WALL: VENT	HOOD-WALL: VENT		PCS	1		
6	DRAYER: VENT	DRAYER: VENT		PCS	1		
7							
8							
9							
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14							

PLUMBING BOM



 PLUMBING FIXTURES & ACCESSORIES							
#	Item	Type	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		
4	Vanity Sink			PCS	1		
5	Bath room faucets			PCS	1		
6	Water Closet			PCS	1		
7	Shower Trim			PCS	1		
8	Shower Tray			PCS	1		
9	Water Heater			PCS	1		
10	Hose Bib			PCS	1		
11	Shutoff Valve			PCS	6		
12	Hanging pipe clamp			PCS	14		
13	Globe Valve			PCS	1		
14	Dishwasher Supply Single Connector			PCS	1		
15	Dishwasher Sewage Single Connector			PCS	1		
16	Laundry Sweat Connector			PCS	1		

PLUMBING BOM



 SANITARY & PLUMBING PIPES							
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	ABS (Acrylonitrile Butadiene Styrene) Pipes	ø 2 1/2"		FT	6		
2	ABS (Acrylonitrile Butadiene Styrene) Pipes	ø 1 1/2"		FT	18		
3	ABS (Acrylonitrile Butadiene Styrene) Pipes	ø 2"		FT	57		
4	ABS (Acrylonitrile Butadiene Styrene) Pipes	ø 3"		FT	29		
5	PEX (Cross-linked polyethylene) Pipes	ø 1/2"		FT	57		
6	PEX (Cross-linked polyethylene) Pipes	ø 3/4"		FT	68		
7	PEX (Cross-linked polyethylene) Pipes	ø 1"		FT	0		
8	PVC Pipes Sch.80 - Rigid	ø 1 1/2"		FT	0		
9	PVC Pipes Sch.80 - Rigid	ø 2"		FT	66		
10	PVC Pipes Sch.80 - Rigid	ø 3"		FT	0		
11	Flex Pipe Round	ø 1/2"		FT	6		
12	Flex Pipe Round	ø 3/4"		FT	0		
13	Flex Pipe Round	ø 1"		FT	0		
14							
15							

PLUMBING BOM



PIPE FITTINGS 01							
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	PEX 90 Deg Elbow	1/2"Ø-1/2"Ø		PCS	1		
2	PEX 90 Degree Elbow	1/2"Ø-1/2"Ø		PCS	12		
3	PEX 90 Degree Elbow	3/4"Ø-3/4"Ø		PCS	4		
4	PEX Tee Elbow	3/4"Ø-3/4"Ø-3/4"Ø		PCS	7		
5	PEX Transition Elbow	1"Ø-3/4"Ø		PCS	2		
6	PEX Transition Elbow	3/4"Ø-1/2"Ø		PCS	7		
7	PEX 90 Deg Elbow	1/2"Ø-1/2"Ø		PCS	3		
8	PEX 90 Degree Elbow	1/2"Ø-1/2"Ø		PCS	8		
9	PEX 90 Degree Elbow	3/4"Ø-3/4"Ø		PCS	4		
10	PEX Tee Elbow	3/4"Ø-3/4"Ø-3/4"Ø		PCS	4		
11	PEX Transition Elbow	3/4"Ø-1/2"Ø		PCS	5		
12	PVC 90 Deg Bend Elbow	2"Ø-2"Ø		PCS	7		
13	PVC 90 Degree Bend Elbow	2"Ø-2"Ø		PCS	16		
14	ABS 90 Degree Bend Elbow	1 1/2"Ø-1 1/2"Ø		PCS	2		
15	ABS 90 Degree Bend Elbow	2"Ø-2"Ø		PCS	2		

PLUMBING BOM



 PIPE FITTINGS 02							
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	ABS 90 Degree Bend Elbow	3"Ø-3"Ø		PCS	1		
2	ABS 90 Degree Double Bend Elbow	2"Ø-2"Ø-2"Ø		PCS	1		
3	ABS P-Trap	1 1/2"Ø-1 1/2"Ø		PCS	3		
4	ABS P-Trap	2"Ø-2"Ø		PCS	1		
5	ABS Reducer Elbow	2 1/2"Ø-1 1/2"Ø		PCS	1		
6	ABS Reducer Elbow	2"Ø-1 1/2"Ø		PCS	1		
7	ABS TEE Elbow	1 1/2"Ø-1 1/2"Ø-1 1/2"Ø		PCS	1		
8	ABS TEE Elbow	2"Ø-2"Ø-2"Ø		PCS	2		
9	ABS TEE Elbow	3"Ø-3"Ø-3"Ø		PCS	1		
10	ABS Tee Reducer Elbow	2 1/2"Ø-2 1/2"Ø-1 1/2"Ø		PCS	1		
11	ABS Tee Reducer Elbow	2 1/2"Ø-2 1/2"Ø-2"Ø		PCS	1		
12	ABS Tee Reducer Elbow	3"Ø-2 1/2"Ø-3"Ø		PCS	1		
13	ABS Tee Reducer Elbow	3"Ø-3"Ø-2"Ø		PCS	1		
14	ABS Trap P	2"Ø-2"Ø		PCS	1		
15	ABS Vent Cap Elbow	1 1/2"Ø		PCS	1		
16	ABS Vent Cap Elbow	2"Ø		PCS	2		
17	ABS Vent Cap Elbow	3"Ø		PCS	1		

ARCHITECTURAL BOM



APPLIANCES							
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	Refrigerator			PCS	1		
2	Range			PCS	1		
3	Washer Front Load	Stackable		PCS	2		
4	Dryer Front Load	Stackable		PCS	1		
5	Dish Washer			PCS	0		
6	Oven			PCS	0		
7	Microwave			PCS	0		
8							
9							
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16							

ARCHITECTURAL BOM



CASEWORKS 01							
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	Kitchen Cabinet			FT	16.44		
2	Laundry Cabinet			FT	0		
3	Vanity Cabinet			FT	2.5		
4	Medicine Cabinet			PCS	1		
5	Kitchen countertop			SF	35.29		
6	Laundry Countertop			PCS	0		
7	Bathroom Countertop			SF	0		
8	Island			FT	0		
9	Peninsula			FT	0		
10	Closets			SF	55.5		
11							
12							
13							
14							
15							

ARCHITECTURAL BOM



CEILING 01							
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
	LIVINGROOM + KITCHEN			SF	295.0		
1	Ceiling Board	Drywall		SF	295		
2	Drywall Fastener	Screw		PCS	516		
3	Vapor Retarder	Polyethylene film		SF	295		
4	Vapor Retarder Fastener	Nails with washer heads		PCS	885		
	BATHROOM			SF	80.0		
5	Ceiling Board	MRD (Moisture resistant drywall)		SF	80		
6	MRD Fastener	Screw		PCS	140		
	PORCH			SF	94.8		
7	Ceiling Board	Marine Plywood		SF	95		
8	Exterior Grade Plywood	Screw		PCS	166		
	HALL			SF	20.6		
9	Ceiling Board	Drywall		SF	21		
10	Drywall Fastener	Screw		PCS	36		
11	Vapor Retarder	Polyethylene film		SF	21		
12	Vapor Retarder Fastener	Nails with washer heads		PCS	62		

ARCHITECTURAL BOM



CEILING 02							
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
	W/D			SF	17.0		
13	Ceiling Board	Drywall		SF	17		
14	Drywall Fastener	Screw		PCS	30		
15	Vapor Retarder	Polyethylene film		SF	17		
16	Vapor Retarder Fastener	Nails with washer heads		PCS	51		
	CLOSET			SF	17.0		
17	Ceiling Board	Drywall		SF	17		
18	Drywall Fastener	Screw		PCS	30		
19	Vapor Retarder	Polyethylene film		SF	17		
20	Vapor Retarder Fastener	Nails with washer heads		PCS	51		
	GARAGE			SF	279.0		
21	Ceiling Board	Drywall		SF	279		
22	Drywall Fastener	Screw		PCS	488		
23	Vapor Retarder	Polyethylene film		SF	279		
24	Vapor Retarder Fastener	Nails with washer heads		PCS	837		

ARCHITECTURAL BOM



FLOORING INTERIOR 01							
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
BEDROOM							
1	Bedroom Flooring			SF	123		
2	Wood underlay	Foam Pad Polyethylene		SF	123		
3	Vapor Retarder	Vapor Barrier Polyethylene		SF	123		
CLOSET							
4	Closet Area Flooring			SF	17		
5	Wood underlay	Foam Pad Polyethylene		SF	17		
6	Vapor Retarder	Vapor Barrier Polyethylene		SF	17		
LIVING&KITCHEN							
7	Living Area Flooring			SF	322		
8	Wood underlay	Foam Pad Polyethylene		SF	322		
9	Vapor Retarder	Vapor Barrier Polyethylene		SF	322		
BATHROOM							
10	Tile Finish			SF	57		
11	Adhesive	1/2" Thin set Mortar		SF	57		
12	Vapor Retarder	Vapor Barrier Polyethylene		SF	57		

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FLOORING EXTERIOR							
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	
	STRUCTURE			SF	1024.8		
1	Concrete Slab	4"concrete cast in situ		CF	342		
2	Insulation	Rigid insulation		SF	307		
3	Hard core	Compacted soil		CF	276.3		
4	Re-bar	#4 re-bar		Ton	0.99		
5	Concrete Pad	4"concrete cast in situ		CF	1.50		
6	Slab edge	Turndown		CF	294.6		
7	Footing	Cast-in-place concrete		CF	12		
	PORCH						
1	Tile Finish			SF	160		
2	Adhesive	1/2" Thin set Mortar		SF	160		
3	Vapor Retarder	Vapor Barrier Polyethylene		SF	160		

ARCHITECTURAL BOM



WALLS: EXTERIOR							
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	Exterior-Grade Plywood Horizontal Siding			SF	1087		
2	Exterior-Grade Plywood Fastener 8/panel	Self-drilling screws(100/pkt)		PKT	10.87		
3	Wall Shteathing (OSB)			SF	1087		
4	Shteathing Fastener	Self-drilling screws(100/pkt)		PKT	10.87		
5	Wall Homewrap			SF	1087		
6	Homewrap Fastener	Stapled fastener (200/pkt)		PKT	4.13		
7	Furring Strip			PCS	135.88		
8	Furring Strip Fastener	Self-drilling screws(100/pkt)		PKT	10.87		
9	Wall Paint			SF	1087		
10	Stone Copping	Masonry stone		SF	0		
11	Stone Veneer	Masonry stone		SF	0		
12	Mortar for Stone Veneer			SF	0		
13	Wall Insulation			SF	3743		

ARCHITECTURAL BOM



WALLS: INTERIOR 01							
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
	BATHROOM			SF	73.0		
1	Cementitious Backer Board			SF	368		
2	Kerdi membrane			SF	368		
3	Kerdi membrane Fastener			SF	368		
4	Wall Ceramic Tile			SF	368		
	BEDROOM			SF	121.0		
5	Drywall Board			SF	342		
6	Drywall Fastener	Self-drilling screws(100/pkt)		PKT	3.42		
7	Wall Paint			SF	342		
8	Drywall Tape			FT	64		
	HALL			SF	53.0		
9	Drywall Board			SF	136		
10	Drywall Fastener	Self-drilling screws(100/pkt)		PKT	1.36		
11	Wall Paint			SF	136		
12	Drywall Tape			FT	25.7		

ARCHITECTURAL BOM



WALLS: INTERIOR 02

#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
	LIVING ROOM			SF	174.0		
13	Drywall Board			SF	316		
14	Drywall Fastener	Self-drilling screws(100/pkt)		PKT	3.16		
15	Wall Paint			SF	316		
16	Drywall Tape			FT	59		
	KITCHEN			SF	91.0		
17	Cementitious Backer Board			SF	56		
18	Drywall Board			SF	179		
19	Drywall Fastener	Self-drilling screws(100/pkt)		PKT	1.79		
20	Kerdi membrane			SF	56		
21	Kerdi membrane Fastener			SF	56		
22	Wall Ceramic Tile			SF	56		
23	Wall Paint			SF	179		
24	Drywall Tape			FT	33.8		

ARCHITECTURAL BOM



WALLS: INTERIOR 03							
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
	CL			SF	16.0		
25	Drywall Board			SF	136		
26	Drywall Fastener	Self-drilling screws(100/pkt)		PKT	1.36		
27	Wall Paint			SF	136		
28	Drywall Tape			FT	26		
	WD			SF	17.0		
29	Cementitious Backer Board			SF	152		
30	Kerdi membrane			SF	152		
31	Kerdi membrane Fastener			SF	152		
32	Wall Ceramic Tile			SF	152		
	GARAGE			SF	262.0		
33	Drywall Board			SF	559		
34	Drywall Fastener	Self-drilling screws(100/pkt)		PKT	5.59		
35	Wall Paint			SF	559		
36	Drywall Tape			FT	104		
1	Wall Skirting	Ceramic		FT	125.0		

ARCHITECTURAL BOM



#	DOORS						
	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	Exterior Swinging	3' - 0" X 6'-8"		PCS	1		
2	Garage Door	9' - 0" X 7'-0"		PCS	1		
3	Bifold	5' - 0" X 6'-8"		PCS	1		
4	Interior Sliding	7' - 0" X 6'-8"		PCS	1		
5	Interior Swinging	3' - 0" X 6'-8"		PCS	3		
6	Exterior Door Trim			FT	40		
7	Interior Door Trim			FT	201		
8	Entry Lock set			PCS	2		
9	Privacy Lock set			PCS	3		
10	Passage Lock set			PCS	2		
11							
12							
13							
14							
15							

ARCHITECTURAL BOM



WINDOWS							
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	Sliding	3' - 3" X 3'-3"		PCS	6		
2	Sliding	5' - 3" X 3'-3"		PCS	2		
3	Sliding	2' - 3" X 1'-9"		PCS	1		
4	Exterior Window Trim			FT	121		
5	Interior Window Trim			FT	121		
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

ARCHITECTURAL BOM



#	ROOF 01						
	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	Roof Covering			SF	1321.0		
2	Roof Covering Fastener			PCS	661		
3	Roof Felt Paper			SF	1321.0		
4	Roof Felt Paper Fastener			PCS	3963.0		
5	Roof Sheathing			SF	1321.0		
6	Roof Sheathing Fastener			PCS	10568		
7	Batten			FT	0.0		
8	Batten Fastener			PCS	0.0		
9	Soffit			SF	257.0		
10	Soffit Fastener			PCS	128.5		
11	Fascia			FT	152.0		
12	Fascia board fastener			PCS	76		
13	Roof Insulation			SF	1321.0		
14							
15							