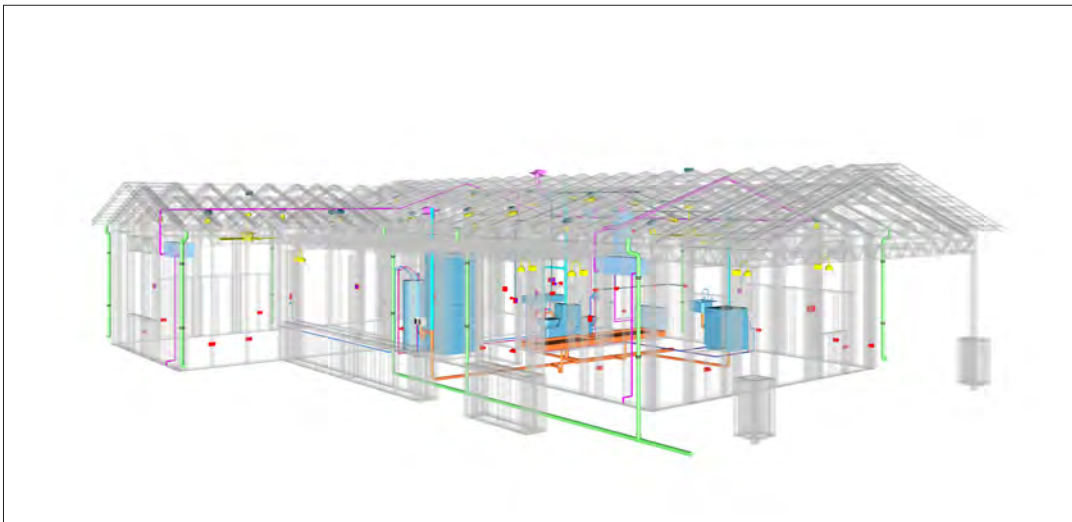
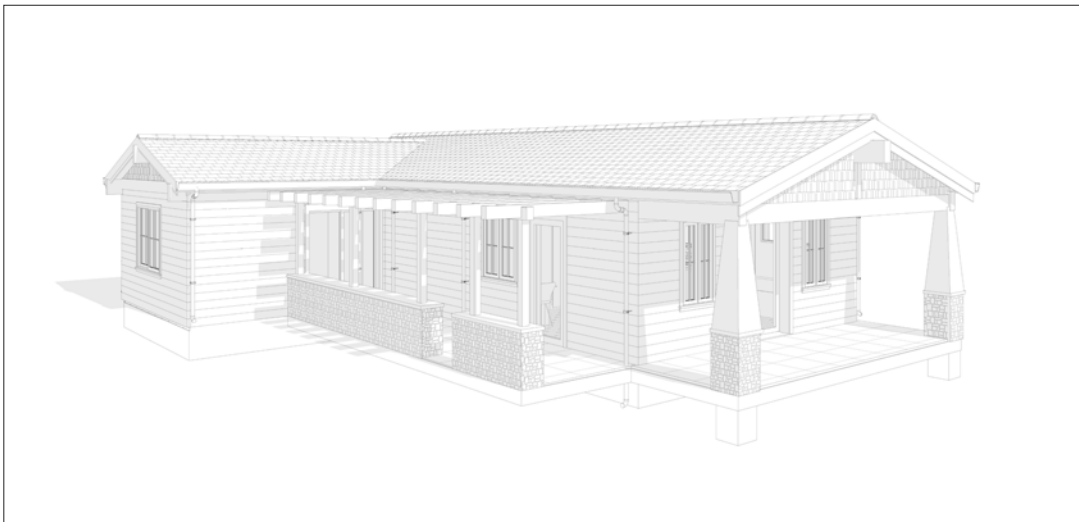
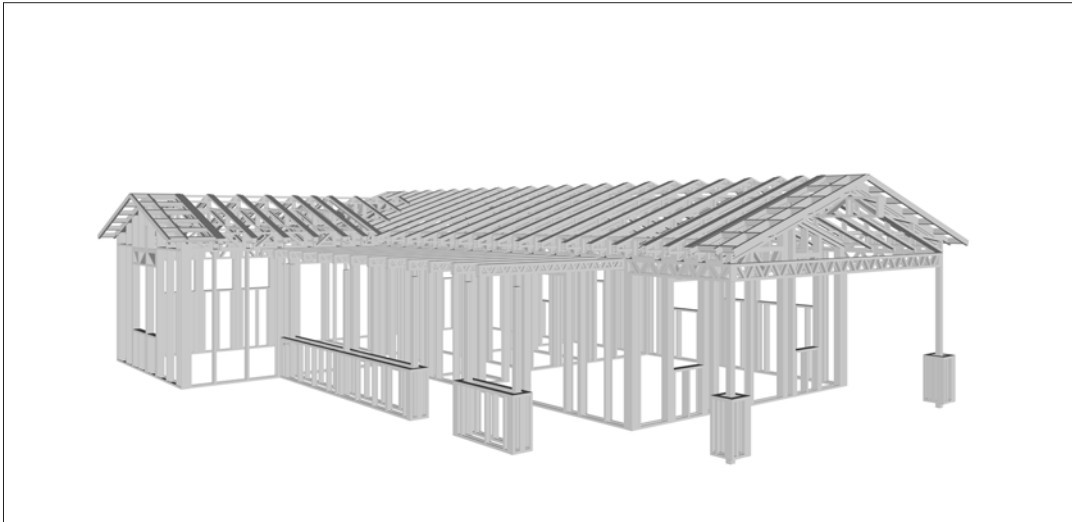
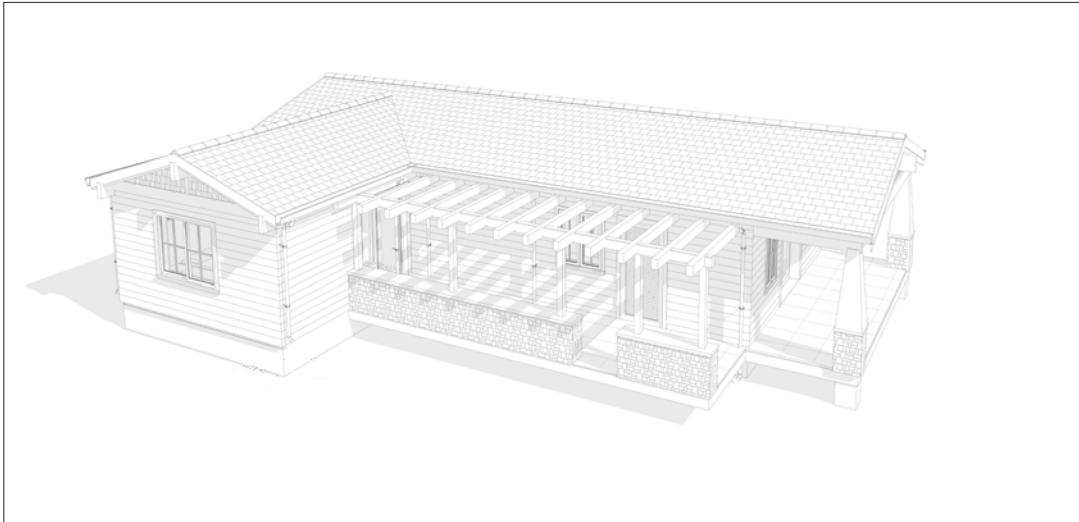




ORION

The Orion is a charming Craftsman-style two-bedroom, two-bathroom home designed for comfortable and efficient living. The exterior walls are finished with horizontal siding in a warm, earthy tone, creating a clean and traditional aesthetic. The gable ends feature wood shingles, adding a touch of natural texture and visual interest. A prominent covered porch spans the front of the home, featuring substantial stone-clad pillars and a decorative pergola, creating a welcoming outdoor space.

Inside, the Orion features a simple L-shaped plan. The living, dining, and kitchen areas are seamlessly merged into a single large room at one end of the house, creating a spacious and versatile living space. The bedrooms are thoughtfully located on the other end of the plan, offering private and quiet retreats. Functional spaces, such as the bathrooms and laundry, are strategically placed between the living area and the bedrooms, creating a clear separation and enhancing the overall functionality of the home.

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



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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 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

**129-Orion-910-
2Bd2Ba-Craftsman-
Porch-550**

DRAWING NAME

INTRODUCTION

CLIENT NAME:

PROJECT NUMBER:

DATE:

DESIGNED BY:

DRAWN BY:

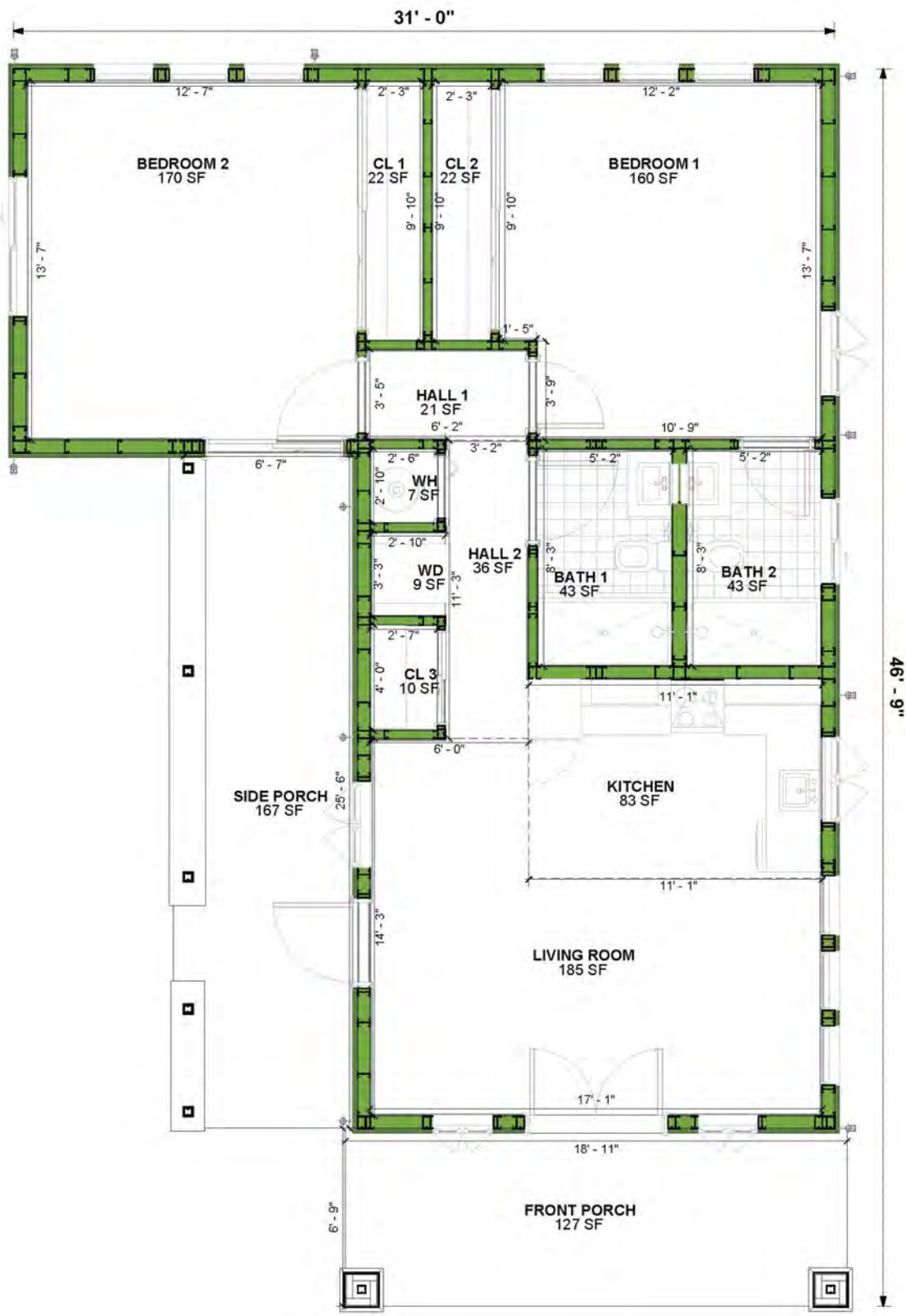
CHECKED BY:

DISCLAIMER

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FLOOR PLAN

- 910 SF
- 2 Bed Rooms
- Covered Porch



OWNER

NAME	
EMAIL	
PHONE	

CONTRACTOR

NAME	
EMAIL	
PHONE	

SITE LOCATION

COUNTRY	
STATE	
ZIP CODE	

SITE INFORMATION

PARCEL I.D.	
SQ.FOOTAGE	

MINIMUM SETBACKS

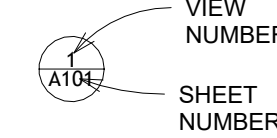
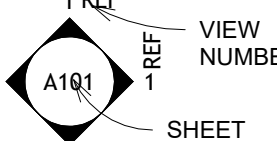
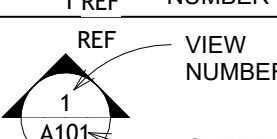
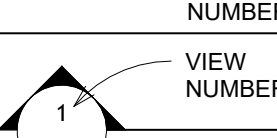
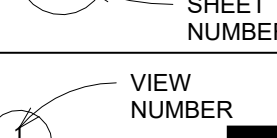
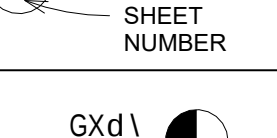
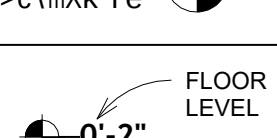
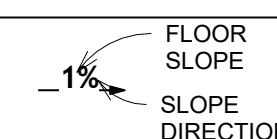
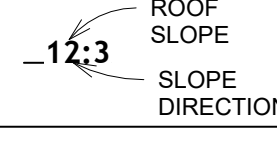
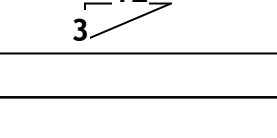
FRONT	
SIDE	
REAR	

ZONING

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CODES AND AMENDMENTS

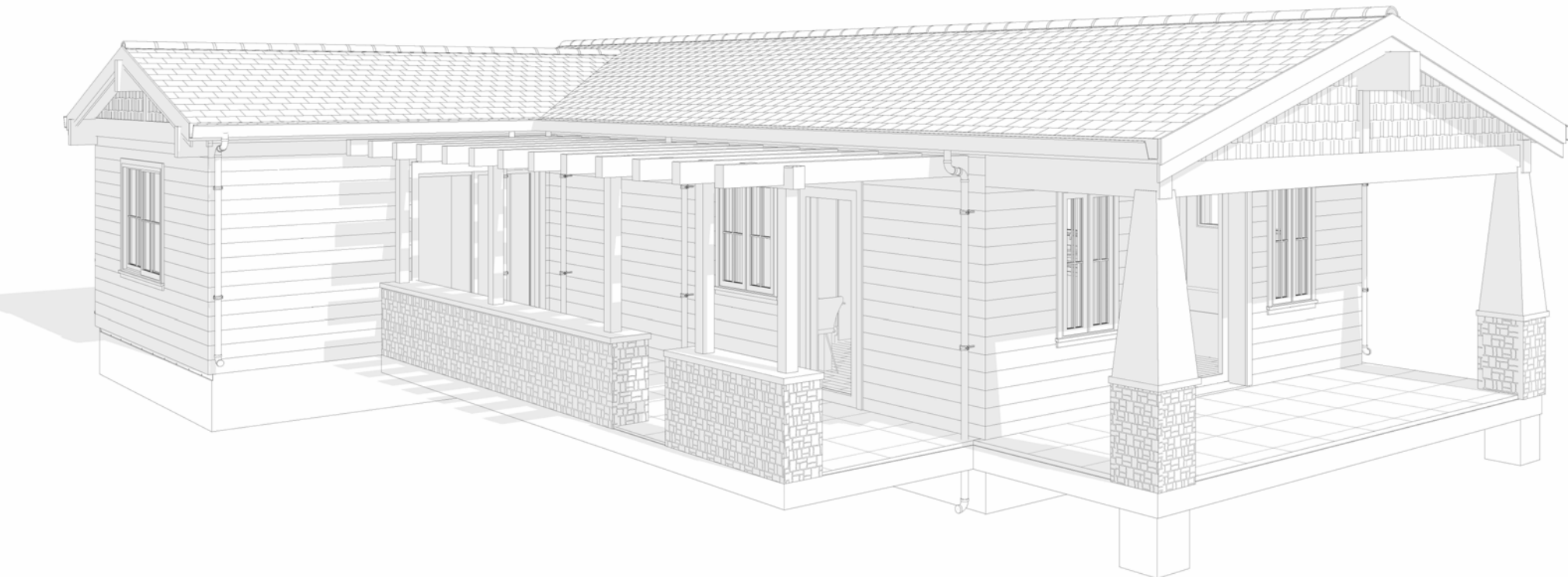
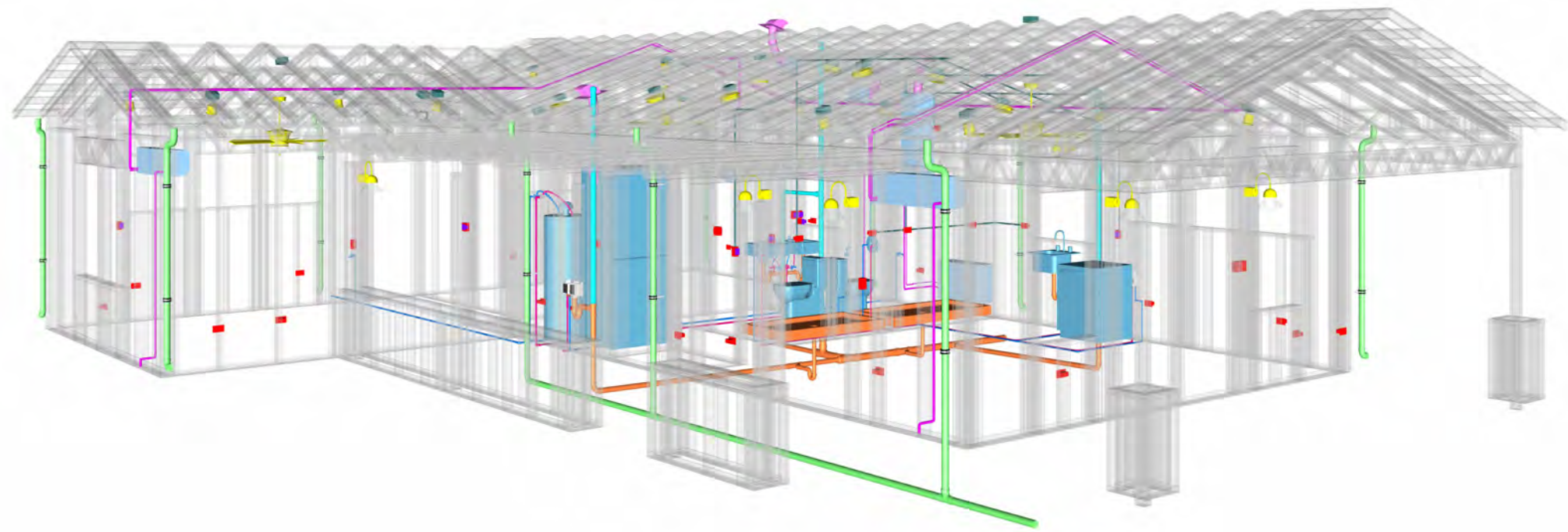
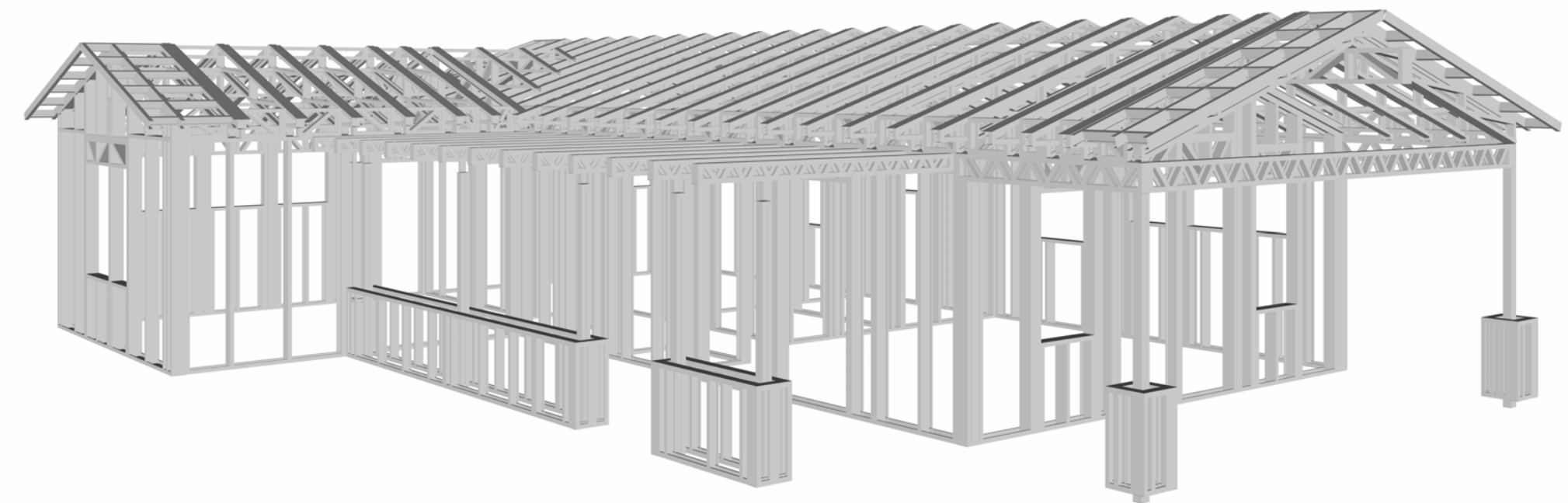
CODE BOOK	
SNOW LOAD	
WIND SPEED	
SEISMIC DESIGN CATEGORY	
WEATHERING	
FROST LINE DEPTH	
TERMITE	
DECAY	
WINTER DESIGN TEMP	
FLOOD HAZARDS	

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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M102	HVAC SECTION
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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

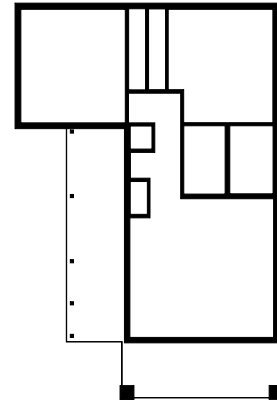


129-ORION-910-2BD 2BA-CRAFTSMAN-PORCH-550

SQUARE FOOTAGE	
LIVING	909
PORCH	298
TOTAL	1207



KEY PLAN



NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

129-ORION-910-2BD
2BA-CRAFTSMAN-PORCH-550

DRAWING NAME

COVER SHEET

CLIENT NAME:	Client Name
PROJECT NUMBER:	0033_15
DATE:	3/21/2025 10:32:56 AM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

G101

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.

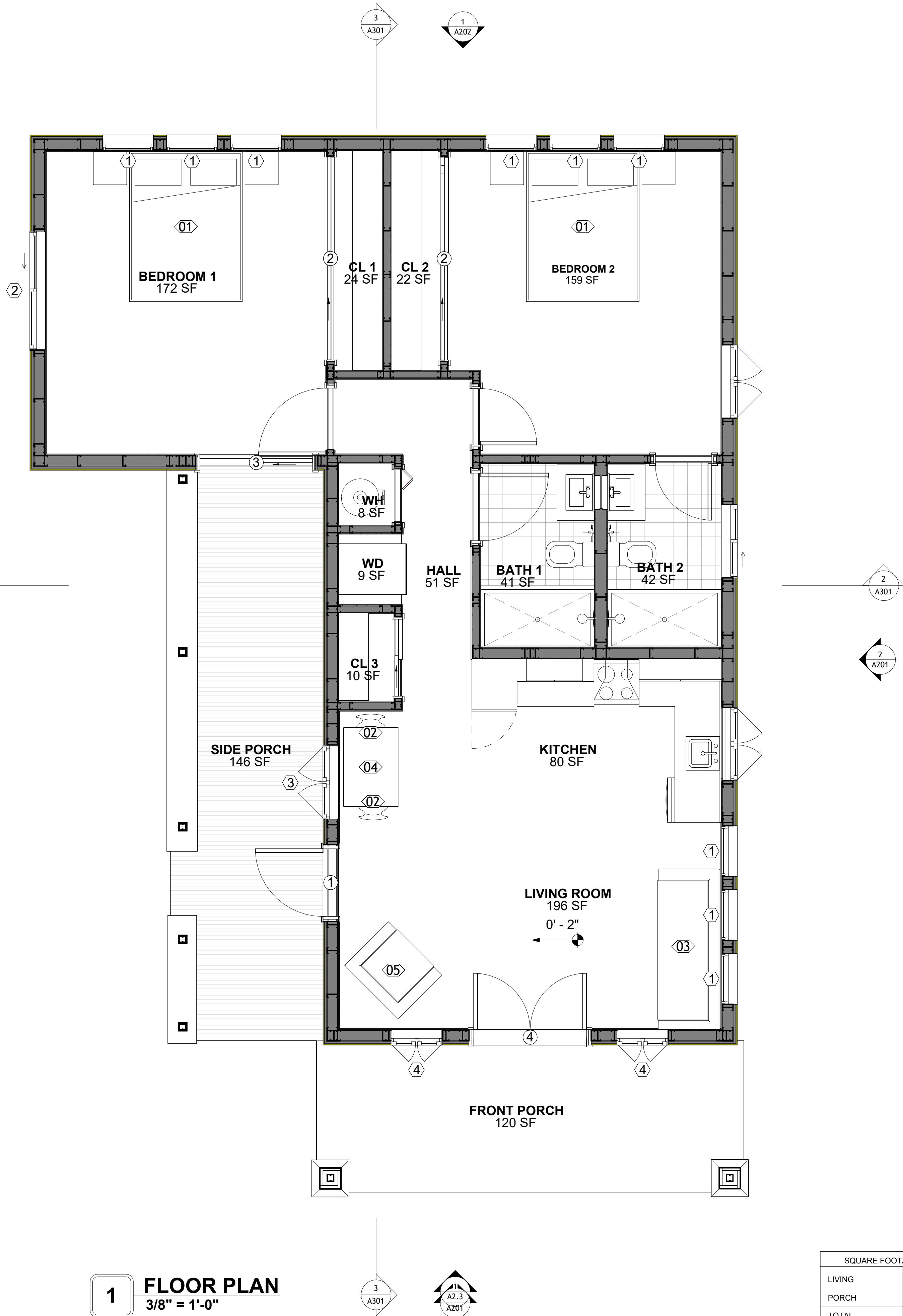
REFER TO SHEETS **A201** & **A202** FOR GENERAL NOTES ON EXTERNAL FINISHING MATERIALS

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 A			
TYPE MARK	TYPE	COUNT	
01	KING SIZE BED	2	
02	DINING CHAIR	2	
03	THREE SEAT SOFA	1	
04	25" X 60" DINING 2	1	
05	ONE SEAT SOFA	1	

ROOM FINISH SCHEDULE A							
ROOM NUMBE R	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	CEILING HEIGHT	COMMENT S
01	BATH 1	VINYL TILES	CONCRETE	CERAMIC TILE	MRD	8' - 0"	
02	BEDROOM 2	HARDWOOD	CONCRETE	WALL PAINT	DRY WALL	8' - 0"	
03	BATH 2	VINYL TILES	CONCRETE	CERAMIC TILE	MRD	8' - 0"	
04	KITCHEN	HARDWOOD	CONCRETE	WALL PAINTT + CERAMIC	DRY WALL	8' - 0"	
05	LIVING ROOM	HARDWOOD	CONCRETE	WALL PAINT	DRY WALL	8' - 0"	
06	CL 3	HARDWOOD	CONCRETE	WALL PAINT	DRY WALL	8' - 0"	
07	WD	HARDWOOD	CONCRETE	WALL PAINT	DRY WALL	8' - 0"	
08	WH	HARDWOOD	CONCRETE	WALL PAINT	DRY WALL	8' - 0"	
09	CL 2	HARDWOOD	CONCRETE	WALL PAINT	DRY WALL	8' - 0"	
10	CL 1	HARDWOOD	CONCRETE	WALL PAINT	DRY WALL	8' - 0"	
11	SIDE PORCH	PROCELAIN TILE	CONCRETE	EXTERIOR-GRADE PLYWOOD	PLYWOOD	8' - 0"	
12	BEDROOM 1	HARDWOOD	CONCRETE	WALL PAINT	DRY WALL	8' - 0"	
13	HALL	HARDWOOD	CONCRETE	WALL PAINT	DRY WALL	8' - 0"	
19	FRONT PORCH						



SQUARE FOOTAGE	
LIVING	909
PORCH	298
TOTAL	1207



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

KEY PLAN

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

129-ORION-910-2BD
2BA-CRAFTSMAN-PORCH-550

DRAWING NAME

FLOOR PLAN

CLIENT NAME: **Client Name**
PROJECT NUMBER: **0033_15**
DATE: **3/21/2025 10:32:58 AM**
DESIGNED BY: **Designer**
DRAWN BY: **Author**
CHECKED BY: **Checker**

A101

SCALE: **As indicated**



KEY PLAN

[illegible]

NOTE:

LEGEND:

PROJECT

129-ORION-910-2BD
2BA-CRAFTSMAN-PORCH-550

DRAWING NAME

DIMENSION PLAN

CLIENT NAME:	Client Name
PROJECT NUMBER:	0033_15
DATE:	3/21/2025 10:32:59 AM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

A102

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

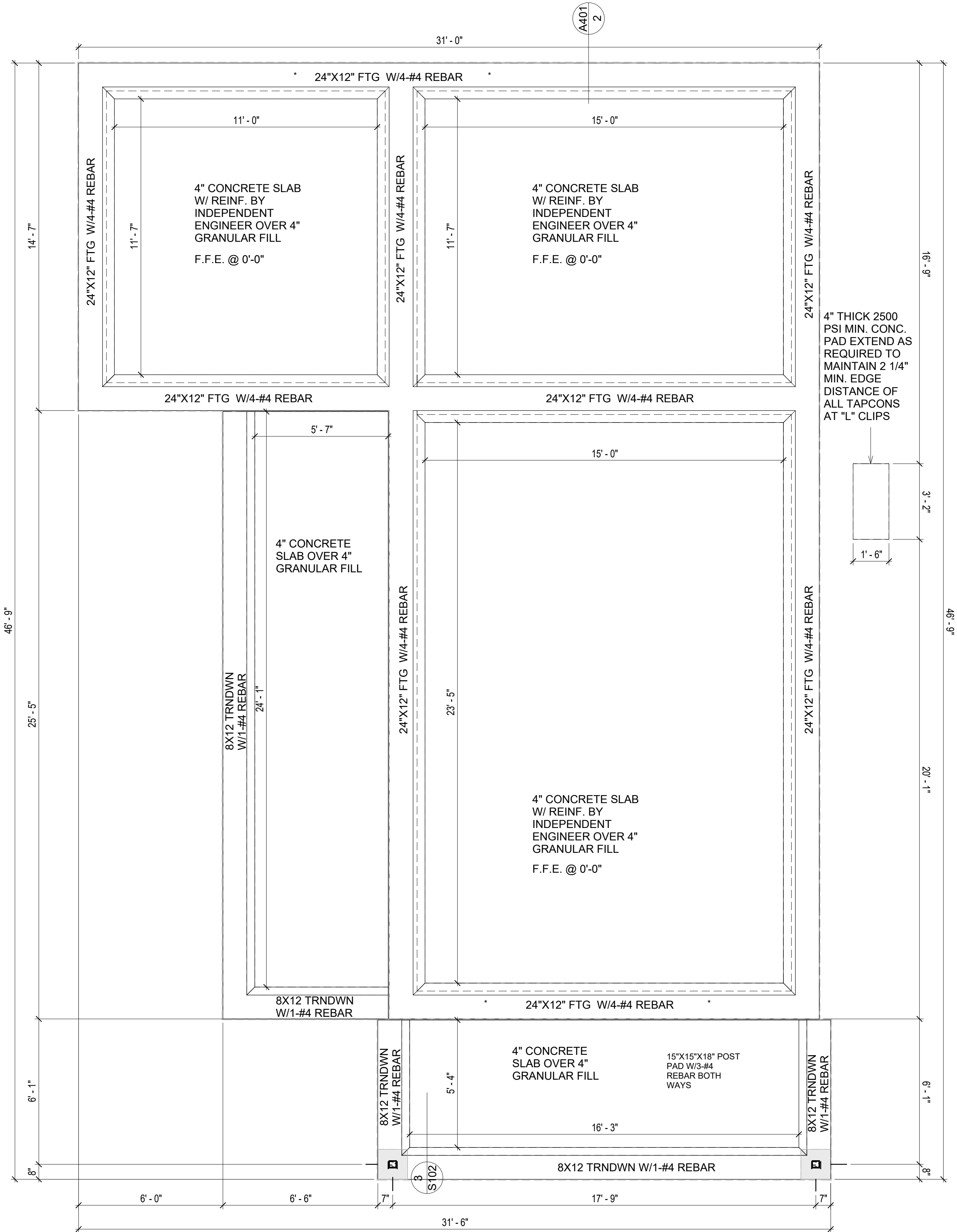


SQUARE FOOTAGE	
LIVING	909
PORCH	298
TOTAL	1207

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	909
PORCH	298
TOTAL	1207



KEY PLAN

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT
**129-ORION-910-2BD
2BA-CRAFTSMAN-PORCH-550**

DRAWING NAME
FOUNDATION PLAN

CLIENT NAME: **Client Name**
PROJECT NUMBER: **0033_15**
DATE: **3/21/2025 10:33:00 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:

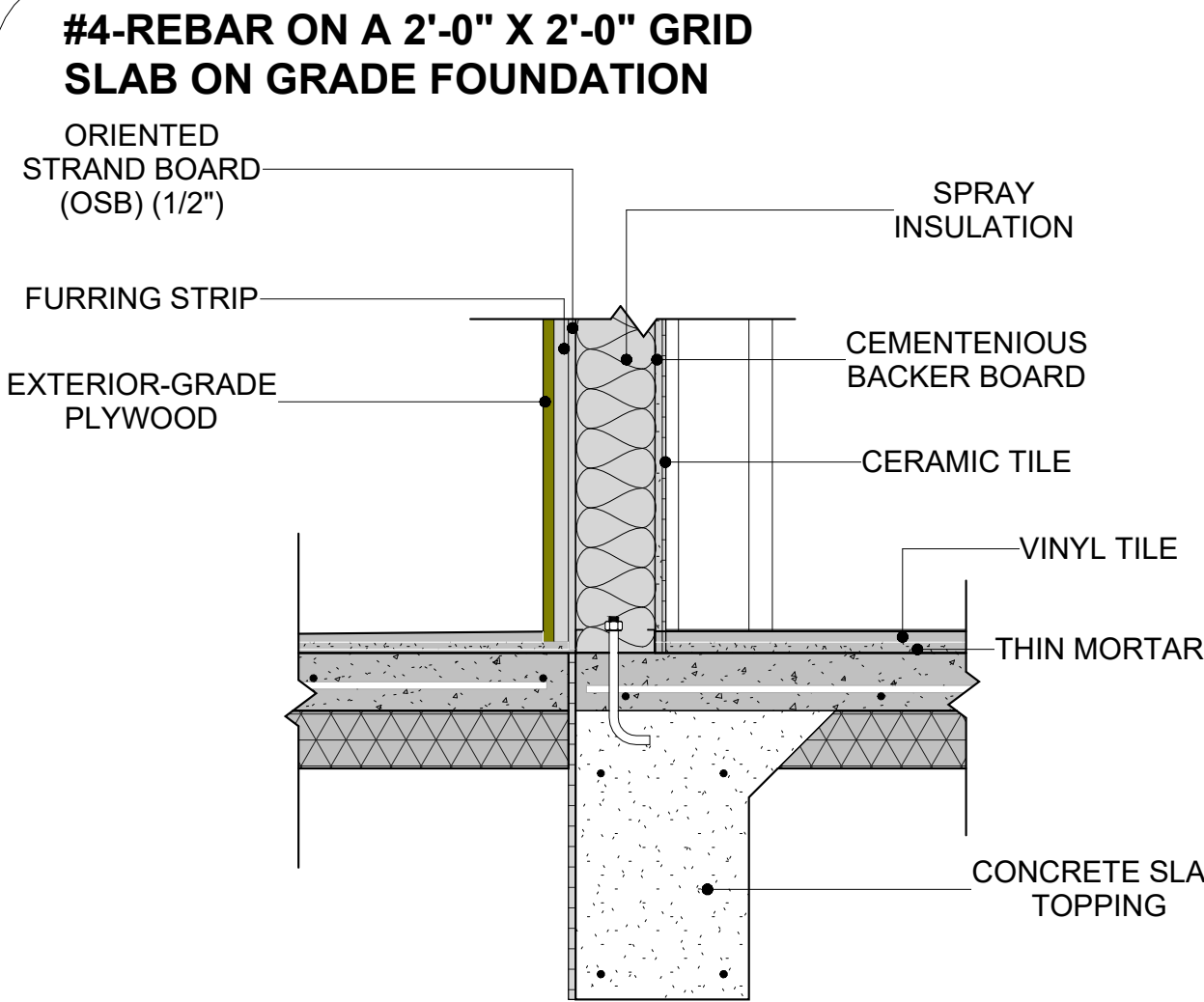
- ALL REINFORCING SLABS BARS SIZE 10MM OR LARGER SHALL BE DEFORMED IN ACCORDANCE TO ASTM-A706, AND BARS SMALLER THAN 10 MM MAYBE PLAIN.
- UNLESS OTHERWISE NOTED IN PLANS, THE YIELD STRENGTH OF REINFORCING BARS SHALL BE:

- A) FOOTING = 40,000 PSI
B) NON-LOAD BEARING WALLS AND PARAPETS= 40,000 PSI

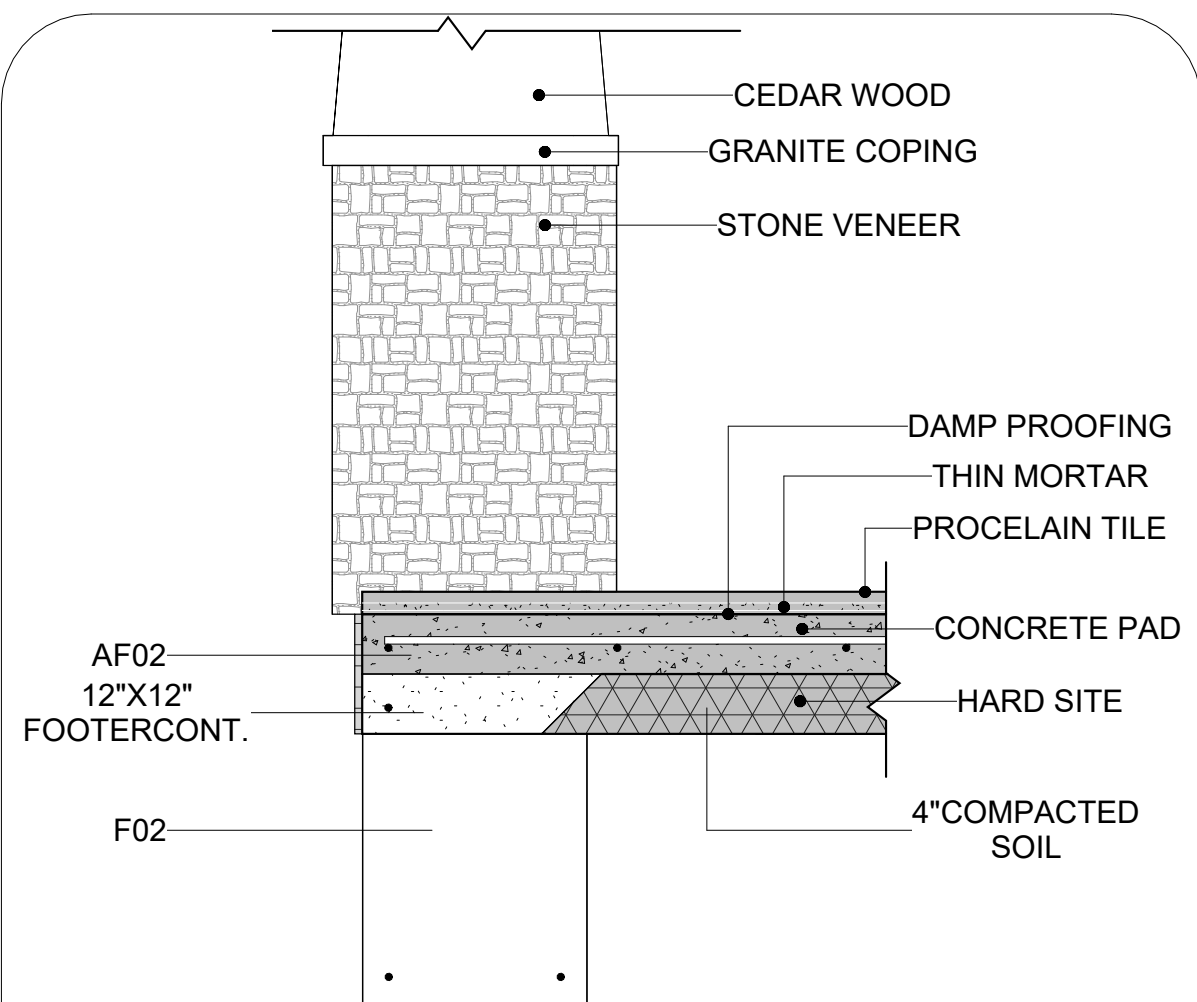
- SPLICES SHALL BE SECURELY WIRED TOGETHER AND SHALL LAP OR EXTEND
- GRADE OF STEEL FOR RCC WORKS SHALL BE GRADE 4 10.
- BAR NOTATIONS GIVES INFORMATION
A) BAR SIZE
B) SPACING(IF REQUIRED)
- LAP REINFORCEMENT ONLY AT LOCATION SHOWN IN THE DRAWINGS
- REINFORCEMENT SHALL NOT BE CUT, VENT OR HEATED ON SITE 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.

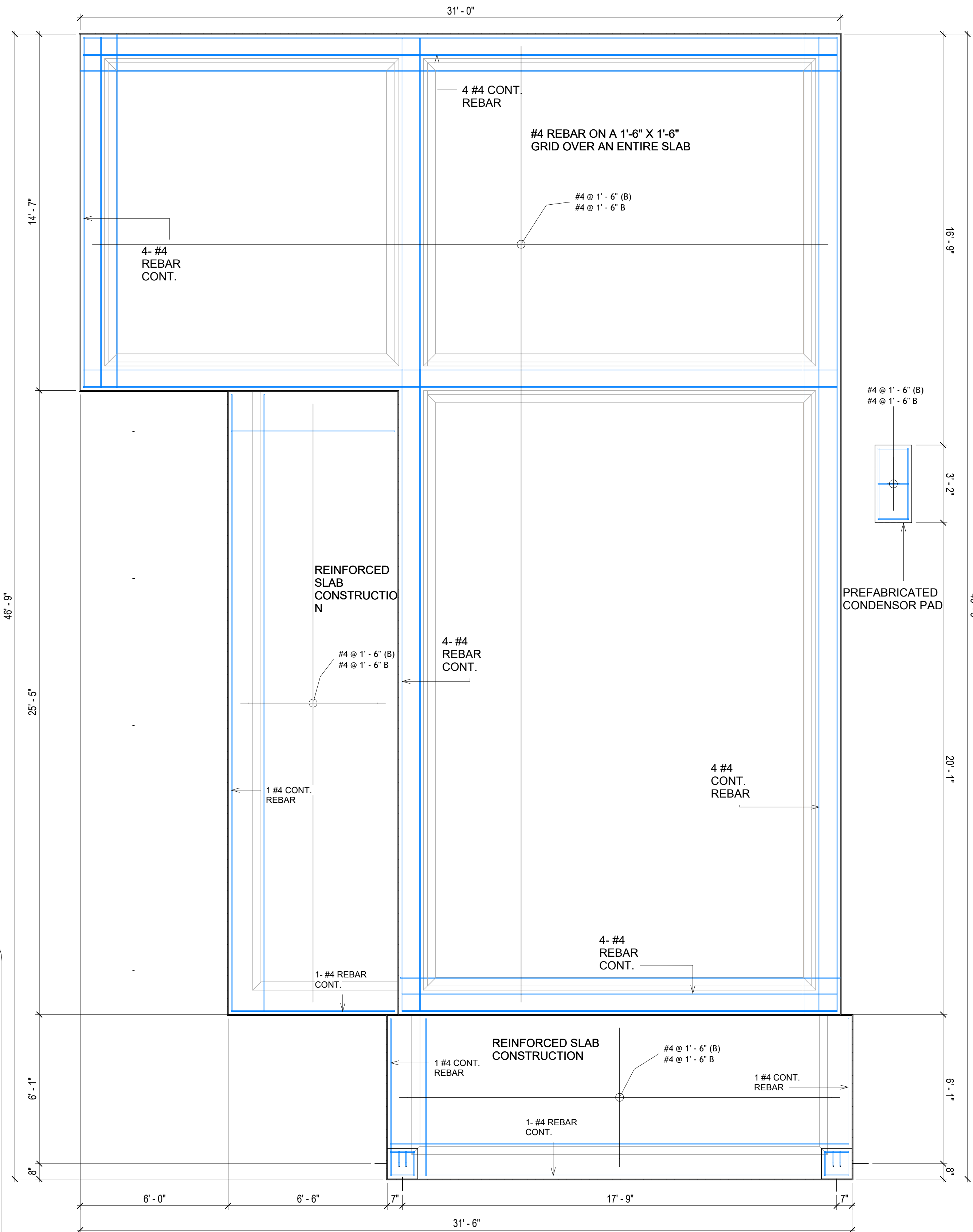
NOTE
- THIS IS A SCHEMATIC PLAN FOR THE PURPOSE OF LOCATING AND IDENTIFYING FOUNDATION REINFORCING ELEMENTS ONLY. VERIFY ALL DIMENSIONS, DROPS, OFFSETS AND FEATURES WITH THE ARCHITECTURAL PLANS BEFORE FORMING THE FOUNDATION.



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



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



1 FOUNDATION REBAR PLAN
3/8\"/>

KEY PLAN

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

129-ORION-910-2BD
2BA-CRAFTSMAN-PORCH-550

DRAWING NAME

STRUCTURAL FLOOR PLAN

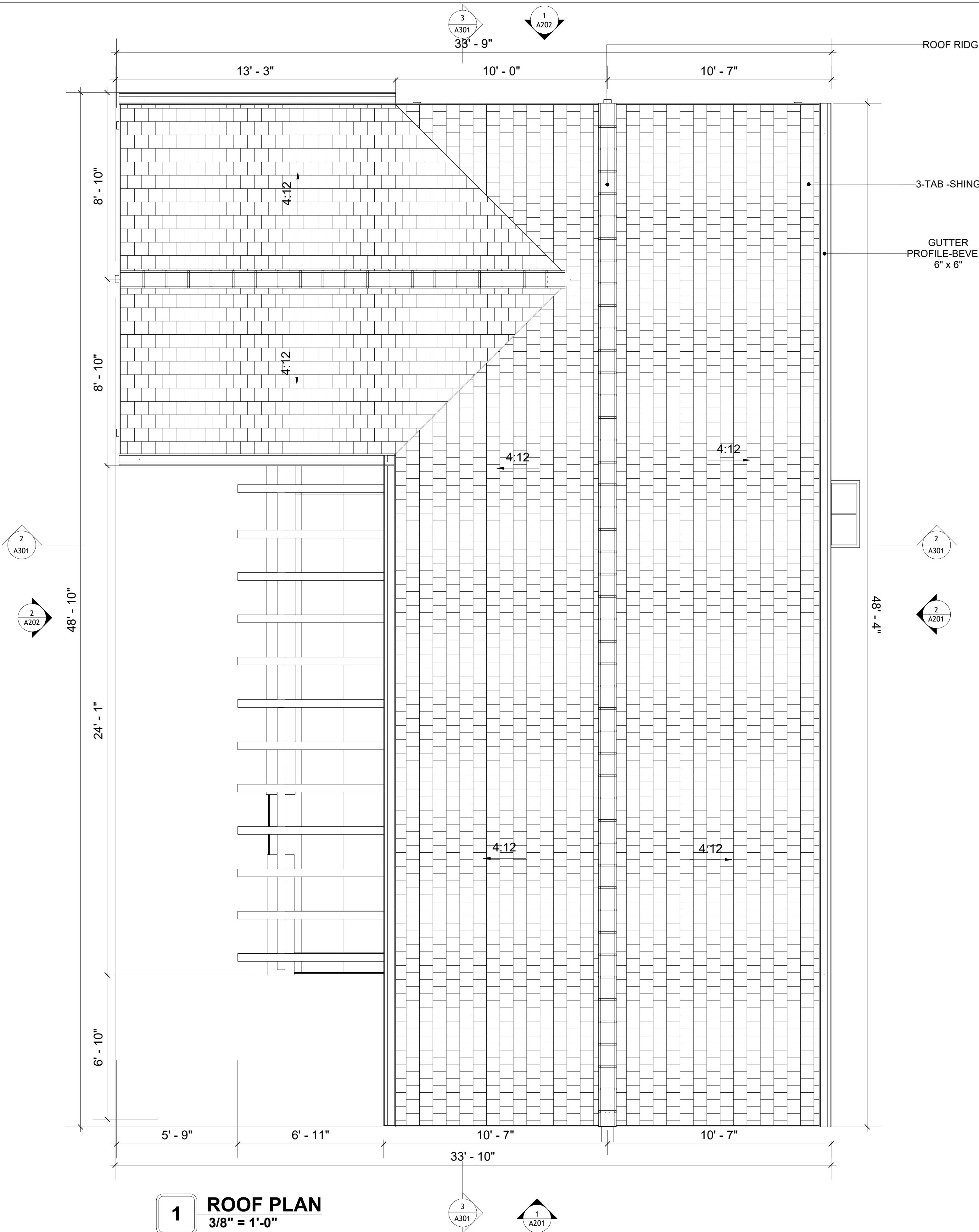
CLIENT NAME: Client Name
PROJECT NUMBER: 0033_15
DATE: 3/21/2025 10:33:01 AM
DESIGNED BY: Designer
DRAWN BY: Author
CHECKED BY: Checker

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 ALL 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.



SQUARE FOOTAGE	
LIVING	909
PORCH	298
TOTAL	1207

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KEY PLAN

[illegible]

NOTE:

LEGEND:

PROJECT

129-ORION-910-2BD
2BA-CRAFTSMAN-PORCH-550

DRAWING NAME

ROOF PLAN

CLIENT NAME:	Client Name
PROJECT NUMBER:	0033_15
DATE:	3/21/2025 10:33:05 AM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

A103

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.

STONE VENEER

STONE VENEER REFERS TO THIN LAYERS OF NATURAL OR MANUFACTURED STONE APPLIED TO A STRUCTURAL WALL, KNOWN FOR THEIR REALISTIC APPEARANCE AND RELATIVE LIGHTNESS. THESE VENEERS PROVIDE THE AESTHETIC OF STONE WITHOUT THE COST AND WEIGHT OF FULL STONE CONSTRUCTION, CONTRIBUTING TO A BEAUTIFUL AND COST-EFFECTIVE EXTERIOR FINISH.

IN THIS SPECIFIC PROJECT, STONE VENEER IS USED A FINISH MATERIAL ON EXTERIOR FINISH.

CEDAR WOOD

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

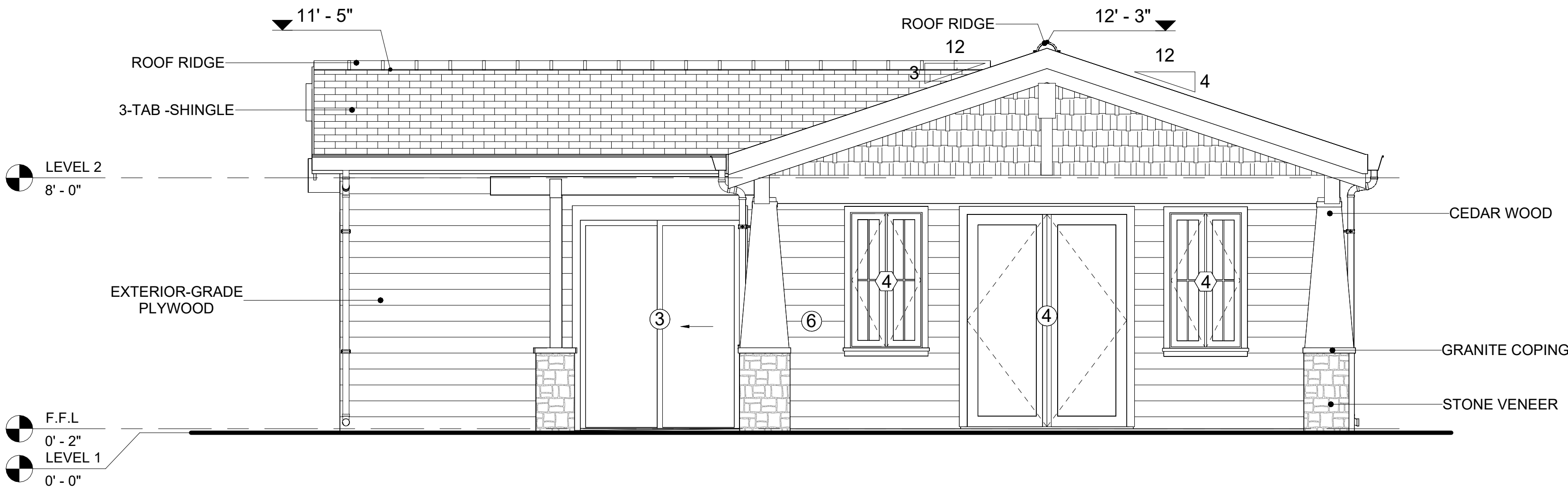
IN THIS SPECIFIC PROJECT, CEDAR WOOD IS USED AS A FURRING STRIP AND A FINISH MATERIAL ON BEAMS AND COLUMNS.

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.

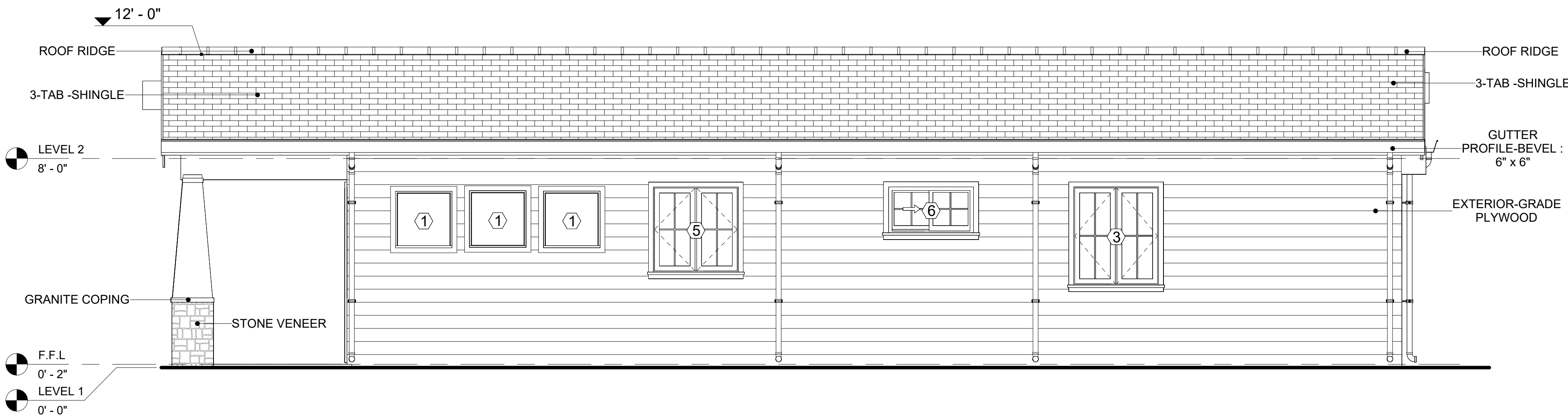
GRANITE COPPING

GRANITE COPPING REFERS TO A STONE, TYPICALLY GRANITE, USED TO COVER THE TOP EDGE OR CAP OF A WALL, PARAPET, OR OTHER ARCHITECTURAL FEATURE, PROVIDING PROTECTION AND A FINISHED LOOK.

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



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



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

DOOR SCHEDULE

TYPE MAR K	SUPPLIER	DOOR TYPE	LOCATION	SIZE		COUNT
				WIDTH	HEIGHT	
1	HOME DEPOT	EXTERIOR SINGLE PANEL SWINGING	INTERIOR	3' - 0"	6' - 8"	1
2	HOME DEPOT	INTERIOR DOUBLE PANEL SLIDING	INTERIOR	9' - 0"	6' - 8"	2
3	HOME DEPOT	PATIO_DOUBLE PANEL_SLIDING	INTERIOR	5' - 0"	6' - 8"	1
4	HOME DEPOT	EXTERIOR DOUBLE PANEL SWINGING	INTERIOR	5' - 0"	6' - 8"	1
5	HOME DEPOT	INTERIOR SINGLE PANEL SWINGING	INTERIOR	2' - 6"	6' - 8"	2
6	HOME DEPOT	INTERIOR SINGLE PANEL SWINGING	INTERIOR	3' - 0"	6' - 8"	2
8	HOME DEPOT	SINGLE FOLD 2	INTERIOR	2' - 4"	6' - 8"	1
9	HOME DEPOT	INTERIOR DOUBLE PANEL SLIDING	INTERIOR	3' - 5"	6' - 8"	1

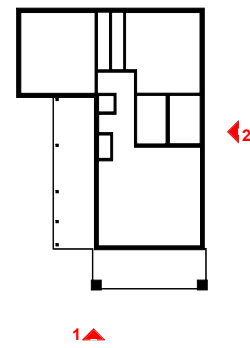
WINDOW SCHEDULE

TYPE MARK	SUPPLIER	WINDOW TYPE	SIZE		COUNT
			WIDTH	HEIGHT	
1	HOME DEPOT	FIXED	2' - 3"	2' - 3"	9
2	HOME DEPOT	SLIDING	5' - 3"	4' - 3"	1
3	HOME DEPOT	DOUBLE HUNG	3' - 3"	3' - 9"	2
4	HOME DEPOT	DOUBLE HUNG	2' - 3"	4' - 3"	2
5	HOME DEPOT	DOUBLE HUNG	3' - 3"	3' - 3"	1
6	HOME DEPOT	SLIDING	3' - 3"	1' - 9"	1



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KEY PLAN



NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

129-ORION-910-2BD
2BA-CRAFTSMAN-PORCH-550

DRAWING NAME

ARCHITECTURAL ELEVATIONS

CLIENT NAME: Client Name
PROJECT NUMBER: 0033_15
DATE: 3/21/2025 10:33:09 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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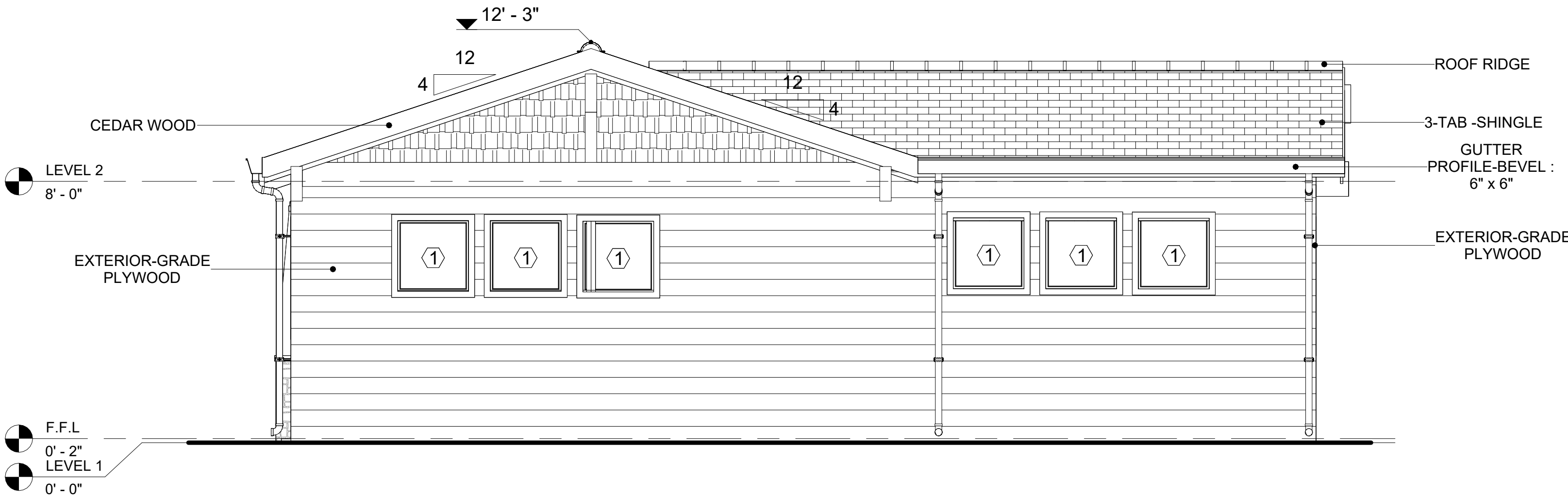
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1 REAR ELEVATION
3/8" = 1'-0"

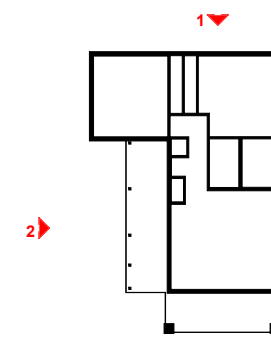


2 LEFT SIDE ELEVATION
3/8" = 1'-0"



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KEY PLAN



NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

129-ORION-910-2BD
2BA-CRAFTSMAN-PORCH-550

DRAWING NAME

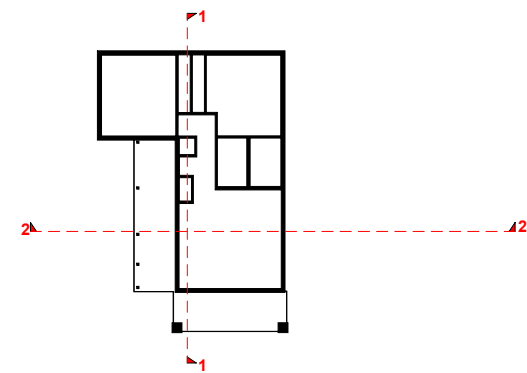
ARCHITECTURAL ELEVATIONS

CLIENT NAME: Client Name
PROJECT NUMBER: 0033_15
DATE: 3/21/2025 10:33:14 AM
DESIGNED BY: Designer
DRAWN BY: Author
CHECKED BY: Checker

A202

SCALE: As indicated

KEY PLAN



NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

129-ORION-910-2BD
2BA-CRAFTSMAN-PORCH-550

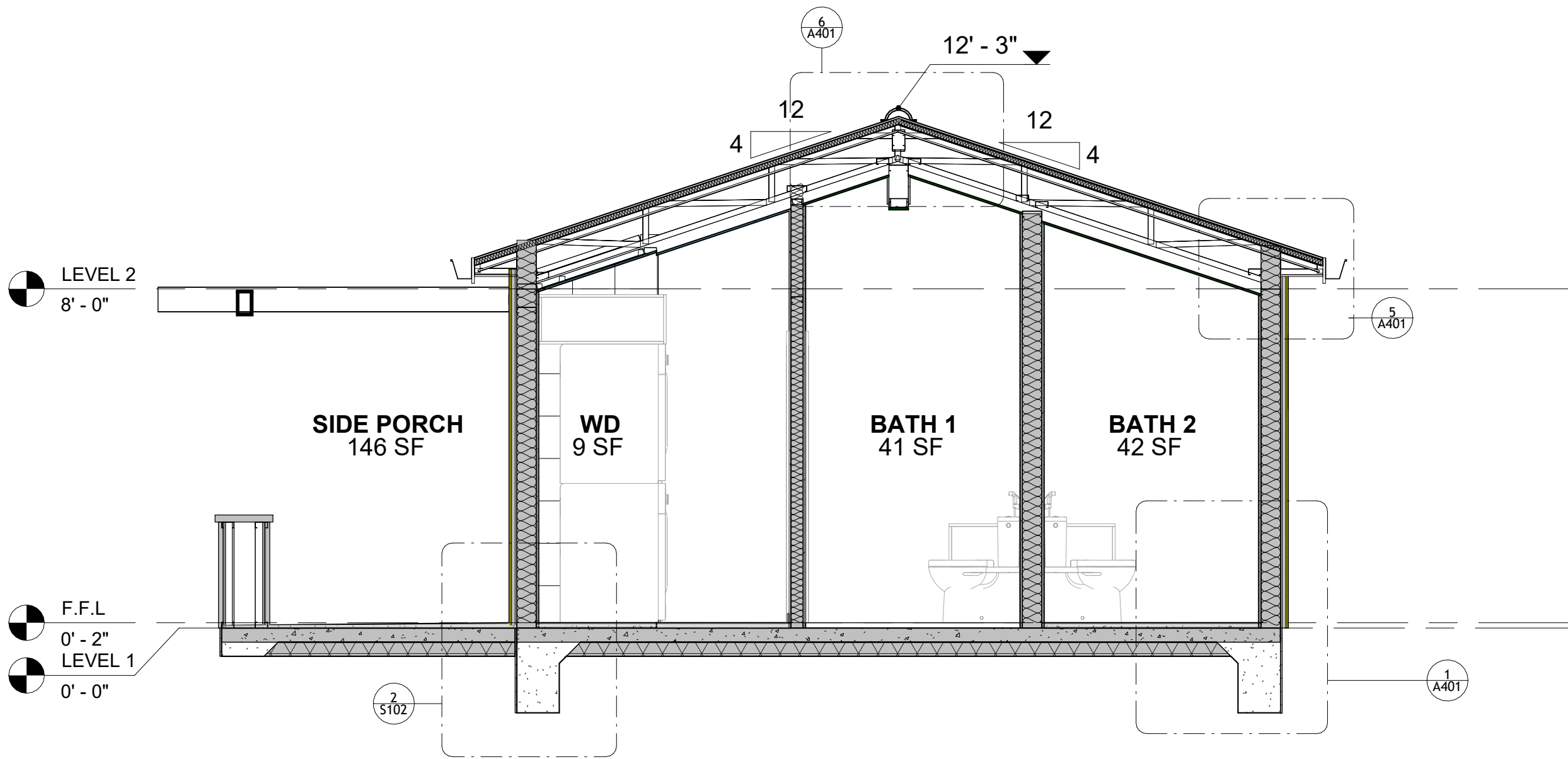
DRAWING NAME

ARCHITECTURAL SECTIONS

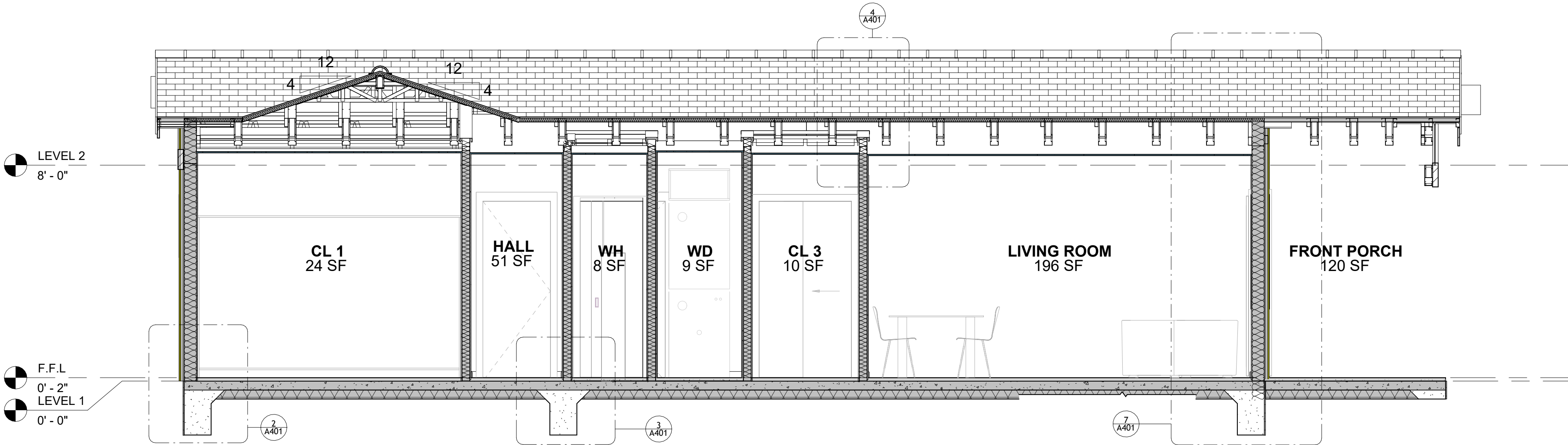
CLIENT NAME:	Client Name
PROJECT NUMBER:	0033_15
DATE:	3/21/2025 10:33:16 AM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

A301

SCALE: As indicated



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



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

KEY PLAN

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

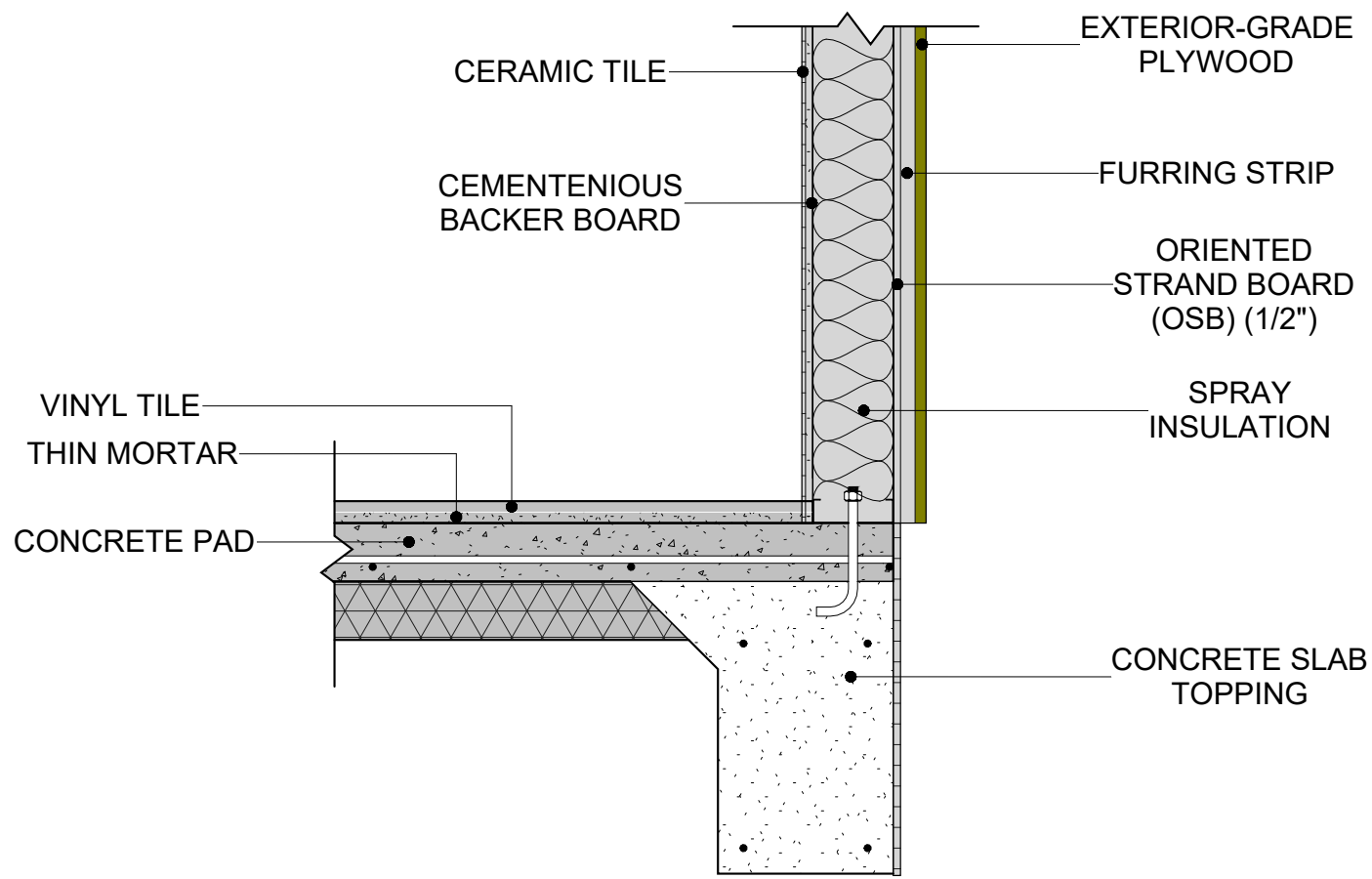
PROJECT
**129-ORION-910-2BD
2BA-CRAFTSMAN-PORCH-550**

DRAWING NAME
ARCHITECTURAL DETAILS

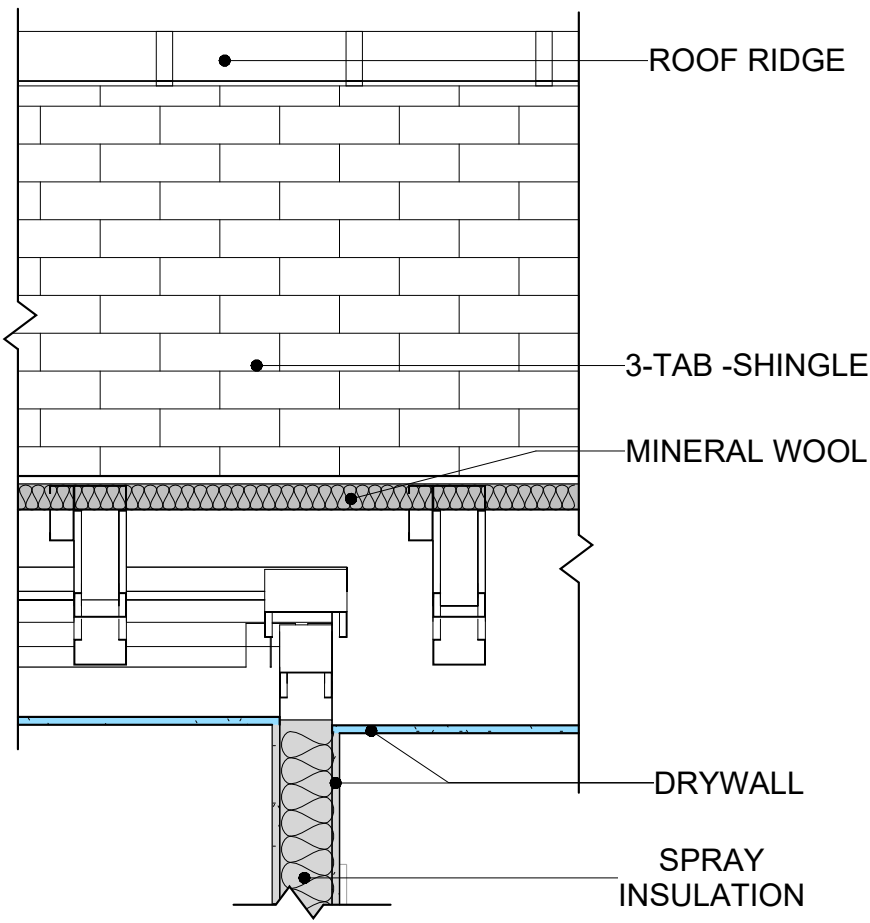
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PROJECT NUMBER: 0033_15
DATE: 3/21/2025 10:33:16 AM
DESIGNED BY: Designer
DRAWN BY: Author
CHECKED BY: Checker

A401

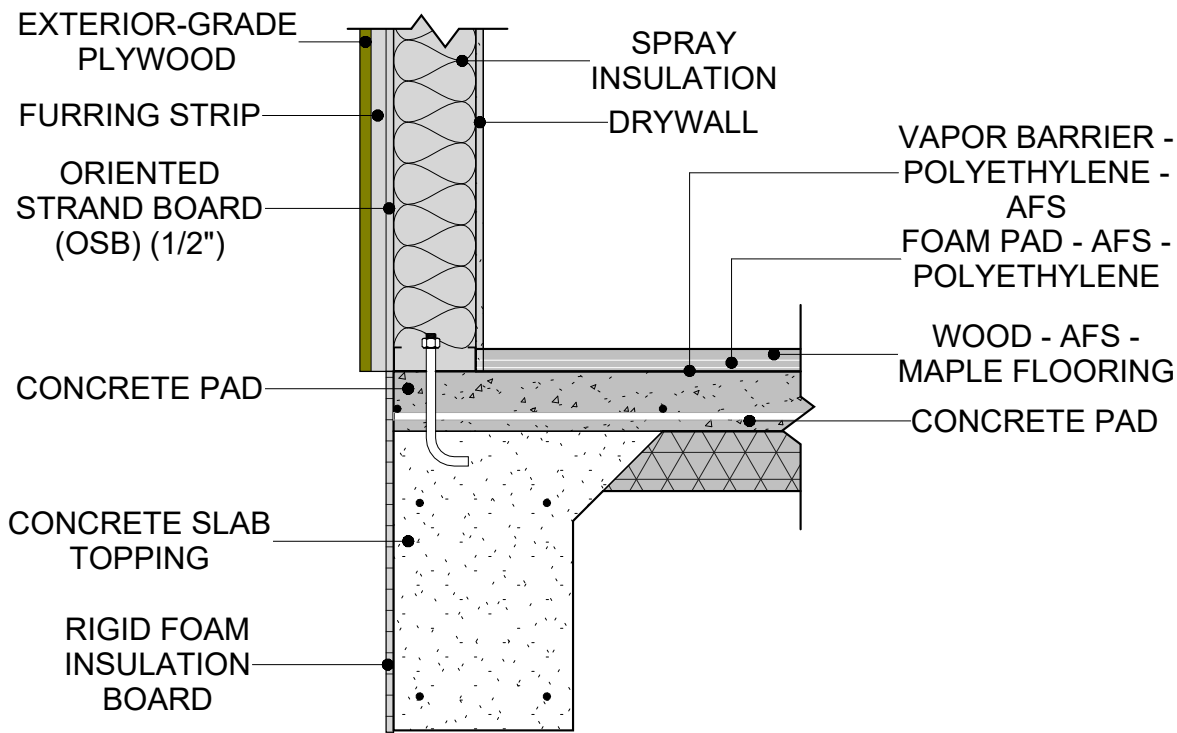
SCALE: 1" = 1'-0"



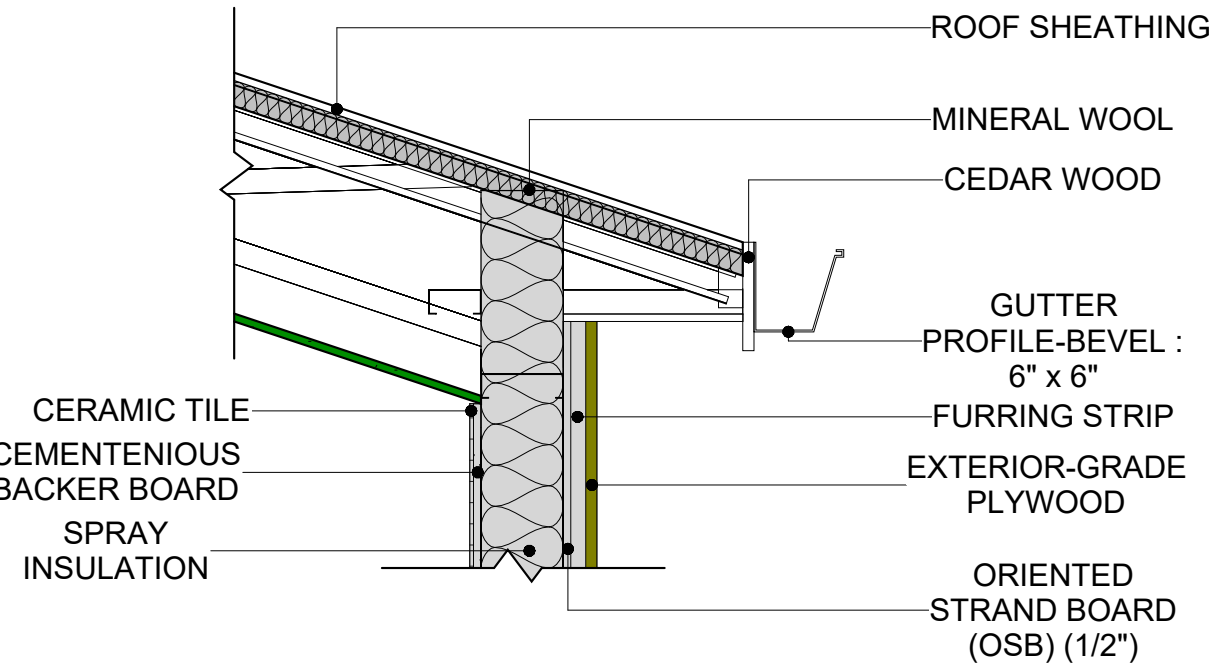
1 TYPICAL WALL FTG
1" = 1'-0"



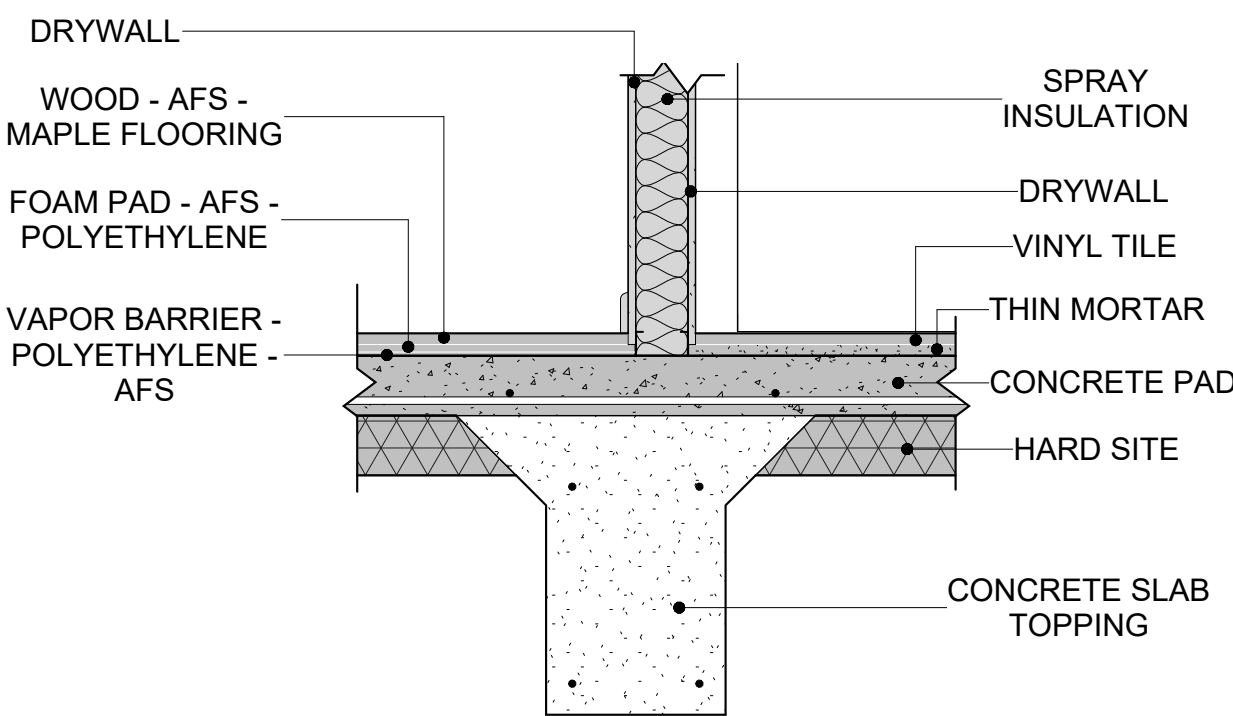
4 ROOF ON WALL
1" = 1'-0"



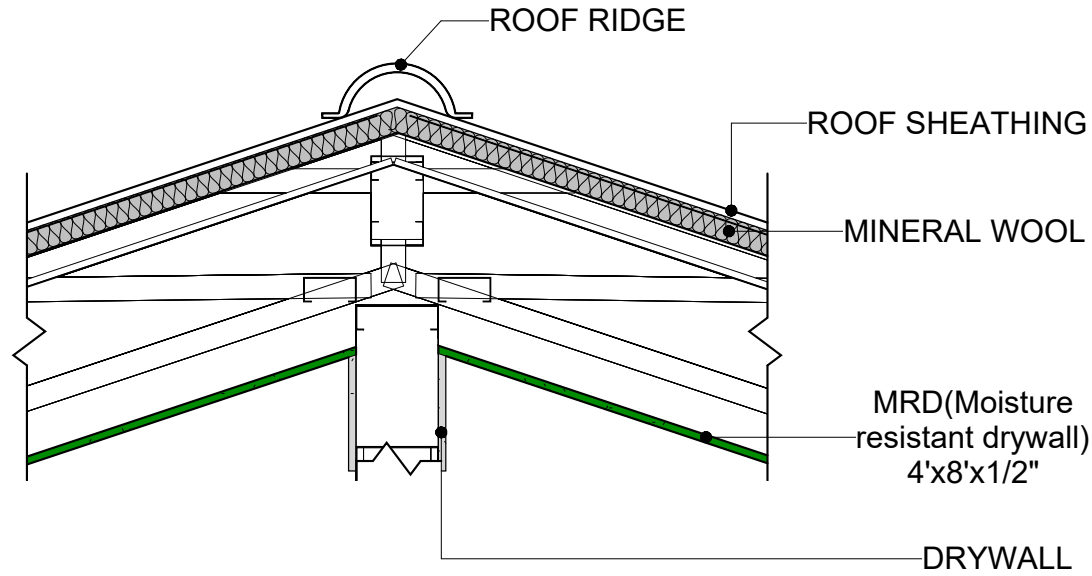
2 TYPICAL WALL FTG 2
1" = 1'-0"



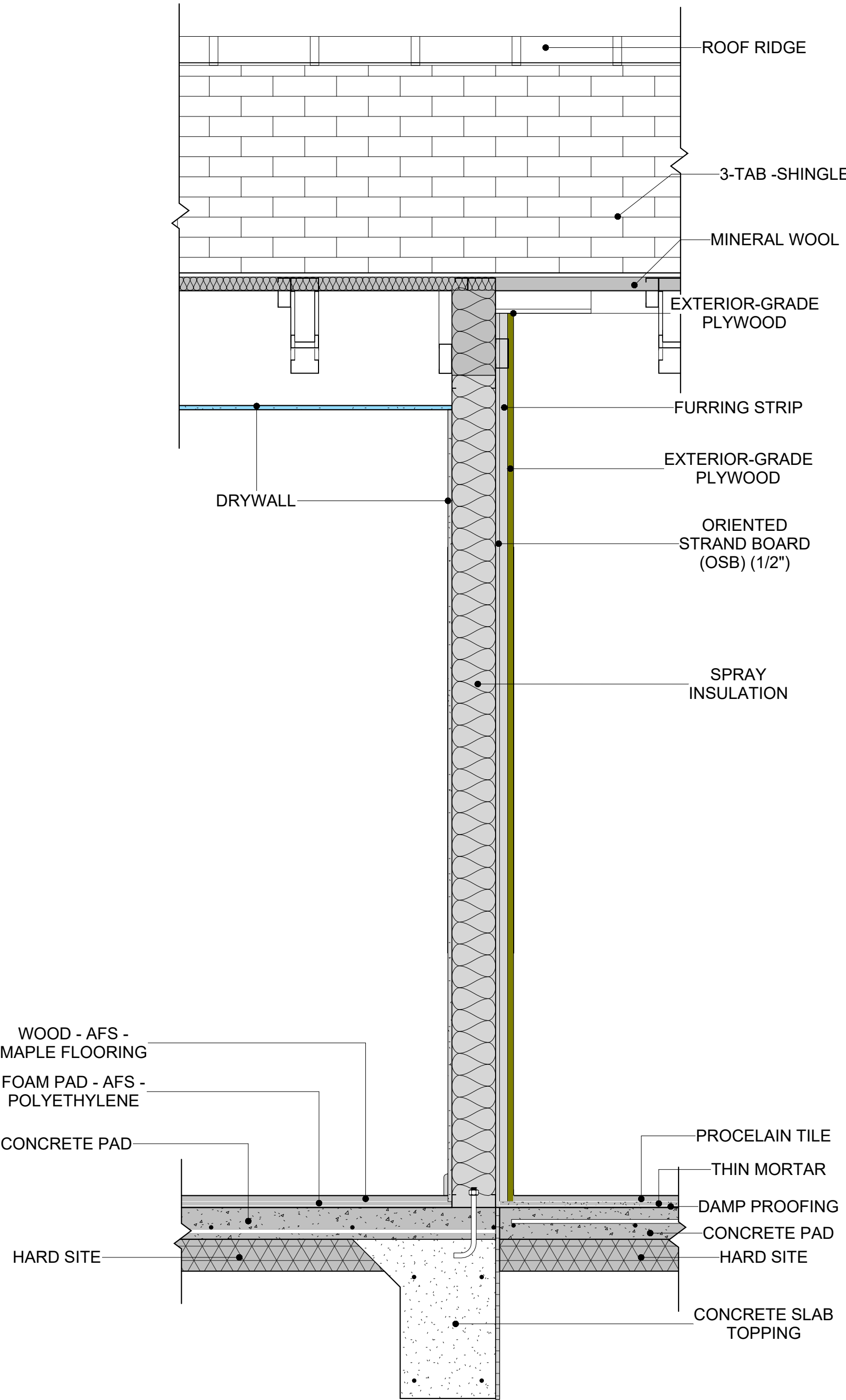
5 ROOF ON WALL 2
1" = 1'-0"



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



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



7 BUILDING SECTION
1" = 1'-0"

CASEWORK GENERAL NOTES

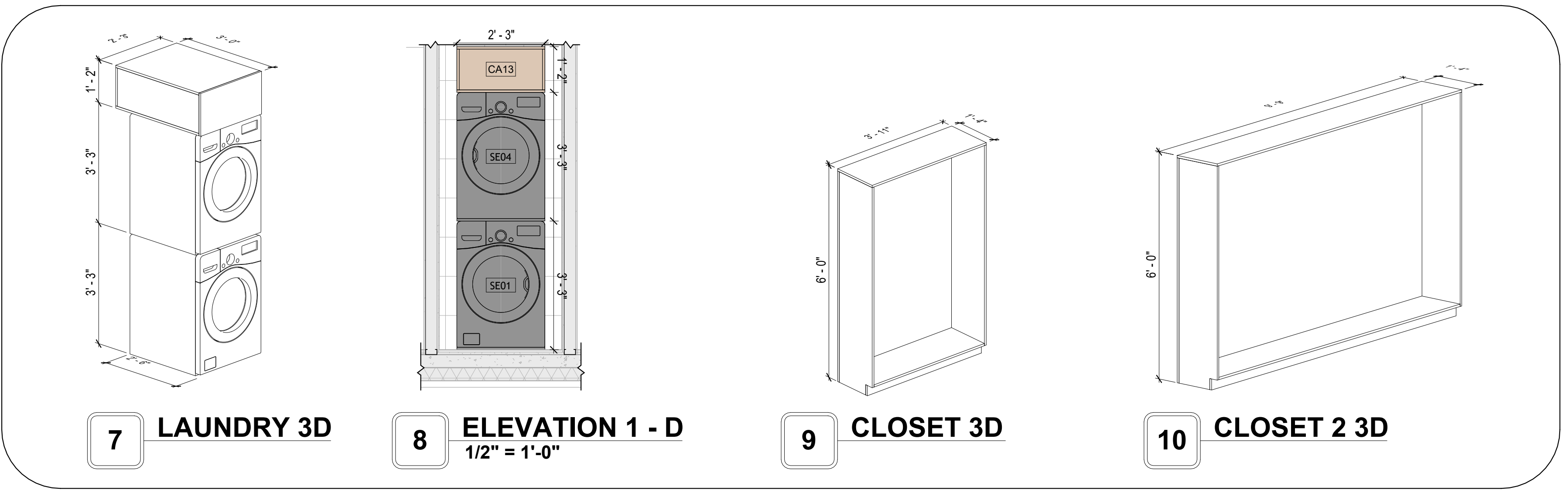
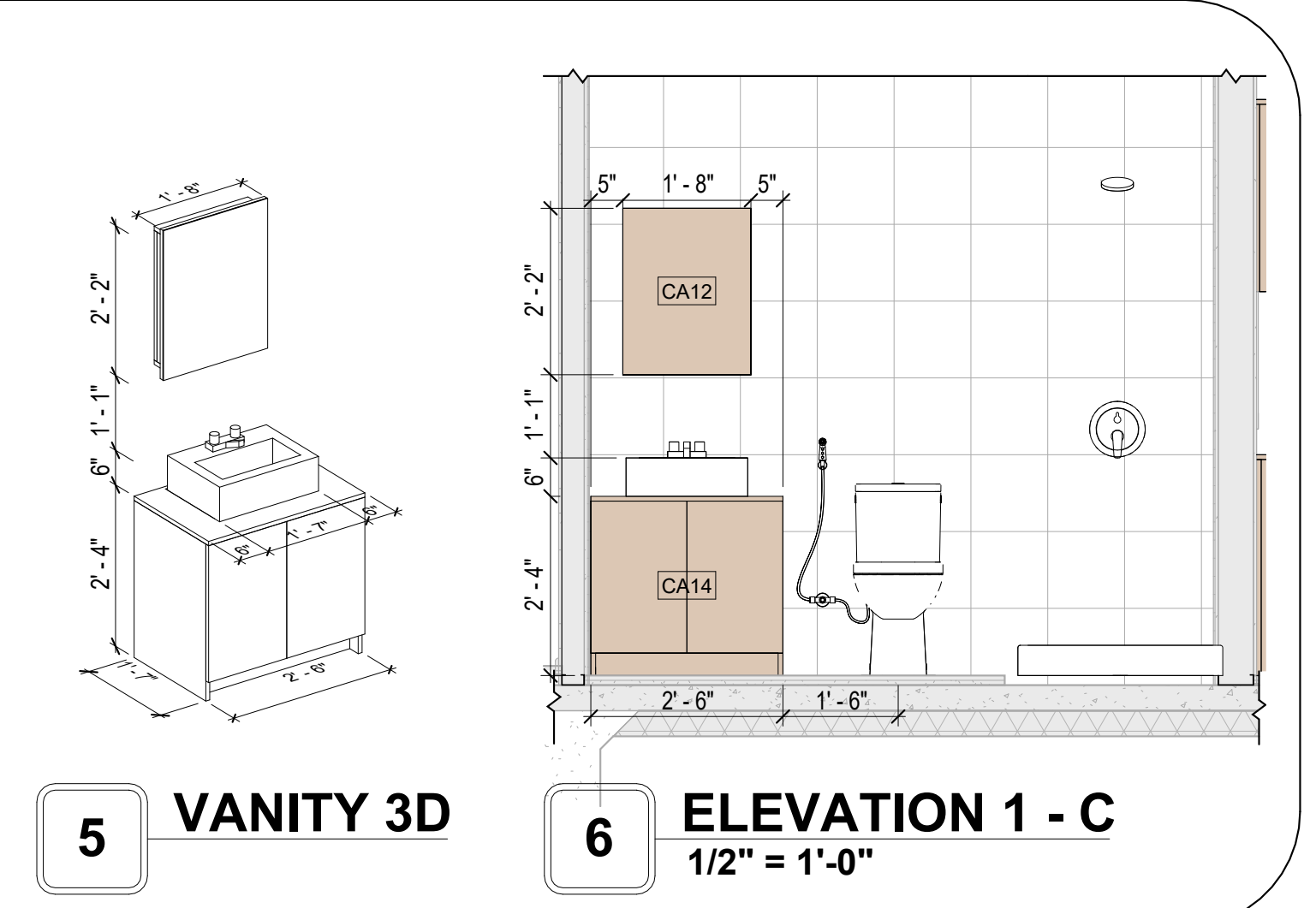
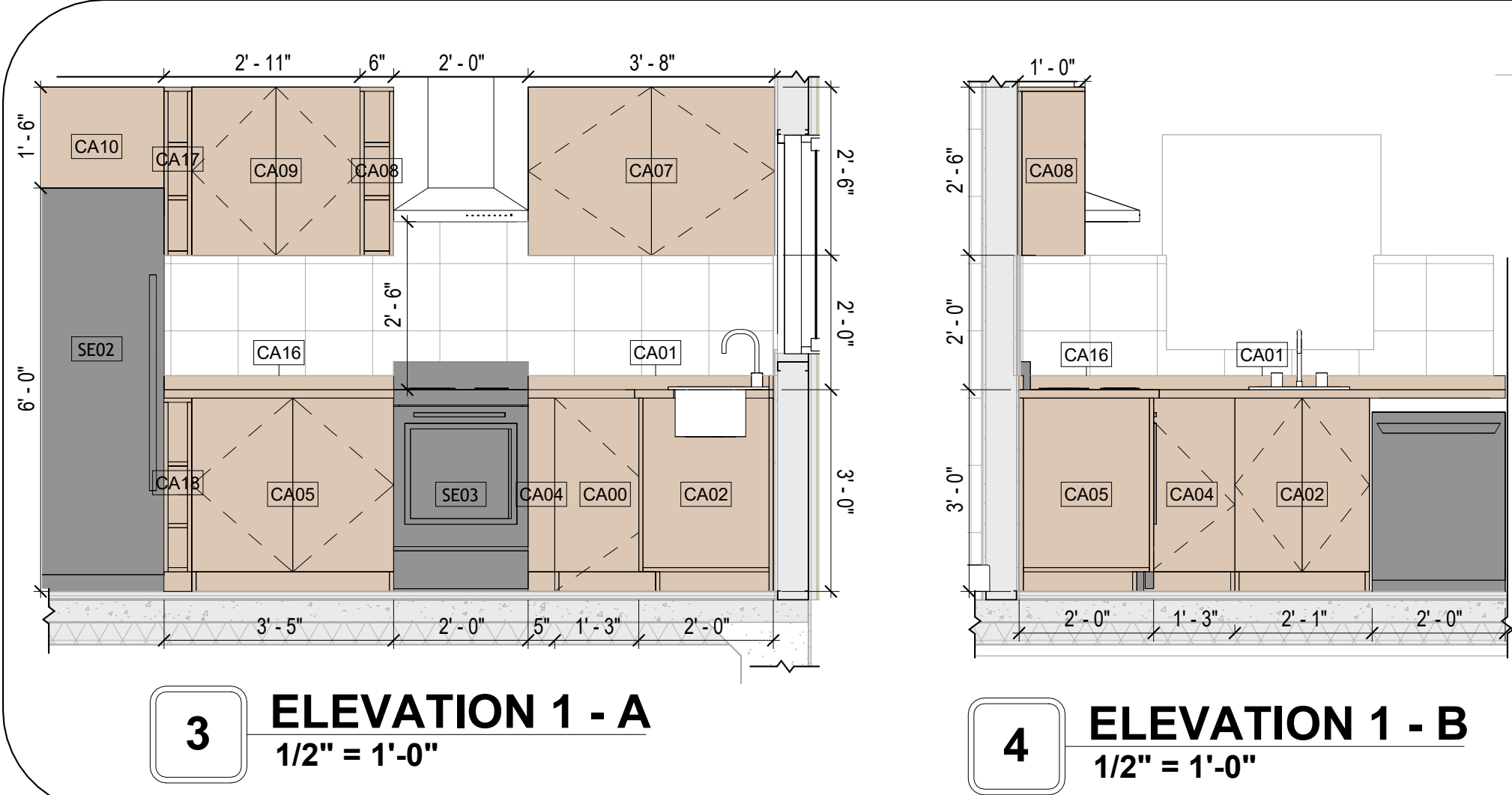
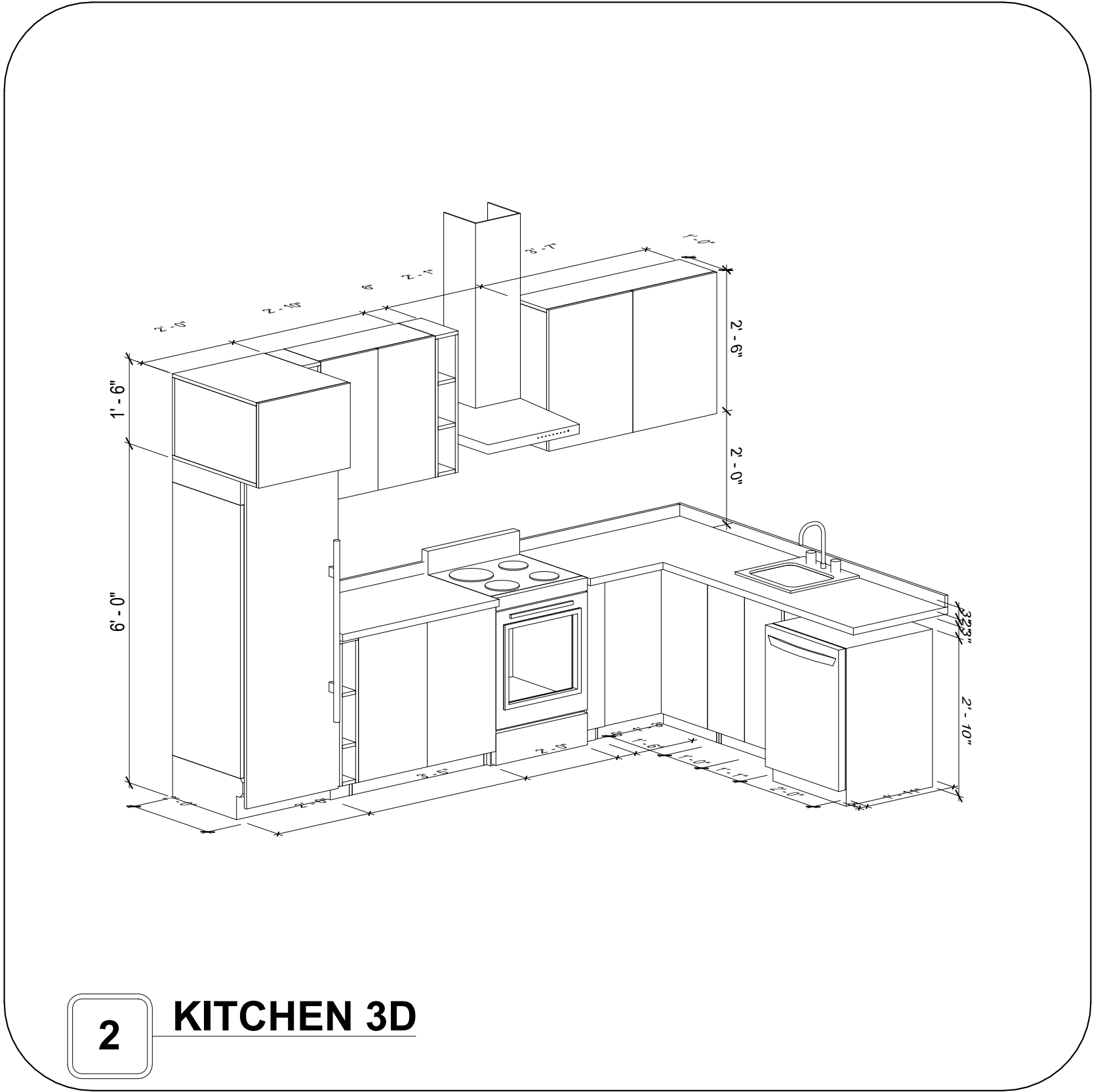
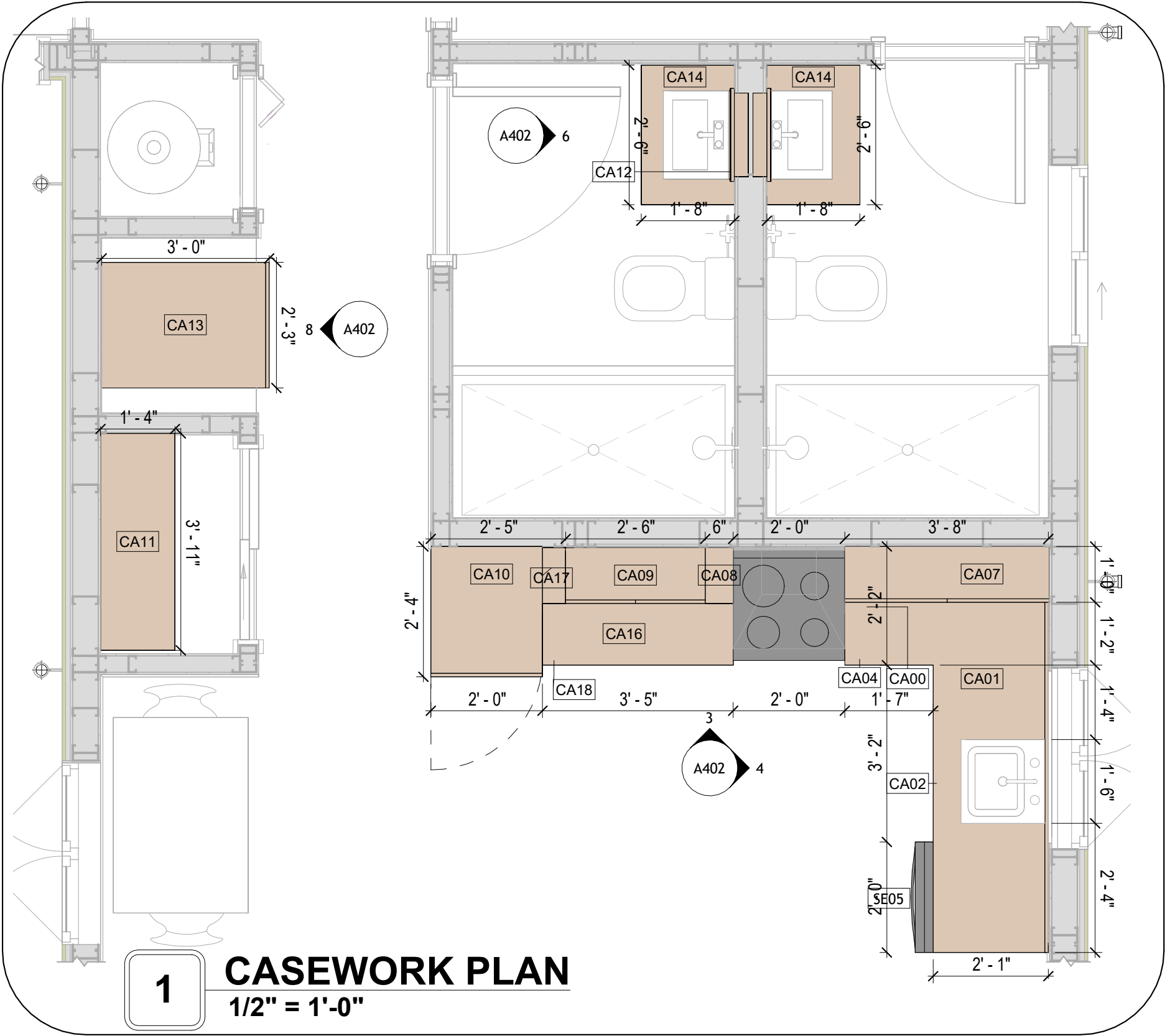
- ALL CABINET HEIGHTS INCLUDE COUNTERTOPS. DIMENSIONS ARE TO THE NEAREST INCH.
- DIVISIONS IN CASEWORK ARE SHOWN FOR CLARITY AND DO NOT REPRESENT BREAKS IN THE COUNTERTOP.
- PROVIDE CONTINUOUS COUNTERTOP OVER ALL SIMILAR HEIGHT CASEWORK, UNLESS AND OTHERWISE NOTED.
- MANUFACTURER AND CATALOG NUMBERS ARE FOR REFERENCE AND ILLUSTRATION PURPOSES ONLY.
- 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.
- ALL CABINETS AND DRAWERS TO HAVE CAM LOCKS EXCEPT FOR SINK BASE CABINETS.
- ALL EXPOSED SURFACES (EXPOSED TO VIEW FROM ANY PERSPECTIVE) TO BE COVERED WITH LAMINATE.
- 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.
- ALL CABINETS AND DRAWERS ARE PROVIDED WITH RECESSED HANDLES.
- CONTRACTOR TO FIELD VERIFY ALL CLEAR OPENINGS PRIOR TO MILLWORK OR CASEWORK FABRICATION.
- CASEWORK DRAWINGS ARE DIAGRAMMATIC IN NATURE TO SHOW DESIGN INTENT.

CASEWORK SCHEDULE

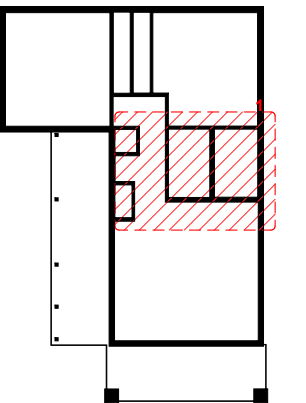
TYPE MARK	TYPE	COUNT	HEIGHT	WIDTH	DEPTH	AREA
00	BASE CABINET L-SHAPED 2	1	2' - 11"	3' - 3"	3' - 3"	9 SF
01	L-SHAPE COUNTER TOP	1	0' - 4"	7' - 0"	7' - 0"	2 SF
02	BASE CABINET DOUBLE DOOR 1	1	2' - 11"	2' - 0"	2' - 0"	6 SF
04	WALL FILLER	1	2' - 11"	0' - 5"	2' - 0"	1 SF
05	BASE CABINET DOUBLE DOOR 2	1	2' - 11"	3' - 0"	2' - 0"	9 SF
07	WALL CABINET DOUBLE DOOR 1	1	2' - 6"	3' - 8"	1' - 0"	9 SF
08	WALL FILLER	1	2' - 6"	0' - 6"	1' - 0"	1 SF
09	WALL CABINET DOUBLE DOOR 2	1	2' - 6"	2' - 6"	1' - 0"	6 SF
10	LAUNDRY OPEN CABINET	1	1' - 6"	2' - 0"	2' - 4"	3 SF
11	CLOSET 1	1	6' - 0"	3' - 11"	1' - 4"	23 SF
12	RECESSED_MED_CABINET	2	2' - 0"	1' - 6"	0' - 3"	3 SF
13	LAUNDRY OPEN CABINET 2	1	1' - 2"	2' - 3"	3' - 0"	3 SF
14	VANITY	2	2' - 4"	2' - 6"	1' - 8"	6 SF
15	CLOSET 2	2	6' - 0"	9' - 9"	1' - 4"	58 SF
16	LINEAR COUNTER TOP 2.2	1	0' - 4"	3' - 5"	2' - 1"	1 SF
17	WALL FILLER 2.2	1	2' - 6"	0' - 5"	1' - 0"	1 SF
18	BASE FILLER_1 2.2	1	2' - 11"	0' - 5"	2' - 0"	1 SF
GRAND TOTAL		20				

SPECIALTY EQUIPMENT SCHEDULE

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



KEY PLAN



NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

129-ORION-910-2BD
2BA-CRAFTSMAN-PORCH-550

DRAWING NAME

ARCHITECTURAL CASEWORK

CLIENT NAME: Client Name
PROJECT NUMBER: 0033_15
DATE: 3/21/2025 10:33:19 AM
DESIGNED BY: Designer
DRAWN BY: Author
CHECKED BY: Checker

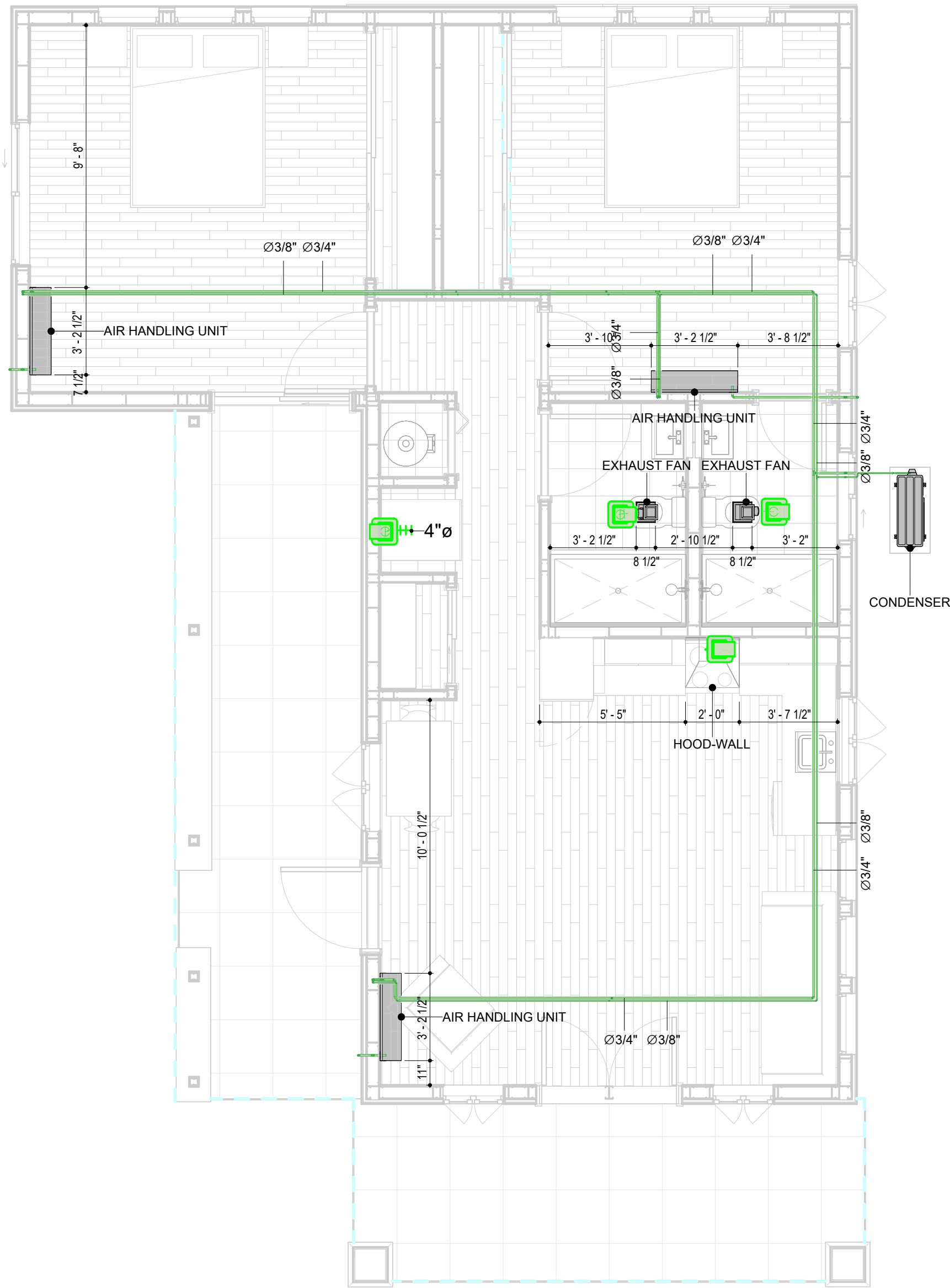
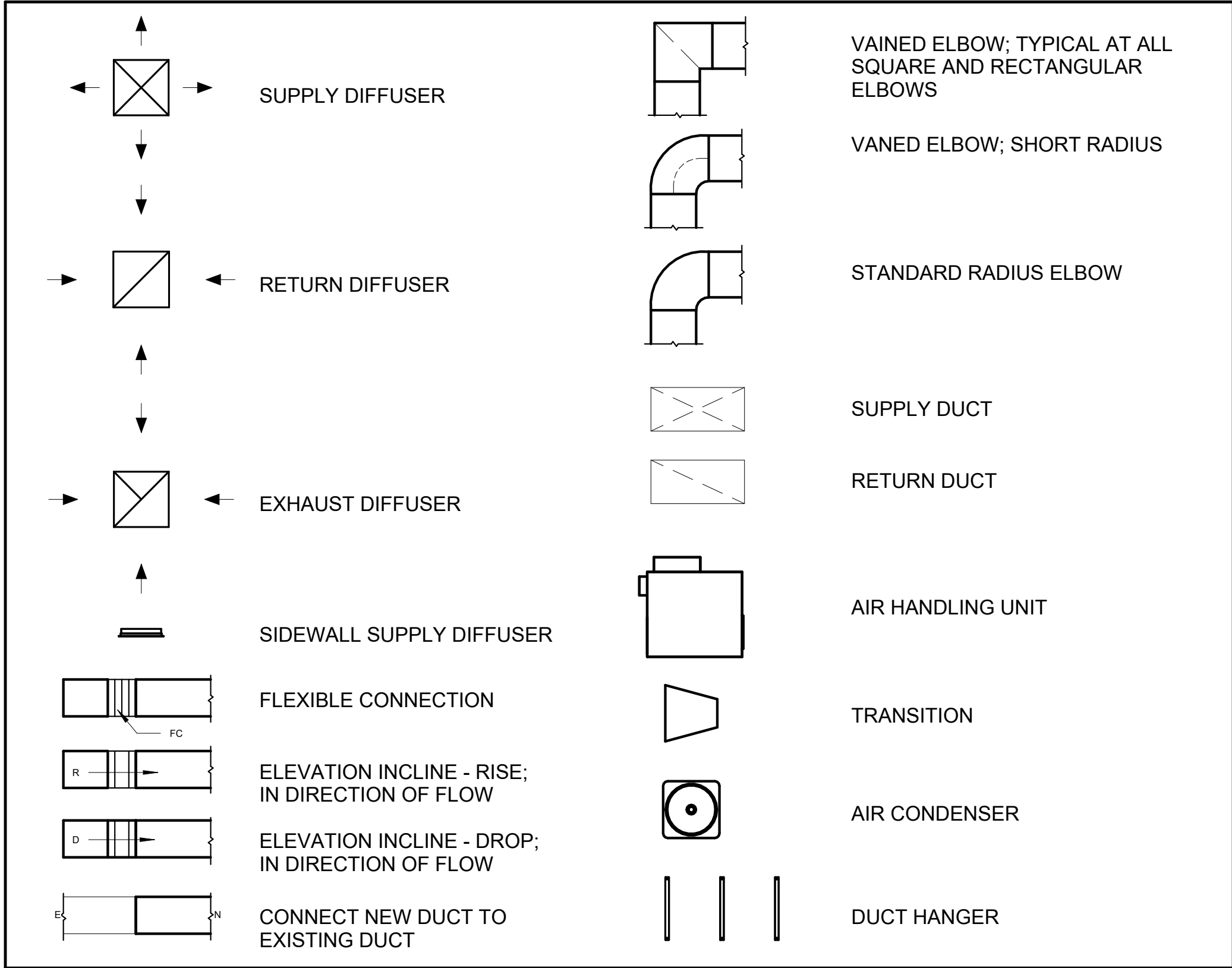
A402

SCALE: As indicated

GENERAL NOTES

1. THIS DRAWING DEPICTS THE HVAC (HEATING, VENTILATION, AND AIR CONDITIONING) SYSTEM FOR THE ORION 2BD1BA CRAFTSMAN BASE. 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 BE MODIFIED 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 TRADES 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



1 HVAC PLAN

HVAC COLOR SCHEME

	AIR CONDITIONING PIPE LINE
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AIR CONDITIONING PIPE
LINE

REFRIGERANT LINE SCHEDULE			
CATEGORY	DESCRIPTION	DIAMETER	LENGTH

CATEGORY	DESCRIPTION	DIAMETER	LENGTH
PIPE TYPES	COPPER	1/4"	2.02
PIPE TYPES	COPPER	3/8"	98.08
PIPE TYPES	COPPER	1/2"	0.68
PIPE TYPES	COPPER	3/4"	122.23

[illegible]

CATAGORY	DESCRIPTION	Size	Count
ELBOW - GENERIC	ELBOW - GENERIC: STANDARD/HVAC	1/2"ø-1/2"ø	1
ELBOW - GENERIC	ELBOW - GENERIC: STANDARD/HVAC	1/4"ø-1/4"ø	3
ELBOW - GENERIC	ELBOW - GENERIC: STANDARD/HVAC	3/4"ø-3/4"ø	28
ELBOW - GENERIC	ELBOW - GENERIC: STANDARD/HVAC	3/8"ø-3/8"ø	21
TEE - GENERIC	TEE - GENERIC: STANDARD	3/4"ø-3/4"ø-3/4"ø	2
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

MECHANICAL EQUIPMENT SCHEDULE		
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CATAGORY	DESCRIPTION	COUNT
AIR HANDLING UNIT	AIR HANDLING UNIT: WALL MOUNTED	3
CONDENSER	CONDENSER: OUT DOOR	1
EXHAUST FAN	EXHAUST FAN: 75 CFM	2
	HOOD-WALL: VENT	1

DUCT FITTING SCHEDULE		
CLASSIFY	DESCRIPTION	QUANTITY
1	1" DIA. GALV. STEEL DUCT	100
2	2" DIA. GALV. STEEL DUCT	50
3	3" DIA. GALV. STEEL DUCT	25
4	4" DIA. GALV. STEEL DUCT	15
5	5" DIA. GALV. STEEL DUCT	10
6	6" DIA. GALV. STEEL DUCT	5
7	7" DIA. GALV. STEEL DUCT	5
8	8" DIA. GALV. STEEL DUCT	5
9	9" DIA. GALV. STEEL DUCT	5
10	10" DIA. GALV. STEEL DUCT	5
11	12" DIA. GALV. STEEL DUCT	5
12	14" DIA. GALV. STEEL DUCT	5
13	16" DIA. GALV. STEEL DUCT	5
14	18" DIA. GALV. STEEL DUCT	5
15	20" DIA. GALV. STEEL DUCT	5
16	24" DIA. GALV. STEEL DUCT	5
17	30" DIA. GALV. STEEL DUCT	5
18	36" DIA. GALV. STEEL DUCT	5
19	42" DIA. GALV. STEEL DUCT	5
20	48" DIA. GALV. STEEL DUCT	5
21	54" DIA. GALV. STEEL DUCT	5
22	60" DIA. GALV. STEEL DUCT	5
23	66" DIA. GALV. STEEL DUCT	5
24	72" DIA. GALV. STEEL DUCT	5
25	78" DIA. GALV. STEEL DUCT	5
26	84" DIA. GALV. STEEL DUCT	5
27	90" DIA. GALV. STEEL DUCT	5
28	96" DIA. GALV. STEEL DUCT	5
29	102" DIA. GALV. STEEL DUCT	5
30	108" DIA. GALV. STEEL DUCT	5
31	114" DIA. GALV. STEEL DUCT	5
32	120" DIA. GALV. STEEL DUCT	5
33	126" DIA. GALV. STEEL DUCT	5
34	132" DIA. GALV. STEEL DUCT	5
35	138" DIA. GALV. STEEL DUCT	5
36	144" DIA. GALV. STEEL DUCT	5
37	150" DIA. GALV. STEEL DUCT	5
38	156" DIA. GALV. STEEL DUCT	5
39	162" DIA. GALV. STEEL DUCT	5
40	168" DIA. GALV. STEEL DUCT	5
41	174" DIA. GALV. STEEL DUCT	5
42	180" DIA. GALV. STEEL DUCT	5
43	186" DIA. GALV. STEEL DUCT	5
44	192" DIA. GALV. STEEL DUCT	5
45	198" DIA. GALV. STEEL DUCT	5
46	204" DIA. GALV. STEEL DUCT	5
47	210" DIA. GALV. STEEL DUCT	5
48	216" DIA. GALV. STEEL DUCT	5
49	222" DIA. GALV. STEEL DUCT	5
50	228" DIA. GALV. STEEL DUCT	5
51	234" DIA. GALV. STEEL DUCT	5
52	240" DIA. GALV. STEEL DUCT	5
53	246" DIA. GALV. STEEL DUCT	5
54	252" DIA. GALV. STEEL DUCT	5
55	258" DIA. GALV. STEEL DUCT	5
56	264" DIA. GALV. STEEL DUCT	5
57	270" DIA. GALV. STEEL DUCT	5
58	276" DIA. GALV. STEEL DUCT	5
59	282" DIA. GALV. STEEL DUCT	5
60	288" DIA. GALV. STEEL DUCT	5
61	294" DIA. GALV. STEEL DUCT	5
62	300" DIA. GALV. STEEL DUCT	5
63	306" DIA. GALV. STEEL DUCT	5
64	312" DIA. GALV. STEEL DUCT	5
65	318" DIA. GALV. STEEL DUCT	5
66	324" DIA. GALV. STEEL DUCT	5
67	330" DIA. GALV. STEEL DUCT	5
68	336" DIA. GALV. STEEL DUCT	5
69	342" DIA. GALV. STEEL DUCT	5
70	348" DIA. GALV. STEEL DUCT	5
71	354" DIA. GALV. STEEL DUCT	5
72	360" DIA. GALV. STEEL DUCT	5
73	366" DIA. GALV. STEEL DUCT	5
74	372" DIA. GALV. STEEL DUCT	5
75	378" DIA. GALV. STEEL DUCT	5
76	384" DIA. GALV. STEEL DUCT	5
77	390" DIA. GALV. STEEL DUCT	5
78	396" DIA. GALV. STEEL DUCT	5
79	402" DIA. GALV. STEEL DUCT	5
80	408" DIA. GALV. STEEL DUCT	5
81	414" DIA. GALV. STEEL DUCT	5
82	420" DIA. GALV. STEEL DUCT	5
83	426" DIA. GALV. STEEL DUCT	5
84	432" DIA. GALV. STEEL DUCT	5
85	438" DIA. GALV. STEEL DUCT	5
86	444" DIA. GALV. STEEL DUCT	5
87	450" DIA. GALV. STEEL DUCT	5
88	456" DIA. GALV. STEEL DUCT	5
89	462" DIA. GALV. STEEL DUCT	5
90	468" DIA. GALV. STEEL DUCT	5
91	474" DIA. GALV. STEEL DUCT	5
92	480" DIA. GALV. STEEL DUCT	5
93	486" DIA. GALV. STEEL DUCT	5
94	492" DIA. GALV. STEEL DUCT	5
95	498" DIA. GALV. STEEL DUCT	5
96	504" DIA. GALV. STEEL DUCT	5
97	510" DIA. GALV. STEEL DUCT	5
98	516" DIA. GALV. STEEL DUCT	5
99	522" DIA. GALV. STEEL DUCT	5
100		

CATAGORY	DESCRIPTION	COUNT
ROUND TRANSITION - ANGLE	45 DEGREE	7

DUCT ACCESSORY SCHEDULE		
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CATAGORY	DESCRIPTION	COUNT
ROOF VENT	3" DIAMETER	4

FLEX DUCT SCHEDULE				
DESCRIPTION	DESCRIPTION	LENGTH	DIAMETER	COUNT

DESCRIPTION	DESCRIPTION	LENGTH	DIAMETER	COUNT
FLEX DUCT ROUND	FLEX-ROUND	10.58	4"	4
GRAND TOTAL: 4		10.58		

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KEY PLAN

[illegible]

NOTE:

LEGEND:

PROJECT

**129-Orion-910-2Bd 2Ba
Craftsman-Porch-550**

DRAWING NAME

HVAC COVER

CLIENT NAME:	Owner
PROJECT NUMBER:	15_0001
DATE:	3/15/2025 6:46:33 AM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

M101

SCALE: **As indicated**

ELECTRICAL NOTES

1. THIS DRAWING DEPICTS THE ELECTRICAL SYSTEM FOR THE 129-Orion-910-2Bd 1Ba-Craftsman-Porch-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 DIMENSIONED.
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	910 @ 3W	2,730 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		26,030 W
FRIST 10,000 @ 100%		10,000 W
REMAINDER @ 40%		6,412W
MINI. SPLIT UNITS		10,000 W
TOTAL		26,412 W
26,412 W DIVIDED BY 240V = 110 AMPS TOTAL		
(USE 200 AMP SERVICE)		

Branch Panel: Location: CL 1.10 Volver: 120/240 Single ALC Rating:

Location: C1110	VOLTS: 120/240 Single	A.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	BED 1& 2 LIGHT AND SMOKEDETECTOR	19	20 A	30' - 1 27/32"	1-#12, 1-#12, 1-#12	956 VA	456 VA			1-#12, 1-#12, 1-#12	54' - 1 3/32"	20 A	11	KITCHEN & HALL LIGHT	2
3	OUTDOOR LIGHT	8	15 A	58' - 5 31/32"	1-#14, 1-#14, 1-#14			500 VA	209 VA	1-#14, 1-#14, 1-#14	55' - 4 19/32"	15 A	6	LIVING LIGHT	4
5	WATER HEATER	1	30 A	27' - 6 27/32"	2-#10, 1-#10, 1-#10	2250 VA	2500 VA			2-#10, 1-#10, 1-#10	29' - 0 19/32"	30 A	1	DRYER	6
7	--	--	--	--	--			2250 VA	2500 VA	--	--	--	--	--	8
9	WASHEING MASHEIN	1	20 A	29' - 8 31/32"	1-#12, 1-#12, 1-#12	1200 VA	2500 VA			2-#8, 1-#8, 1-#10	42' - 4 7/32"	40 A	1	RANGE	10
11	KITCHEN GFCI	3	20 A	49' - 3 3/16"	1-#12, 1-#12, 1-#12			540 VA	2500 VA	--	--	--	--	--	12
13	REFRIGERATOR	1	20 A	36' - 10 15/16"	1-#12, 1-#12, 1-#12	1800 VA	1200 VA			1-#12, 1-#12, 1-#12	55' - 10 1/32"	20 A	1	DISHWASHER	14
15	LIV. RECEPTACLE	6	20 A	64' - 6 25/32"	1-#12, 1-#12, 1-#12			1080 VA	396 VA	1-#12, 1-#12, 1-#12	52' - 0 3/16"	20 A	6	BATH 1 LIGHT & GFCI	16
17	OUTDOOR GFCI	4	20 A	66' - 6 17/32"	1-#12, 1-#12, 1-#12	720 VA	2500 VA			2-#6, 1-#6, 1-#10	45' - 2 9/32"	60 A	1	CONDENSER	18
19	BED 2 LIGHT & GFCI	7	20 A	37' - 5 15/32"	1-#12, 1-#12, 1-#12			396 VA	2500 VA	--	--	--	--	--	20
21	OVEN HOOD	1	20 A	39' - 10 17/32"	1-#12, 1-#12, 1-#12	180 VA									22
23															24
25															26
						16259 VA	12844 VA								
						135 A	107 A								

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
LIGHTING - DWELLING UNIT	800 VA	100.00%	800 VA	
OTHER	1476 VA	100.00%	1476 VA	Total Conn. Load: 29103 VA
RECEPTACLE	5280 VA	100.00%	5280 VA	Total Est. Demand: 28103 VA
LIGHTING	300 VA	100.00%	300 VA	Total Conn.: 121 A
CONDENSER	5000 VA	100.00%	5000 VA	Total Est. Demand: 117 A
WATER HEATER	4500 VA	100.00%	4500 VA	
RANGE	5000 VA	80.00%	4000 VA	
DRYER	5000 VA	100.00%	5000 VA	
REFRIGERATOR	1800 VA	100.00%	1800 VA	

Notes:

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

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KEY PLAN

[illegible]

NOTE:

LEGEND:

PROJECT

129-Orion-910-2Bd
2Ba-Craftsman-Porch-550

DRAWING NAME

SCHEDULE

CLIENT NAME:	Owner
PROJECT NUMBER:	0367_13
DATE:	3/15/2025 5:05:11 PM
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

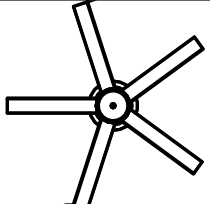
E4001.5 GROUNDING OF ENCLOSURES.

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

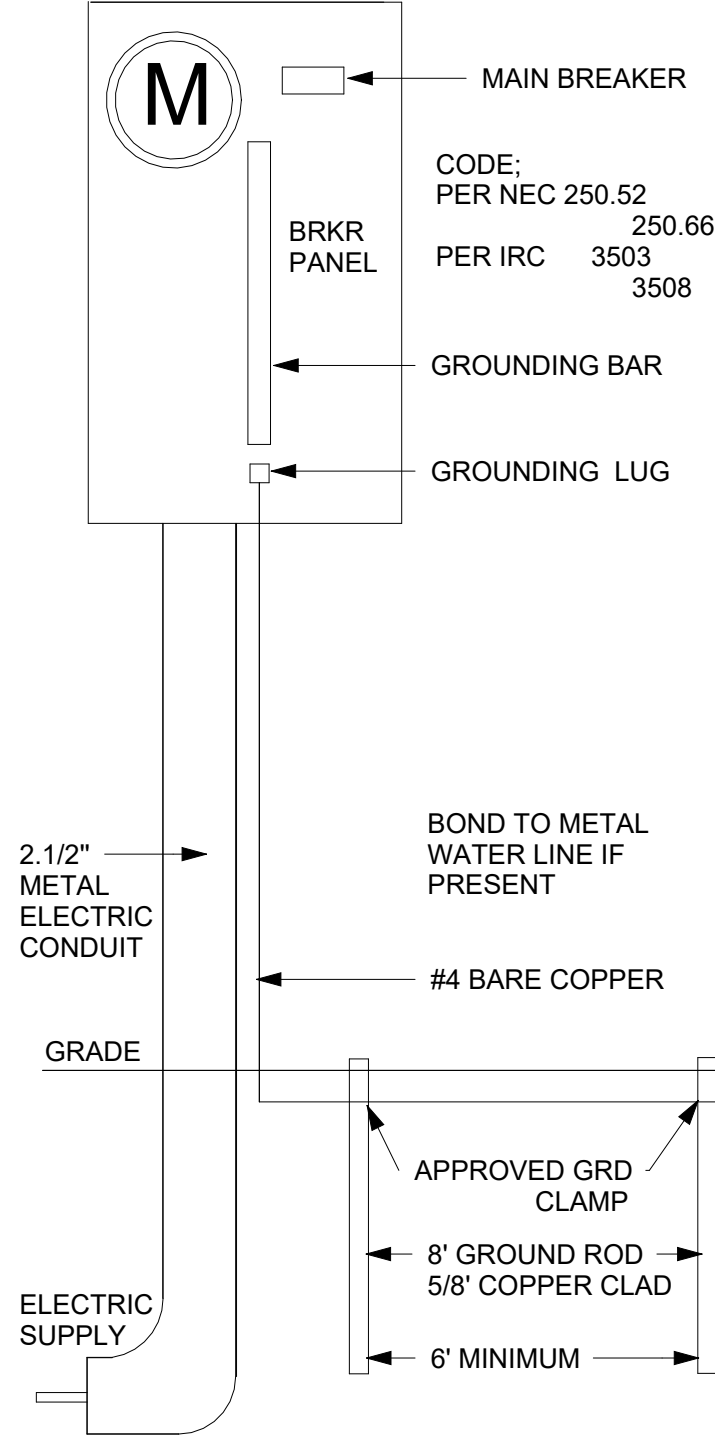
METAL ENCLOSURES FOR SWITCHES OR CIRCUIT BREAKERS USED AS SERVICE EQUIPMENT SHALL COMPLY WITH THE PROVISIONS OF SECTION E3609.4. WHERE NONMETALLIC ENCLOSURES ARE USED WITH METAL RACEWAYS OR METAL-ARMORED CABLES, PROVISIONS SHALL BE MADE FOR CONNECTING THE EQUIPMENT GROUNDING CONDUCTOR.

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"

KEY PLAN

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

129-Orion-910-2Bd
2Ba-Craftsman-Porch-550

DRAWING NAME

LIGHTING

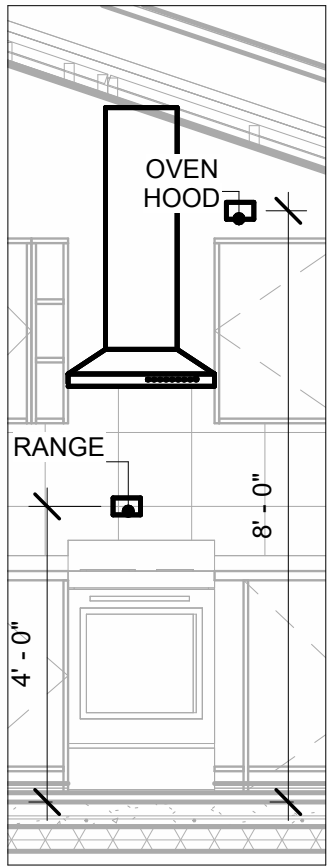
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PROJECT NUMBER:	0367_13
DATE:	3/15/2025 5:05:13 PM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

E102

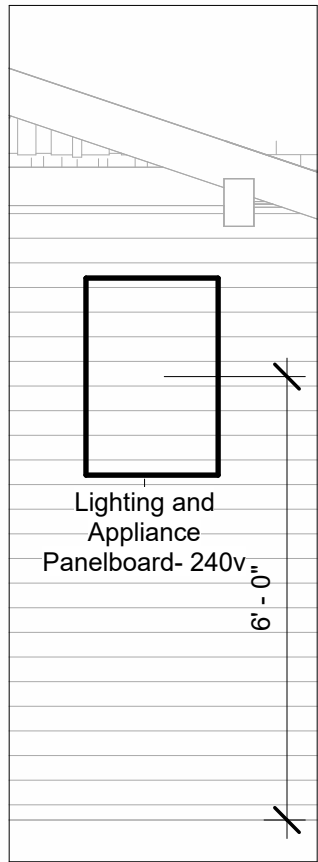
SCALE: As indicated

NOTES: CONDUIT, CABLE AND WIRING

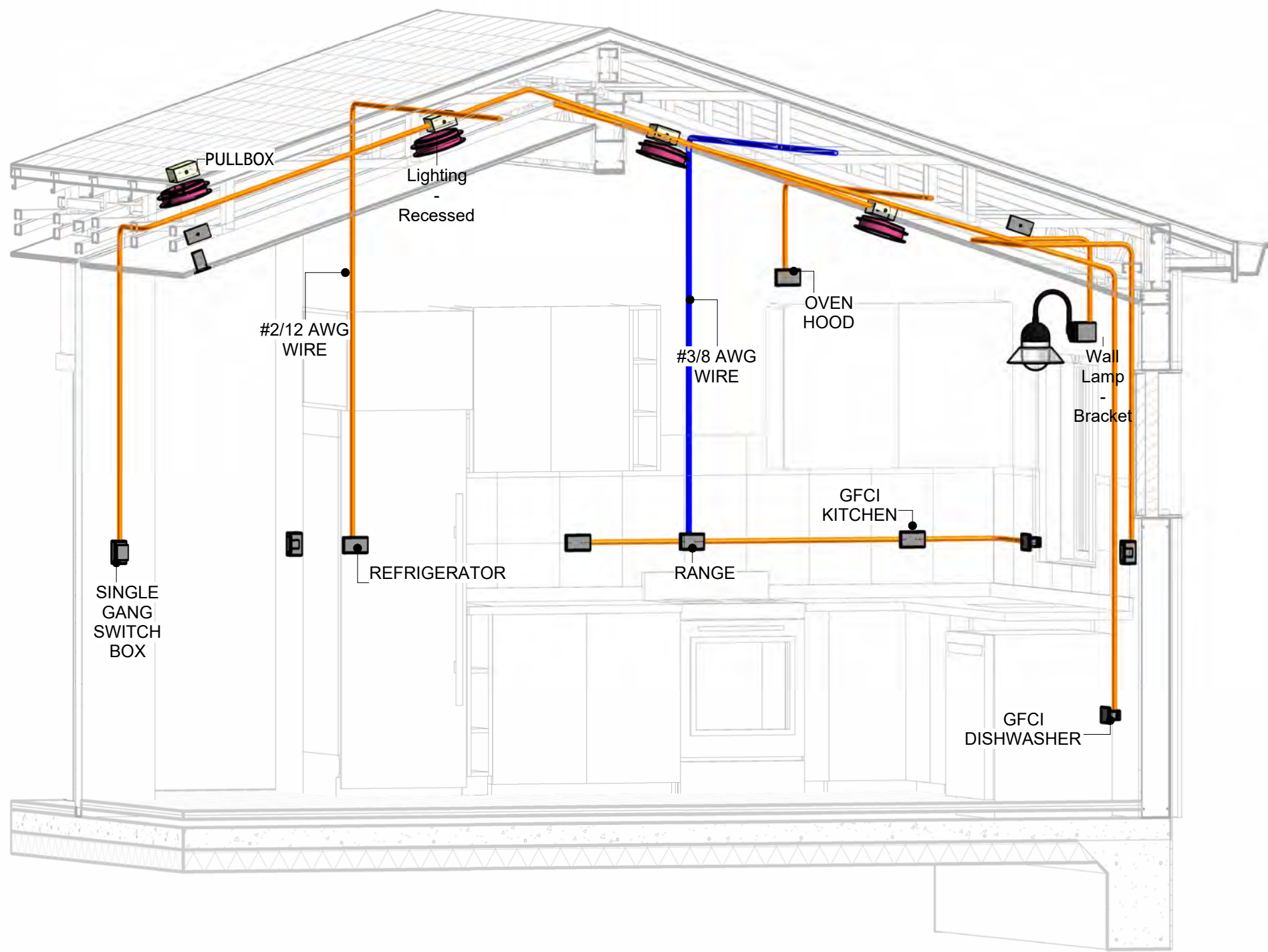
1. Use Metallic Conduits (IMC) for cables running under concrete slabs.
2. Use IMC for circuits with high voltage appliances (240 volts and above)
3. For circuits with 120 volts consider using EMT or PVC conduits if needed.
4. For Low voltage applications up to 50 volts consider using non metallic conduits.
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.



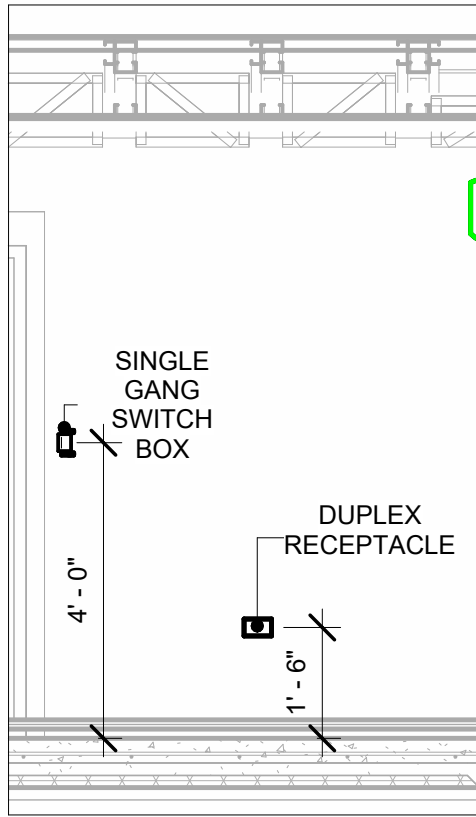
2 Range & OvenHood
3/8" = 1'-0"



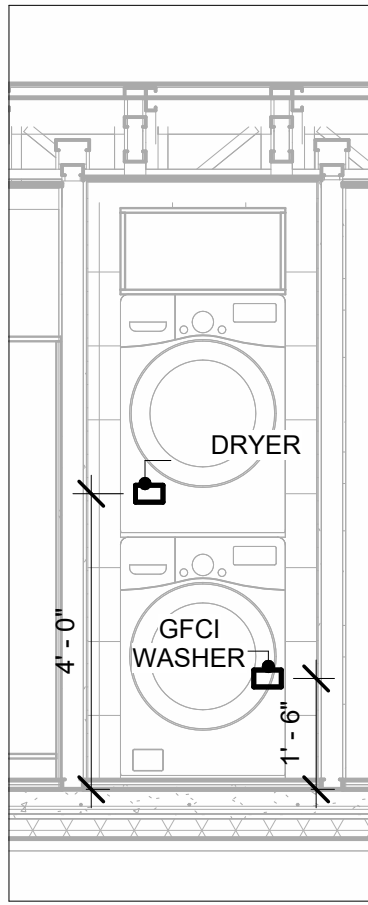
3 Panel
3/8" = 1'-0"



1 3D-KITCHEN

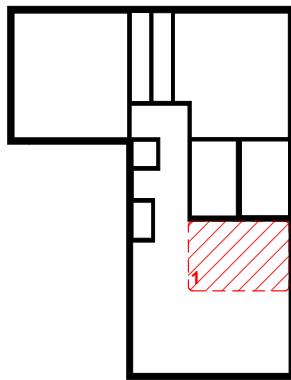


4 Switch & Receptacle
3/8" = 1'-0"



5 Dryer & Washer
3/8" = 1'-0"

KEY PLAN



NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

129-Orion-910-2Bd
2Ba-Craftsman-Porch-550

DRAWING NAME

POWER

CLIENT NAME:	Owner
PROJECT NUMBER:	0367_13
DATE:	3/15/2025 5:05:39 PM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

E103

SCALE: As indicated

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.

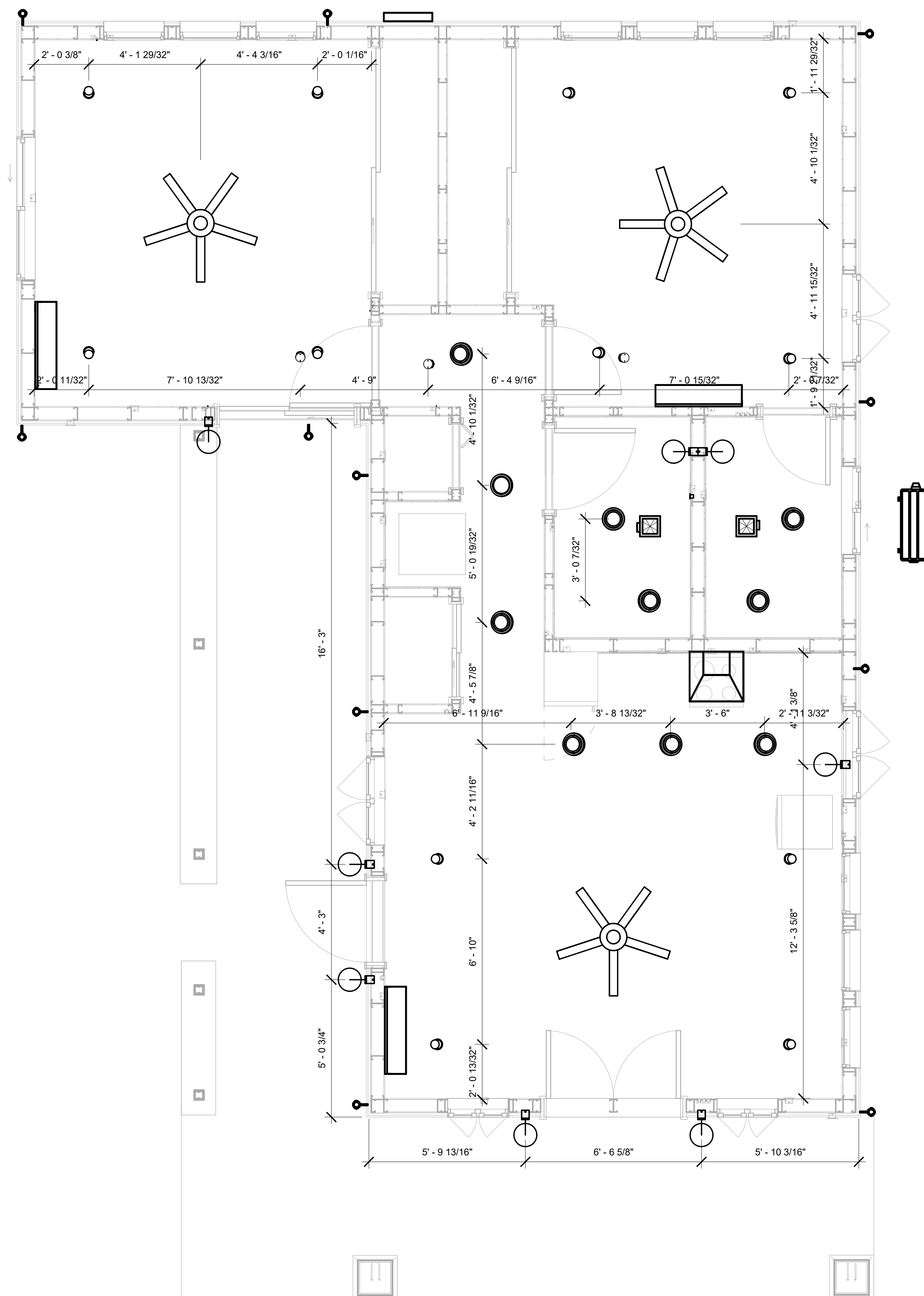
1. THE MINIMUM SIZE OF JUNCTION BOX TO BE USED IS 2"x4"x(1.5" OR 3.5" DEEP) THIS ARE TO BE USED FOR SINGLE GANG SWITCH OR OUTLETS.
2. FOR DOUBLE GANG (2 GANG) OUTLETS AND SWITCHS THE MINIMUM SIZE OF THE JUNCTION BOX TO BE PROVIDED SHALL NOT BE LESS THAN 4"x4"x(1.5" OR 3.5" DEEP)
3. FOR THREE GANG (3 GANG) OUTLETS AND SWITCHS THE MINIMUM SIZE OF THE JUNCTION BOX SHALL NOT BE LESS THAN 6"x4"x(1.5" OR 3.5" DEEP).

FAMILY	COUNT	DESCRIPTION
PULLBOX1	28	#1/4 PULLBOX

TYPE	COUNT
DOUBLE GANG SWITCH BOX	3
SINGLE GANG SWITCH BOX	8
TRIPLE GANG SWITCH BOX	2

TYPE	COUNT
DIMMER	6
FAN SWITCH	2
SINGLE POLE	6
THREE WAY WITH DIMMER	7

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	3
LIGHTING - RECESSED	120 V/1-60 VA	200 A, 120 V/240 V, SINGLE PHASE, 3 WIRES	10
SASSO 100 ROUND WALLWASHER TRIM	120 V/1-28 VA	200 A, 120 V/240 V, SINGLE PHASE, 3 WIRES	12
WALL LAMP - BRACKET	120 V/1-100 VA	200 A, 120 V/240 V, SINGLE PHASE, 3 WIRES	8



DIMENSION FOR LIGHT FIXTURES

[illegible]

LEGEND:

PROJECT

129-Orion-910-2Bd
2Ba-Craftsman-Porch-550

DRAWING NAME

DIMENSION PLAN FOR LIGHT FIXTURES

CLIENT NAME:	Owner
PROJECT NUMBER:	0367_13
DATE:	3/15/2025 5:05:41 PM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

E104

SCALE: As indicated

NOTES;

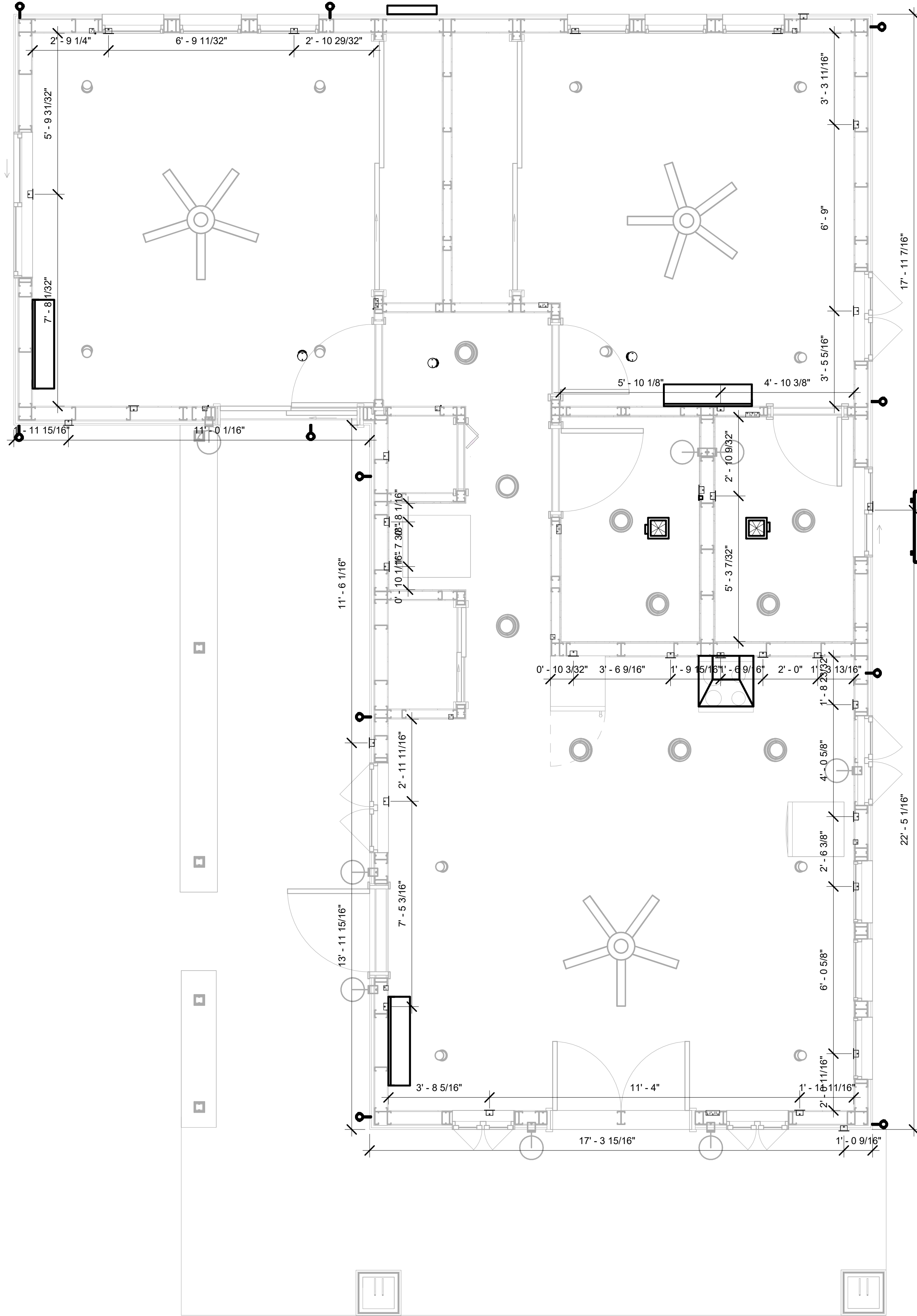
1. VERIFY EQUIPMENT PLUG CONFIGURATION BEFORE PURCHASING RECEPTACLES
2. FOR ALL EQUIPMENT.
3. COORDINATE EXACT LOCATION OF LIGHT FIXTURES, WALL SWITCHES, RECEPTACLES AND OTHER DEVICES WITH ARCHITECTURAL DRAWINGS.
4. USE METALLIC JUNCTION BOX WITH THE GFCI RECEPTACLES, WITH HIGHT VOLTAGE.

ELECTRICAL FIXTURE SCHEDULE (RECEPTACLE)

TYPE	COUNT
CONDENSER	1
DRYER	1
DUPLEX RECEPTACLE	15
GFCI BATH ROOM	2
GFCI DISHWASHER	1
GFCI KITCHEN	3
GFCI OUT DOOR	4
GFCI WASHER	1
OVEN HOOD	1
RANGE	1
REFRIGERATOR	1
WATER HEATER	1

ELECTRICAL OUTLET SCHEDULE

TYPE	CIRCUIT NUMBER	ELECTRICAL DATA	COUNT
DUPLEX RECEPTACLE		120 V/1-180 VA	9
WATER HEATER	5,7	240 V/2-4500 VA	1
DRYER	6,8	240 V/2-5000 VA	1
GFCI WASHER	9	120 V/1-1200 VA	1
RANGE	10,12	240 V/2-5000 VA	1
GFCI KITCHEN	11	120 V/1-180 VA	3
REFRIGERATOR	13	120 V/1-1800 VA	1
GFCI DISHWASHER	14	120 V/1-1200 VA	1
DUPLEX RECEPTACLE	15	120 V/1-180 VA	6
GFCI BATH ROOM	16	120 V/1-180 VA	1
GFCI OUT DOOR	17	120 V/1-180 VA	4
CONDENSER	18,20	240 V/2-5000 VA	1
GFCI BATH ROOM	19	120 V/1-180 VA	1
OVEN HOOD	21	120 V/1-180 VA	1



1

DIMENSION FOR FITTINGS

3/8" = 1'-0"

KEY PLAN

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

129-Orion-910-2Bd
2Ba-Craftsman-Porch-550

DRAWING NAME

DIMENSION PLAN
FOR FITTINGS

CLIENT NAME:	Owner
PROJECT NUMBER:	0367_13
DATE:	3/15/2025 5:05:43 PM
DESIGNED BY:	Designer
DRAWN BY:	Author
CHECKED BY:	Checker

E105

SCALE: As indicated

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

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 SHOUD BE 1/2".
22.

ANY PIPE INSTALLED UNDERGROUND MUST HAVE AT LEAST 12 INCHES OF CLEARANCE BETWEEN THE OUTSIDE OF THE PIPE AND ANY OTHER UNDERGROUND STRUCTURE.
23.

THE MINIMUM CLEARANCE BETWEEN COLD AND HOT WATER LINES IN RESIDENTIAL HOMES MAINTAIN A MINIMUM DISTANCE OF 6 INCHES.
24.

HORIZONTAL SEPARATION BETWEEN WATER AND SEWER LINES : A MINIMUM OF 12 INCHES BETWEEN POTABLE WATER SUPPLY LINES (COLD AND HOT WATER) AND 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"	13 ft
Acrylonitrile Butadiene Styrene (ABS)	2"	56 ft
Acrylonitrile Butadiene Styrene (ABS)	3"	9 ft
Cross-linked polyethylene (PEX)	1/2"	101 ft
Cross-linked polyethylene (PEX)	3/4"	63 ft
Polyvinyl Chloride - Rigid	2"	103 ft

FITTING SCHEDULE		
FITTING	Size	QTY
Domestic Cold Water		
PEX 90 Degree Elbow	1/2"ø-1/2"ø	16
PEX 90 Degree Elbow	3/4"ø-3/4"ø	4
PEX Tee Elbow	1/2"ø-1/2"ø-1/2"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	6
Domestic Hot Water		
PEX 90 Degree Elbow	1/2"ø-1/2"ø	10
PEX 90 Degree Elbow	3/4"ø-3/4"ø	3
PEX Tee Elbow	1/2"ø-1/2"ø-1/2"ø	6
PEX Transition Elbow	3/4"ø-1/2"ø	6

Rain Water		
Bend Rain Water System	2"ø-2"ø	20
Bend Sewerage System	2"ø-2"ø	7
PVC 90 Degree Bend Elbow	2"ø-2"ø	1
PVC TEE Elbow	2"ø-2"ø-2"ø	2

Sewage		
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	2
ABS Bend Long Sweep Elbow	2"ø-2"ø	1
ABS P-Trap	1 1/2"ø-1 1/2"ø	4
ABS P-Trap	2"ø-2"ø	1
ABS Reducer Elbow	2"ø-1 1/2"ø	2
ABS Reducer Elbow	3"ø-2"ø	3
ABS TEE Elbow	2"ø-2"ø-2"ø	1
ABS TEE Elbow	3"ø-3"ø-3"ø	1
ABS Trap P	2"ø-2"ø	1
ABS WASTE DOUBLE TEE	1 1/2"ø-1 1/2"ø-1 1/2"ø-1 1/2"ø	1
ABS WASTE DOUBLE TEE	2"ø-2"ø-2"ø-2"ø	1
ABS WASTE DOUBLE TEE	3"ø-3"ø-3"ø-3"ø	1
ABS Wye Combination with 8th Bend Elbow	2"ø-2"ø-1 1/2"ø	1
ABS Wye Combination with 8th Bend Elbow	3"ø-3"ø-1 1/2"ø	1
ABS Wye Combination with 8th Bend Elbow	3"ø-3"ø-2"ø	1
ABS Wye Combination with 8th Bend Elbow	3"ø-3"ø-3"ø	1

Vent		
ABS 90 Degree Bend Elbow	1 1/2"ø-1 1/2"ø	1
ABS Reducer Elbow	2"ø-1 1/2"ø	1
ABS TEE Elbow	2"ø-2"ø-2"ø	1
ABS Vent Cap Elbow	2"ø	3

WATER FIXTURE UNIT SCHEDULE			
Family	QTY	UNIT VALUE	TOTAL
Dishwasher	1	1.4	1.4
Shower Tray	2		0
Shower Trim	2	1.4	2.8
Sink Island Single	1	1.4	1.4
Vanity Sink	2		0
Washer	1	1.4	1.4
Water Closet	2	<varies>	2.2

WASTE FIXTURE UNIT SCHEDULE			
Family	QTY	DFU Values	TOTAL
Dishwasher	1	2	2
Shower Tray	2		0
Sink Island Single	1	2	2
Vanity Sink	2		0
Washer	1	2	2
Water Closet	2	<varies>	3

FIXTURE SCHEDULE		
fixture	QTY	Description
Dishwasher	1	
Dryer	1	
Shower Tray	2	
Shower Trim	2	
Sink Island Single	1	
Vanity Sink	2	
Washer	1	
Water Closet	2	
Water Heater	1	

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					
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	3"	3"	2"	1/2"	1/2"
Water Heater	N/A	N/A	N/A	3/4"	3/4"

ACCESSORIES & FITTINGS SCHEDULE		
fixture	QTY	Descriptions
DISHWASHER SUPPLY SINGLE CONNECTOR	1	
DISHWASHER SEWAGE SINGLE CONNECTOR	1	
Hanging pipe clamp	20	
Hose Bib	2	
LAUNDRY SWEAT CONNECTOR1	1	
Shutoff Valve	8	



KEY PLAN

NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

129-Orion-910-2Bd 2Ba
Craftsman-Porch-550

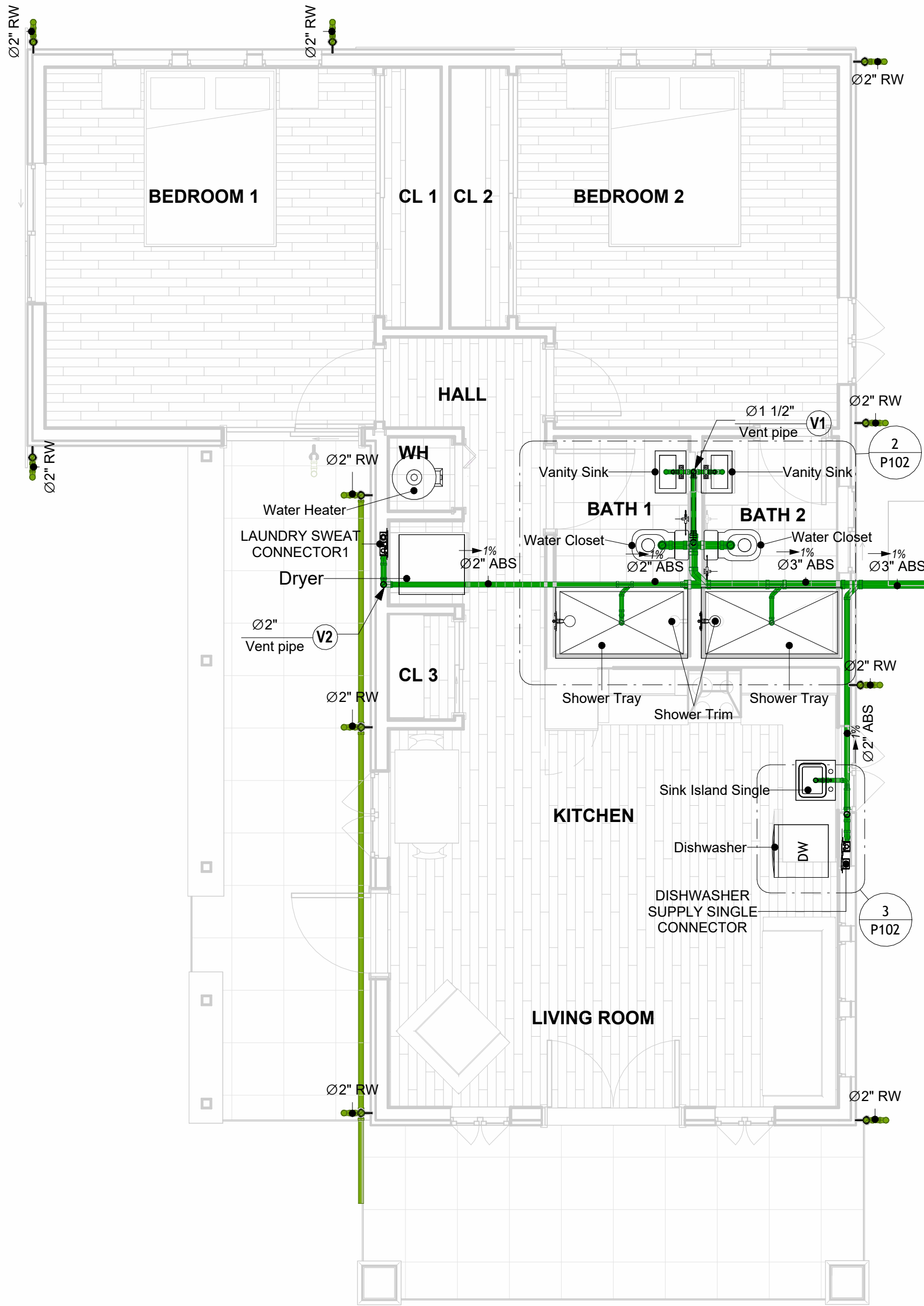
DRAWING NAME

NOTE AND SCHEDULE

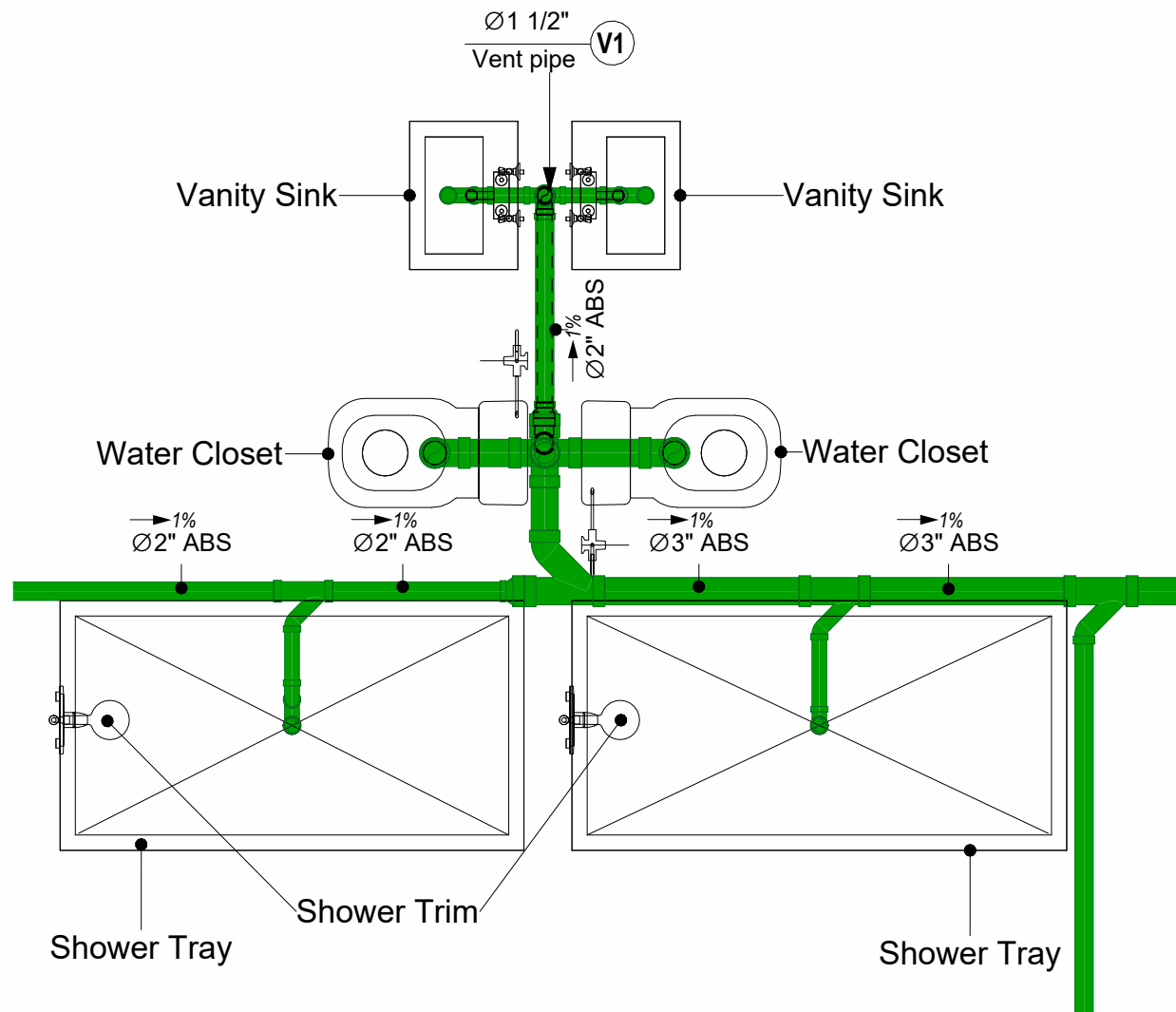
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DRAWN BY:	Author
CHECKED BY:	Checker

P101

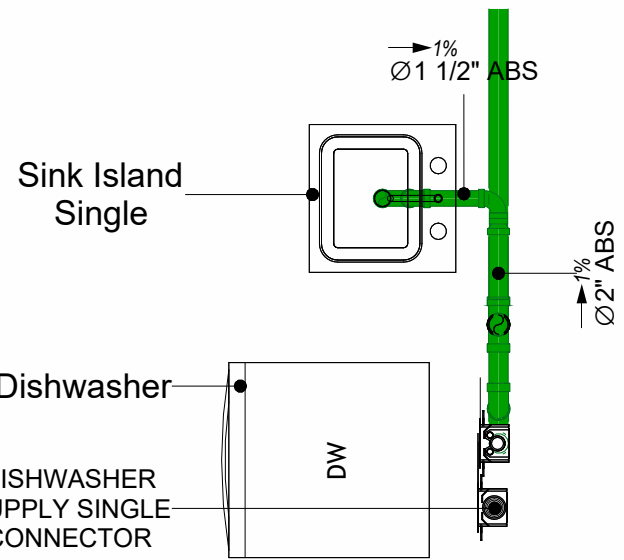
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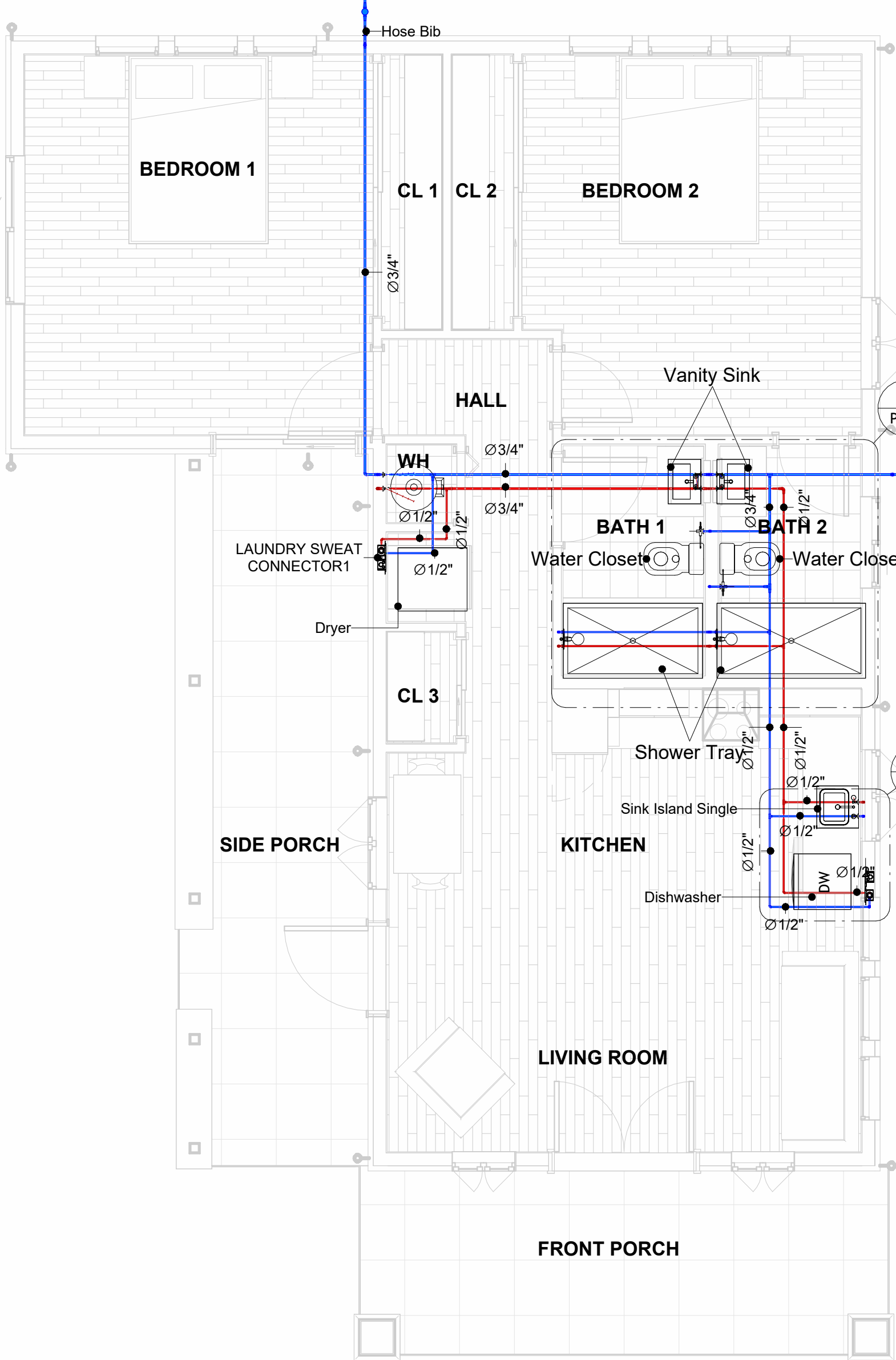
1 OVERALL SANITARY
1/4" = 1'-0"



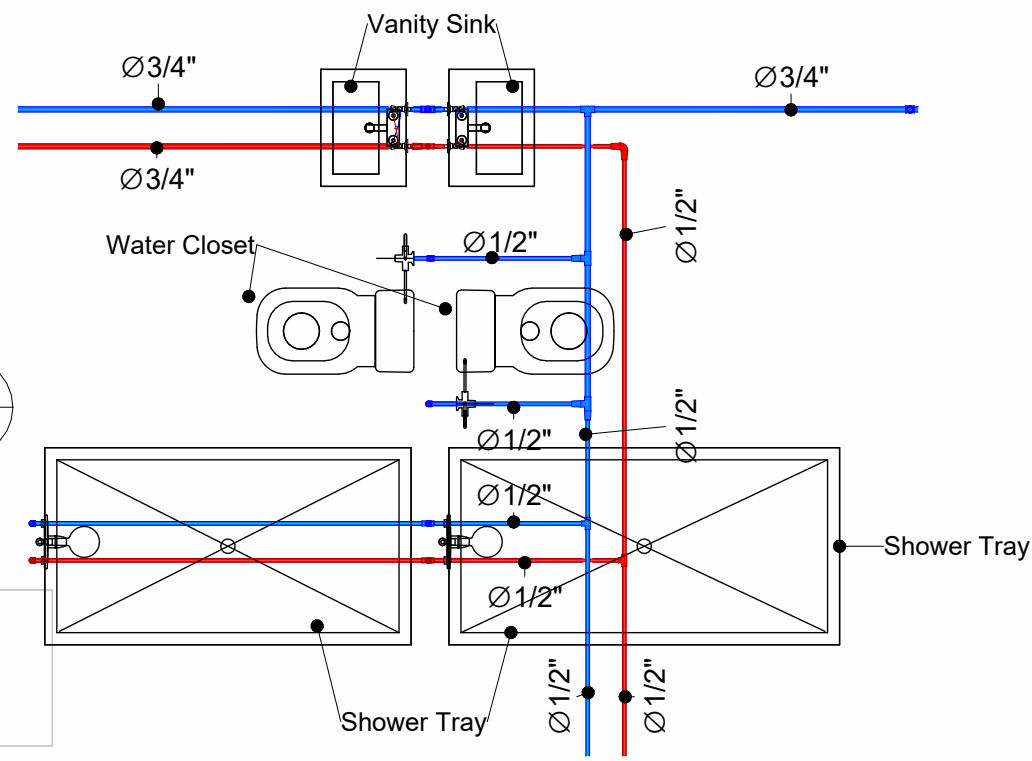
2 BATH SEWAGE
1/2" = 1'-0"



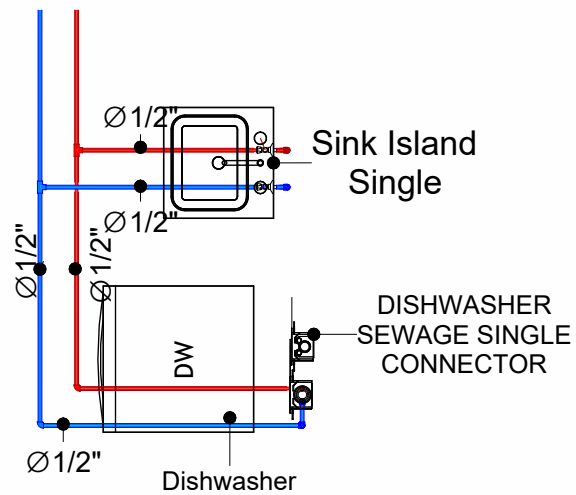
3 KITCHEN SEWAGE
1/2" = 1'-0"



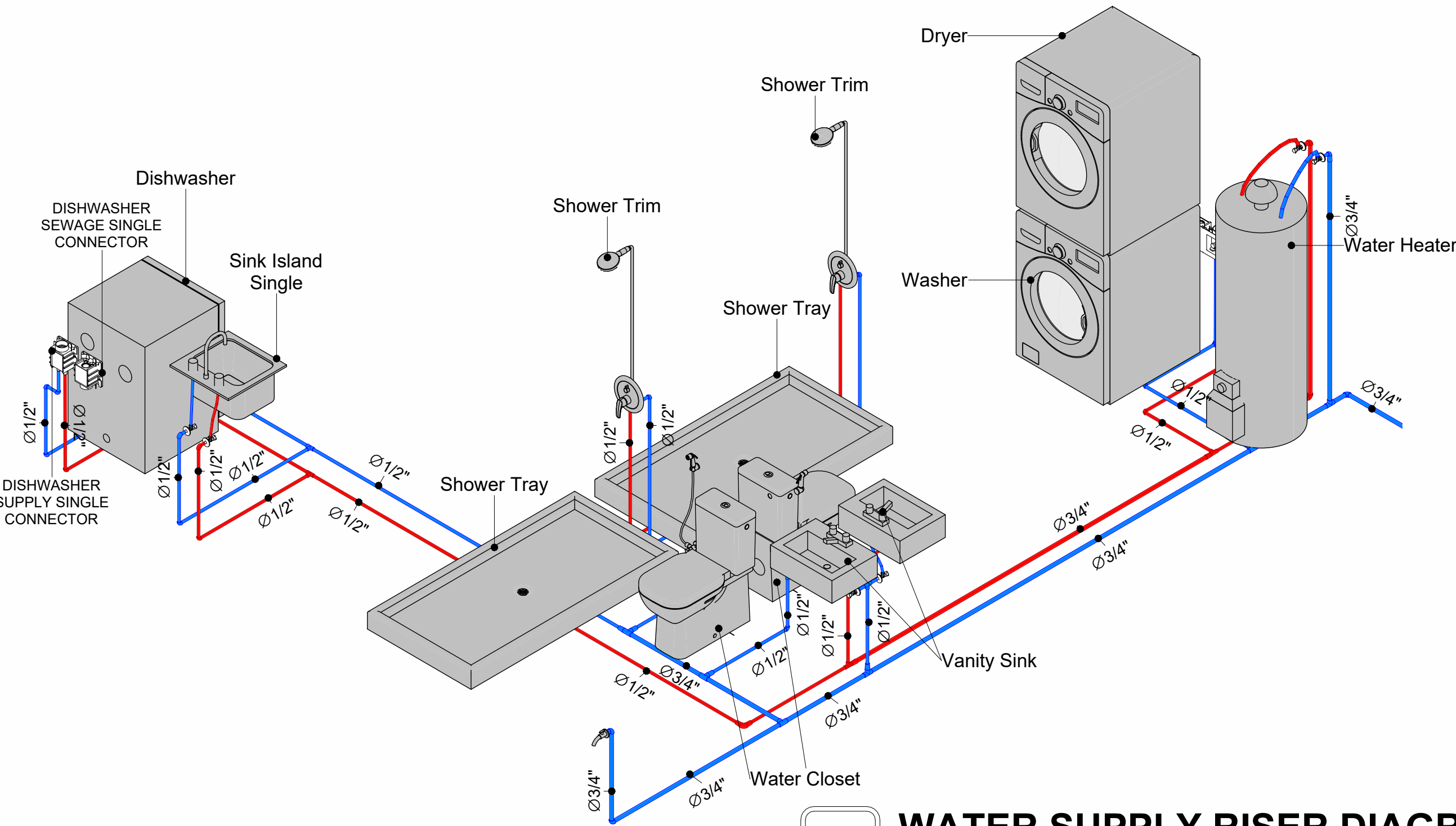
5 OVERALL WATER SUPPLY
1/4" = 1'-0"



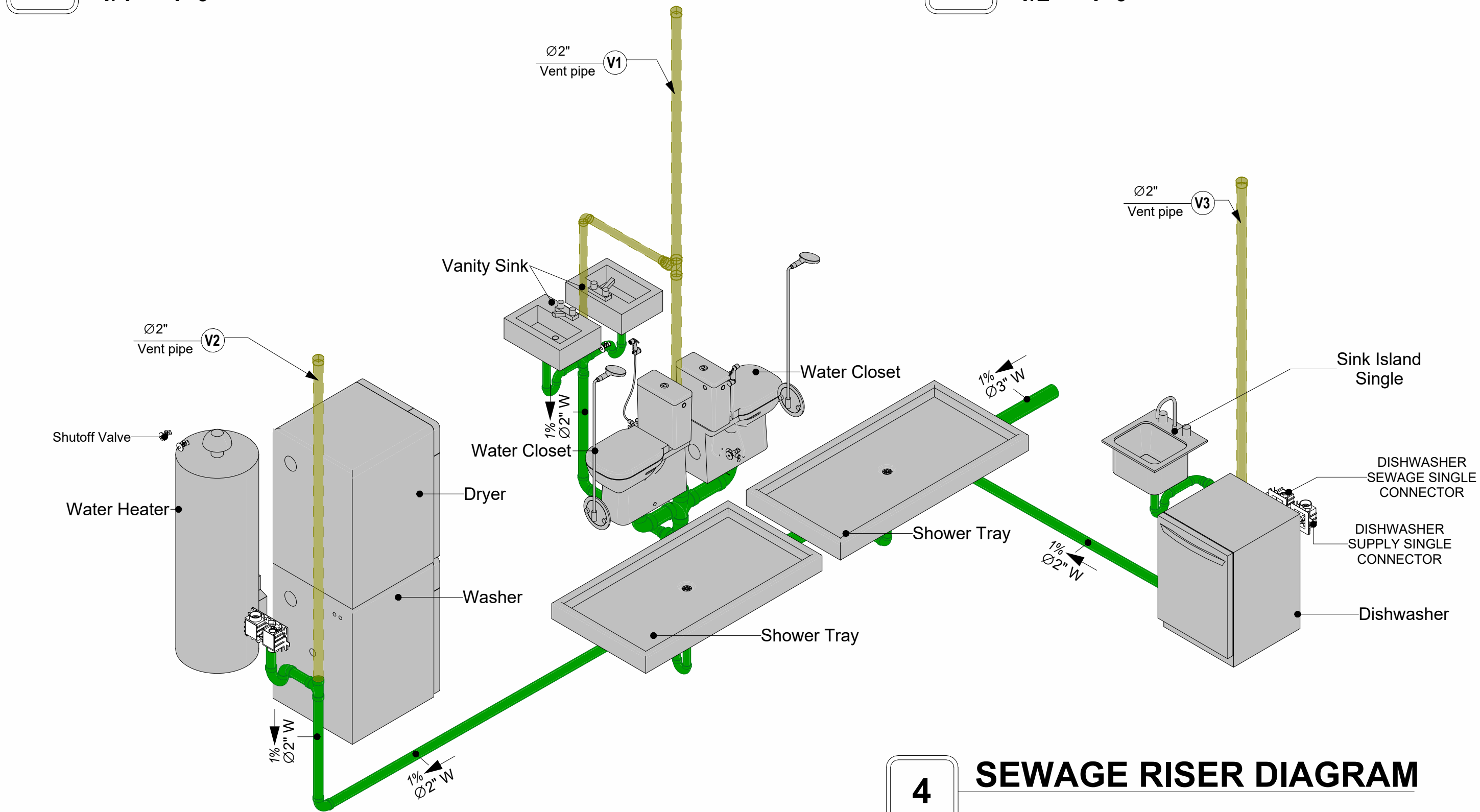
6 BATH WATER SUPPLY
3/8" = 1'-0"



7 KITCHEN WATER SUPPLY
3/8" = 1'-0"

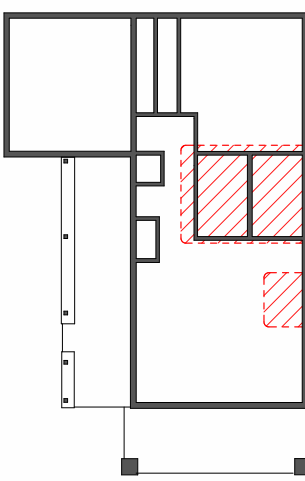


8 WATER SUPPLY RISER DIAGRAM



4 SEWAGE RISER DIAGRAM

KEY PLAN



NO.	DESCRIPTION	DATE

NOTE:

LEGEND:

PROJECT

129-Orion-910-2Bd 2Ba
Craftsman-Porch-550

DRAWING NAME

WATER SUPPLY AND
SEWAGE SYSTEM

CLIENT NAME:

PROJECT NUMBER: 0367_14

DATE: 3/17/2025 3:01:24 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

Orion-2Bd 2Ba-Craftsman-Porch



Orion-2Bd 2Ba-Craftsman-Porch

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



Orion-2Bd 2Ba-Craftsman-Porch							
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	1			
4	Dryer		PCS	1			
5	Dish Washer		PCS	1			
6	Oven		PCS	0			
7	Microwave		PCS	0			
CASEWORKS							
1	Kitchen Cabinet		FT	16.23			
2	Laundry Cabinet		FT	2.25			
3	Vanity Cabinet		FT	2.5			
4	Medicine Cabinet		PCS	2			
5	Kitchen countertop		SF	25.55			
6	Laundry Countertop		PCS	1			
7	Bathroom Countertop		SF	0			
8	Island		FT	0			
9	Peninsula		FT	0			
10	Closets		SF	140.31			
CEILING							
1	Ceiling Board	Dry Wall	SF	683			
2	Dry Wall Fastener	Screw	PCS	1195.25			
3	Vapor Retarder	Polyethylene film	SF	825			
4	Vapor Retarder Fastener	Nails with washer heads	PCS	2475			
5	Ceiling Board (MRD)	Moisture resistant drywall	SF	90			
6	MRD Fastener		PCS	157.5			
7	Ceiling Board	Marine Plywood	SF	52			
8	Marine Plywood Fastener	Screw	PCS	91			
9	Dry Wall Tape		FT	412.5			
FLOORING							
1	Main Living Space		SF	335.49			
2	Bathroom		SF	73.83			
3	Bedroom		SF	374.7			
4	Porch		SF	304.68			
STRUCTURE							
1	Foundation		SF	1211.31			
WALLS EXTERIOR							
1	Exterior Wall Siding		SF	1016			
2	Exterior-Grade Plywood Fastener		SF	10.16			
3	Wall Paint		SF	1016			
4	Wall Shteathing (OSB)		SF	1016			
5	Shteathing Fastener	Self-drilling screws(100/pkt)	PKT	10.16			
6	Wall Insulation		SF	3238			
7	Wall Homewrap		SF	1016			
8	Home wrap Fastener	Stapled fastener (200/pkt)	PKT	3.8608			
9	Furring Strip		PCS	127			
10	Furring Strip Fastener	Self-drilling screws(100/pkt)	PKT	10.16			
11	Stone Copping	Masonry stone	SF	69			
12	Stone Veneer	Masonry stone	SF	145			
WALLS INTERIOR							
1	Cementitious Backer Board		SF	562			
2	Kerdi membrane		SF	562			
3	Kerdi membrane Fastener		SF	562			
4	Wall Ceramic Tile		SF	562			
5	Drywall Board		SF	1663			
6	Drywall Fastener	Self-drilling screws(100/pkt)	PKT	16.63			
7	Wall Paint		SF	1663			
	Drywall Tape		FT	312			
8	Wall Skirting		FT	133			

ARCHITECTURAL BOM



🏠 DOORS							
1	Exterior Swinging	3' - 0" X 6'-8"	PCS	1			
2	Interior Swinging	3' - 0" X 6'-8"	PCS	1			
3	Interior Sliding	9' - 0" X 6'-8"	PCS	2			
4	Interior Swinging	2' - 6" X 6'-8"	PCS	2			
5	Patio Sliding	5' - 0" X 6'-8"	PCS	1			
6	Exterior Swinging	5' - 0" X 6'-8"	PCS	1			
7	Interior Swinging	3' - 0" X 6'-8"	PCS	1			
8	Folding	2' - 4" X 6'-8"	PCS	1			
9	Interior Sliding	3' - 5" X 6'-8"	PCS	1			
10	Exterior Door Trim		FT	53			
11	Interior Door Trim		FT	336			
12	Entry Lock set		PCS	3			
13	Privacy Lock set		PCS	4			
14	Passage Lock set		PCS	4			
🏠 WINDOWS							
1	Awning	2' - 3" X 2'-3"	PCS	9			
2	Sliding	5' - 3" X 4'-3"	PCS	1			
3	Casement	3' - 3" X 3'-9"	PCS	2			
4	Casement	2' - 3" X 4'-3"	PCS	2			
5	Casement	3' - 3" X 3'-3"	PCS	1			
6	Sliding	3' - 3" X 1'-9"	PCS	1			
7	Exterior Window Trim		FT	181			
8	Interior Window Trim		FT	181			
🏠 ROOF							
1	Roof Covering		SF	1243			
2	Roof Covering Fastener		PCS	621.5			
3	Roof Felt Paper		SF	1243			
4	Roof Felt Paper Fastener		PCS	3729			
5	Roof Sheathing		SF	1243			
6	Roof Sheathing Fastener		PCS	9944			
7	Batten		FT	0			
8	Batten Fastener		PCS	0			
9	Soffit		SF	162			
10	Soffit Fastener		PCS	81			
11	Fascia		FT	166			
12	Fascia board fastener		PCS	83			
13	Roof Insulation		SF	1243			

Orion-2Bd 2Ba-Craftsman-Porch

ELECTRICAL MATERIAL SHOPPING LIST

No.	Item	Type	Unit	Quantity	Unit Price	Total	Description
⬇ LIGHTING FIXTURES							
1	Kitchen Ceiling Light		PCS	3			
2	Kitchen Wall Mounted Light		PCS	1			
3	Exterior Wall Mounted Light		PCS	5			
4	Livingroom Ceiling Light With Fan		PCS	1			
5	Bedroom Ceiling Light With Fan		PCS	2			
6	Dining Ceiling Light		PCS	0			
7	Bath Wall Mounted Light		PCS	2			
8	Bathroom Ceiling Light		PCS	4			
9	Livingroom Ceiling Light		PCS	4			
10	Bedroom Ceiling Light		PCS	8			
11	Hall & Entry Ceiling Light		PCS	2			
12	Closet Ceiling Light		PCS	0			
13	Smoke Detector		PCS	4			
⬇ ELECTRICAL FITTINGS							
14	Standard Receptacle 120V	20A	PCS	15			
15	GFCI Receptacle 120V	20 A	PCS	13			
16	GFCI Receptacle 240V	30 A	PCS	2			
17	GFCI Receptacle 240V	50 A	PCS	1			
18	GFCI Receptacle 240V	60 A	PCS	1			
19	Fan Switch		PCS	2			
20	Single Pole Switch		PCS	6			
21	Three Way Switch		PCS	7			
22	Dimmer Switch		PCS	6			
⬇ ELECTRICAL CONDUITS & WIRING							
23	ROMEX 14 AWG	14/3/W/ground	FT	114			
24	ROMEX 12 AWG	12/3/W/ground	FT	517			
25	ROMEX 12 AWG	12/2/W/ground	FT	0			
26	ROMEX 10 AWG	10/3/W/ground	FT	0			
27	ROMEX 10 AWG	10/2/W/ground	FT	57			
28	Romex 8 AWG	8/3/W/ground	FT	0			
29	Romex 8 AWG	8/2/W/ground	FT	43			
30	ROMEX 6 AWG	6/3/W/ground	FT	43			
31	Bare Copper Ground Wire 6 AWG		FT				
⬇ ELECTRICAL BOXES & CIRCUTES							
32	Panelboard -240V 1 Phase MLO	200 AMP	PCS	1			
33	Circuit breaker	15 A	PCS	2			
34	Circuit breaker	20 A	PCS	11			
36	Circuit breaker	30 A	PCS	2			
37	Circuit breaker	50 A	PCS	1			
39	Circuit breaker	60 A	PCS	1			
40	Single Gang Switch Box		PCS	8			
41	Double Gang Switch Box		PCS	3			
42	Triple Gang Switch Box		PCS	2			
43	Pull Box	#1/4	PCS	28			
44	Receptacle Box		PCS	32			

PLUMBING BOM



Orion-2Bd 2Ba-Craftsman-Porch							
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	12			
13	Gate Valve		PCS	1			
14	Dishwasher Supply Single Connector		PCS	1			
15	Dishwasher Sewage Single Connector		PCS	1			
16	Laundry Sweat Connector		PCS	1			
SANITARY & PLUMBING PIPES							
1	ABS (Acrylonitrile Butadiene Styrene) Pipes	ø 1"	FT	0			
2	ABS (Acrylonitrile Butadiene Styrene) Pipes	ø 1 1/2"	FT	13			
3	ABS (Acrylonitrile Butadiene Styrene) Pipes	ø 2"	FT	56			
4	ABS (Acrylonitrile Butadiene Styrene) Pipes	ø 3"	FT	9			
5	PEX (Cross-linked polyethylene) Pipes	ø 1/2"	FT	101			
6	PEX (Cross-linked polyethylene) Pipes	ø 3/4"	FT	63			
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	79			
10	PVC Pipes Sch.80 - Rigid	ø 3"	FT	0			
11	Flex Pipe Round	ø 1/2"	PCS	8			
12	Flex Pipe Round	ø 3/4"	PCS	0			
13	Flex Pipe Round	ø 1"	PCS	0			
PIPE FITTINGS							
1	ABS 90 Degree Bend Elbow	1 1/2"ø-1 1/2"ø	PCS	3			
2	ABS 90 Degree Bend Elbow	2"ø-2"ø	PCS	2			
3	ABS 90 Degree Bend Elbow	3"ø-3"ø	PCS	2			
4	ABS Bend Long Sweep Elbow	2"ø-2"ø	PCS	1			
5	ABS P-Trap	1 1/2"ø-1 1/2"ø	PCS	4			
6	ABS P-Trap	2"ø-2"ø	PCS	1			
7	ABS Reducer Elbow	2"ø-1 1/2"ø	PCS	3			
8	ABS Reducer Elbow	3"ø-2"ø	PCS	3			
9	ABS TEE Elbow	2"ø-2"ø-2"ø	PCS	2			
10	ABS TEE Elbow	3"ø-3"ø-3"ø	PCS	1			
11	ABS Trap P	2"ø-2"ø	PCS	1			
12	ABS Vent Cap Elbow	2"ø	PCS	3			
13	ABS WASTE DOUBLE TEE	1 1/2"ø-1 1/2"ø-1 1/2"ø-1	PCS	1			
14	ABS WASTE DOUBLE TEE	2"ø-2"ø-2"ø-2"ø	PCS	1			
15	ABS WASTE DOUBLE TEE	3"ø-3"ø-3"ø-3"ø	PCS	1			
16	ABS Wye Combination with 8th Bend Elbow	2"ø-2"ø-1 1/2"ø	PCS	1			
17	ABS Wye Combination with 8th Bend Elbow	3"ø-3"ø-1 1/2"ø	PCS	1			
18	ABS Wye Combination with 8th Bend Elbow	3"ø-3"ø-2"ø	PCS	1			
19	ABS Wye Combination with 8th Bend Elbow	3"ø-3"ø-3"ø	PCS	1			
20	Bend Rain Water System	2"ø-2"ø	PCS	20			
21	Bend Sewerage System	2"ø-2"ø	PCS	7			
22	PEX 90 Degree Elbow	1/2"ø-1/2"ø	PCS	26			
23	PEX 90 Degree Elbow	3/4"ø-3/4"ø	PCS	7			
24	PEX Tee Elbow	1/2"ø-1/2"ø-1/2"ø	PCS	10			
25	PEX Tee Elbow	3/4"ø-3/4"ø-3/4"ø	PCS	7			
26	PEX Transition Elbow	1"ø-3/4"ø	PCS	2			
27	PEX Transition Elbow	3/4"ø-1/2"ø	PCS	12			
28	PVC 90 Degree Bend Elbow	2"ø-2"ø	PCS	3			

HVAC BOM

Orion-2Bd 2Ba-Craftsman-Porch							
HVAC SYSTEM MATERIAL SHOPPING LIST							
No.	Item	Type	Unit	Quantity	Unit Price	Total	Description
HVAC DUCTS							
1	PIPE (REFRIGERANT LINE)	1/4" Ø	FT	0.8			
2	PIPE (REFRIGERANT LINE)	3/8" Ø	FT	96.46			
3	PIPE (REFRIGERANT LINE)	1/2" Ø	FT	0.82			
4	PIPE (REFRIGERANT LINE)	3/4" Ø	FT	120.43			
5	DRAYER HOSE	5" Ø	FT	4			
6	FLEX DUCT ROUND	4"	FT	5.19			
DUCT FITTINGS & ACCESSORIES							
7	ELBOW (REFRIGERANT LINE)	1/2" (Ø)-1/2" (Ø)	PCS	1			
8	ELBOW (REFRIGERANT LINE)	1/4" (Ø)-1/4" (Ø)	PCS	1			
9	ELBOW (REFRIGERANT LINE)	3/4" (Ø)-3/4" (Ø)	PCS	30			
10	ELBOW (REFRIGERANT LINE)	3/8" (Ø)-3/8" (Ø)	PCS	18			
11	TRANSITION (REFRIGERANT	3/4" (Ø)-1/2" (Ø)	PCS	5			
12	TRANSITION (REFRIGERANT	3/4" (Ø)-3/8" (Ø)	PCS	4			
13	TRANSITION (REFRIGERANT	3/8" (Ø)-1/4" (Ø)	PCS	1			
14	TEE (REFRIGERANT LINE)	3/4" (Ø)-3/4" (Ø)-3/4" (Ø)	PCS	1			
15	TEE (REFRIGERANT LINE)	3/8" (Ø)-3/8" (Ø)-3/8" (Ø)	PCS	1			
16	ROUND TRANSITION(ANGLE)	45 DEGREE	PCS	5			
HVAC EQUIPMENTS							
17	AIR HANDLING UNIT	WALL MOUNTED	PCS	4			
18	CONDENSER	OUTDOOR UNIT	PCS	1			
19	EXHAUST FAN	75 CFM	PCS	1			
20	EXHAUST HOOD	WALL MOUNTED	PCS	1			
21	HOOD-WALL: VENT	HOOD-WALL: VENT	PCS	1			
22	DRAYER: VENT	DRAYER: VENT	PCS	1			
23	ROOF VENT	3"(Ø)	PCS	1			



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ELECTRICAL BOM



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

ELECTRICAL BOM



ELECTRICAL FITTINGS							
#	Item	Type	Description,Manufacturer,SKU	Unit	Quantity	Unit Price	Total
1	Standard Receptacle 120V	20A		PCS	15		
2	GFCI Receptacle 120V	20 A		PCS	13		
3	GFCI Receptacle 240V	30 A		PCS	2		
4	GFCI Receptacle 240V	50 A		PCS	1		
5	GFCI Receptacle 240V	60 A		PCS	1		
6	Fan Switch			PCS	2		
7	Single Pole Switch			PCS	6		
8	Three Way Switch			PCS	7		
9	Dimmer Switch			PCS	6		
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	14/3/W/ground		FT	114		
3	ROMEX 12 AWG	12/3/W/ground		FT	517		
4	ROMEX 12 AWG	12/2/W/ground		FT	0		
6	ROMEX 10 AWG	10/3/W/ground		FT	0		
8	ROMEX 10 AWG	10/2/W/ground		FT	57		
9	Romex 8 AWG	8/3/W/ground		FT	0		
10	Romex 8 AWG	8/2/W/ground		FT	43		
11	ROMEX 6 AWG	6/3/W/ground		FT	43		
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	2		
3	Circuit breaker	20 A		PCS	11		
4	Circuit breaker	30 A		PCS	2		
5	Circuit breaker	50 A		PCS	1		
6	Circuit breaker	60 A		PCS	1		
7	Single Gang Switch Box			PCS	8		
8	Double Gang Switch Box			PCS	3		
9	Triple Gang Switch Box			PCS	2		
10	Pull Box	#1/4		PCS	28		
11	Receptacle Box			PCS	32		
12							
13							
14							
15							

HVAC BOM

HVAC_DUCTS 01							
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	PIPE (REFRIGERANT LINE)	1/4" (Ø)		FT	2.02		
2	PIPE (REFRIGERANT LINE)	3/8" (Ø)		FT	98.08		
3	PIPE (REFRIGERANT LINE)	1/2" (Ø)		FT	0.68		
4	PIPE (REFRIGERANT LINE)	3/4" (Ø)		FT	122.23		
5	DRAYER HOSE	4" (Ø)		FT	3.1		
6	FLEX DUCT ROUND	4" (Ø)		FT	7.48		
7							
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16							

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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	2		
4	EXHAUST HOOD	WALL MOUNTED		PCS	1		
5	HOOD-WALL: VENT	HOOD-WALL: VENT		PCS	1		
6	DRAYER: VENT	DRAYER: VENT		PCS	1		
7	ROOF VENT	3"(Ø)		PCS	2		
8							
9							
10							
11							
12							
13							
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	12		
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 1"		FT	0		
2	ABS (Acrylonitrile Butadiene Styrene) Pipes	ø 1 1/2"		FT	13		
3	ABS (Acrylonitrile Butadiene Styrene) Pipes	ø 2"		FT	56		
4	ABS (Acrylonitrile Butadiene Styrene) Pipes	ø 3"		FT	9		
5	PEX (Cross-linked polyethylene) Pipes	ø 1/2"		FT	101		
6	PEX (Cross-linked polyethylene) Pipes	ø 3/4"		FT	63		
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	79		
10	PVC Pipes Sch.80 - Rigid	ø 3"		FT	0		
11	Flex Pipe Round	ø 1/2"		FT	8		
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	ABS 90 Degree Bend Elbow	1 1/2"Ø-1 1/2"Ø		PCS	3		
2	ABS 90 Degree Bend Elbow	2"Ø-2"Ø		PCS	2		
3	ABS 90 Degree Bend Elbow	3"Ø-3"Ø		PCS	2		
4	ABS Bend Long Sweep Elbow	2"Ø-2"Ø		PCS	1		
5	ABS P-Trap	1 1/2"Ø-1 1/2"Ø		PCS	4		
6	ABS P-Trap	2"Ø-2"Ø		PCS	1		
7	ABS Reducer Elbow	2"Ø-1 1/2"Ø		PCS	3		
8	ABS Reducer Elbow	3"Ø-2"Ø		PCS	3		
9	ABS TEE Elbow	2"Ø-2"Ø-2"Ø		PCS	2		
10	ABS TEE Elbow	3"Ø-3"Ø-3"Ø		PCS	1		
11	ABS Trap P	2"Ø-2"Ø		PCS	1		
12	ABS Vent Cap Elbow	2"Ø		PCS	3		
13	ABS WASTE DOUBLE TEE	1 1/2"Ø-1 1/2"Ø-1 1/2"Ø-1 1/2"Ø		PCS	1		
14	ABS WASTE DOUBLE TEE	2"Ø-2"Ø-2"Ø-2"Ø		PCS	1		
15	ABS WASTE DOUBLE TEE	3"Ø-3"Ø-3"Ø-3"Ø		PCS	1		

PLUMBING BOM



 PIPE FITTINGS 02							
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	ABS Wye Combination with 8th Bend Elbow	2"Ø-2"Ø-1 1/2"Ø		PCS	1		
2	ABS Wye Combination with 8th Bend Elbow	3"Ø-3"Ø-1 1/2"Ø		PCS	1		
3	ABS Wye Combination with 8th Bend Elbow	3"Ø-3"Ø-2"Ø		PCS	1		
4	ABS Wye Combination with 8th Bend Elbow	3"Ø-3"Ø-3"Ø		PCS	1		
5	Bend Rain Water System	2"Ø-2"Ø		PCS	20		
6	Bend Sewerage System	2"Ø-2"Ø		PCS	7		
7	PEX 90 Degree Elbow	1/2"Ø-1/2"Ø		PCS	26		
8	PEX 90 Degree Elbow	3/4"Ø-3/4"Ø		PCS	7		
9	PEX Tee Elbow	1/2"Ø-1/2"Ø-1/2"Ø		PCS	10		
10	PEX Tee Elbow	3/4"Ø-3/4"Ø-3/4"Ø		PCS	7		
11	PEX Transition Elbow	1"Ø-3/4"Ø		PCS	2		
12	PEX Transition Elbow	3/4"Ø-1/2"Ø		PCS	12		
13	PVC 90 Degree Bend Elbow	2"Ø-2"Ø		PCS	3		
14							
15							



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	1		
4	Dryer Front Load	Stackable		PCS	1		
5	Dish Washer			PCS	1		
6	Oven			PCS	0		
7	Microwave			PCS	0		
8							
9							
10							
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16							

ARCHITECTURAL BOM



CASEWORKS 01							
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	Kitchen Cabinet			FT	16.23		
2	Laundry Cabinet			FT	2.25		
3	Vanity Cabinet			FT	2.5		
4	Medicine Cabinet			PCS	2		
5	Kitchen countertop			SF	25.55		
6	Laundry Countertop			PCS	1		
7	Bathroom Countertop			SF	0		
8	Island			FT	0		
9	Peninsula			FT	0		
10	Closets			SF	140.31		
11							
12							
13							
14							
15							

ARCHITECTURAL BOM



CEILING 01							
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
LIVING ROOM AND KITCHEN				SF	292.0		
1	Ceiling Board	Drywall		SF	292		
2	Drywall Fastener	Screw		PCS	511		
3	Vapor Retarder	Polyethylene film		SF	292		
4	Vapor Retarder Fastener	Nails with washer heads		PCS	876		
BATHROOM 1				SF	45.0		
5	Ceiling Board	MRD (Moisture resistant drywall)		SF	45		
6	MRD Fastener	Screw		PCS	79		
BATHROOM 2				SF	45.0		
7	Ceiling Board	MRD (Moisture resistant drywall)		SF	45		
8	MRD Fastener	Screw		PCS	79		
W/H				SF	8.0		
9	Ceiling Board	Drywall		SF	8		
10	Drywall Fastener	Screw		PCS	14		
11	Vapor Retarder	Polyethylene film		SF	8		
12	Vapor Retarder Fastener	Nails with washer heads		PCS	24		

ARCHITECTURAL BOM



CEILING 02							
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
	W/D			SF	10.0		
13	Ceiling Board	Drywall		SF	10		
14	Drywall Fastener	Screw		PCS	18		
15	Vapor Retarder	Polyethylene film		SF	10		
16	Vapor Retarder Fastener	Nails with washer heads		PCS	30		
	BED ROOM 1			SF	170.0		
17	Ceiling Board	Drywall		SF	170		
18	Drywall Fastener	Screw		PCS	298		
19	Vapor Retarder	Polyethylene film		SF	170		
20	Vapor Retarder Fastener	Nails with washer heads		PCS	510		
	BED ROOM 2			SF	93.0		
21	Ceiling Board	Drywall		SF	93		
22	Drywall Fastener	Screw		PCS	163		
23	Vapor Retarder	Polyethylene film		SF	93		
24	Vapor Retarder Fastener	Nails with washer heads		PCS	279		

ARCHITECTURAL BOM



CEILING 03							
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
	HALL			SF	53.0		
25	Ceiling Board	Drywall		SF	53		
26	Drywall Fastener	Screw		PCS	93		
27	Vapor Retarder	Polyethylene film		SF	53		
28	Vapor Retarder Fastener	Nails with washer heads		PCS	159		
	PORCH			SF	52.0		
29	Ceiling Board	Marine Plywood		SF	52		
30	Exterior Grade Plywood	Screw		PCS	91		
	CLOSET 1			SF	23.0		
31	Ceiling Board	Drywall		SF	23		
32	Drywall Fastener	Screw		PCS	40		
33	Vapor Retarder	Polyethylene film		SF	23		
34	Vapor Retarder Fastener	Nails with washer heads		PCS	69		

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ARCHITECTURAL BOM



FLOORING INTERIOR 01							
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
BEDROOM 1							
1	Bedroom Flooring			SF	160.51		
2	Wood underlay	Foam Pad Polyethylene		SF	160.51		
3	Vapor Retarder	Vapor Barrier Polyethylene		SF	160.51		
BEDROOM 2							
4	Bedroom Flooring			SF	170.36		
5	Wood underlay	Foam Pad Polyethylene		SF	170.36		
6	Vapor Retarder	Vapor Barrier Polyethylene		SF	170.36		
CLOSET 1							
7	Closet Flooring			SF	22.12		
8	Wood underlay	Foam Pad Polyethylene		SF	22.12		
9	Vapor Retarder	Vapor Barrier Polyethylene		SF	22.12		
CLOSET 2							
10	Closet Flooring			SF	21.71		
11	Wood underlay	Foam Pad Polyethylene		SF	22		
12	Vapor Retarder	Vapor Barrier Polyethylene		SF	22		

ARCHITECTURAL BOM



FLOORING INTERIOR 02							
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
CLOSET 3							
13	Closet Flooring			SF	10.17		
14	Wood underlay	Foam Pad Polyethylene		SF	10.17		
15	Vapor Retarder	Vapor Barrier Polyethylene		SF	10.17		
LIVING ROOM AND KITCHEN							
16	Living Area Flooring			SF	325.32		
17	Wood underlay	Foam Pad Polyethylene		SF	325.32		
18	Vapor Retarder	Vapor Barrier Polyethylene		SF	325.32		
BATHROOM 1							
19	Tile Finish			SF	29.15		
20	Adhesive	1/2" Thin set Mortar		SF	29.15		
21	Vapor Retarder	Vapor Barrier Polyethylene		SF	29.15		
BATHROOM 2							
22	Tile Finish			SF	28.27		
23	Adhesive	1/2" Thin set Mortar		SF	28		
24	Vapor Retarder	Vapor Barrier Polyethylene		SF	28		

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ARCHITECTURAL BOM



FLOORING EXTERIOR							
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	
STRUCTURE				SF	1211.3		
1	Concrete Slab	4"concrete cast in situ		CF	403.76		
2	Insulation	Rigid insulation		SF	325.27		
3	Hard core	Compacted soil		CF	304.19		
4	Re-bar	#4 re-bar		Ton	0.99		
5	Concrete Pad	4"concrete cast in situ		CF	1.58		
6	Slab edge	Turndown		CF	299.81		
7	Footing	Cast-in-place concrete		CF	4.68		
PORCH FRONT							
8	Tile Finish			SF	127.19		
9	Adhesive	1/2" Thin set Mortar		SF	127.19		
10	Vapor Retarder	Vapor Barrier Polyethylene		SF	127.19		
PORCH SIDE							
11	Tile Finish			SF	177.49		
12	Adhesive	1/2" Thin set Mortar		SF	177.49		
13	Vapor Retarder	Vapor Barrier Polyethylene		SF	177.49		

ARCHITECTURAL BOM



WALLS: EXTERIOR							
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	Exterior-Grade Plywood Horizontal Siding			SF	1016		
2	Exterior-Grade Plywood Fastener 8/panel	Self-drilling screws(100/pkt)		PKT	10.16		
3	Wall Shteathing (OSB)			SF	1016		
4	Shteathing Fastener	Self-drilling screws(100/pkt)		PKT	10.16		
5	Wall Homewrap			SF	1016		
6	Homewrap Fastener	Stapled fastener (200/pkt)		PKT	3.86		
7	Furring Strip			PCS	127.00		
8	Furring Strip Fastener	Self-drilling screws(100/pkt)		PKT	10.16		
9	Wall Paint			SF	1016		
10	Stone Copping	Masonry stone		SF	69		
11	Stone Veneer	Masonry stone		SF	145		
12	Mortar for Stone Veneer			SF	145		
13	Wall Insulation			SF	3238		
14							
15							

ARCHITECTURAL BOM



WALLS: INTERIOR 01							
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
BATHROOM 1				SF	41.0		
1	Cementitious Backer Board			SF	243		
2	Kerdi membrane			SF	243		
3	Kerdi membrane Fastener			SF	243		
4	Wall Ceramic Tile			SF	243		
BATHROOM 2				SF	42.0		
5	Cementitious Backer Board			SF	205		
6	Kerdi membrane			SF	205		
7	Kerdi membrane Fastener			SF	205		
8	Wall Ceramic Tile			SF	205		
BEDROOM 1				SF	172.0		
9	Drywall Board			SF	294		
10	Drywall Fastener	Self-drilling screws(100/pkt)		PKT	2.94		
11	Wall Paint			SF	294		
12	Drywall Tape			FT	55.1		

ARCHITECTURAL BOM



WALLS: INTERIOR 02							
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
	BEDROOM 2			SF	159.0		
13	Drywall Board			SF	331		
14	Drywall Fastener	Self-drilling screws(100/pkt)		PKT	3.31		
15	Wall Paint			SF	331		
16	Drywall Tape			FT	62.1		
	KITCHEN			SF	80.0		
17	Cementitious Backer Board			SF	41		
18	Drywall Board			SF	152		
19	Drywall Fastener	Self-drilling screws(100/pkt)		PKT	1.52		
20	Kerdi membrane			SF	41		
21	Kerdi membrane Fastener			SF	41		
22	Wall Ceramic Tile			SF	41		
23	Wall Paint			SF	152		
24	Drywall Tape			FT	28.7		

ARCHITECTURAL BOM



WALLS: INTERIOR 03

#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
	LIVING ROOM			SF	196.0		
25	Drywall Board			SF	255		
26	Drywall Fastener	Self-drilling screws(100/pkt)		PKT	2.55		
27	Wall Paint			SF	255		
28	Drywall Tape			FT	47.8		
	CL 1			SF	24.0		
29	Drywall Board			SF	132		
30	Drywall Fastener	Self-drilling screws(100/pkt)		PKT	1.32		
31	Wall Paint			SF	132		
32	Drywall Tape			FT	24.8		
	CL 2			SF	22.0		
33	Drywall Board			SF	152		
34	Drywall Fastener	Self-drilling screws(100/pkt)		PKT	1.52		
35	Wall Paint			SF	152		
36	Drywall Tape			FT	28.5		

ARCHITECTURAL BOM



WALLS: INTERIOR 04

#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
	CL 3			SF	10.0		
37	Drywall Board			SF	83		
38	Drywall Fastener	Self-drilling screws(100/pkt)		PKT	0.83		
39	Wall Paint			SF	83		
40	Drywall Tape			FT	15.6		
	HALL			SF	51.0		
41	Drywall Board			SF	193		
42	Drywall Fastener	Self-drilling screws(100/pkt)		PKT	1.93		
43	Wall Paint			SF	193		
44	Drywall Tape			FT	36		
	WD			SF	9.0		
45	Cementitious Backer Board			SF	73		
46	Kerdi membrane			SF	73		
47	Kerdi membrane Fastener			SF	73		
48	Wall Ceramic Tile			SF	73		

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ARCHITECTURAL BOM



#	DOORS						
	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	Exterior Swinging	3' - 0" X 6'-8"		PCS	1		
2	Interior Swinging	3' - 0" X 6'-8"		PCS	1		
3	Interior Sliding	9' - 0" X 6'-8"		PCS	2		
4	Interior Swinging	2' - 6" X 6'-8"		PCS	2		
5	Patio Sliding	5' - 0" X 6'-8"		PCS	1		
6	Exterior Swinging	5' - 0" X 6'-8"		PCS	1		
7	Interior Swinging	3' - 0" X 6'-8"		PCS	1		
8	Folding	2' - 4" X 6'-8"		PCS	1		
9	Interior Sliding	3' - 5" X 6'-8"		PCS	1		
10	Exterior Door Trim			FT	53		
11	Interior Door Trim			FT	336		
12	Entry Lock set			PCS	3		
13	Privacy Lock set			PCS	4		
14	Passage Lock set			PCS	4		
15							

ARCHITECTURAL BOM



WINDOWS							
#	Item	Type	Description, Manufacturer, SKU	Unit	Quantity	Unit Price	Total
1	Awning	2' - 3" X 2'-3"		PCS	9		
2	Sliding	5' - 3" X 4'-3"		PCS	1		
3	Casement	3' - 3" X 3'-9"		PCS	2		
4	Casement	2' - 3" X 4'-3"		PCS	2		
5	Casement	3' - 3" X 3'-3"		PCS	1		
6	Sliding	3' - 3" X 1'-9"		PCS	1		
7	Exterior Window Trim			FT	181		
8	Interior Window Trim			FT	181		
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	1243.0		
2	Roof Covering Fastener			PCS	622		
3	Roof Felt Paper			SF	1243.0		
4	Roof Felt Paper Fastener			PCS	3729.0		
5	Roof Sheathing			SF	1243.0		
6	Roof Sheathing Fastener			PCS	9944		
7	Batten			FT	0.0		
8	Batten Fastener			PCS	0.0		
9	Soffit			SF	162.0		
10	Soffit Fastener			PCS	81.0		
11	Fascia			FT	166.0		
12	Fascia board fastener			PCS	83		
13	Roof Insulation			SF	1243.0		
14							
15							