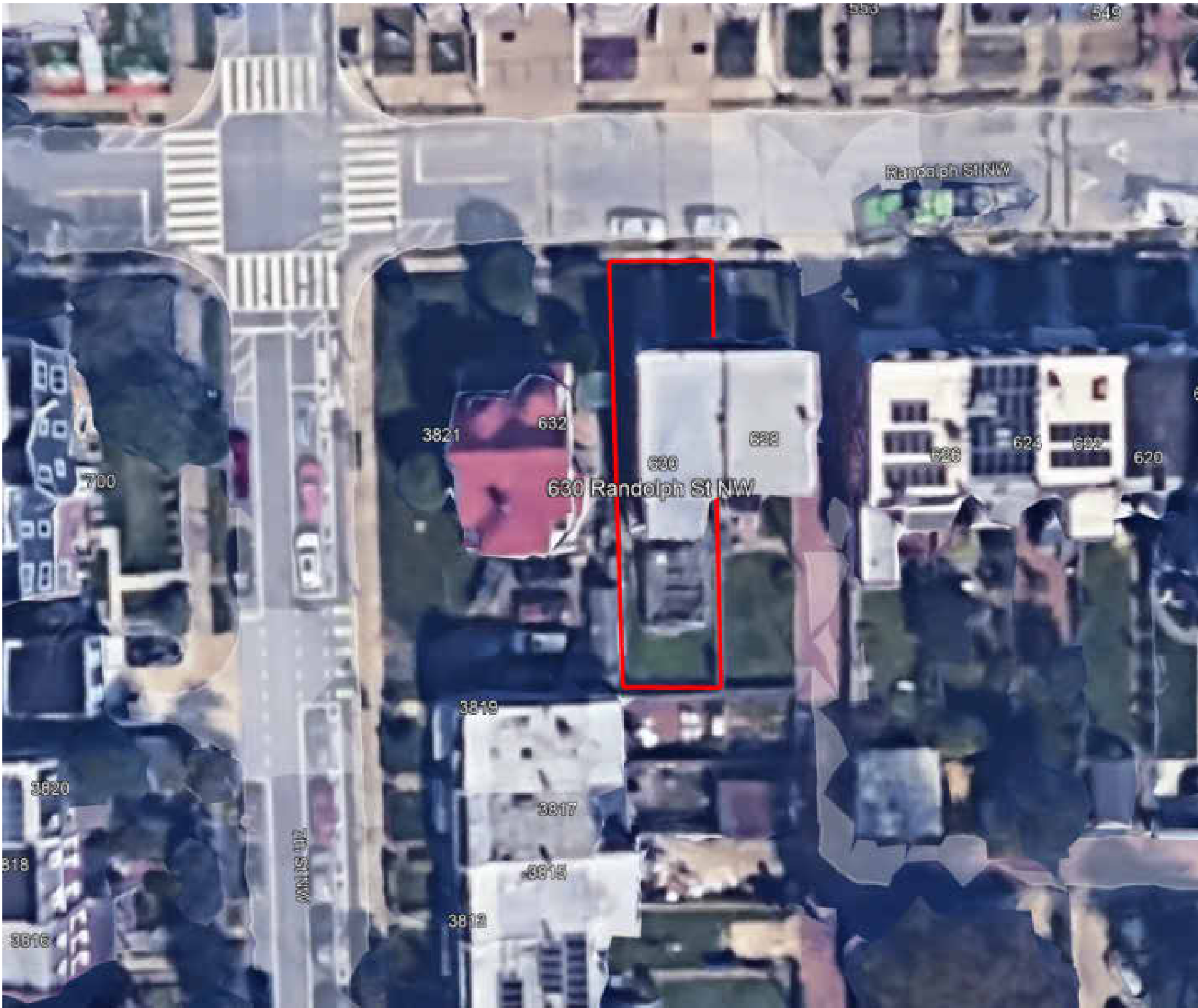


630 RANDOLPH DC HOUSE EXTENSION

List of Drawings

Sheet Number	Sheet Name
A000	Cover
A001	Site Plan
A101	Existing Plans
A102	Proposed Extensions and Demolitions
A103	Proposed Plans
A104	Elevations
A105	Sections
S100	Structural NOTES
S101	Structural Floor Framing
S102	Roof Framing
S103	Proposed Foundation
S104	Wall Framing
S105	SECTIONAL Details
S106	WALL DETAILS
S107	CONNECTION DETAILS (x1)
S108	CONNECTION DETAILS (x2)
S109	CONNECTION DETAILS (x3)
S110	CONNECTION DETAILS (x4) & nailing rules
E101	Electrical Plans
E102	Electrical Riser
P101	Plumbing Plan
P102	Plumbing Riser
M101	HVAC Plan
M102	HVAC Riser



CLIENT

REAR HOUSE EXTENSION

NOTES:

ALL UNITS IN FEET AND INCHES
UNLESS OTHER WISE SPECIFIED

DRAWING NAME
Cover

Project number S-1107
Date 04/11/2024
Drawn by Abdullah
Checked by SAIF

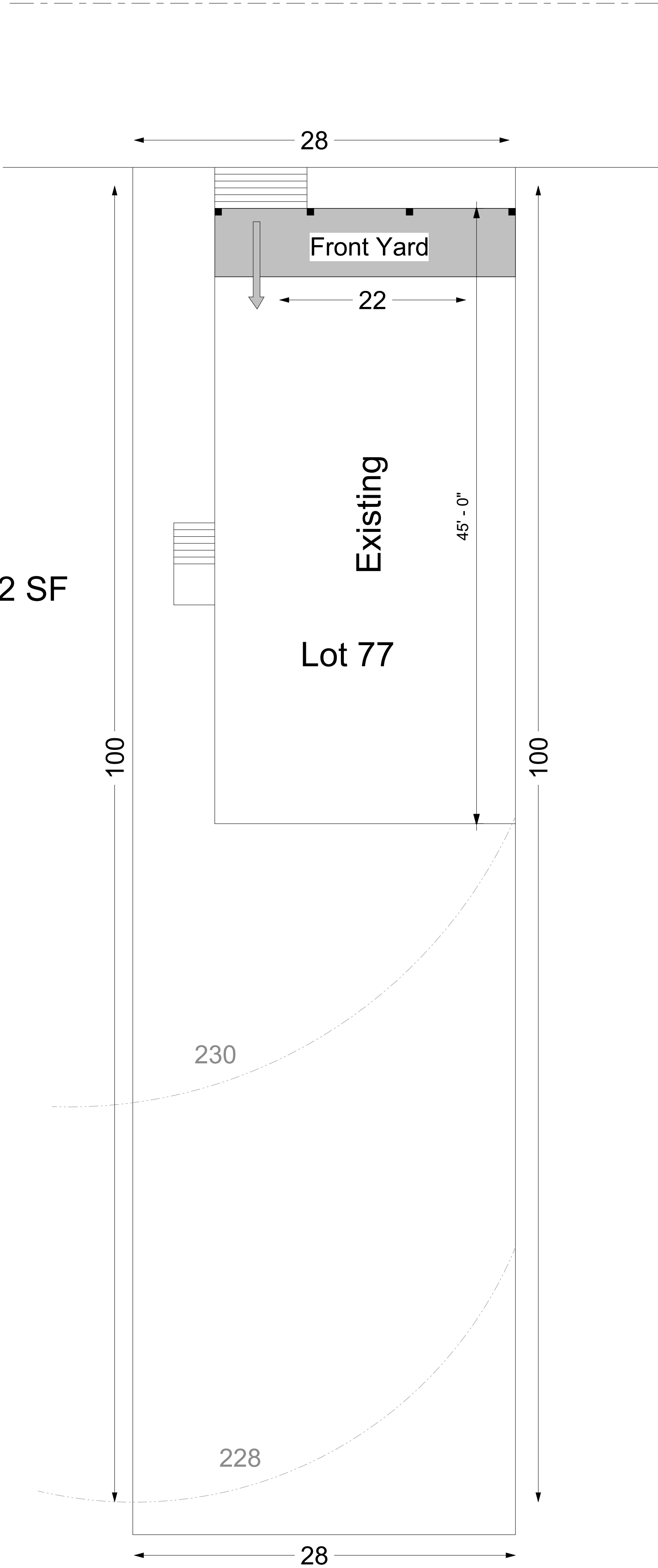
A000

Scale

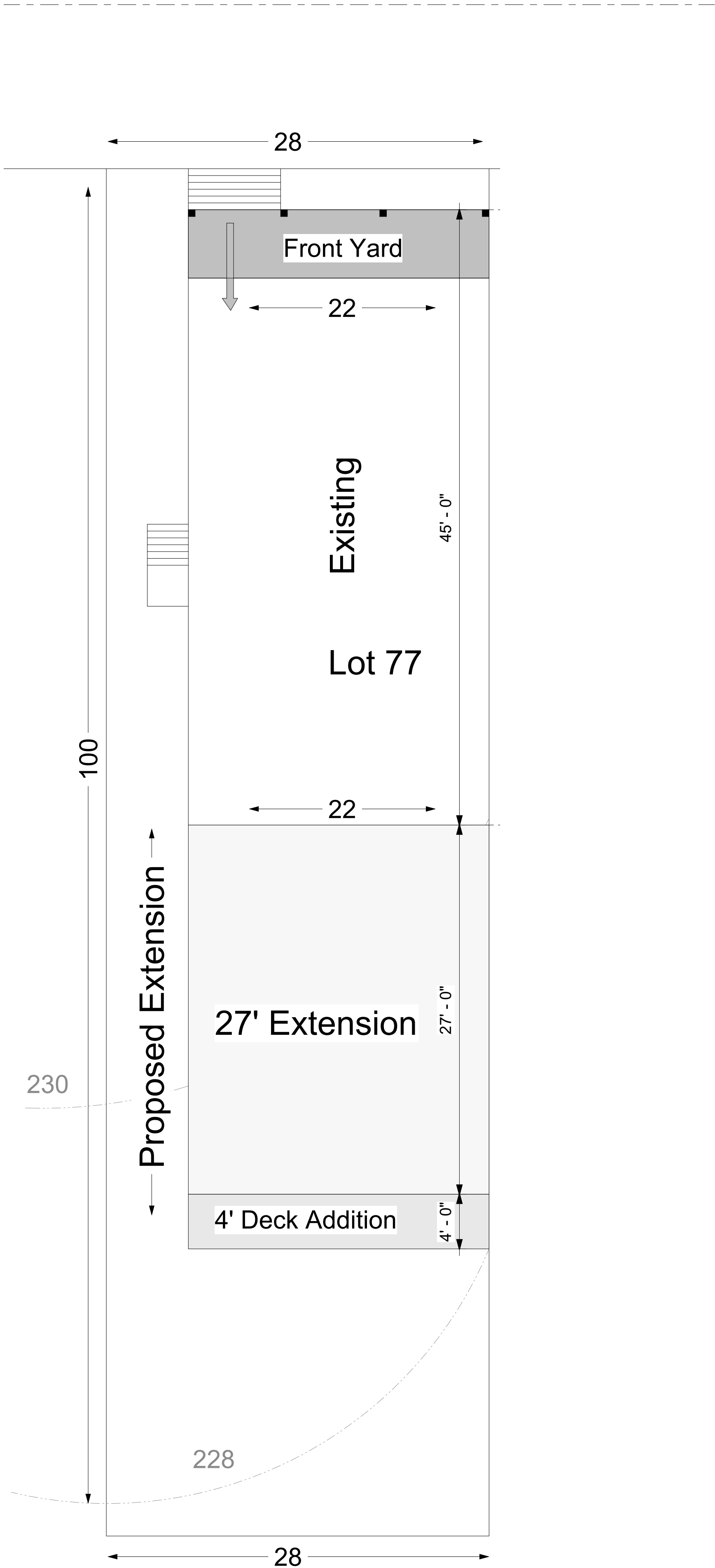
Project Information

Lot: 77
Lot Size: 2800 SF
Water: Yes
Sewer: Yes
Proposed Building: 1672 SF
Lot Occupancy: 59.7%

1 Existing Site Plan
3/16" = 1'-0"



2 Proposed Site Plan
3/16" = 1'-0"



CLIENT

REAR HOUSE EXTENSION

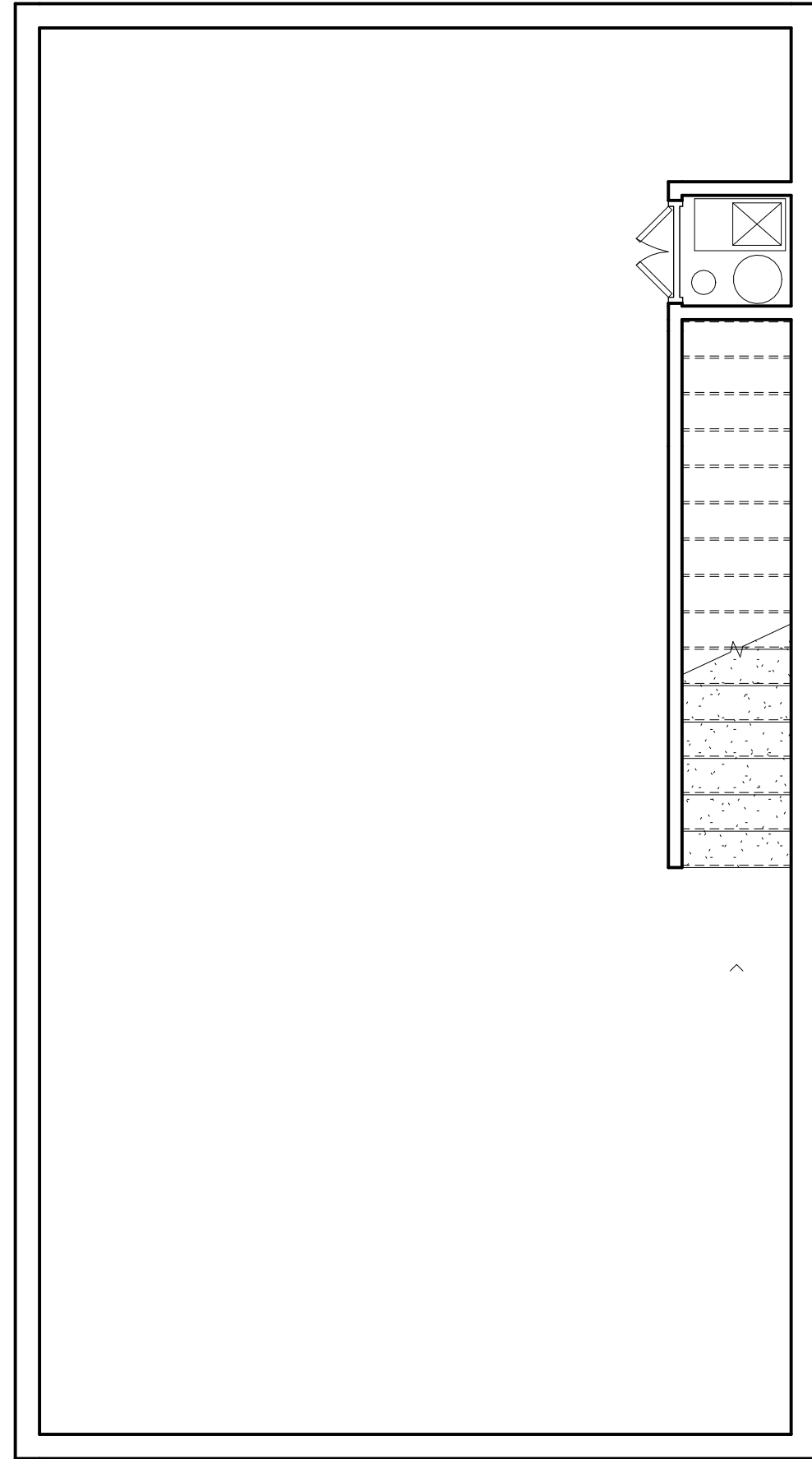
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UNLESS OTHER WISE SPECIFIED

DRAWING NAME
Site Plan

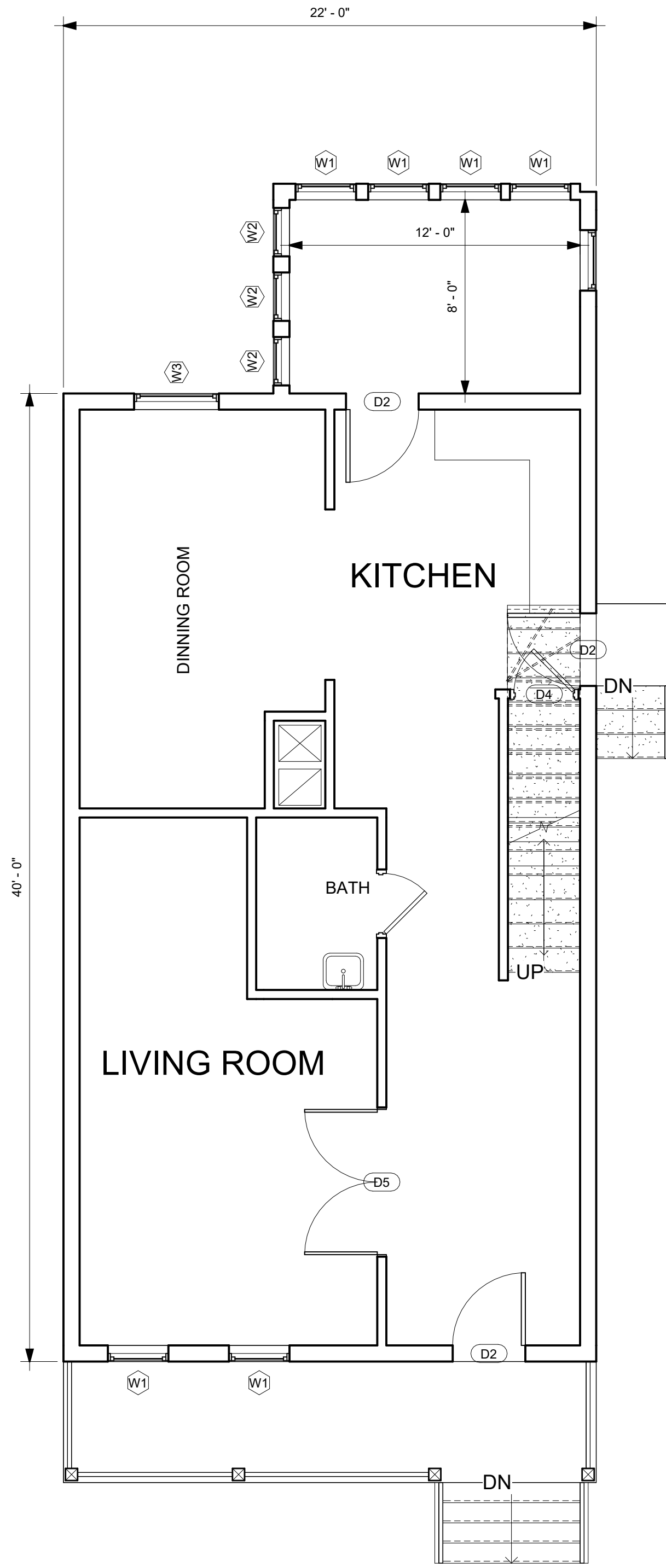
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Date 04/11/2024
Drawn by Abdullah
Checked by SAIF

A001

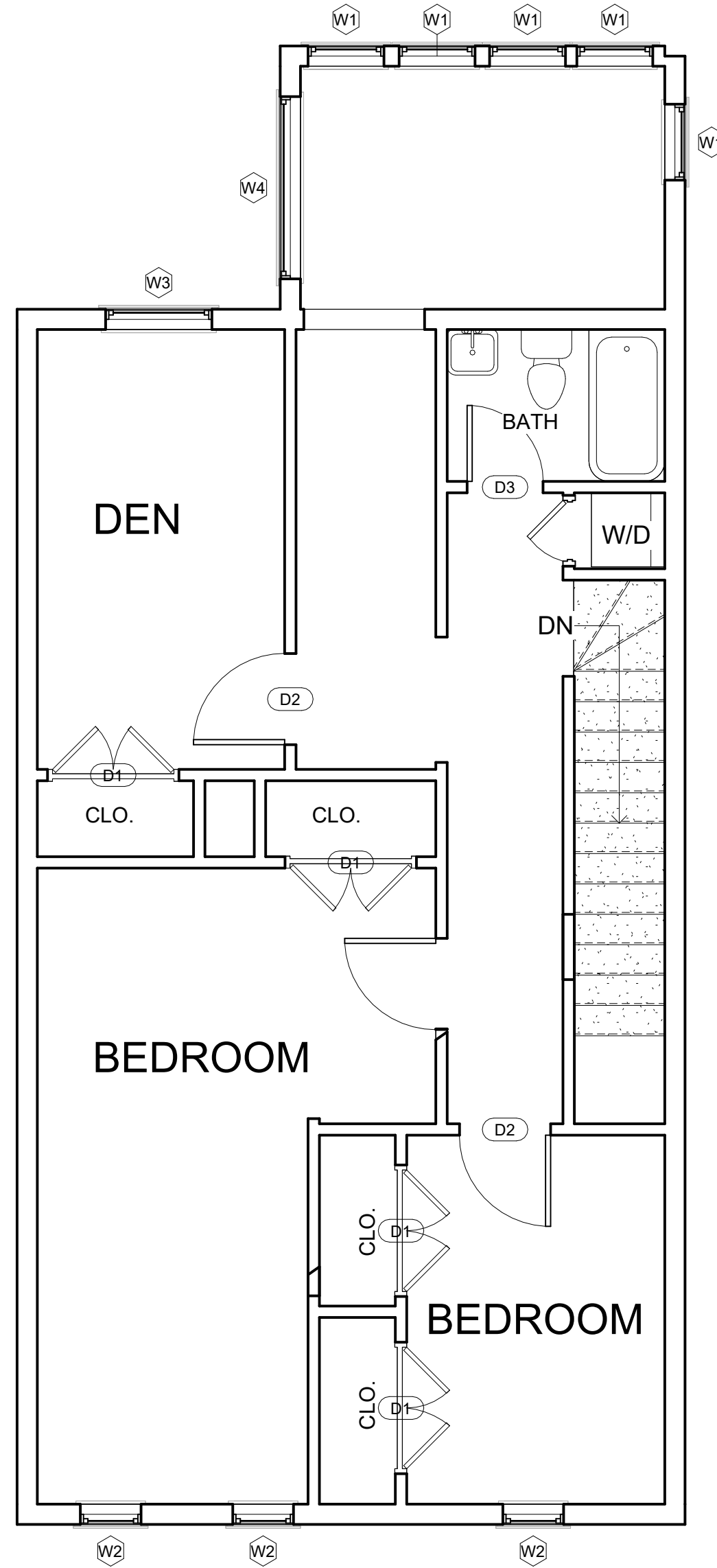
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1 BASEMENT.
1/4" = 1'-0"



2 FIRST FLOOR PLAN
1/4" = 1'-0"



3 SECOND FLOOR PLAN
1/4" = 1'-0"

CLIENT

REAR HOUSE EXTENSION

NOTES:

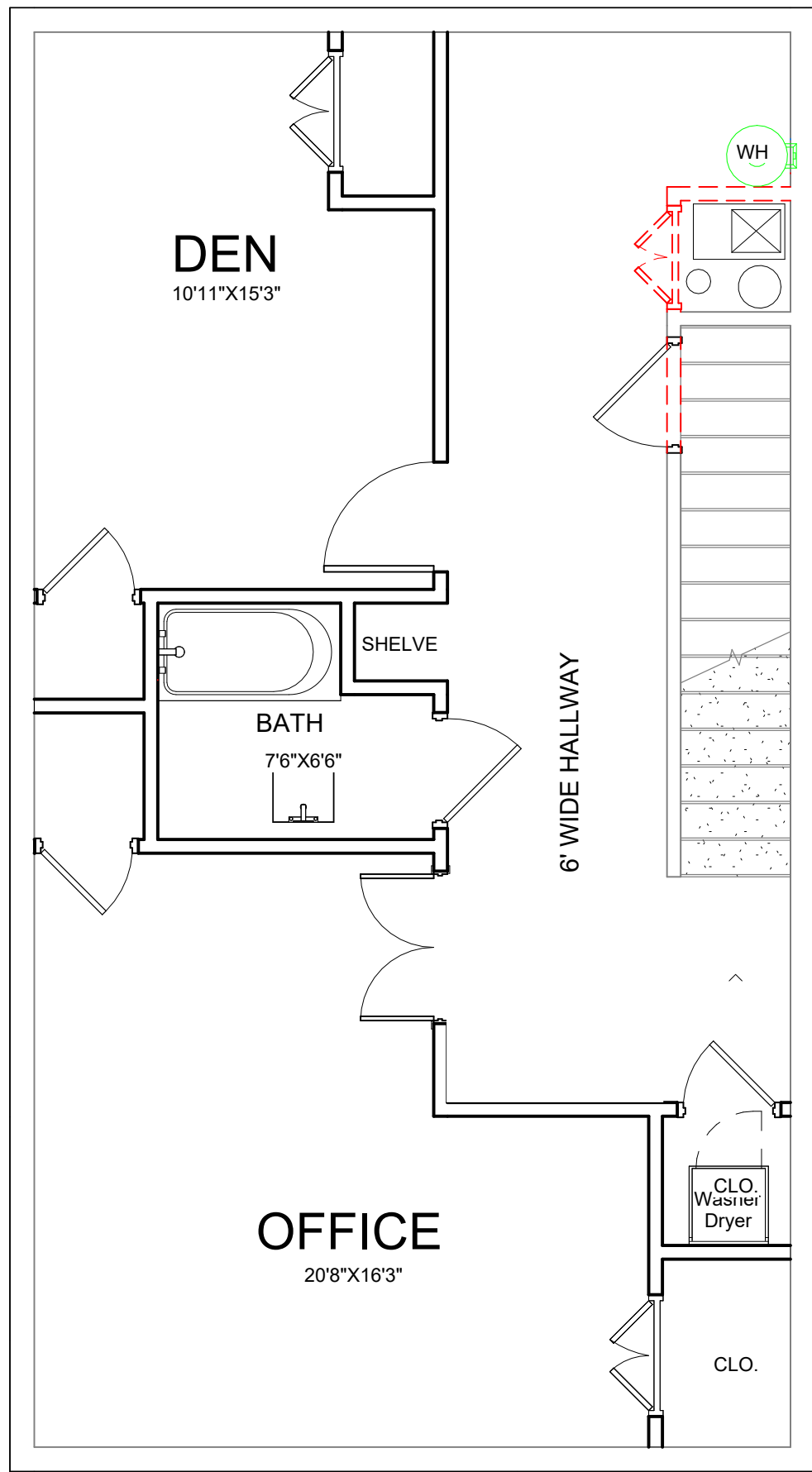
ALL UNITS IN FEET AND INCHES
UNLESS OTHER WISE SPECIFIED

DRAWING NAME
Existing Plans

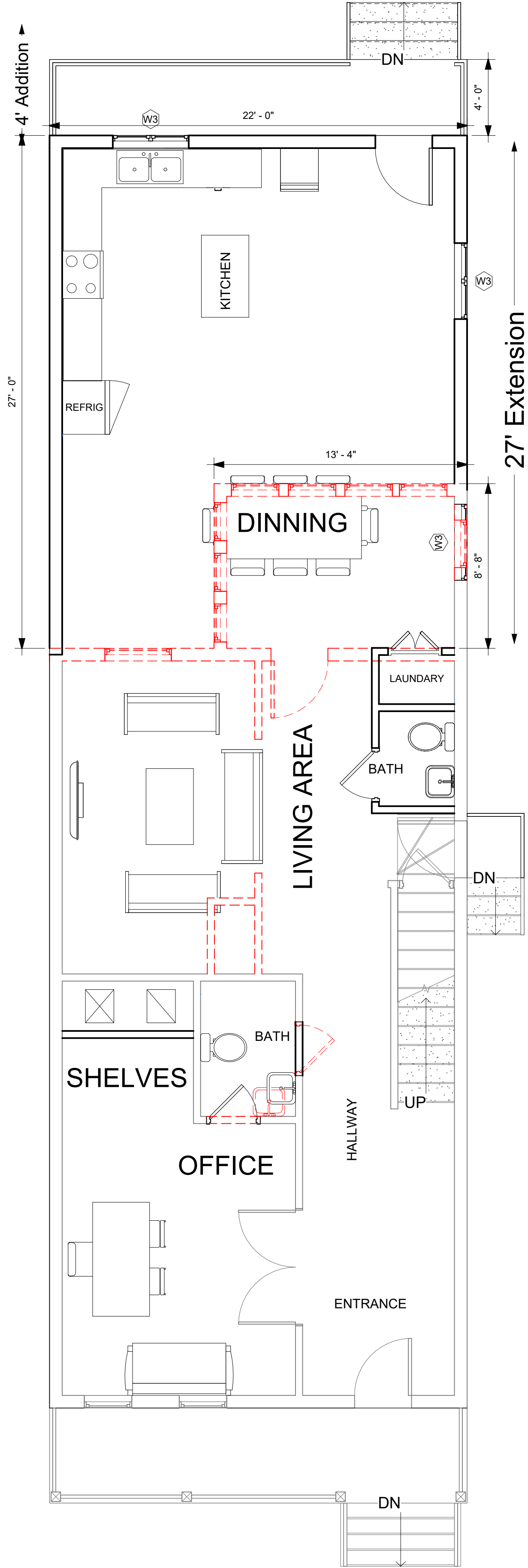
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Date	04/11/2024
Drawn by	Abdullah
Checked by	SAIF

A101

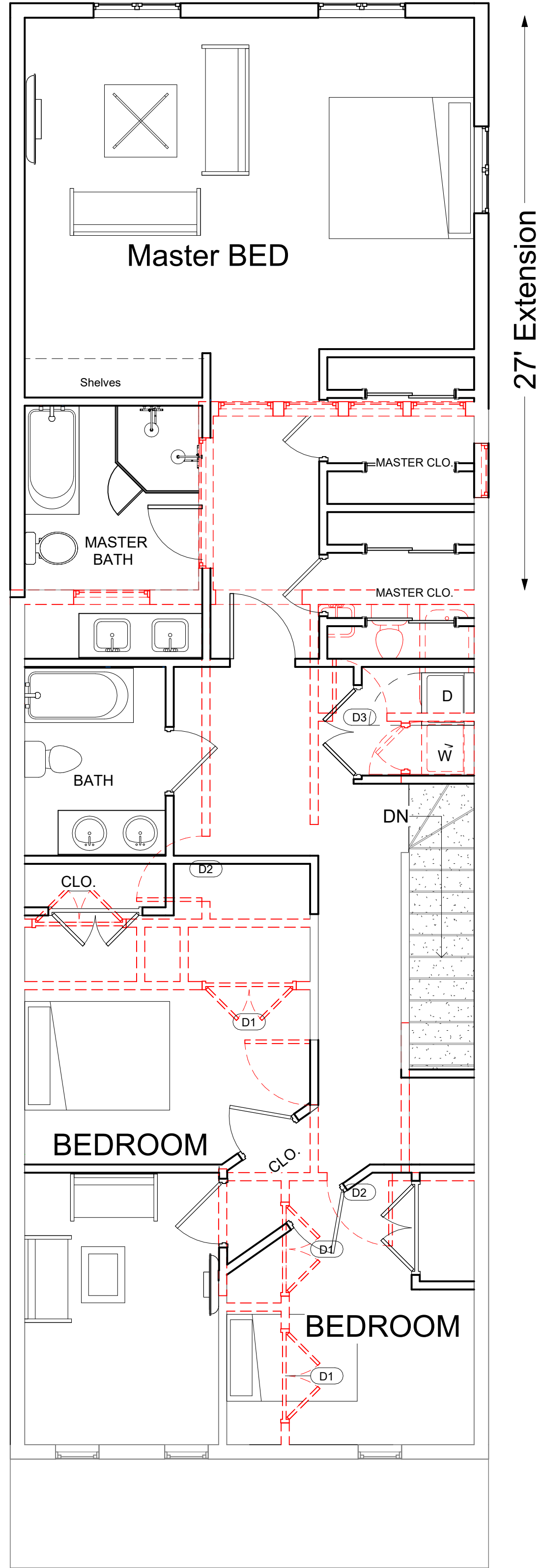
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1 BASEMENT
1/4" = 1'-0"



2 FIRST FLOOR NEW +DEMOL.
1/4" = 1'-0"



3 SF NEW +DEM
1/4" = 1'-0"

CLIENT

REAR HOUSE EXTENSION

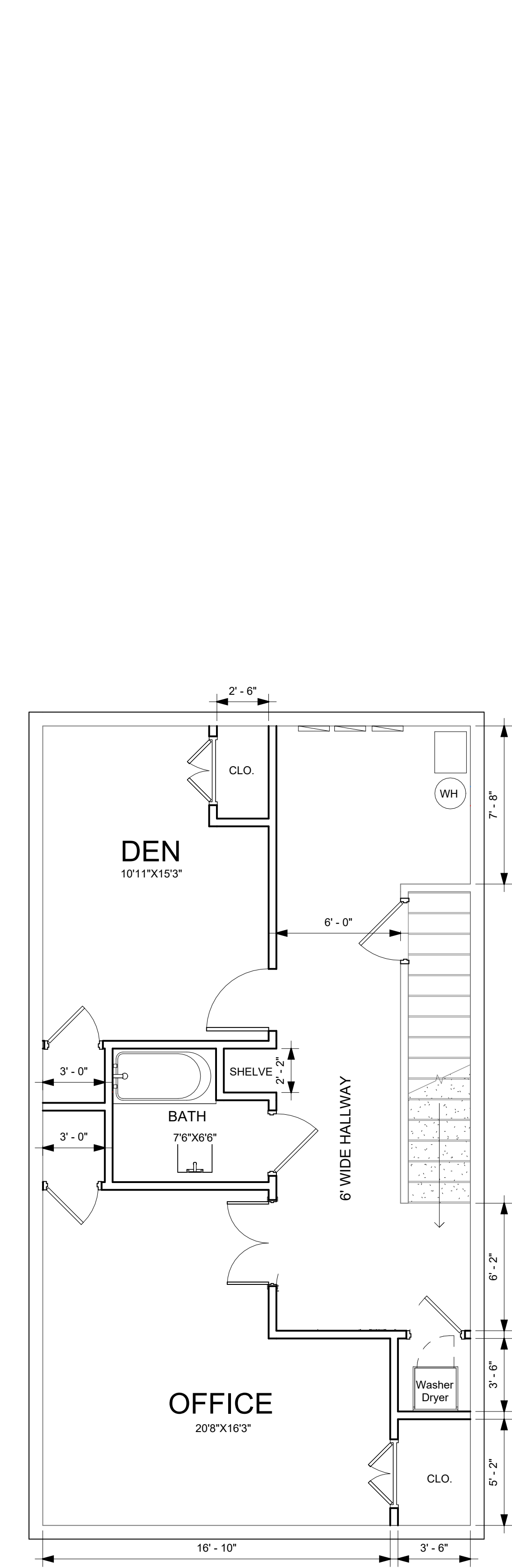
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ALL UNITS IN FEET AND INCHES
UNLESS OTHER WISE SPECIFIED

DRAWING NAME
Proposed Extensions
and Demolitions

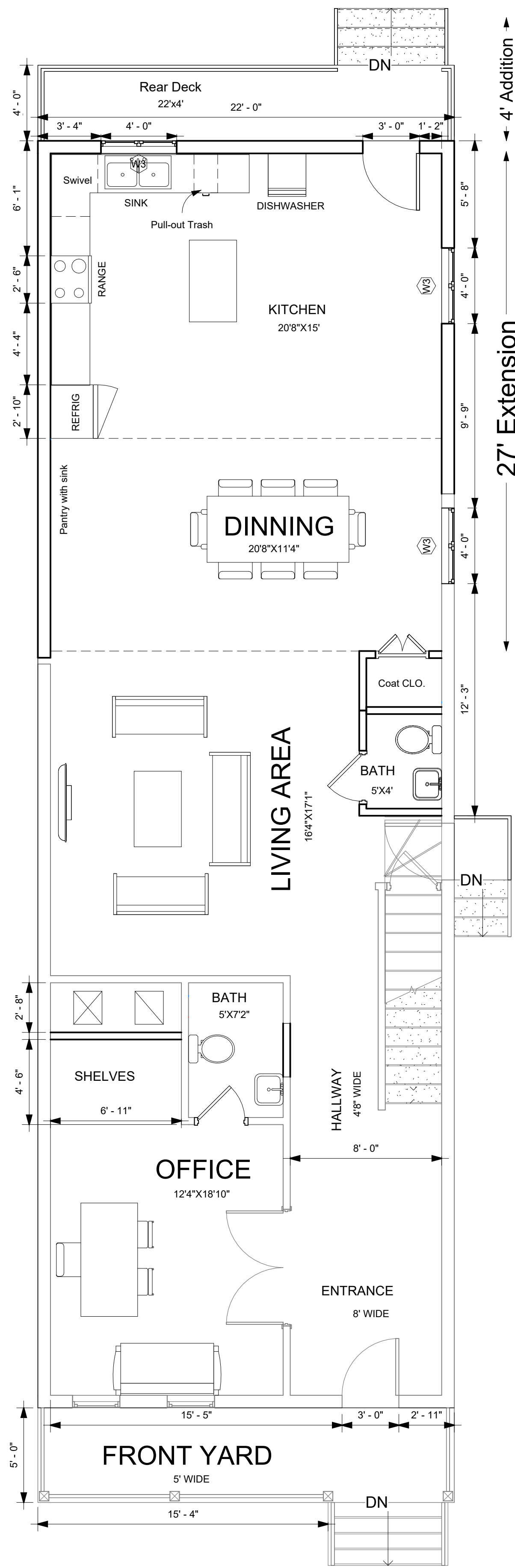
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Date 04/11/2024
Drawn by Abdullah
Checked by SAIF

A102

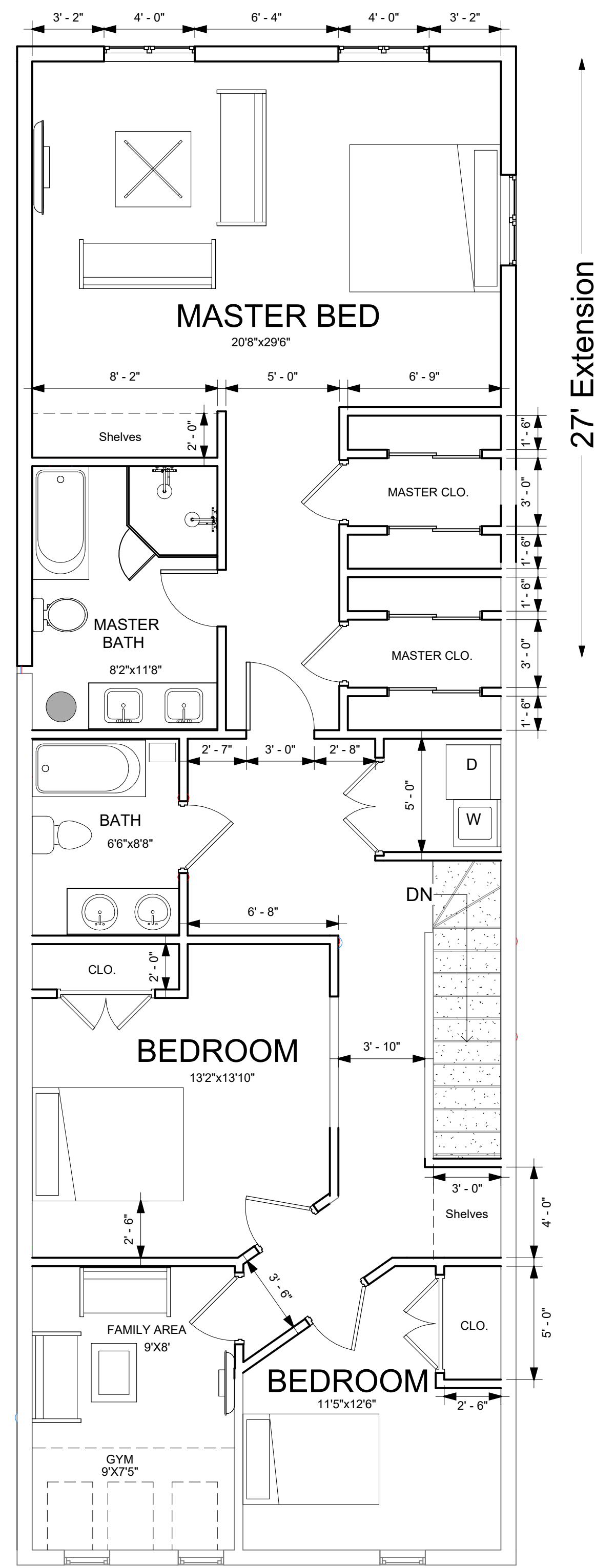
Scale 1/4" = 1'-0"



1 BASEMENT.
1/4" = 1'-0"



2 PROPOSED FIRST FLOOR
1/4" = 1'-0"



3 PROPOSED SECOND FLOOR
1/4" = 1'-0"

CLIENT

REAR HOUSE EXTENSION

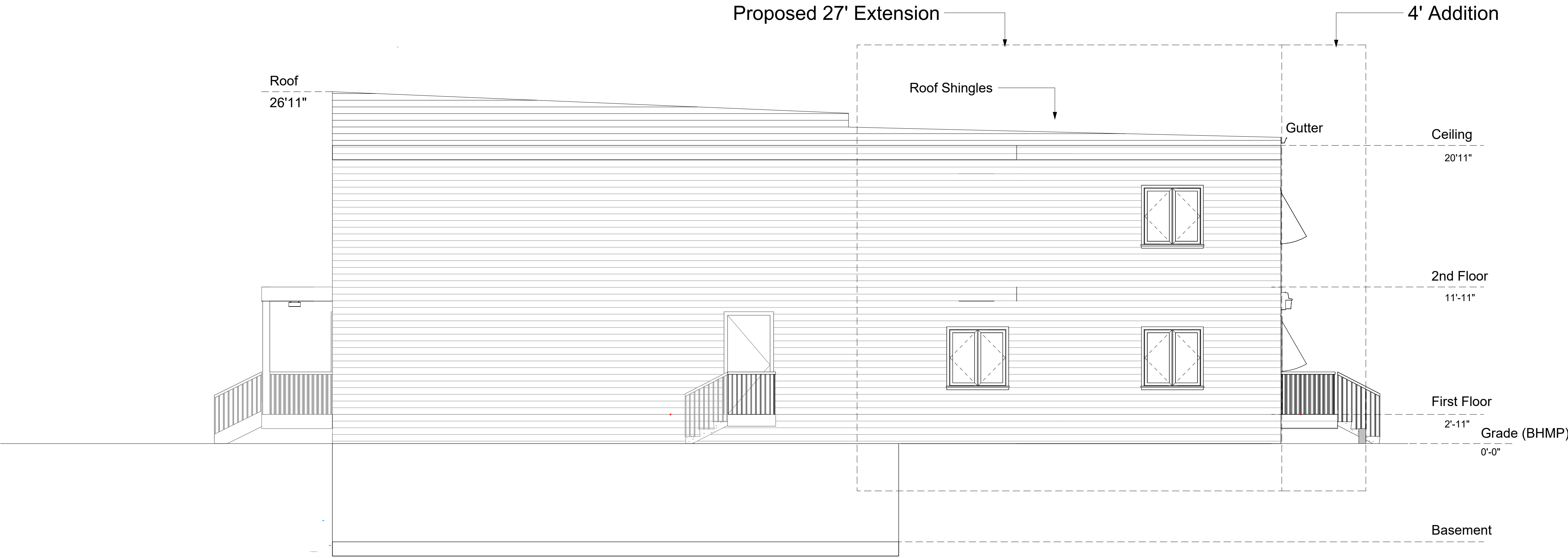
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ALL UNITS IN FEET AND INCHES
UNLESS OTHER WISE SPECIFIED

DRAWING NAME
Proposed Plans

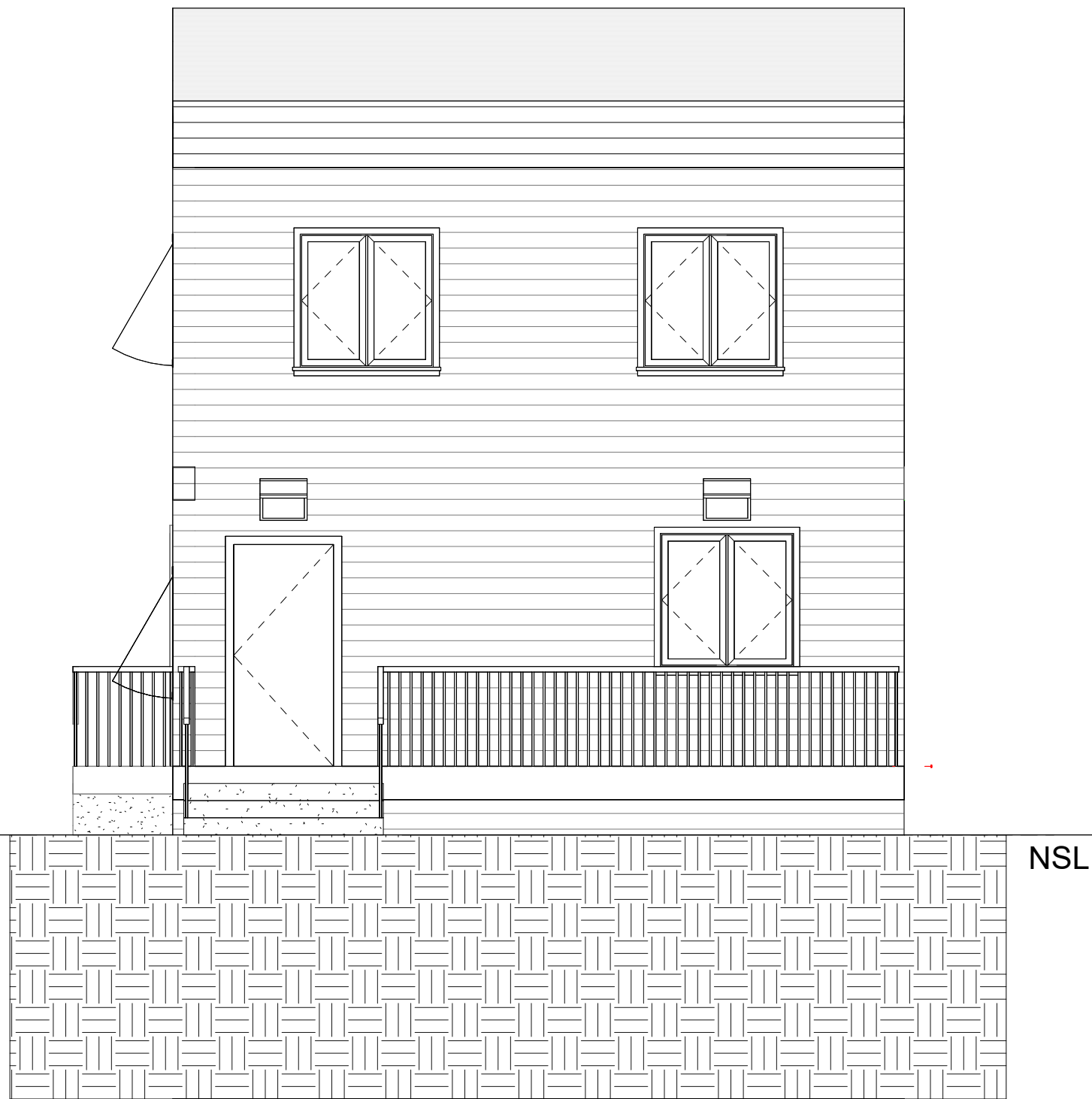
Project number S-1107
Date 04/11/2024
Drawn by Abdullah
Checked by SAIF

A103

Scale 1/4" = 1'-0"



① East
1/4" = 1'-0"



② North
1/4" = 1'-0"

CLIENT

REAR HOUSE EXTENSION

NOTES:

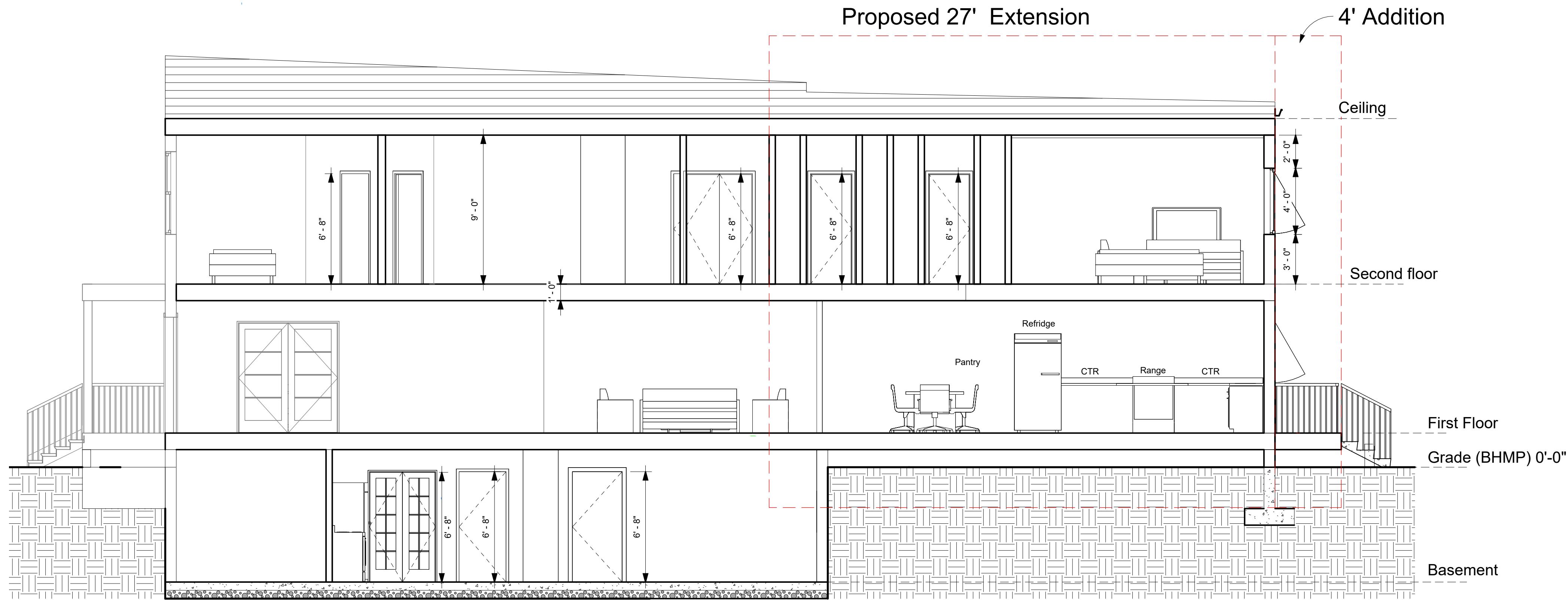
ALL UNITS IN FEET AND INCHES
UNLESS OTHER WISE SPECIFIED

DRAWING NAME
Elevations

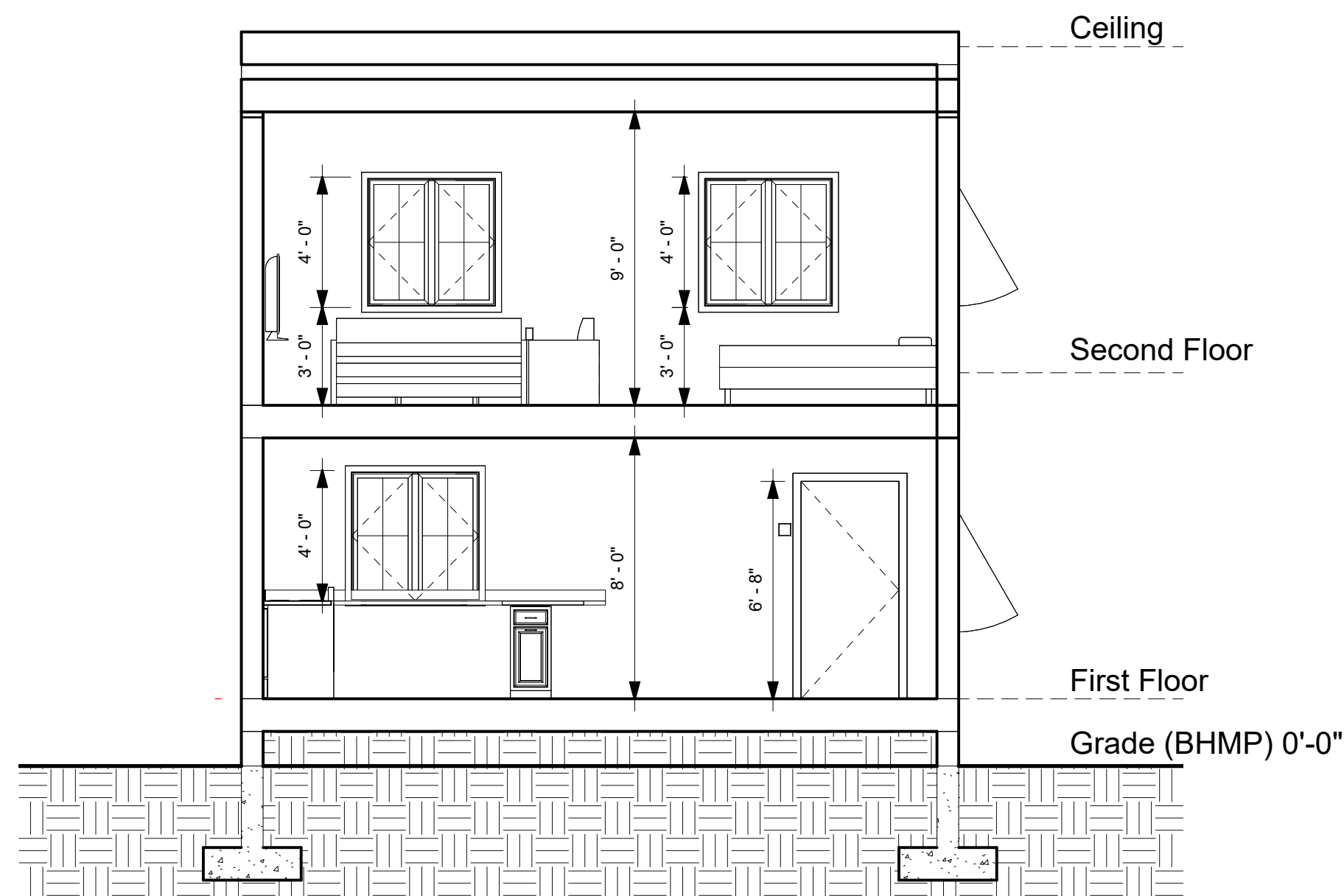
Project number S-1107
Date 04/11/2024
Drawn by Abdullah
Checked by SAIF

A104

Scale 1/4" = 1'-0"



② Section 2
1/4" = 1'-0"



① Section 1
1/4" = 1'-0"

CLIENT

REAR HOUSE EXTENSION

NOTES:

ALL UNITS IN FEET AND INCHES
UNLESS OTHER WISE SPECIFIED

DRAWING NAME

Sections

Project number	S-1107
Date	04/11/2024
Drawn by	Abdullah
Checked by	SAIF

A105

Scale	1/4" = 1'-0"
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STRUCTURAL NOTES

GENERAL STRUCTURE REQUIREMENT

- ALL WORK SHALL CONFORM TO THE REQUIREMENTS IN USE BY THE GOVERNING AGENCY HAVING JURISDICTION UNLESS MORE STRINGENT REQUIREMENTS ARE REQUIRED IN THE PLANS AND SPECIFICATION CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE COUNTY CONSTRUCTION SAFETY ORDERS.
- CONTRACTOR SHALL VERIFY ALL CONDITIONS, ELEVATIONS AND DIMENSIONS IN THE FIELD BEFORE STARTING WORK. THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND.
- BEFORE SUBMITTING A BID FOR THIS PROJECT THE CONTRACTOR SHALL EXAMINE THE SITE TO COMPARE IT WITH PLANS AND NOTES AS TO THE CONDITIONS UNDER WHICH THIS WORK WILL BE PERFORMED.
- CONTRACTOR SHALL PROVIDE TEMPORARY BRACES, SHORES AND GUYS, AHEREVER NECESSARY TO SUPPORT ALL LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED DURING CONSTRUCTION INCLUDING ERECTION EQUIPMENT AND IT'S OPERATION THIS TEMPORARY SUPPORT SYSTEMS SHALL HOLD ALL ELEMENT AND MEMBERS IN THEIR FINAL POSITIONS UNTIL THEY ARE TOTALLY AND FINALLY CONNECTED TO THE PERMANENT BRACING ELEMENTS.
- DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE DOWN ON PLANS.
- NOTES AND DETAILS SHOWN AS "TYPICAL- SHALL APPLY IN ALL CASES UNLESS SPECIFIC DETAILS OCCUR ELSEWHERE. WHERE NO DETAIL IS SHOWN, CONSTRUCTION SHALL BE AS FOR SIMILAR WORK
- DESIGN LOAD ARE AS FOLLONS:
ROOF: 30LB/SF, FLOOR: 40LB/SF

CONCRETE

- CONCRETE MIXES SHALL BE DESIGNED BY AN APPROVED LABORATORY CURRENTLY DOING THIS TYPE OF WORK.
- THE MIX DESIGN INCLUDING PROPORTIONS FOR MATERIAL FOR ONE YARD BATCH SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO APPROVAL.
- CONCRETE MIX THAT PRODUCES THE LOWEST SLUMP COMPATIBLE WITH PROPER PLACEMENT SHALL BE USED. MAX SLUMP SHALL BE 4.5" UNLESS APPROVED OTHERWISE.
- CONCRETE SHALL HAVE THE FOLLOWING COMPRESSIVE STRENGTH AT 28 DAYS:
FOOTING: 3000 PSI
SLAB ON GRADE: 3000 PSI
- CONTINUOUS INSPECTION IS REQUIRED FOR ALL CONCRETE WITH DESIGN COMPRESSIVE STRENGTH GREATER THAN OR EQUAL TO 3.000 PSI.
- PORTLAND CEMENT SHALL CONFORM TO ASTM C-150 TYPE | OR II.
- HARDROCK AGGREGATE SHALL CONFORM TO ASTM C-33 THEIR MAXIMUM SIZES SHALL BE 15 INCHES FOR FOOTING AND 0.75 INCHES FOR ALL OTHER WORK.

CONCRETE FORMS

- FORMS SHALL BE SMOOTH, WELL BRAGED. AND TIGHT ENOUGH TO PREVENT ANY LEAKS
- CLEAR COVERAGE OF CONCRETE OVER OUTER REINFORCING BARS SHALL BE AS FOLLOWS:
FOOTING AND WALLS AGAINST EARTH: 3" CLEAR (IF NOT FORMED)
STRUCTURAL SLAB: 2" CLEAR (IF NOT FORMED)
- ALL REINFORCING STEEL DOWELS SHALL BE WELL SECURED IN PLACE PRIOR TO PLACINS CONCRETE.

REINFORCING STEEL

- REINFORCINS STEEL SHALL BE NEW STOCK DEFORMED BARS CONFORMING TO ASTM A-615, GRADE 40 FOR BARS UP TO AND INCLUDING #5 AND GRADE 60 FOR ALL BARS GREATER THAN #5. ALL BARS SHALL BE DEFORMED AND SHALL COMPLY WITH ASTM A-305 EXCEPT THAT #2 BARS MUST BE PLAIN.
- DO NOT WELD GRADE 60 REINFORCING STEEL UNLESS APPROVED TO DO SO.

SPREAD FOOTING REBAR

#5 REBAR EACH WAY, 3" GLEAR FROM BOTTOM OF FOOTING.

FOUNDATION NOTES

- WHERE NOTED "SLAB-ON-GRADE", PROVIDE 6" THICK CONCRETE SLAB REINFORCED WITH #5 REBAR EACH WAY OVER 6-MIL POLYETHYLENE MOISTURE BARRIER, OVER 6' GRANULAR BASE, OVER NATURAL OR CERTIFIED COMPACTED EARTH.
- PROVIDE 5/8" DIA. X 16" LONG ANCHOR BOLTS @ 48" O.C. AT ALL EXTERIOR FOUNDATION WALLS UNLESS NOTED OTHERNISE PROVIDE MINIMUM OF ONE BOLT MAXIMUM OF 6' FROM CORNER OR END OF MUD PLATE. PROVIDE MINIMUM OF TWO BOLTS PER LENGTH OF A WALL.
- ALL FOOTINGS SHALL BE MINIMUM OF BO INCHES INTO NATURAL UNDISTURBED SOIL VERIFIED AND APPROVED BY THE INSPECTOR.

FRAMING NOTES

- ALL FRAMING MEMBERS SHALL BE #1 OR #2 SOUTHERN PINE.
- ALL FRAMING HARDWARE SHALL BE SIMPSON STRONG - TIE CONNECTORS OR EQUIVALENT HARDWARE APPROVED BY THE COUNTY.
- PROVIDE SOLID BLOCKING UNDER ALL BEARING WALLS.
- SEE ROOF PLAN AND SECTIONS FOR CEILING HEIGHTS, HEIGHTS OF OTHER MISCELLANEOUS COMPONENTS, AND OTHER ADDITIONAL INFORMATION.
- CUTTING, NOTCHING AND STRUCTURAL MEMBERS
 - . NOTCHING SHALL NOT BE IN EXCESS OF 25%% IN BEARING WALLS. AND 40% IN NONBEARING WALLS
 - . BORED HOLES SHALL NOT EXCEED 40 IN BEARING WALLS, AND 60% IN NONBEARING WALLS,
 - . JOIST SHALL NOT BE NOTCHED IN THE CENTER ONE-THIRD OF THE SPAN, IN ACCORDANCE WITH THE REQUIREMENTS OF
 - . BOGA NOTCHES IN THE ENDS OF JOIST
 - . SHALL NOT EXCEED 1/6 THE DEPTH OF THE JOIST
- FOR ROOF RAFTERS, PROVIDE 1 X 4 RAFTER TIES 48" O.C. PERPENDICULAR TO CEILING JOIST, AND PROVIDE COLLARS TIES @ 48" O.C. TYPICAL. BORED HOLES SHALL NOT BE WITHIN 2" OF THE TOP AND BOTTOM OF JOIST AND THE DIAMETER OF SUCH HOLES SHALL NOT EXCEED 1/3 THE DEPTH OF THE JOIST.

HEADER SCHEDULE	FLOOR	ROOF
OPENING 4'-0" OR LESS	2-2X10	2-2X10
OPENING 6'-0" OR LESS	2-2X10	2-2X10
OPENING 8'-0 OR LESS	2-2X10	2-2X10

IN ALL CASES. MATCH THE WIDTH OF HEADER WITH THE WALL.

FRAMING SCHEDULE:

FLOOR JOISTS:	2X10 @16" O.C
CEILING JOISTS:	2X12 @16" O.C
RIDGE BEARING:	2-2X12 GANG LAM 2650-FB-1-BE
WALL STUD:	2X6 @16" O.C
WOOD BEAM (10" MAX SPAN) :	2X12

SHEATHING

- ROOF: 5/8 APA-RATED PLYWOOD SHEATHING, EXPOSURE I, PANEL INDEX 32/16 WITH 8D NAILS @ 6" O.C ALONG SUPPORTED PANEL EDGES, AND 12" O.C. INTERMEDIATE ALLOW 1/8" SPACING AT PANEL ENDS AND EDGES. INSTALL WITH LONG DIMENSIONS OR STRENGTH AXIS OF THE PANEL CONTINUOUS OVER TWO OR MORE SPANS.
- WALLS 1/2" APA-RATED PLYWOOD SHEATHING, EXPOSURE I, PANEL INDEX 92/16 WITH 8D NAILS AT 6" O.C ALONG SUPPORTED PANEL EDGES, AND 12' O.C. INTERMEDIATE. ALLON 1/8" SPACING AT PANEL ENDS AND DIMENSION OR STRENGTH AXIS OF THE PANEL CONTINUOUS OVER TWO OR EDSES, INSTALL WITH THE LONG DIMENSION OF MORE SPANS.
- FLOOR: 3/4" APA-RATED PLYWOOD SHEATHING, EXPOSURE I, PANEL INDEX 32/16 WITH 8D NAILS AT 6" O.C ALONG SUPPORTED PANEL EDGES, AND 12' O.C. INTERMEDIATE ALLOW A/8" SPACING AT PANEL ENDS AND EDGES INSTALL WITH THE LONG DIMENSION OR STRENGTH AXIS OF THE PANEL CONTINUOUS OVER TWO OR MORE SPANS.
- GREEN DRYWALL MOISTURE RESISTANT GYPSUM DRYWALL USINS IN BATHROOM AND ADJACENT TO SINK.

CLIENT

REAR HOUSE EXTENSION

NOTES:

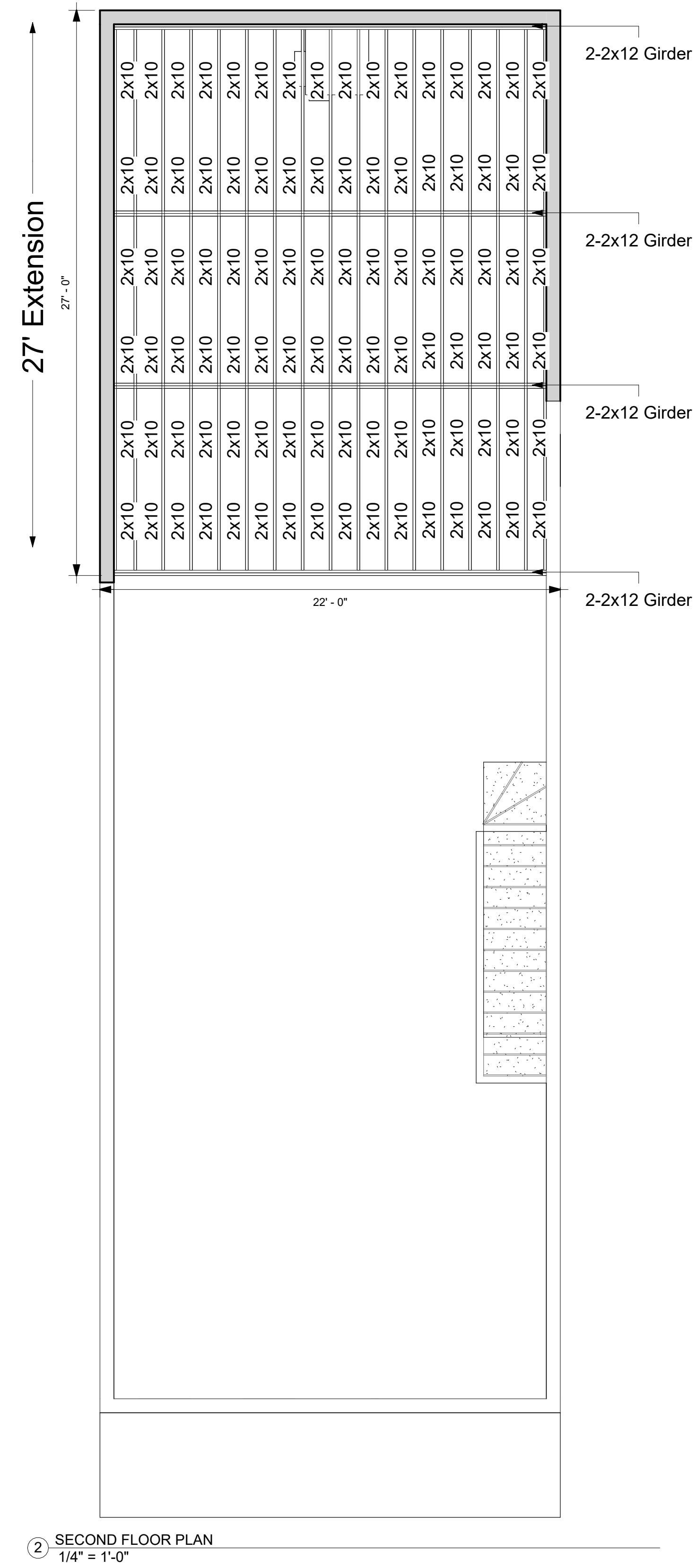
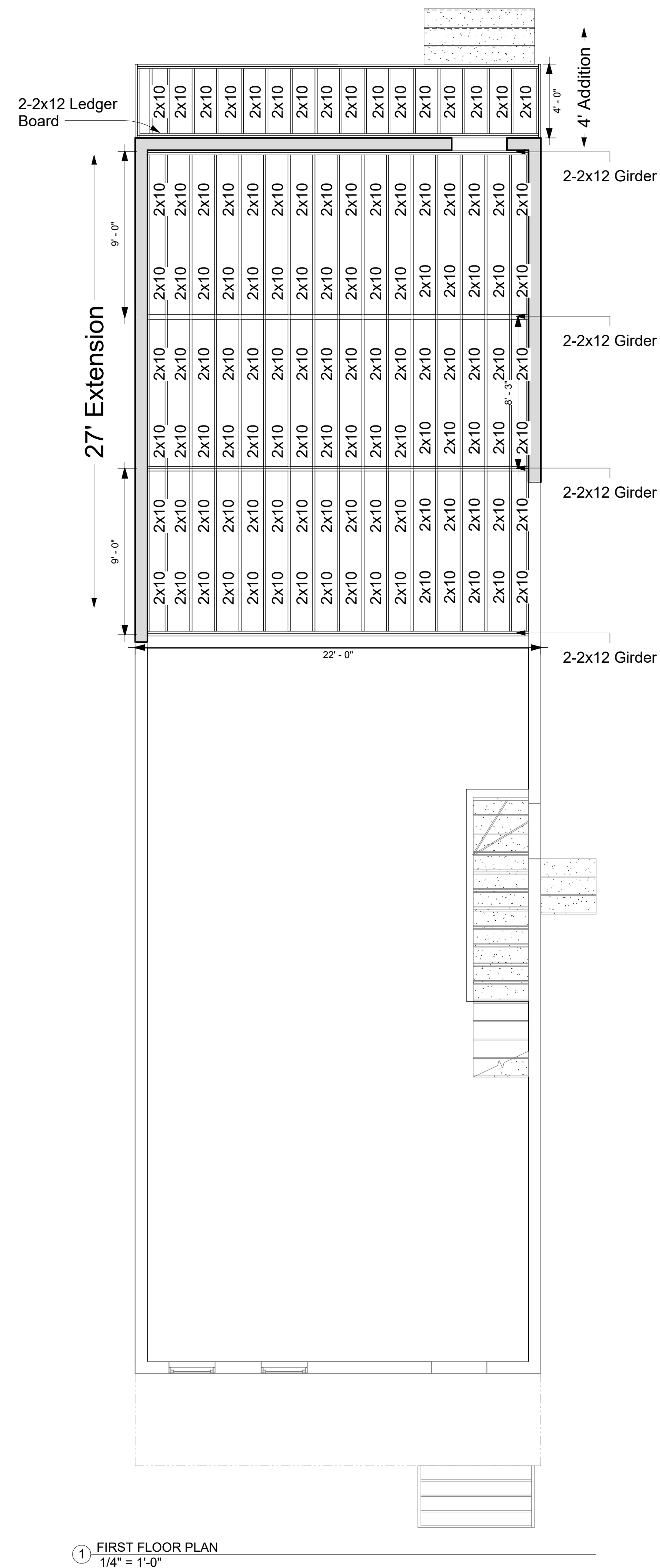
ALL UNITS IN FEET AND INCHES
UNLESS OTHER WISE SPECIFIED

DRAWING NAME
Structural NOTES

Project number	S-1107
Date	04/11/2024
Drawn by	Abdullah
Checked by	SAIF

S100

Scale



CLIENT

REAR HOUSE EXTENSION

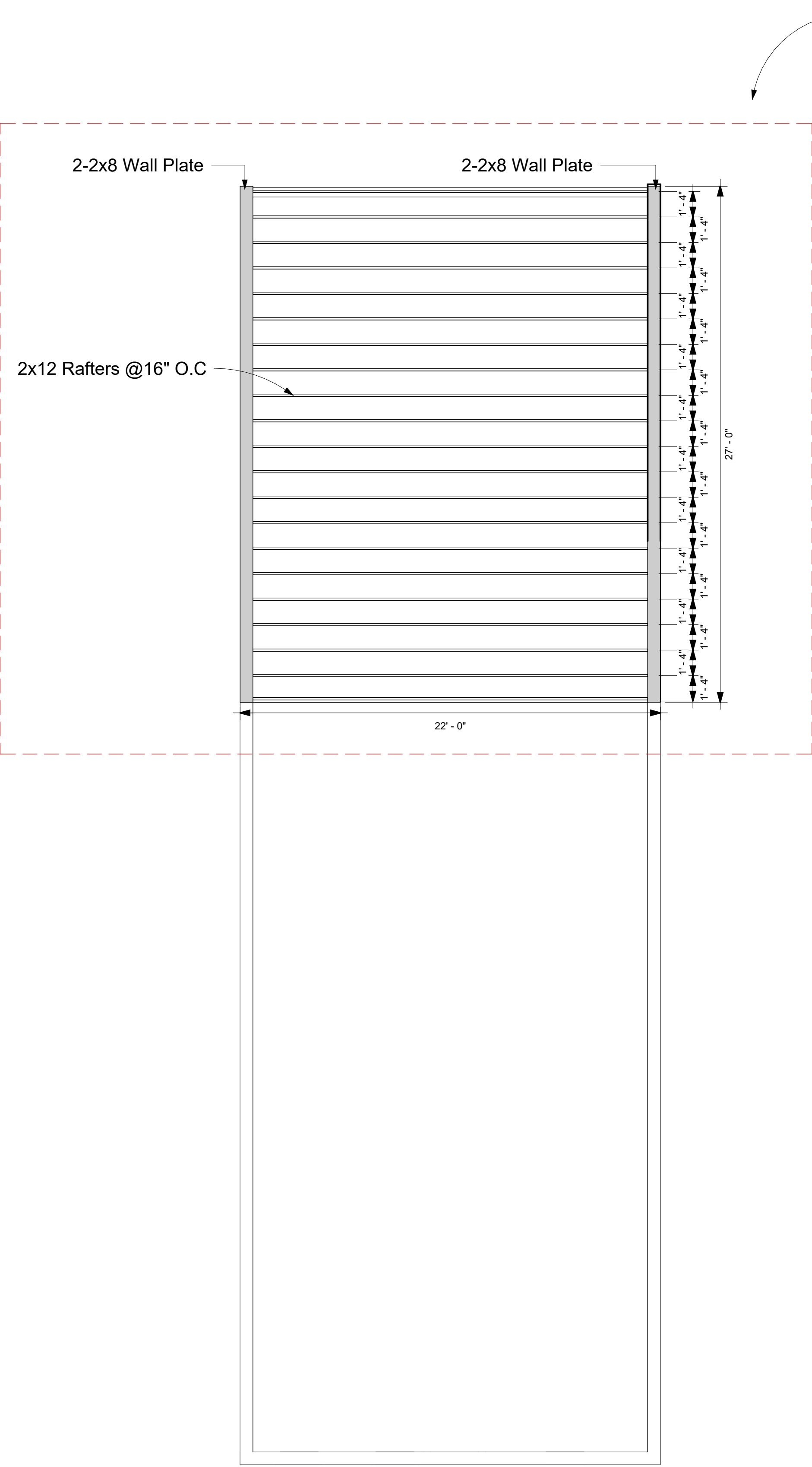
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ALL UNITS IN FEET AND INCHES
UNLESS OTHERWISE SPECIFIED

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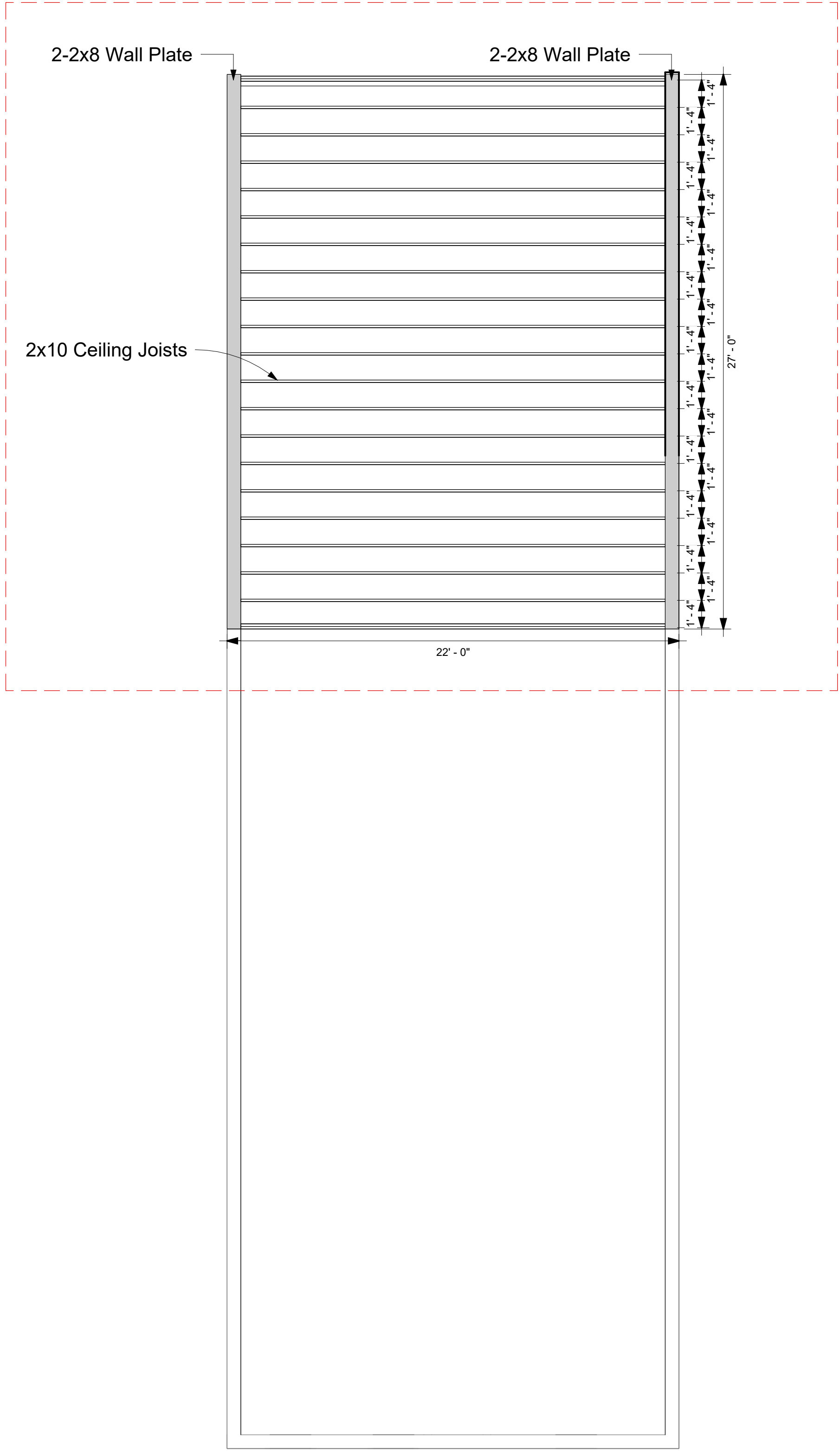
Structural Floor
Framing

Project number	S-1107
Date	04/11/2024
Drawn by	Abdullah
Checked by	SAIF
<div style="font-size: 48px; font-weight: bold;">S101</div>	
Scale	1/4" = 1'-0"



① Roof Rafters Framing
1/4" = 1'-0"

Proposed Roof Extension



② Ceiling Joists Framing
1/4" = 1'-0"

Proposed Extension

Proposed Extension

CLIENT

REAR HOUSE EXTENSION

NOTES:

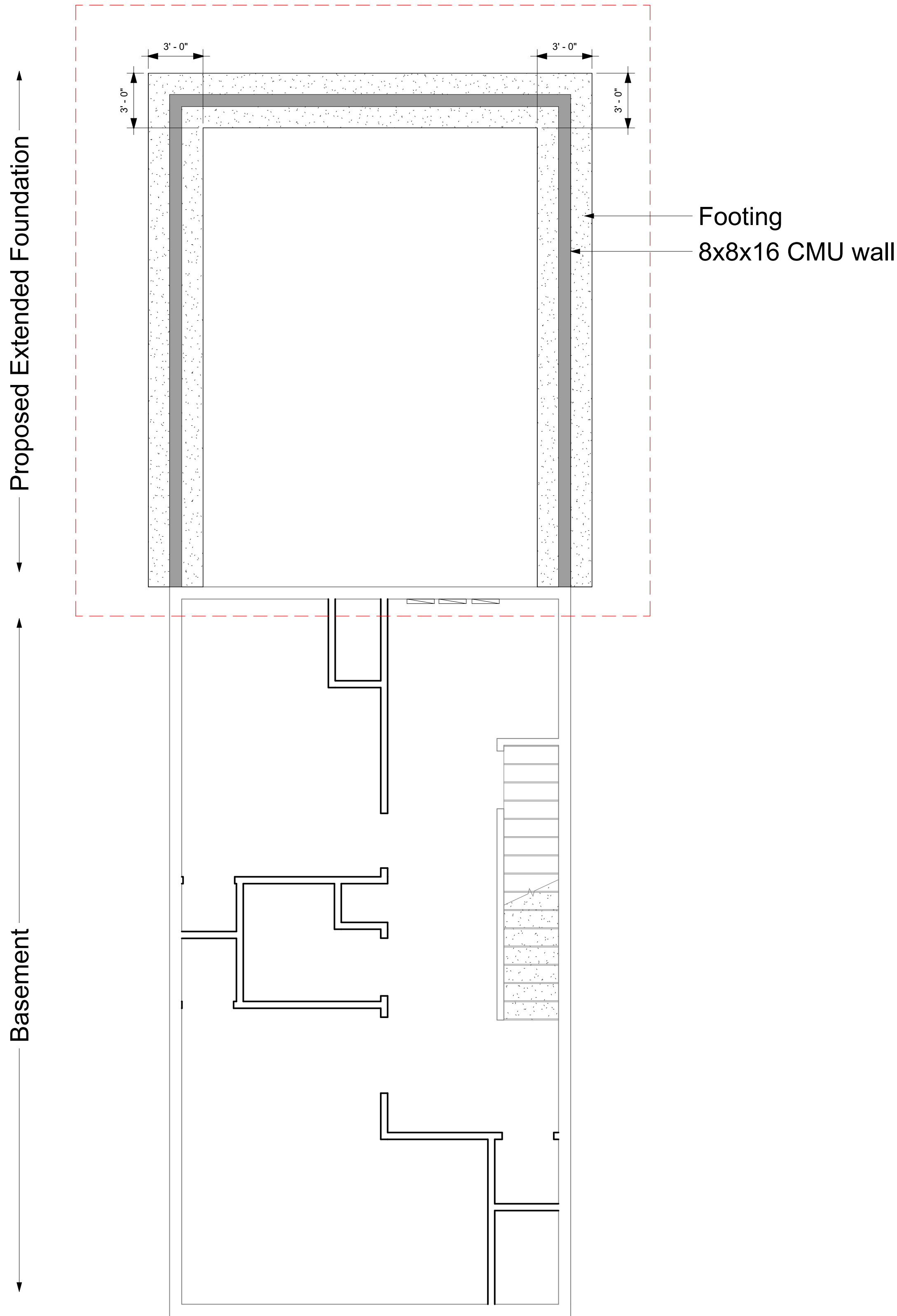
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UNLESS OTHER WISE SPECIFIED

DRAWING NAME
Roof Framing

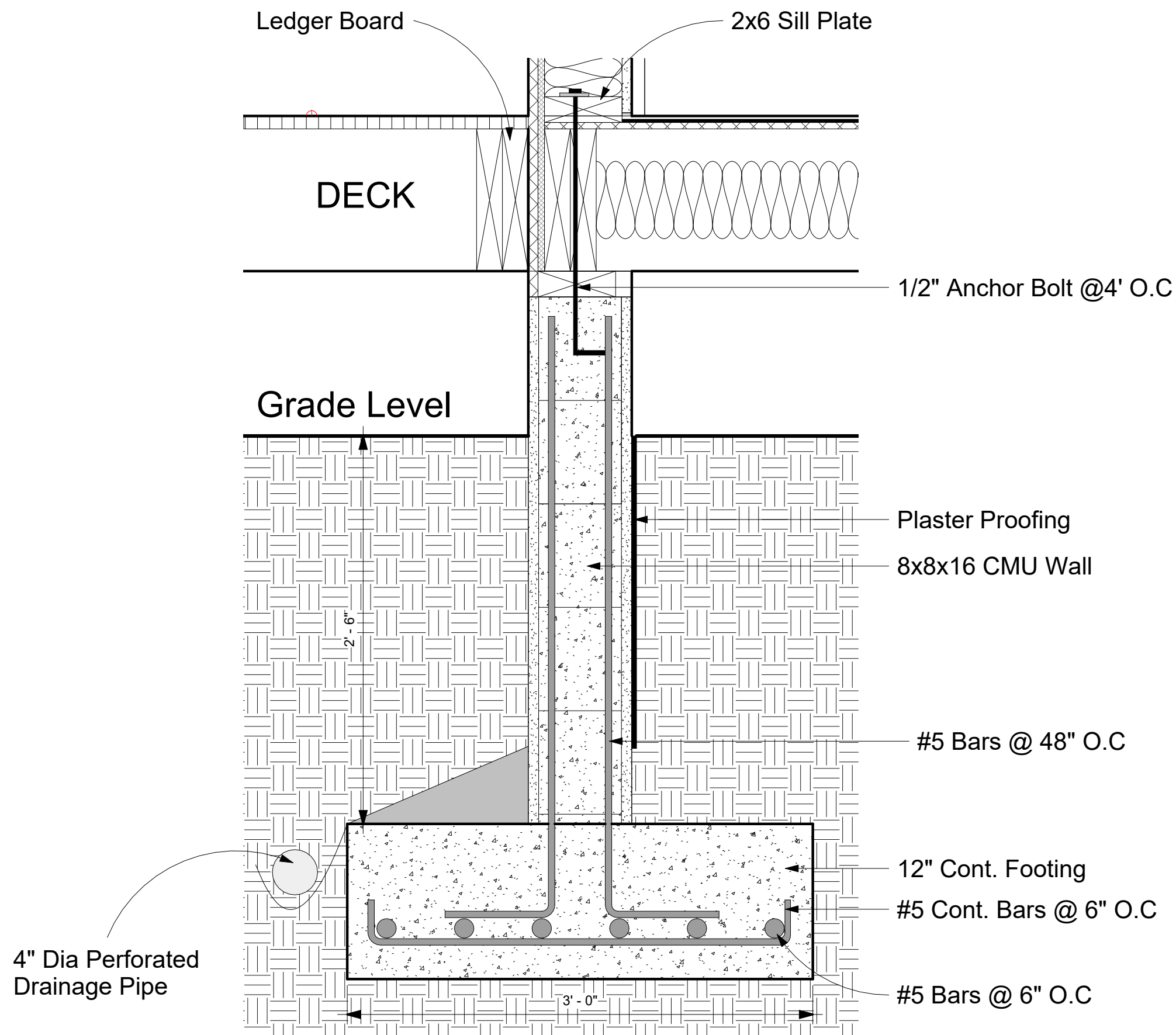
Project number	S-1107
Date	04/11/2024
Drawn by	Abdullah
Checked by	SAIF

S102

Scale	1/4" = 1'-0"
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① Foundation (Ext)
1/4" = 1'-0"



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

CLIENT

REAR HOUSE EXTENSION

NOTES:

ALL UNITS IN FEET AND INCHES
UNLESS OTHER WISE SPECIFIED

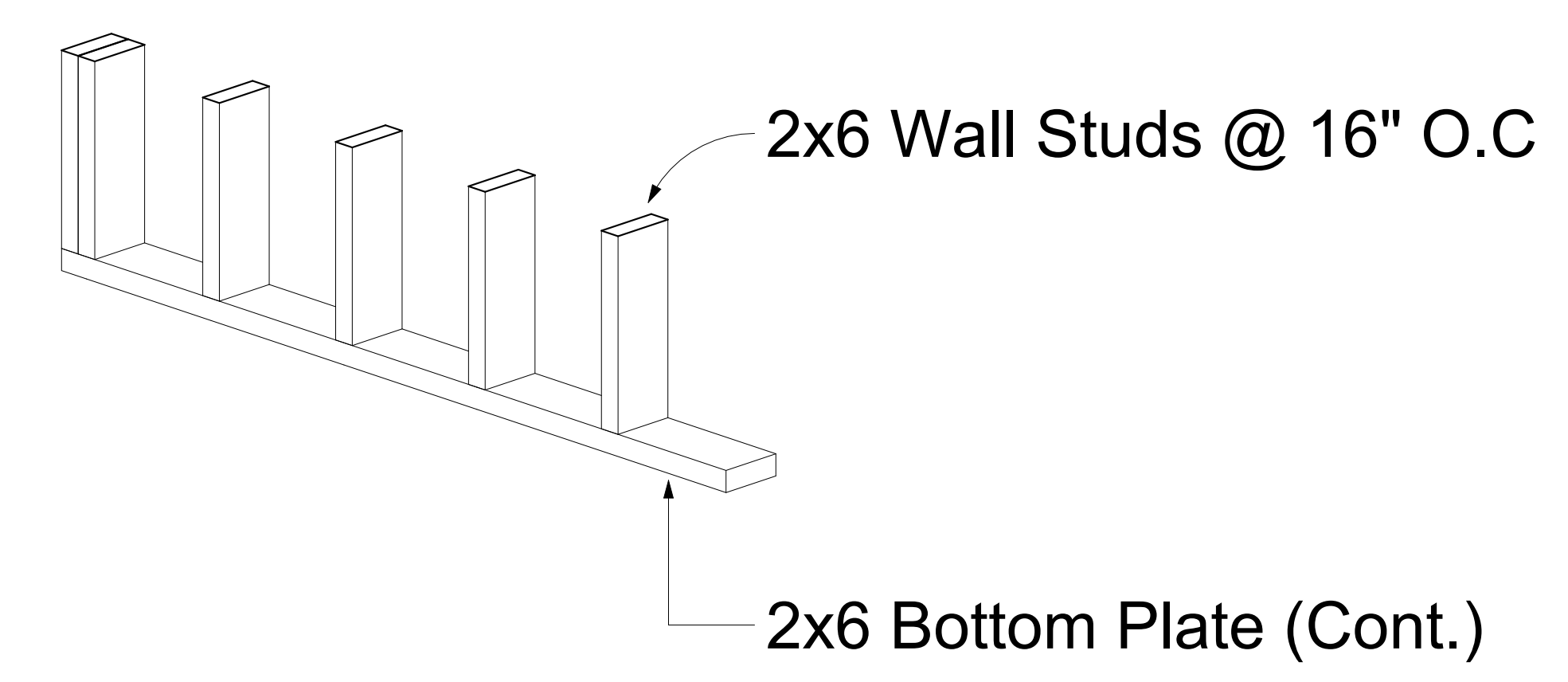
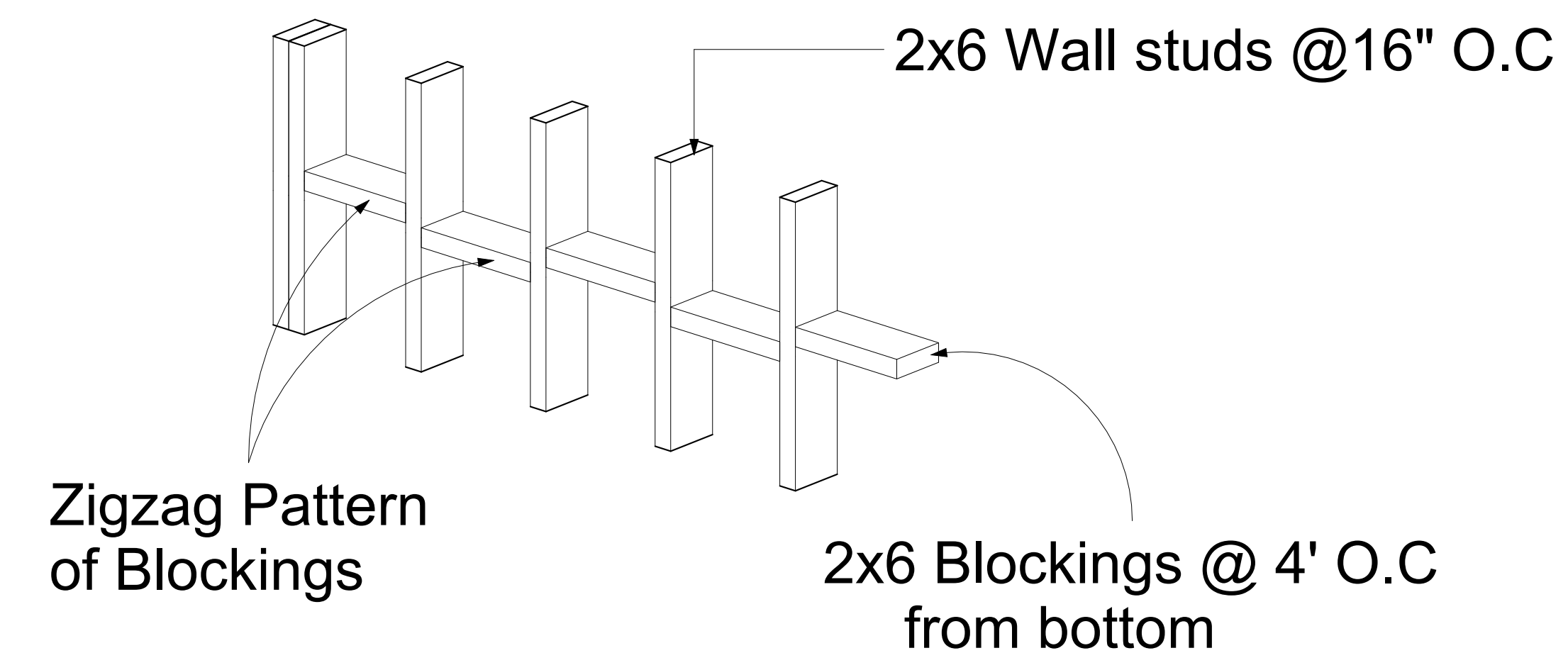
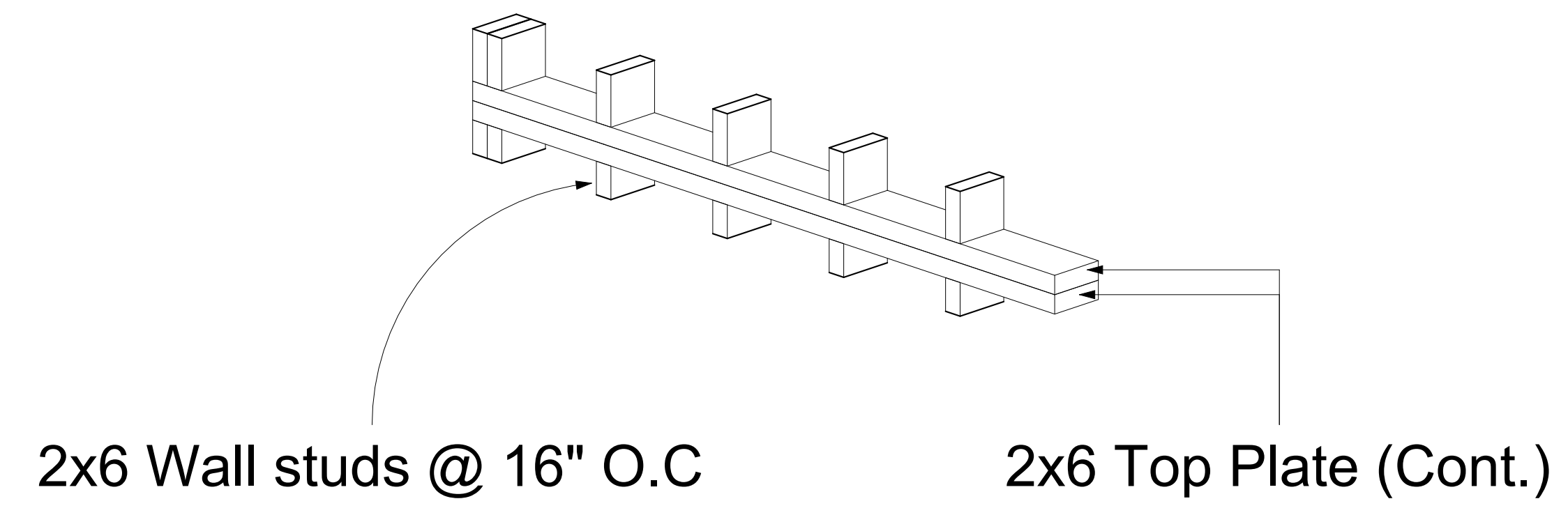
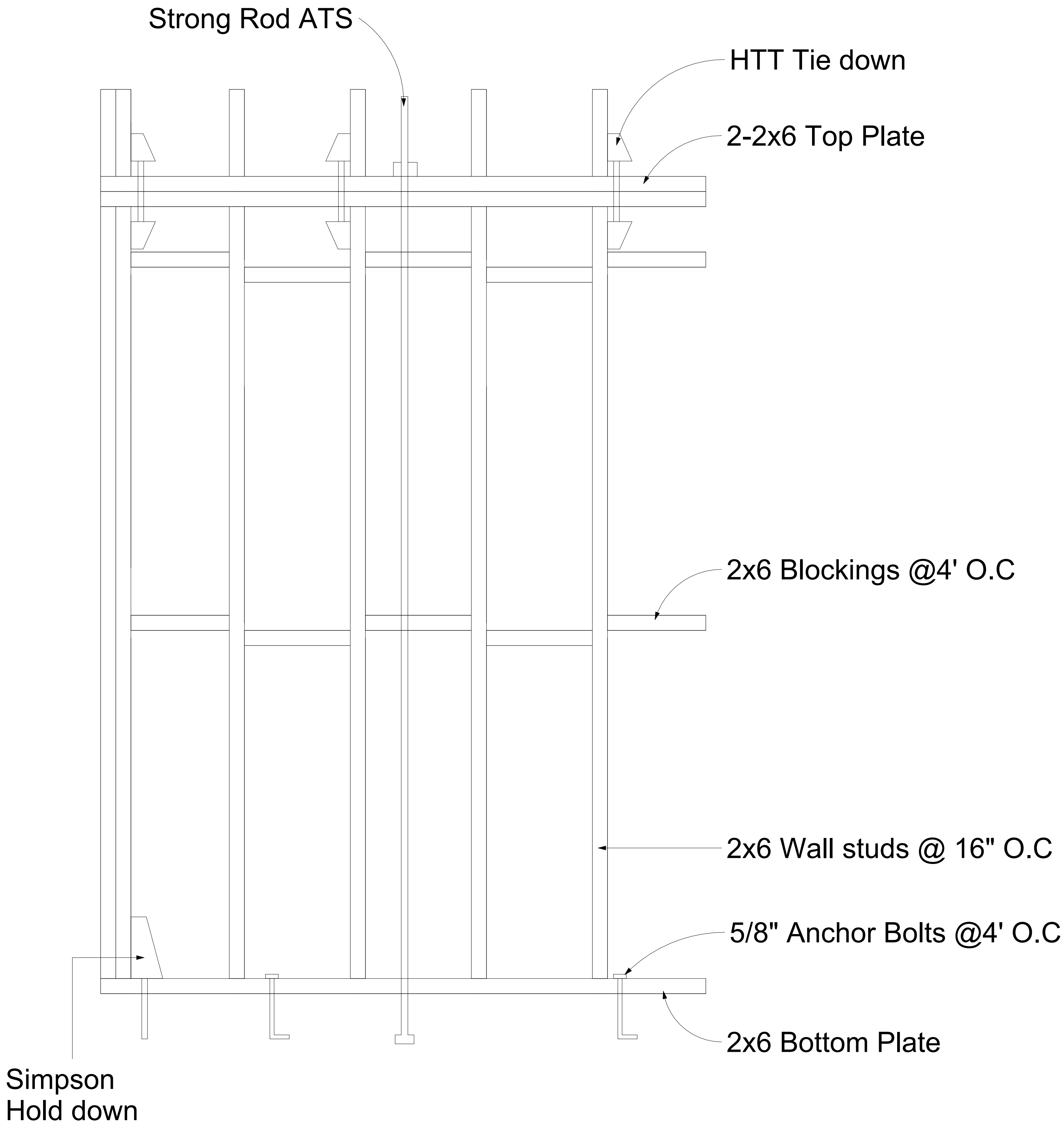
DRAWING NAME

Proposed Foundation

Project number	S-1107
Date	04/11/2024
Drawn by	Abdullah
Checked by	SAIF

S103

Scale	As indicated
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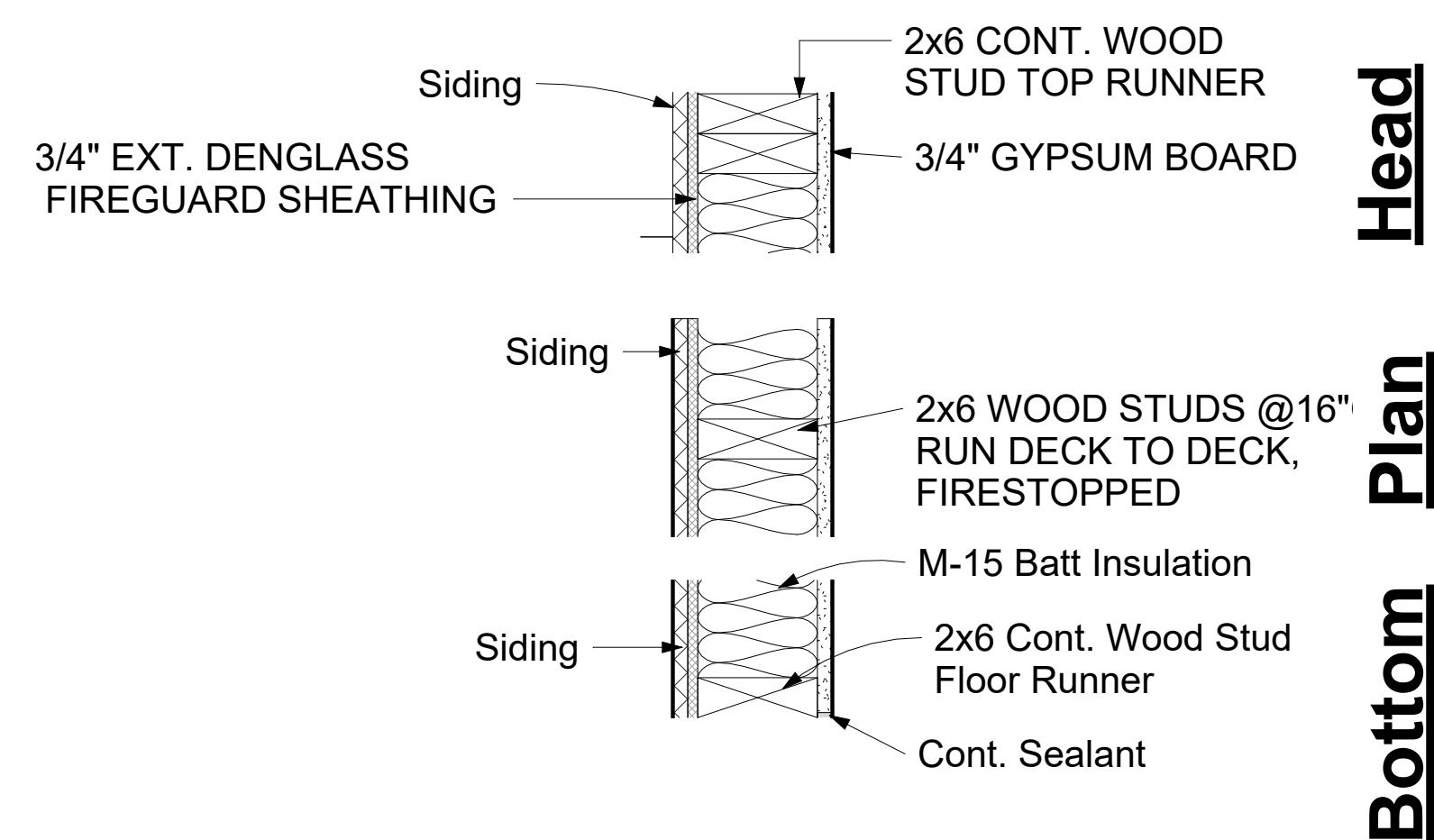
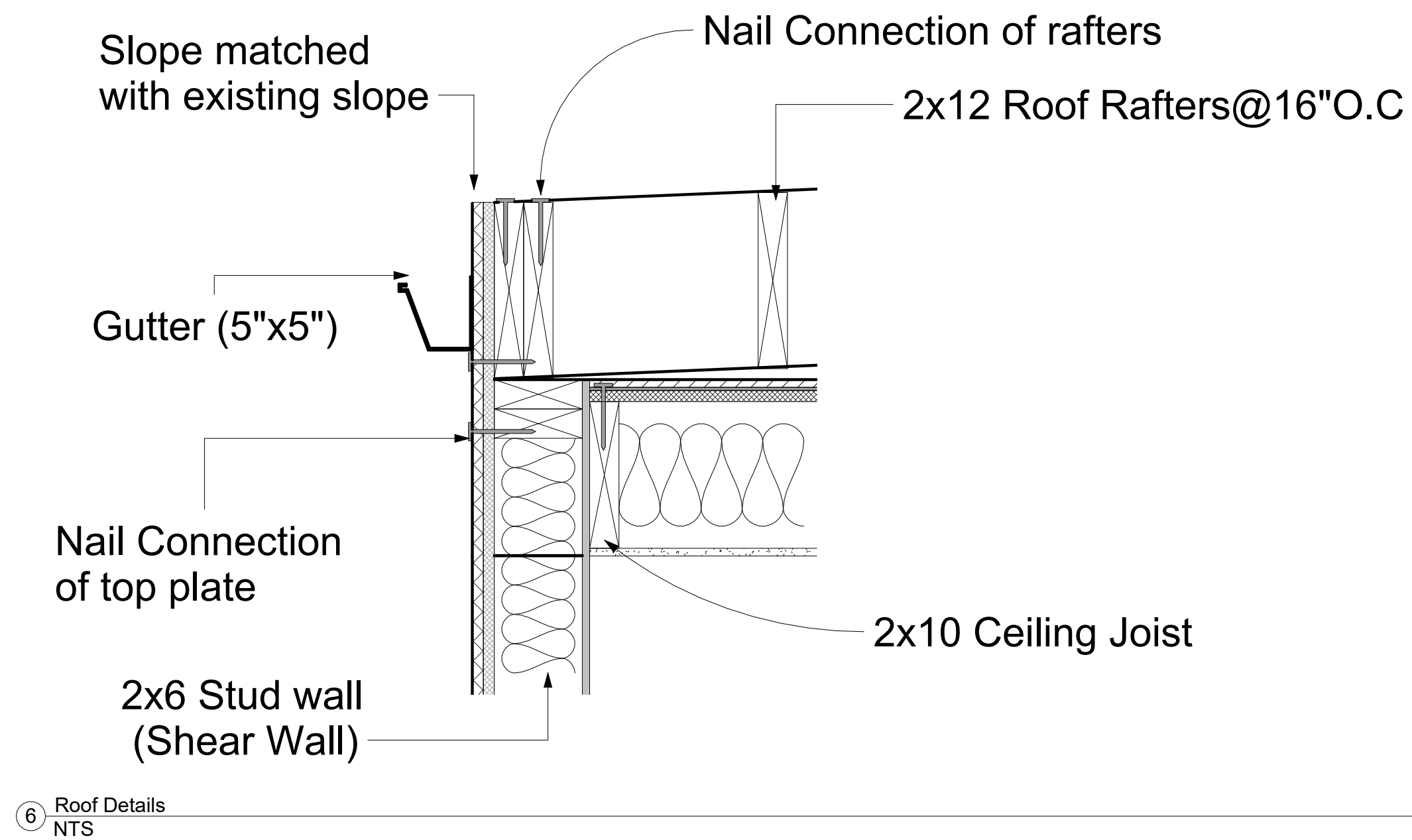
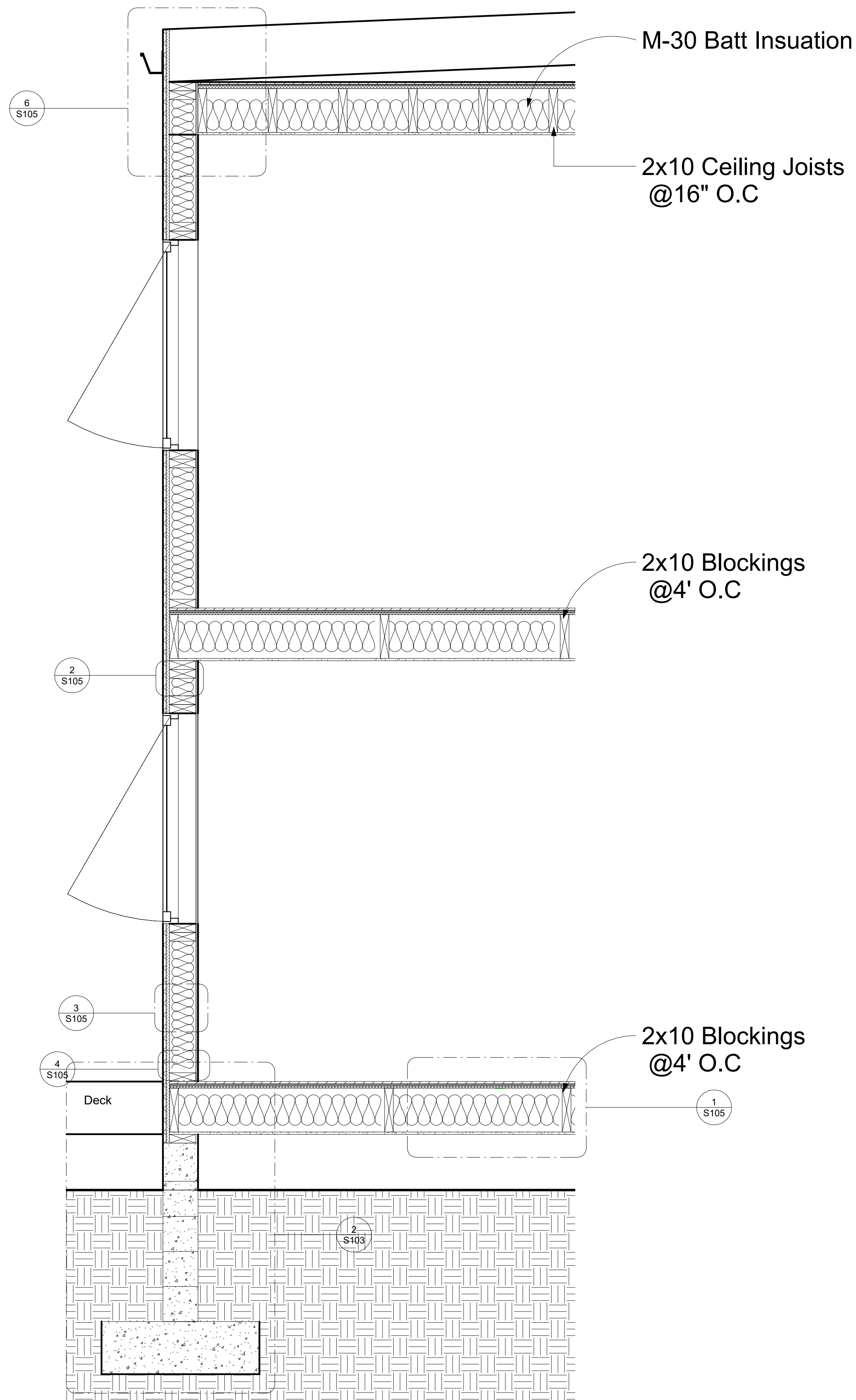
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REAR HOUSE EXTENSION

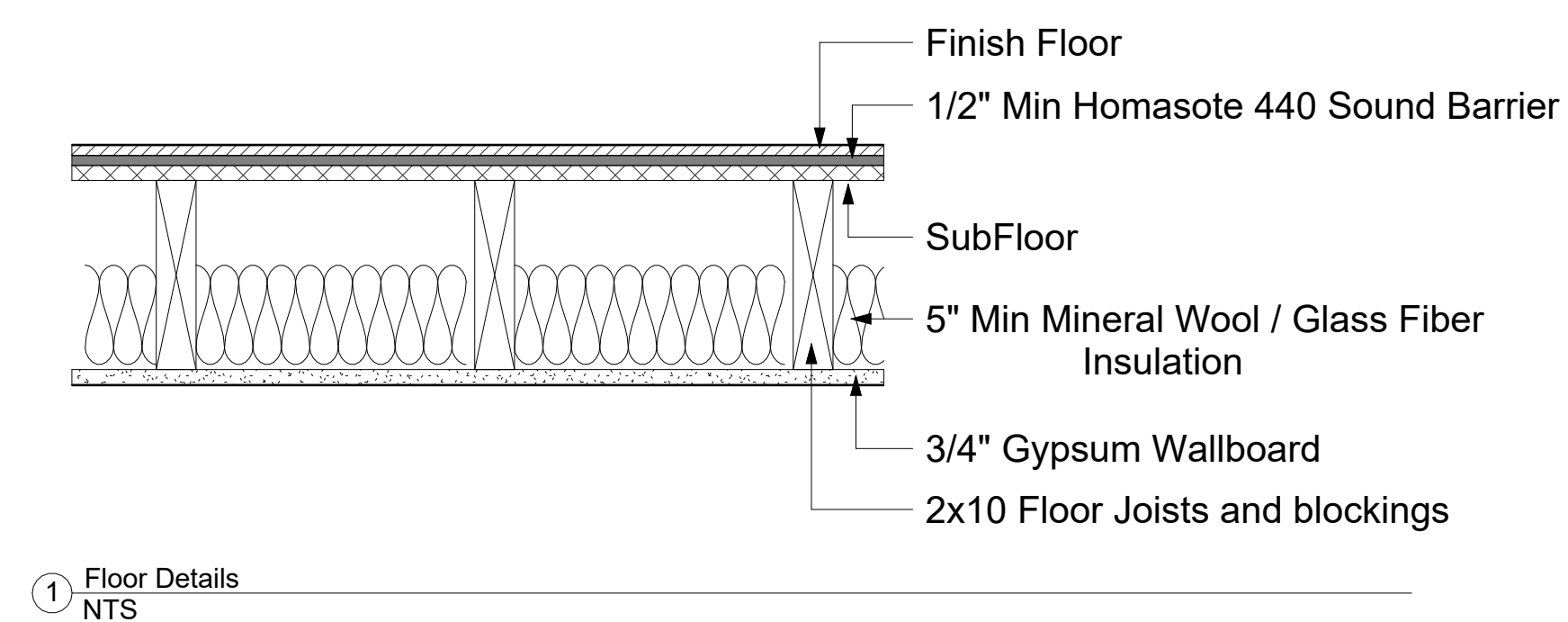
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ALL UNITS IN FEET AND INCHES
UNLESS OTHER WISE SPECIFIED

DRAWING NAME	
Wall Framing	
Project number	S-1107
Date	04/11/2024
Drawn by	Abdullah
Checked by	SAIF
S104	
Scale	



Wall Deatils



CLIENT

REAR HOUSE EXTENSION

NOTES:

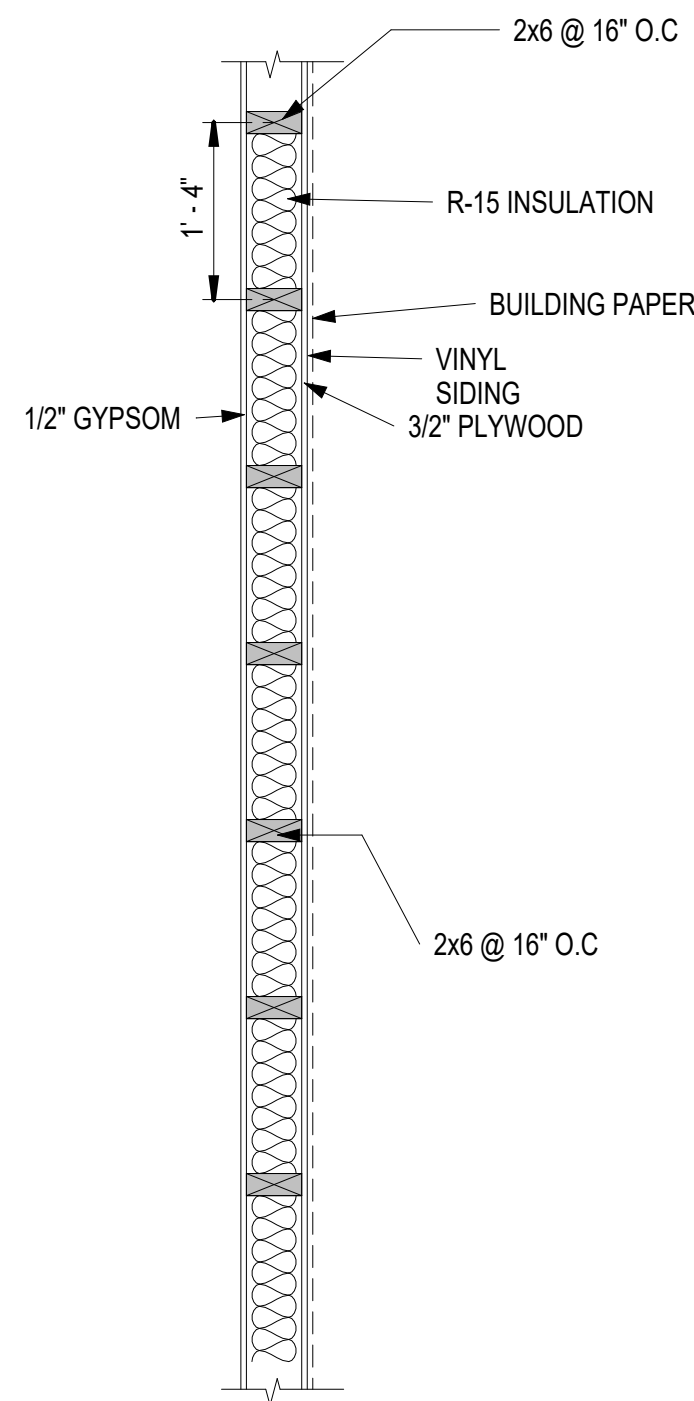
ALL UNITS IN FEET AND INCHES
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DRAWING NAME
SECTIONAL Details

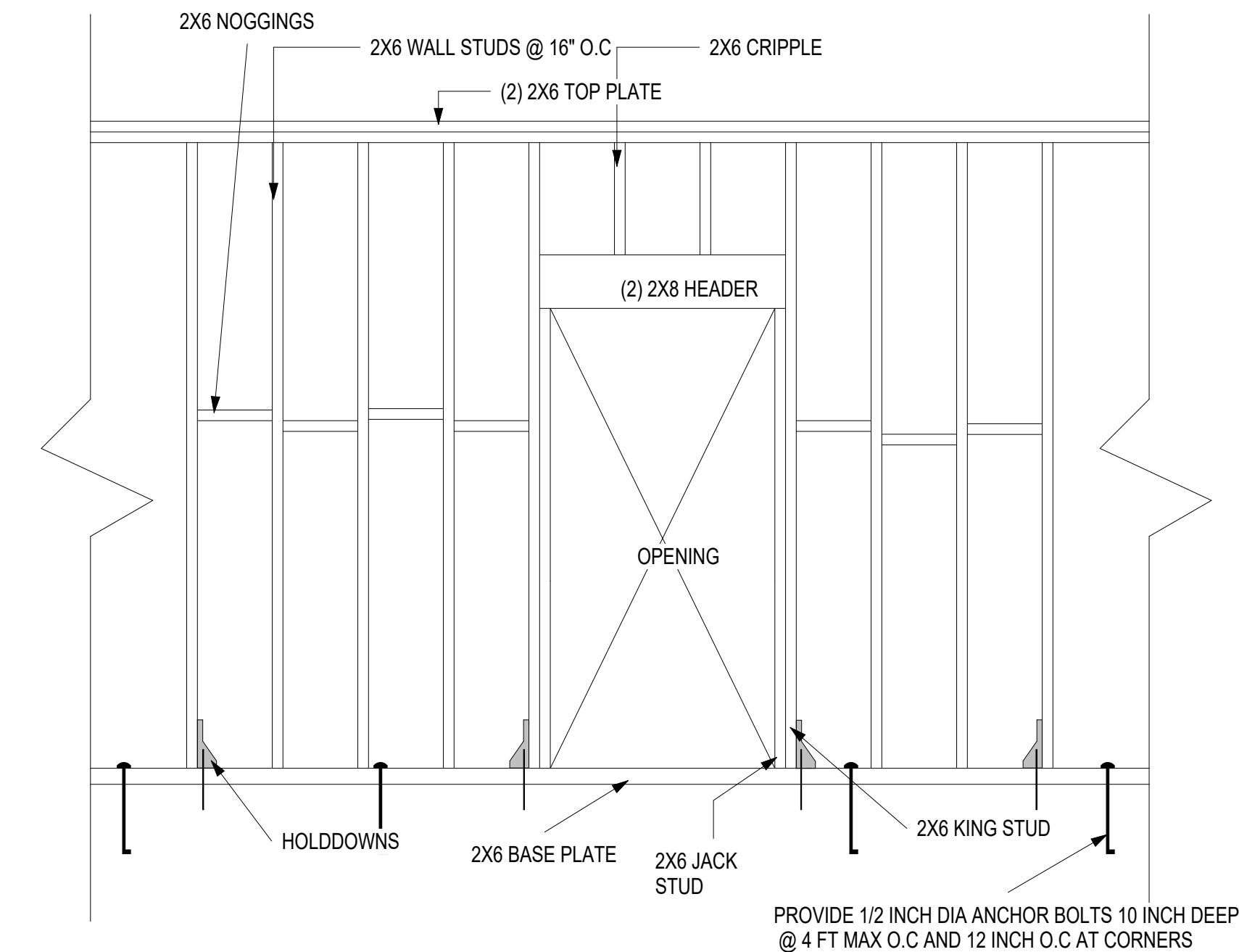
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Date	04/11/2024
Drawn by	Abdullah
Checked by	SAIF

S105

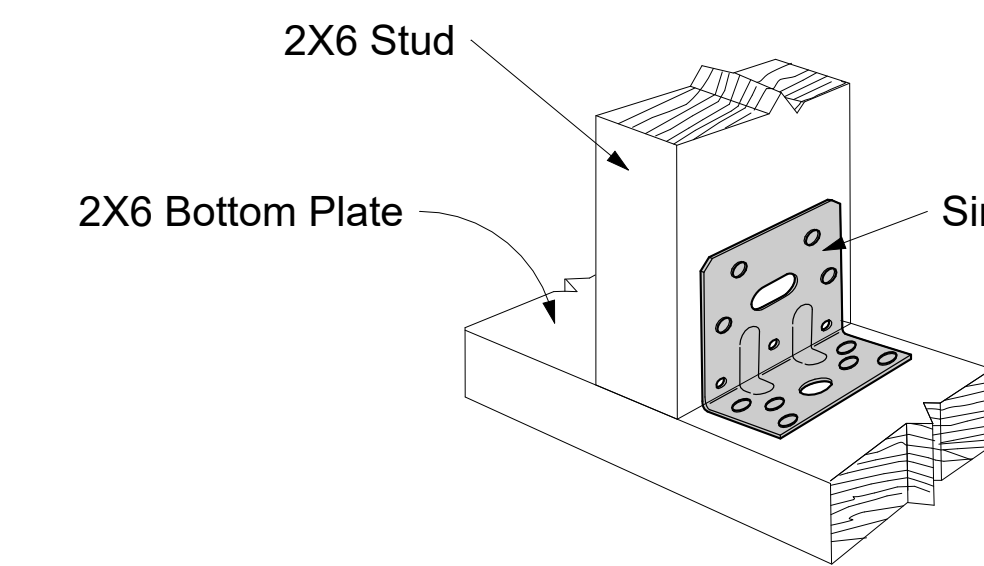
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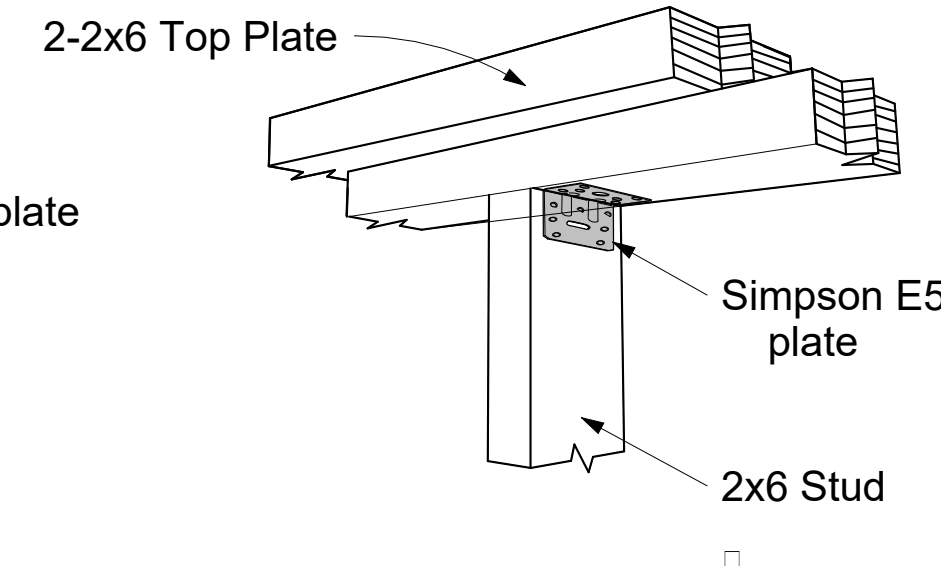
1 EXT. STUD WALL DETAILS
NTS



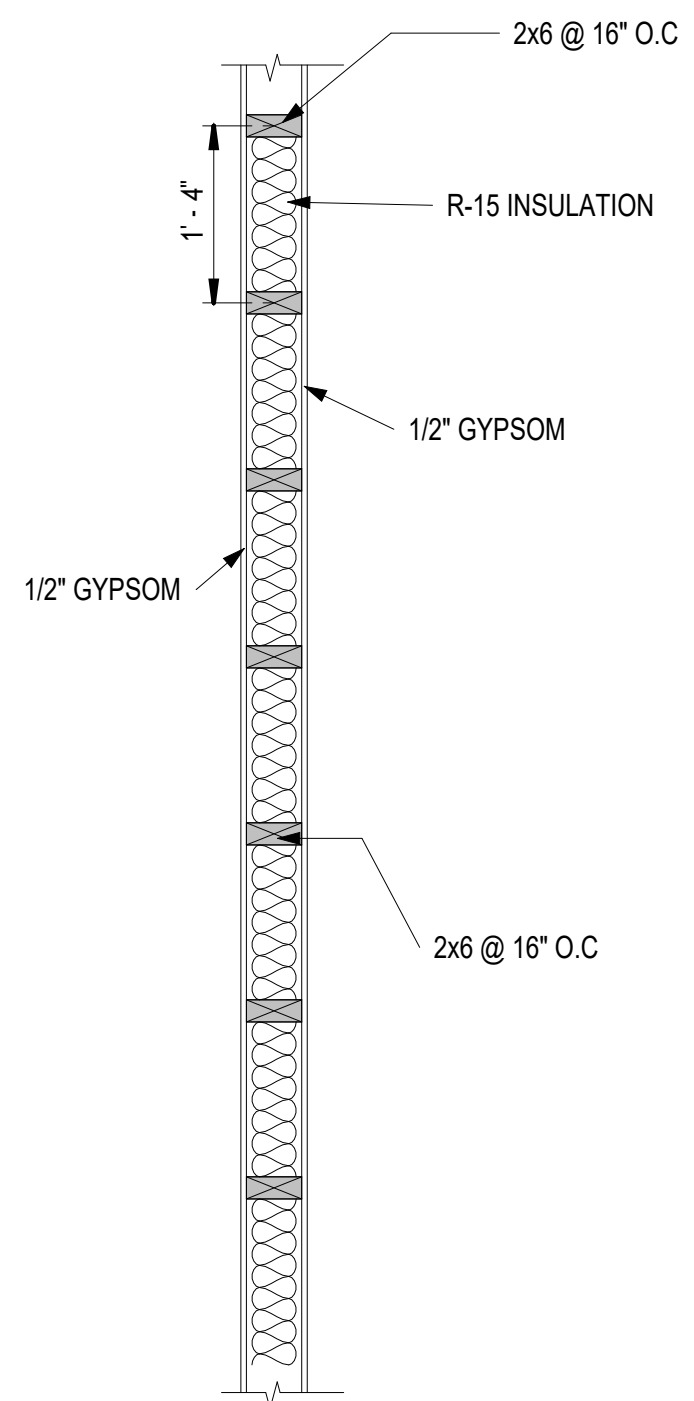
3 WALL OPENING DETAILS
NTS



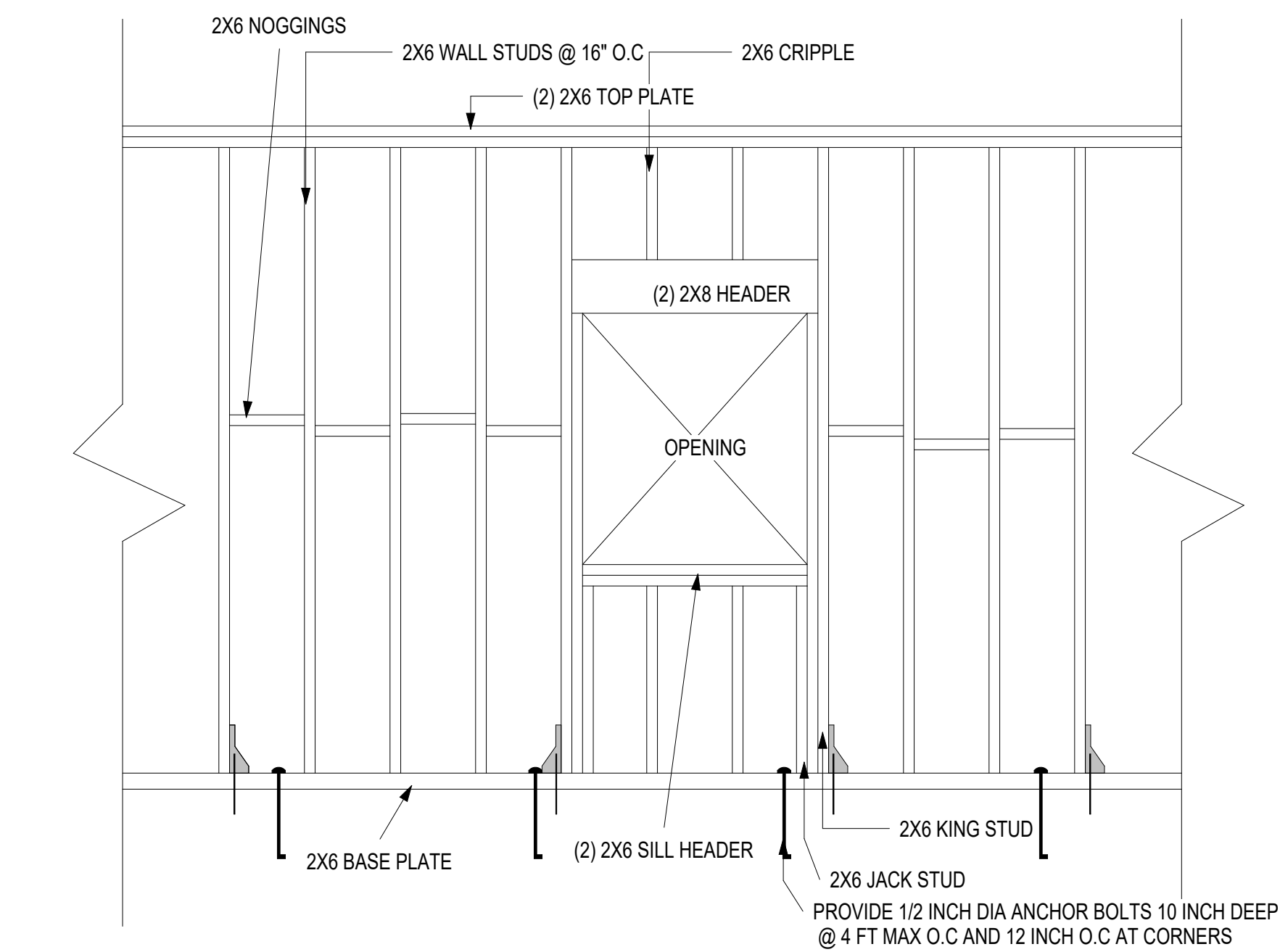
7 STUD-BOTTOM PLAT CONNECTION
NTS



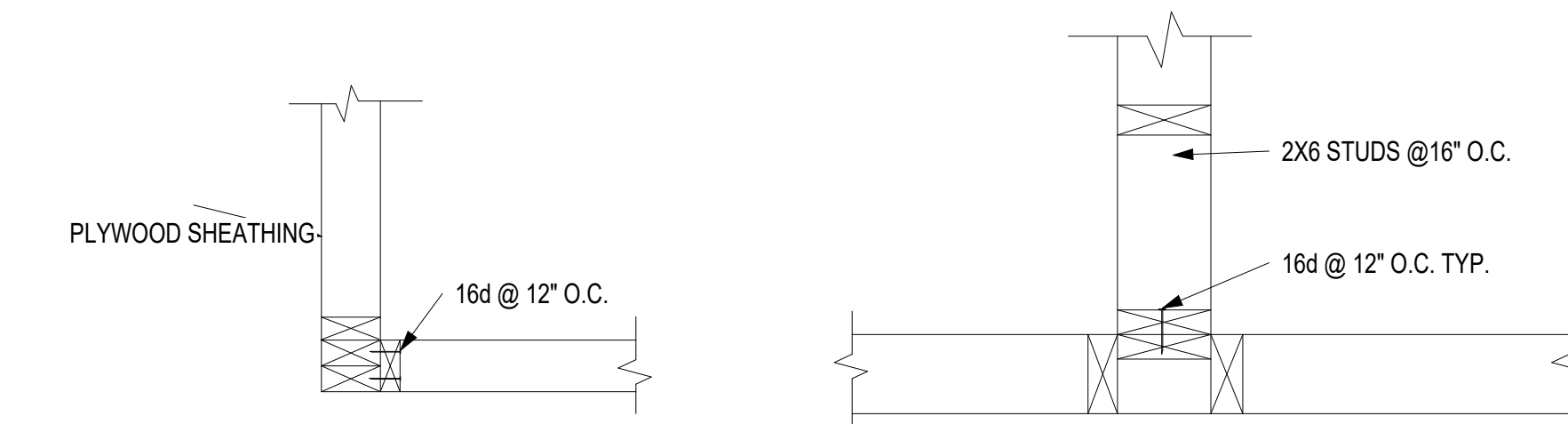
8 STUD-TOP PLATE CONNECTION
NTS



2 INT. STUD WALL DETAILS
NTS



4 WALL OPENING DETAILS (X2)
NTS



5 WALL CORNER DETAILS
NTS

CLIENT

REAR HOUSE EXTENSION

NOTES:

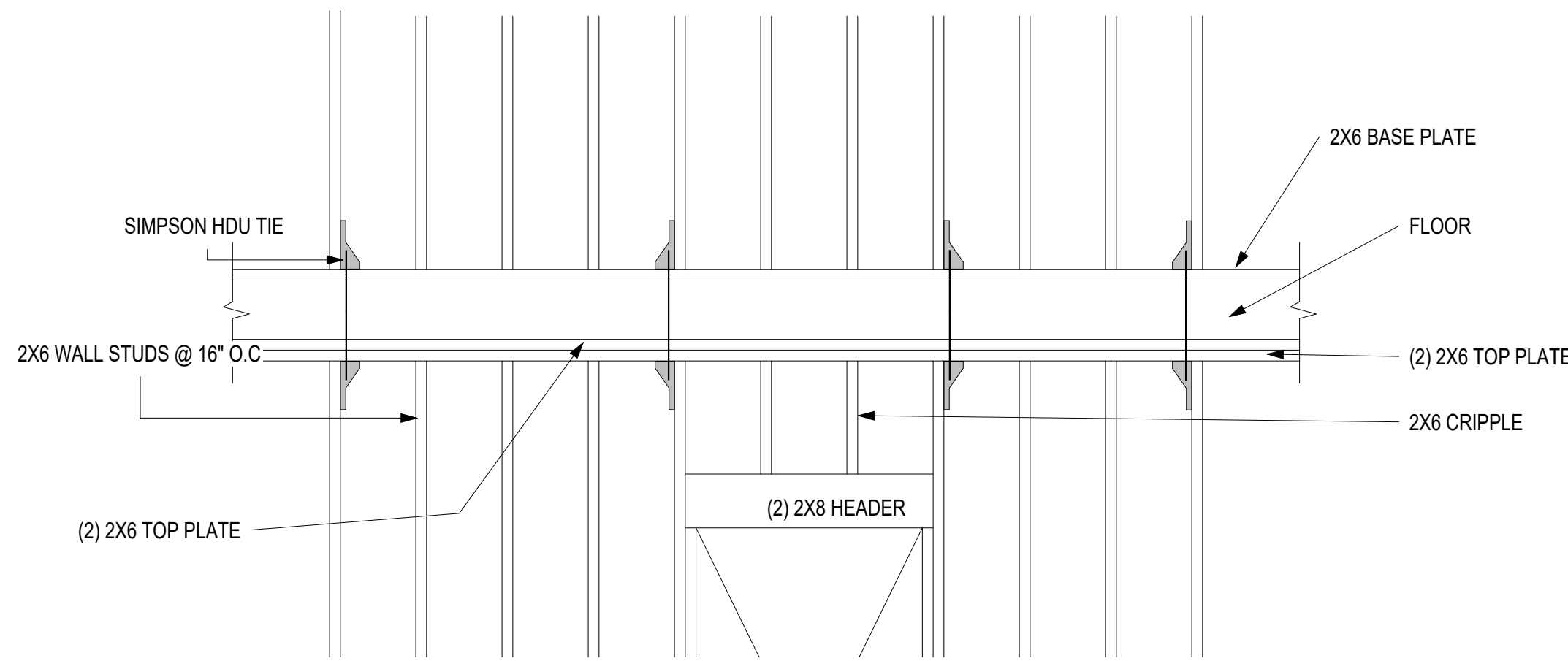
ALL UNITS IN FEET AND INCHES
UNLESS OTHER WISE SPECIFIED

DRAWING NAME WALL DETAILS

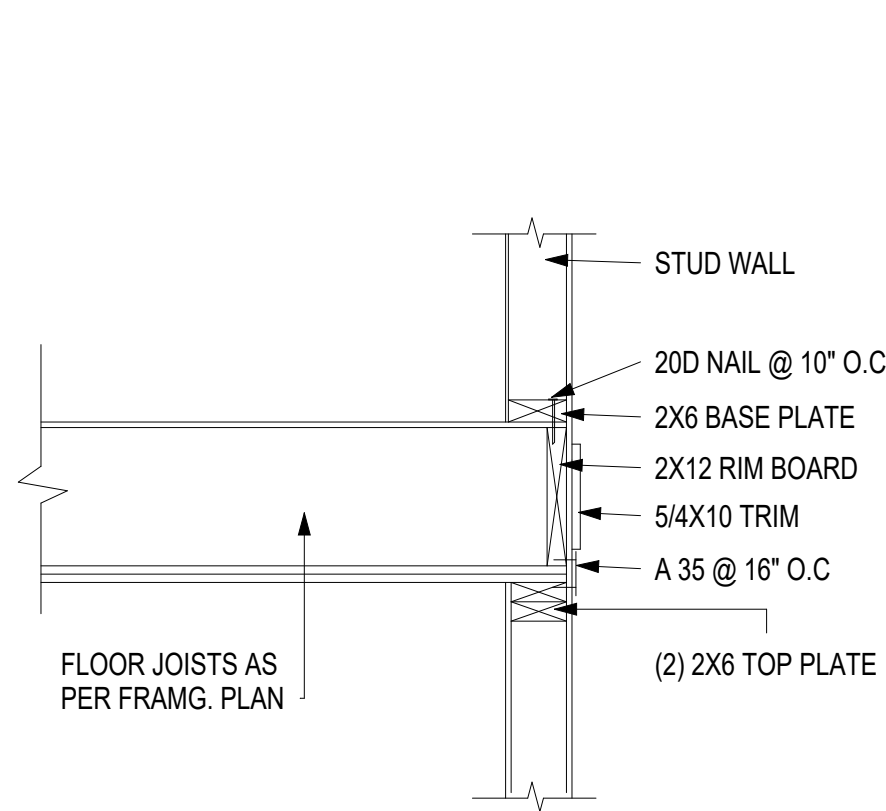
Project number	S-1107
Date	04/11/2024
Drawn by	Abdullah
Checked by	SAIF

S106

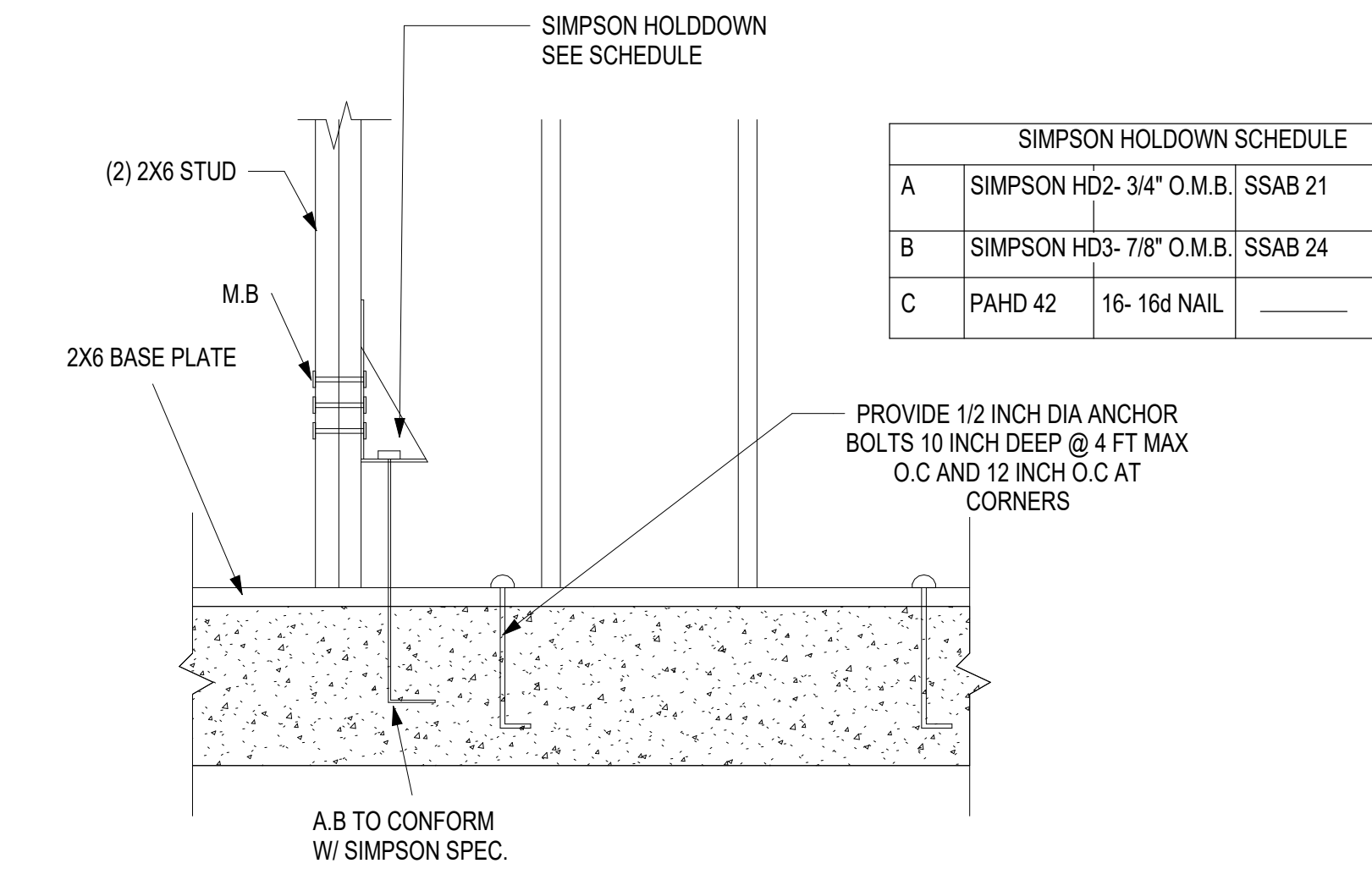
Scale	As indicated
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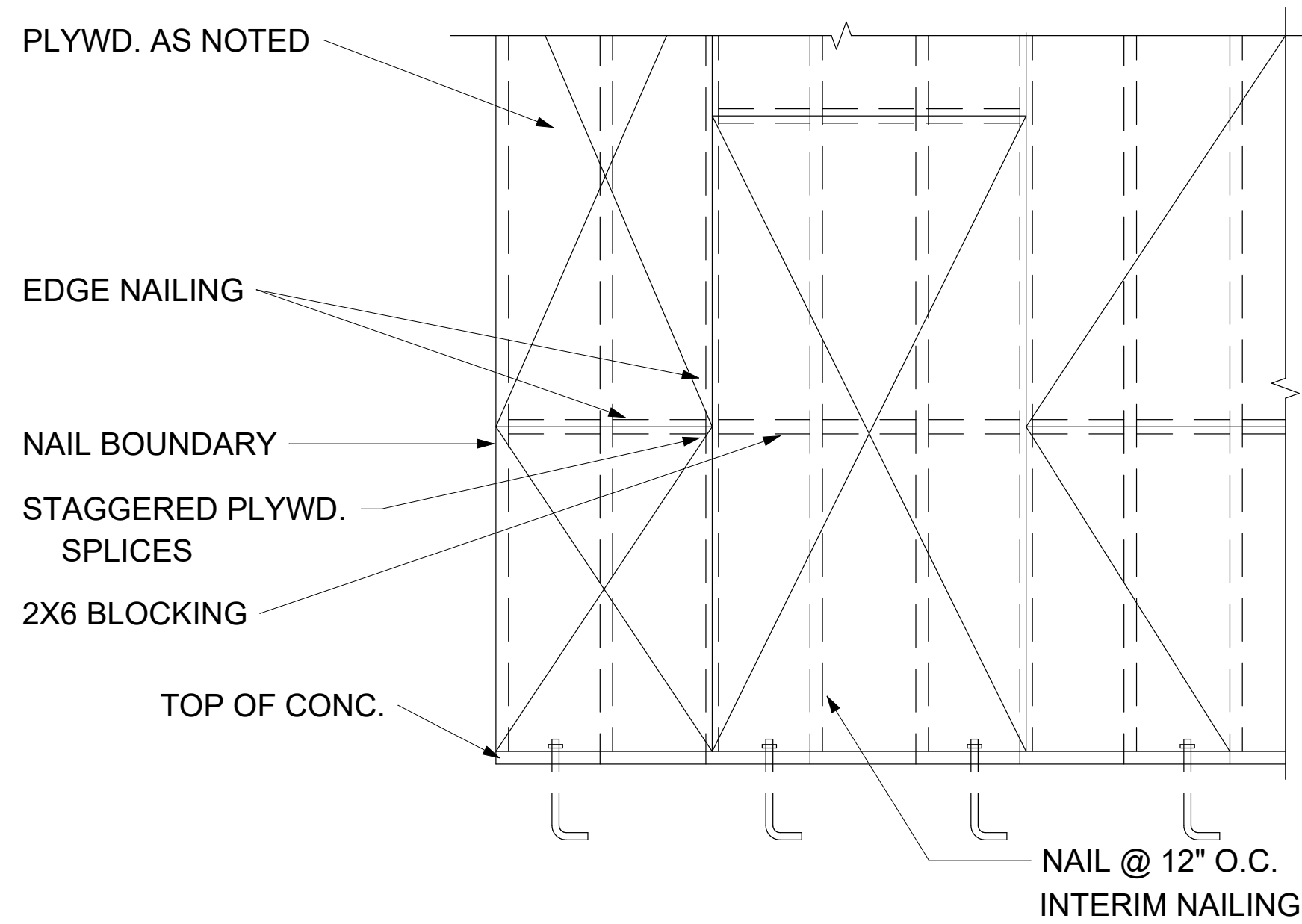
3 HOLDDOWN DETAILS (FLOORS)
NTS



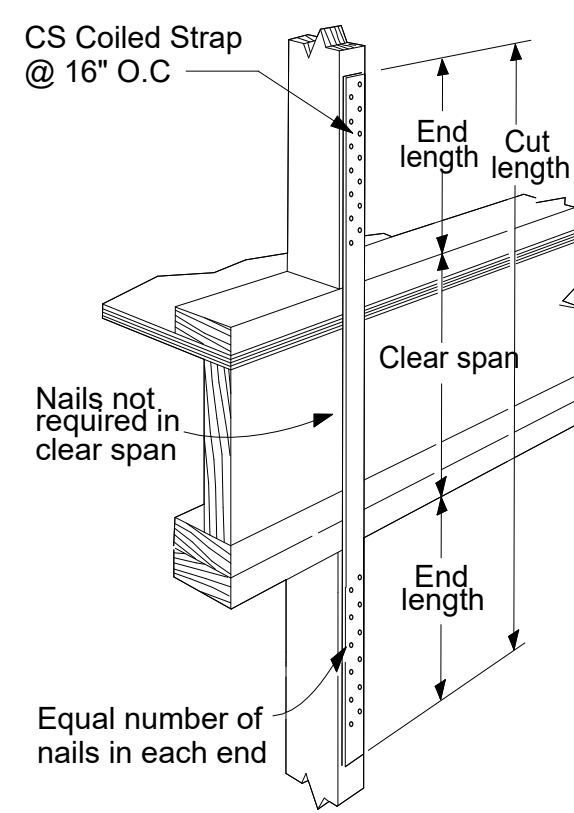
4 STUD WALL TO JOIST
NTS



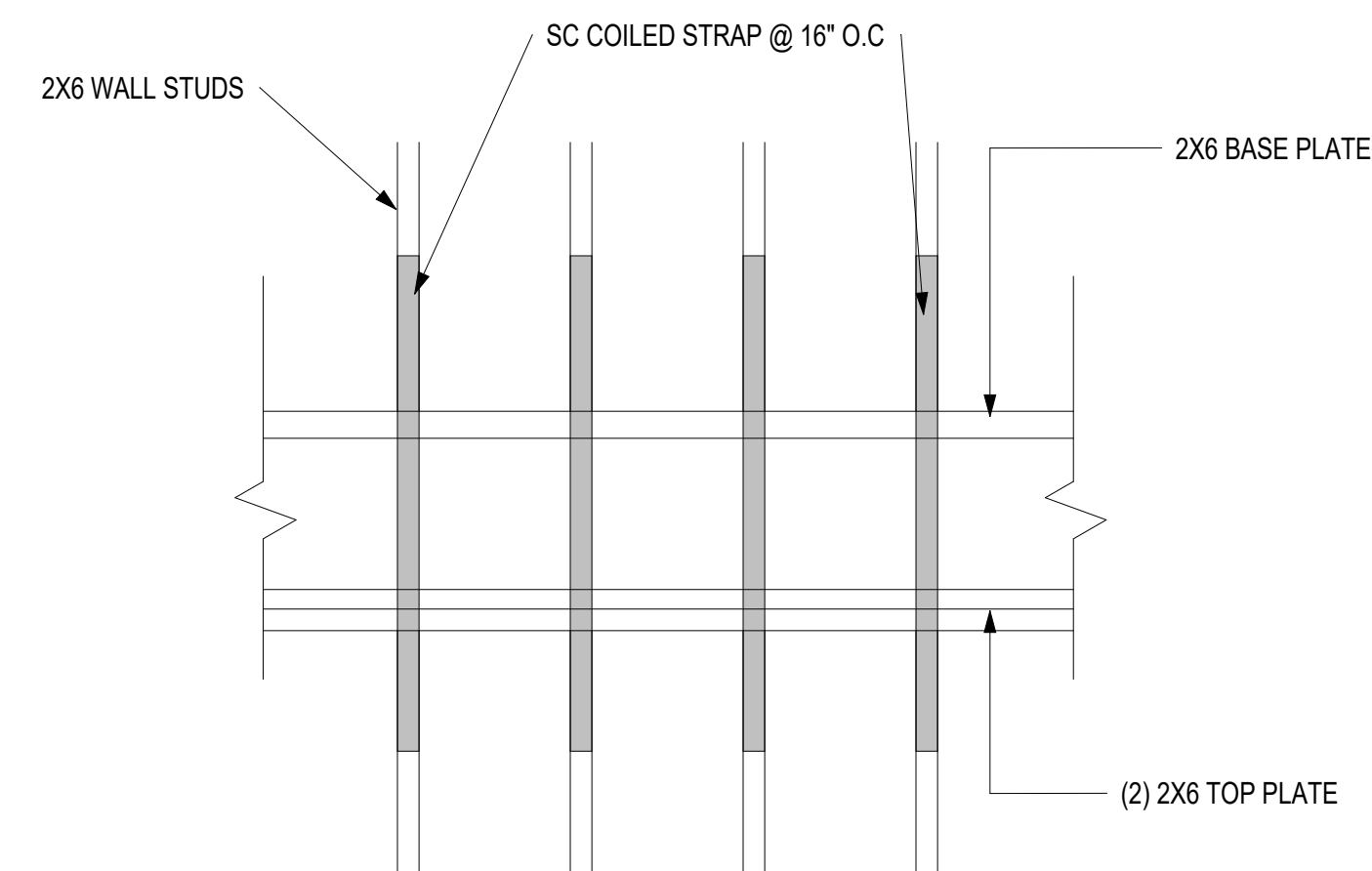
2 HOLD DOWN DETAILS (X2)
NTS



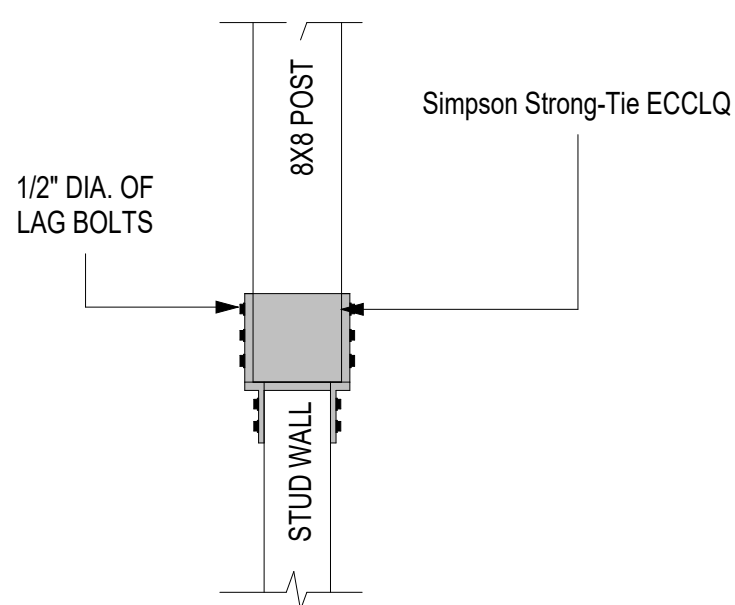
7 SHEATHING DETAILS
NTS



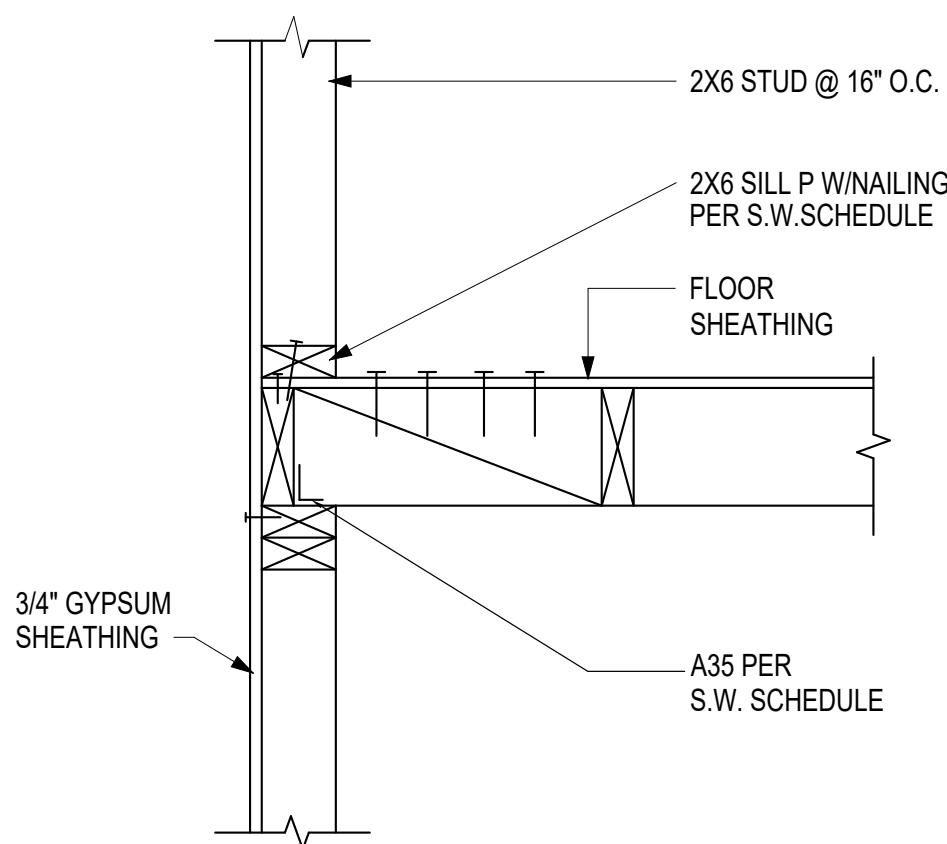
1 Floor-to-Floor Tie
NTS



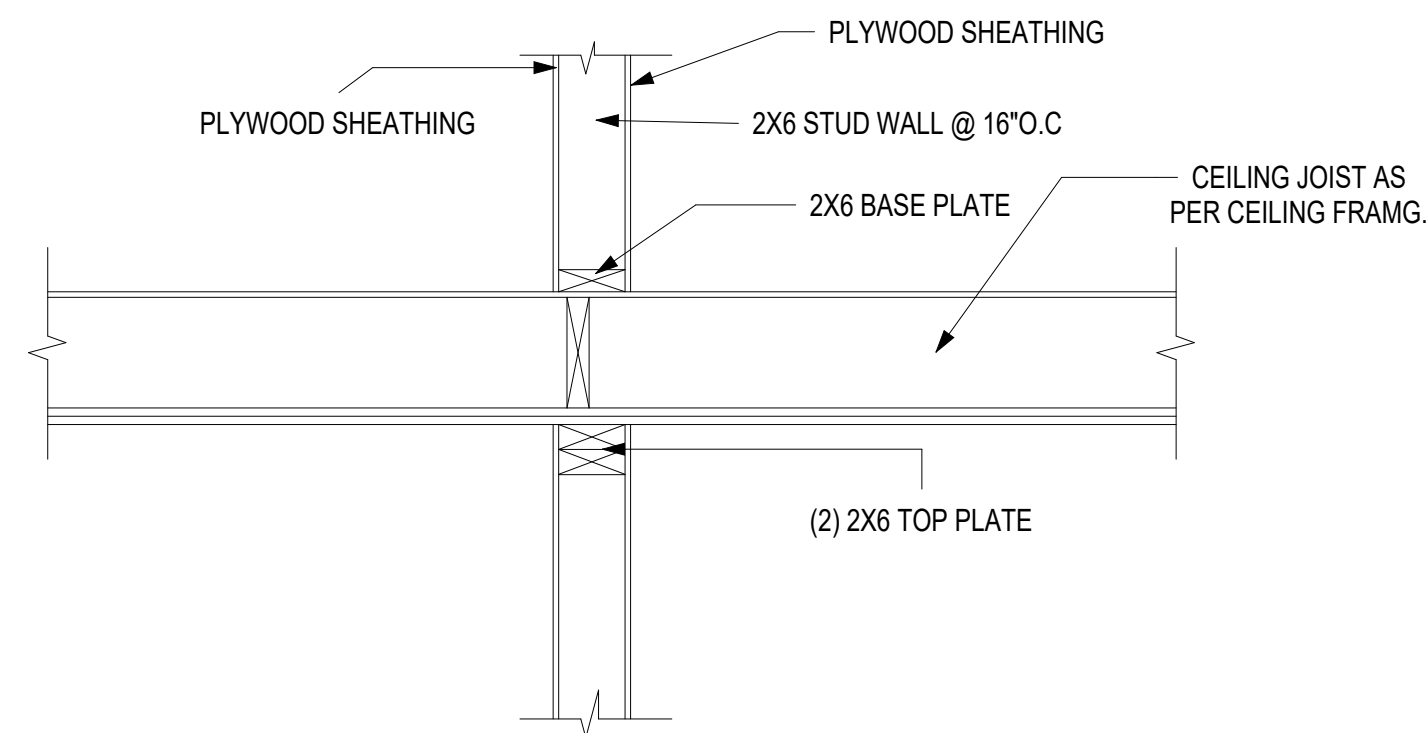
5 STRAP DETAILS
NTS



6 POST CONN
NTS



8 FLOOR TO WALL DETAILS CONN
NTS



9 DETAILED CONNECTION
NTS

CLIENT

REAR HOUSE EXTENSION

NOTES:

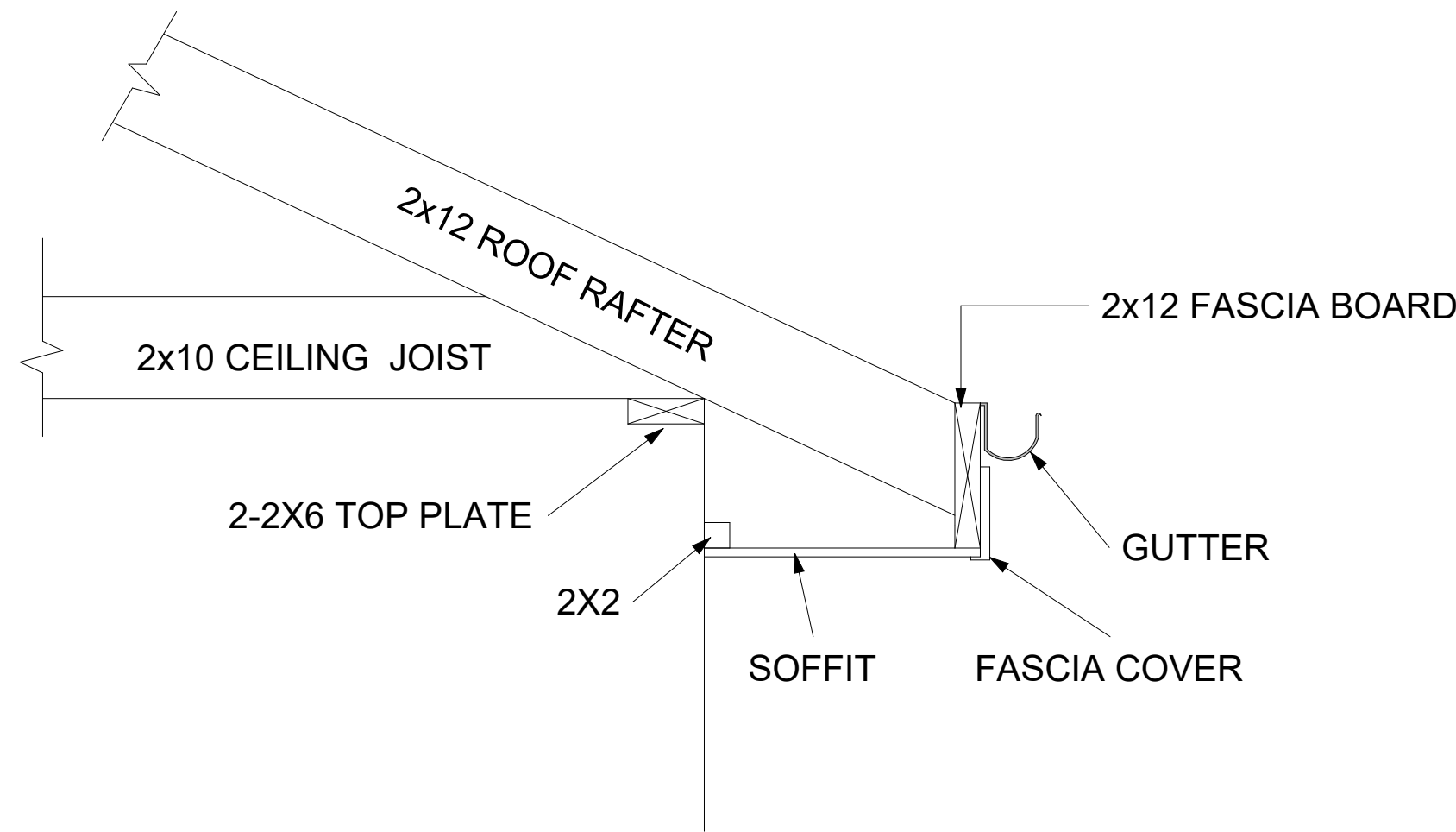
ALL UNITS IN FEET AND INCHES
UNLESS OTHER WISE SPECIFIED

DRAWING NAME CONNECTION DETAILS (x1)

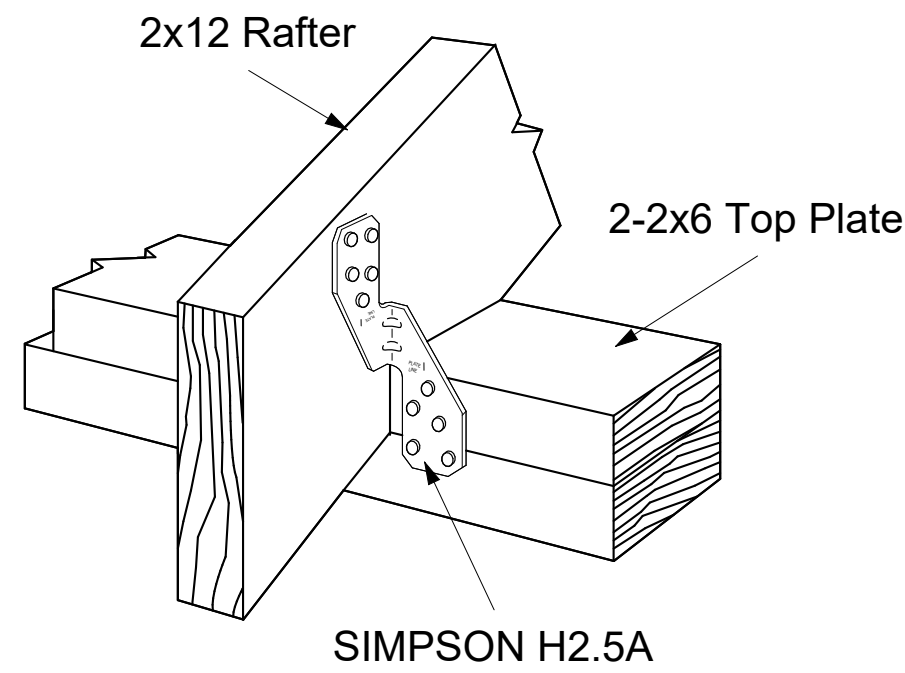
Project number S-1107
Date 04/11/2024
Drawn by Abdullah
Checked by SAIF

S107

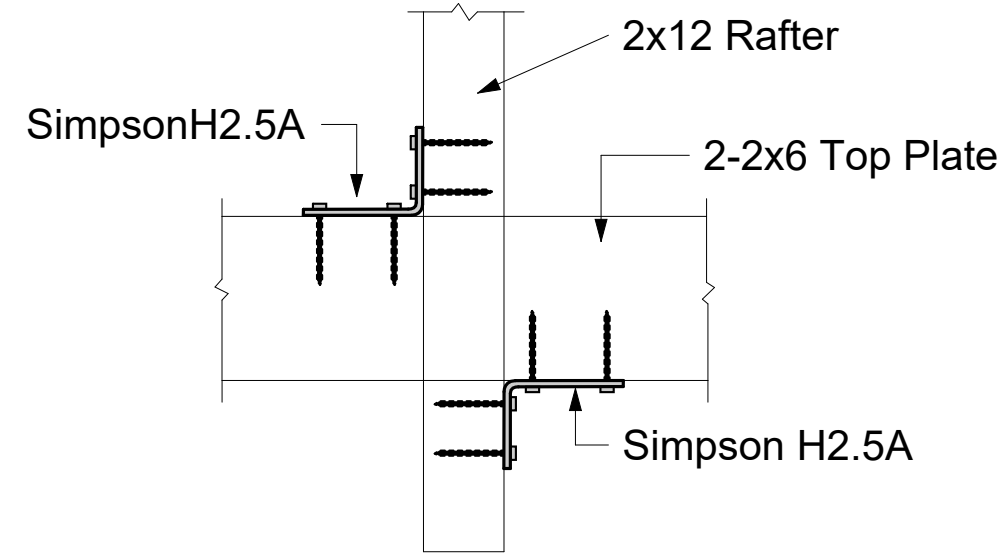
Scale As indicated



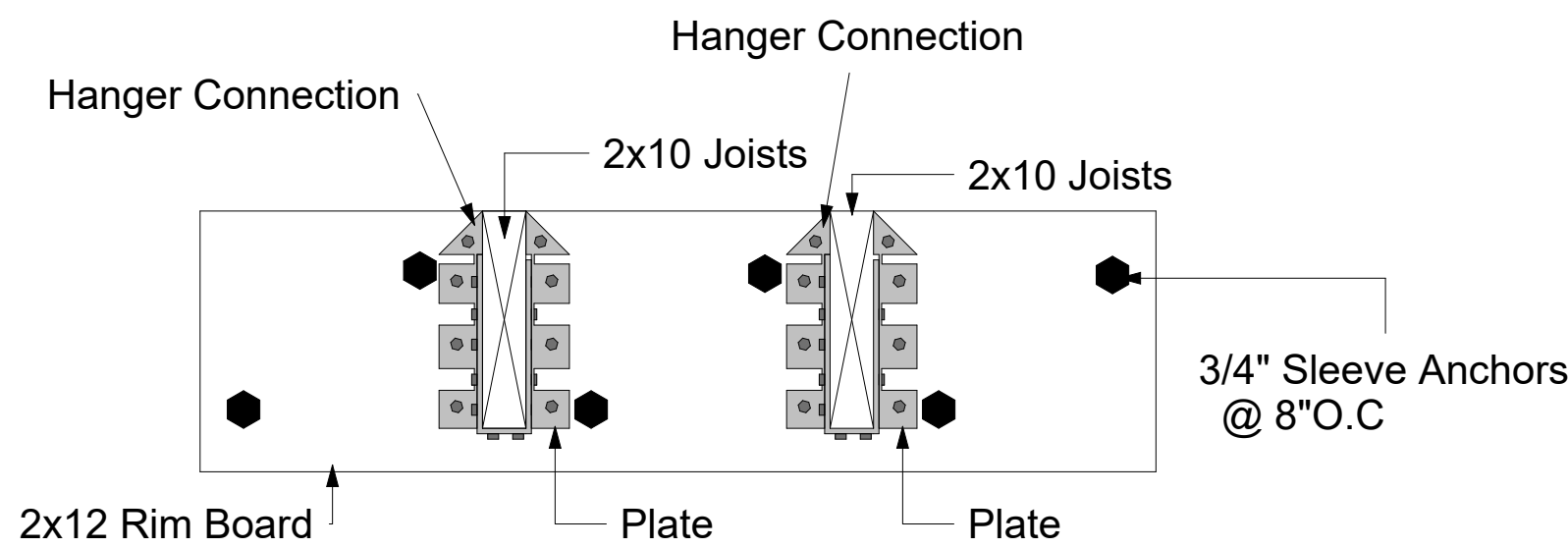
① FACIA DETAILS
NTS



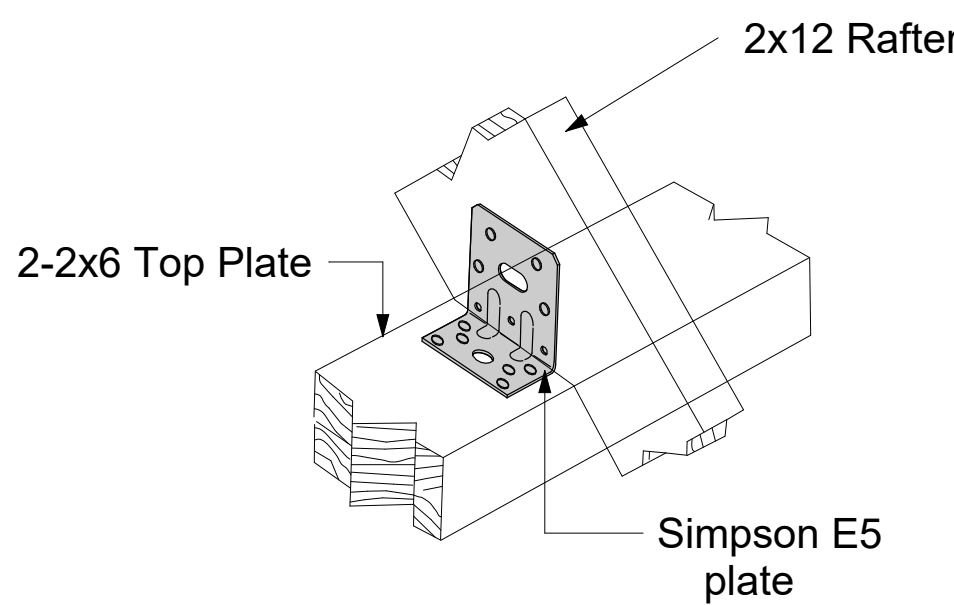
④ RAFTER-TOP PLATE CONNECTION
NTS



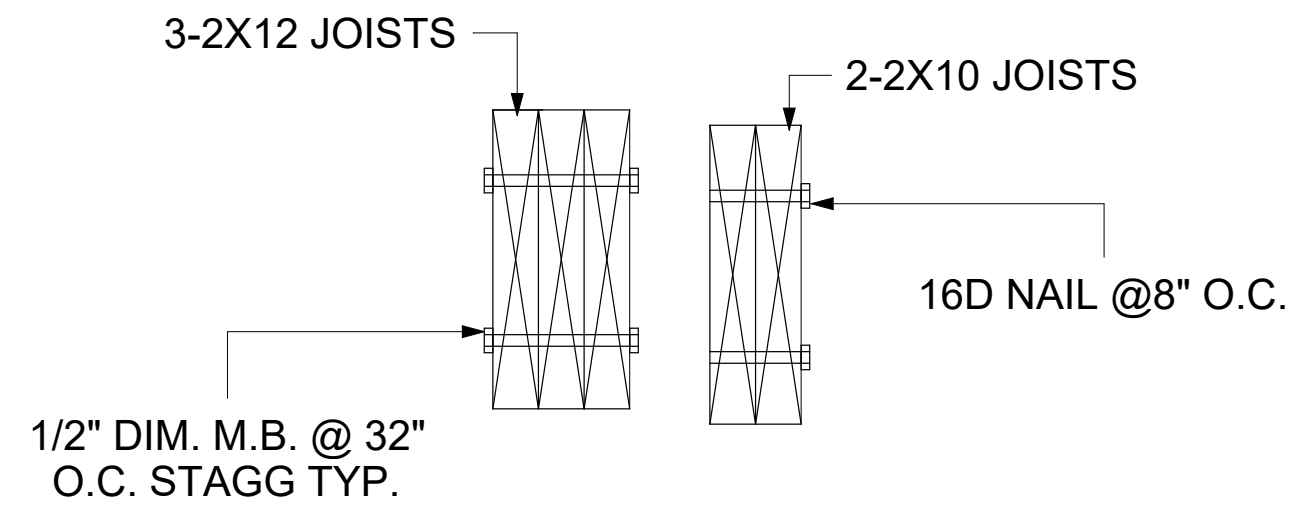
⑤ RAFTER-TOP PLATE TOP VIEW
NTS



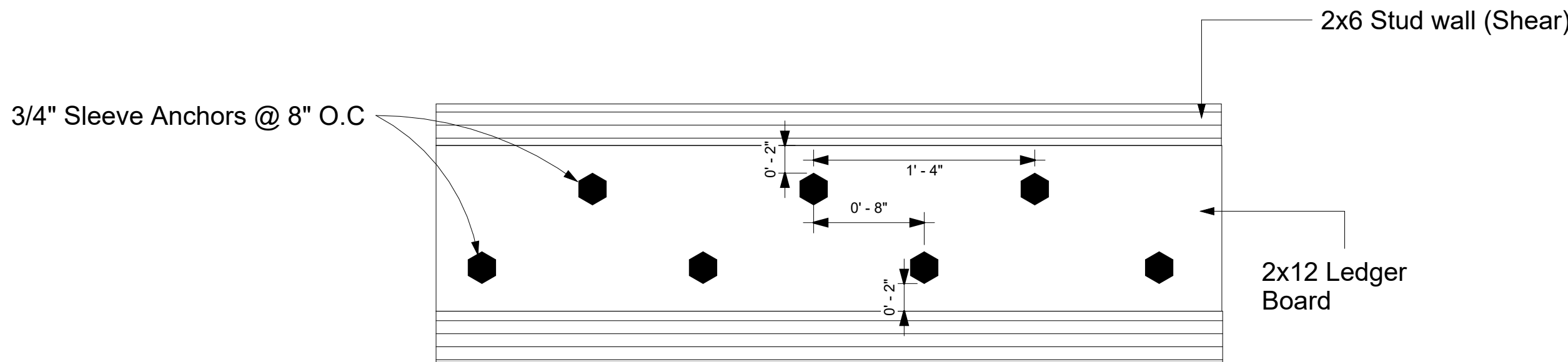
③ Joist Connection
NTS



⑥ Rafter-Top plate connection
NTS



⑦ TYP. LVL BEAM DETAILS
NTS



② Ledger Board Connections
NTS

CLIENT

REAR HOUSE EXTENSION

NOTES:

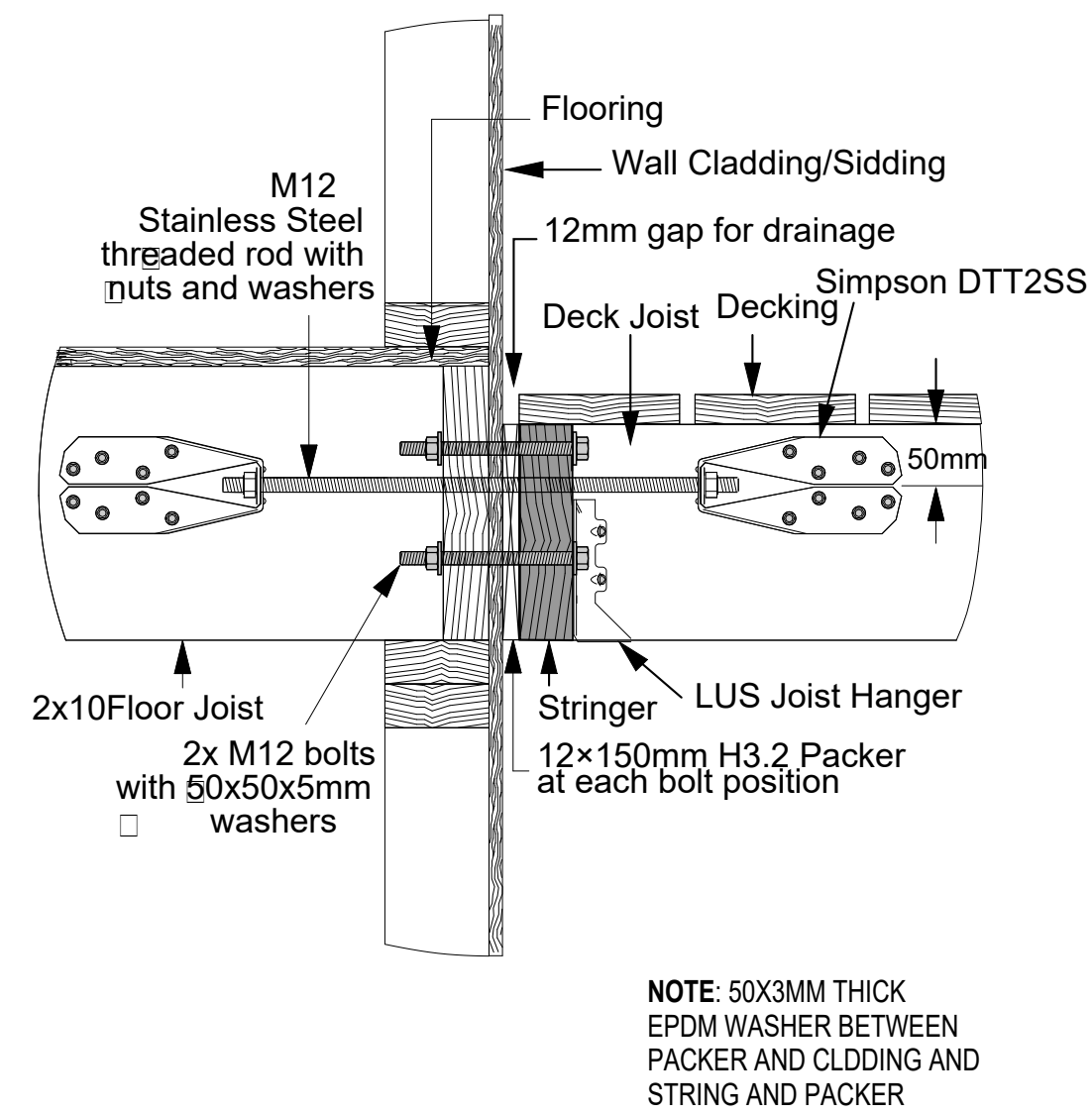
ALL UNITS IN FEET AND INCHES
UNLESS OTHER WISE SPECIFIED

DRAWING NAME
CONNECTION
DETAILS (x2)

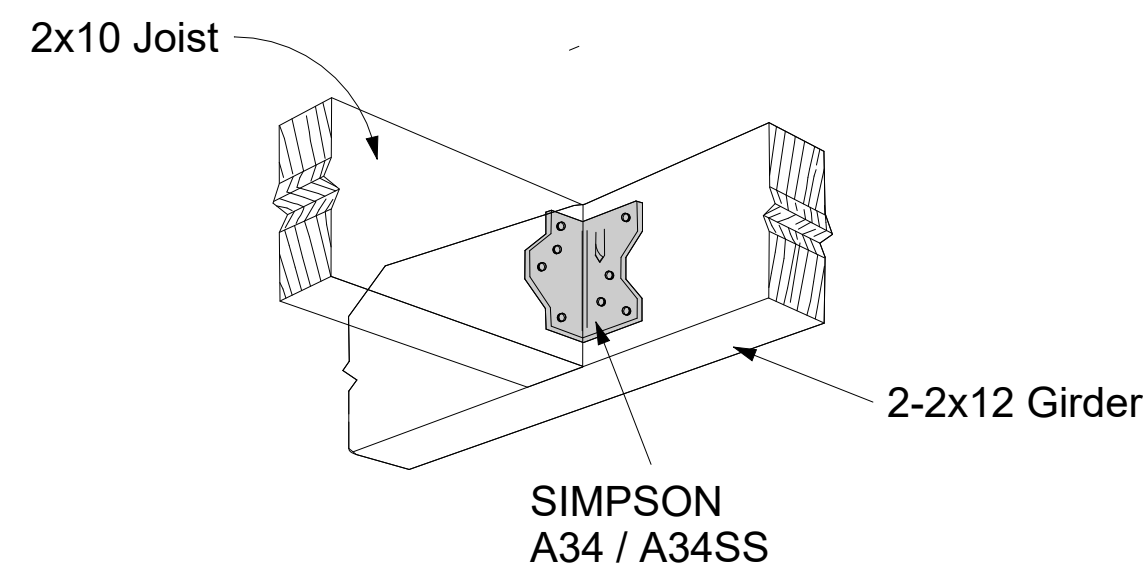
Project number S-1107
Date 04/11/2024
Drawn by Abdullah
Checked by SAIF

S108

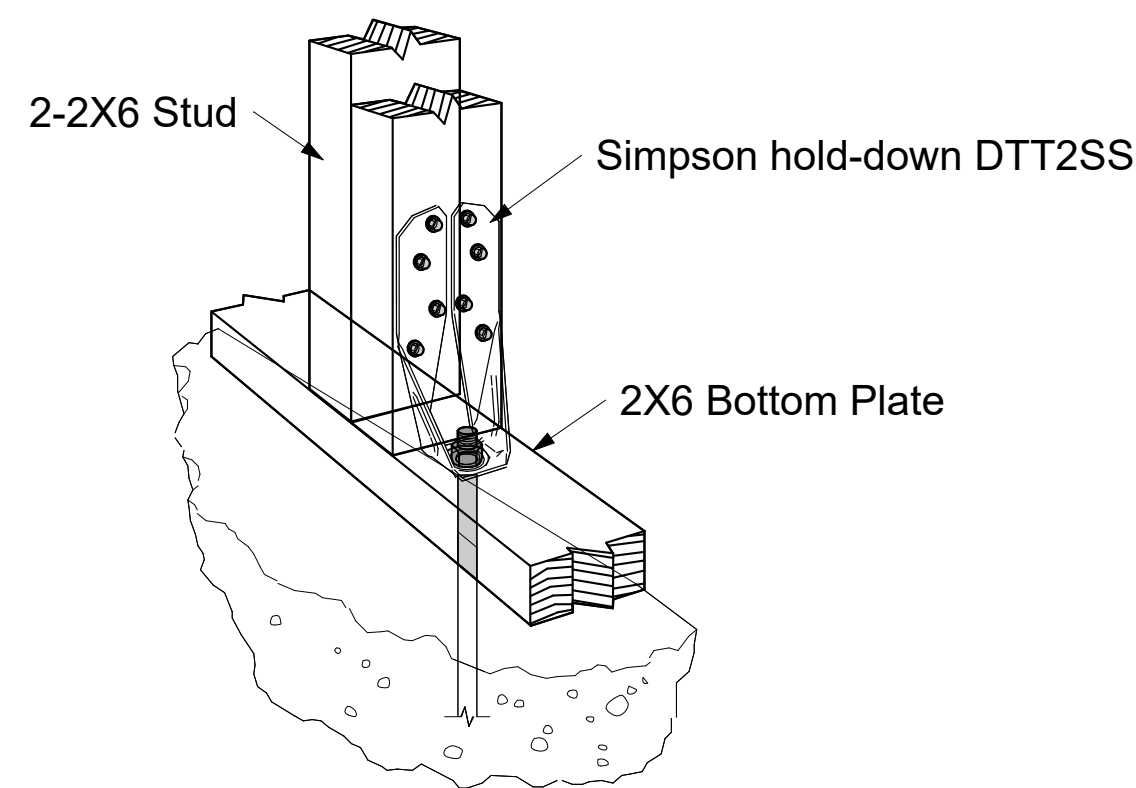
Scale As indicated



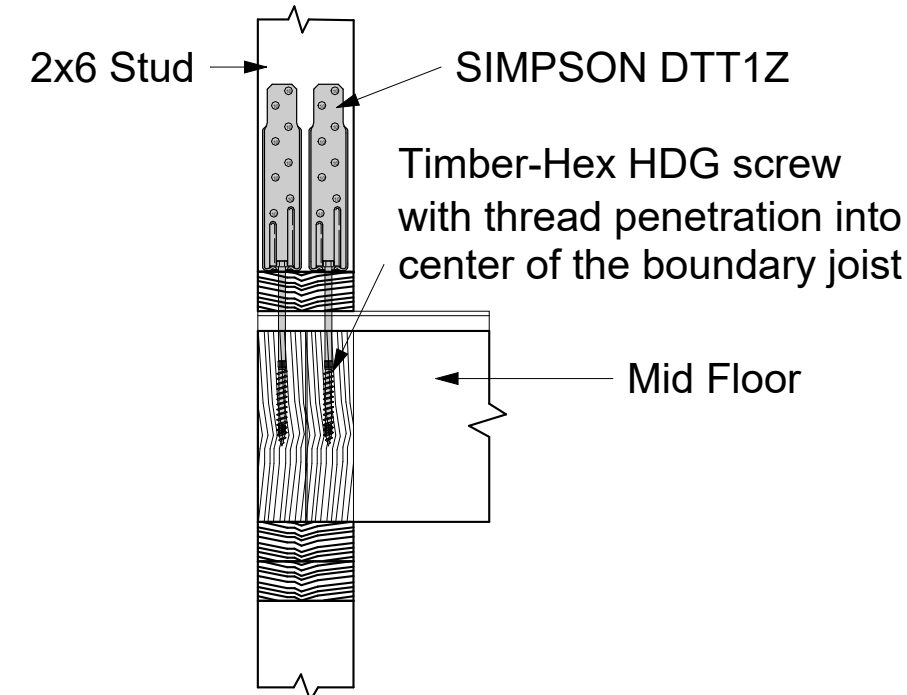
④ Deck-to-House Connection
NTS



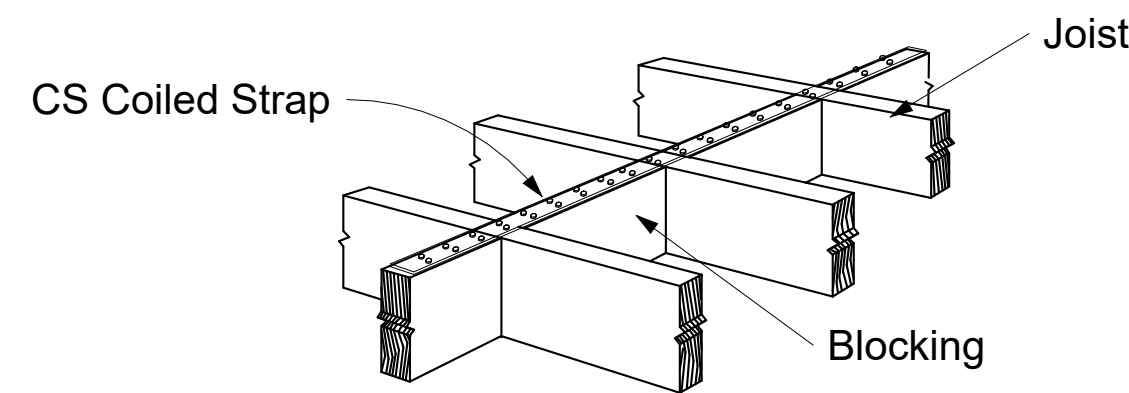
① Joist-to-Girder
NTS



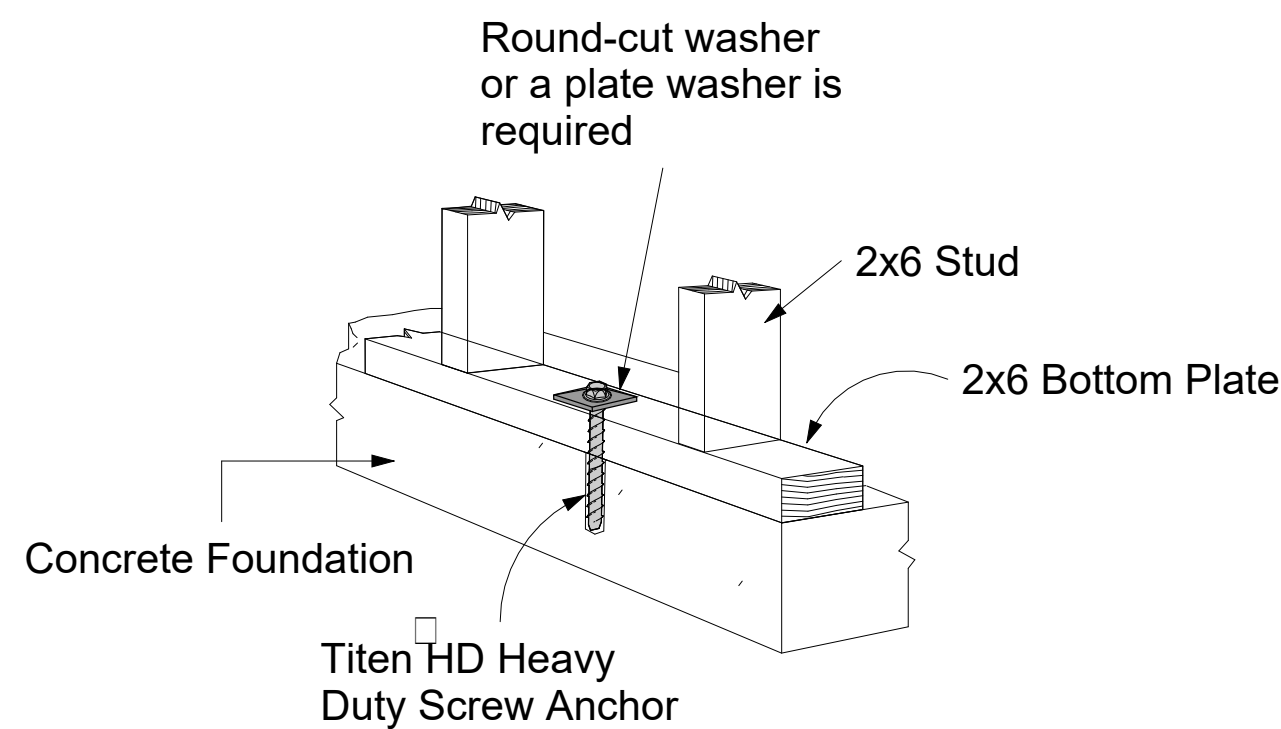
⑤ Hold down 3D detail
NTS



⑥ Mid Floor Wall Bracing
NTS



③ Horizontal Bracing - Across Joists
NTS



⑫ BOTTOM PLATE FIXING
NTS

CLIENT

REAR HOUSE EXTENSION

NOTES:

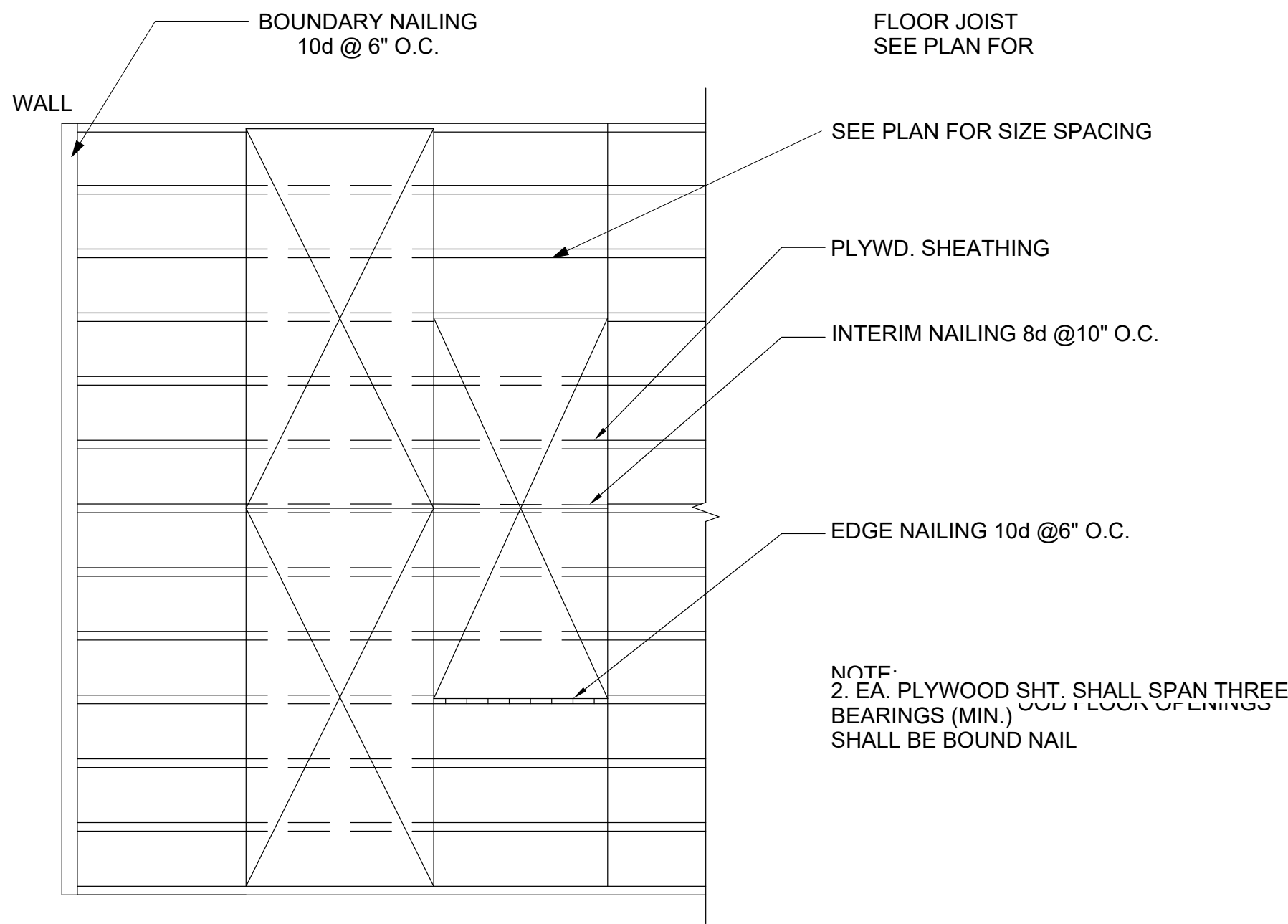
ALL UNITS IN FEET AND INCHES
UNLESS OTHER WISE SPECIFIED

DRAWING NAME CONNECTION DETAILS (x3)

Project number	S-1107
Date	04/11/2024
Drawn by	Abdullah
Checked by	SAIF

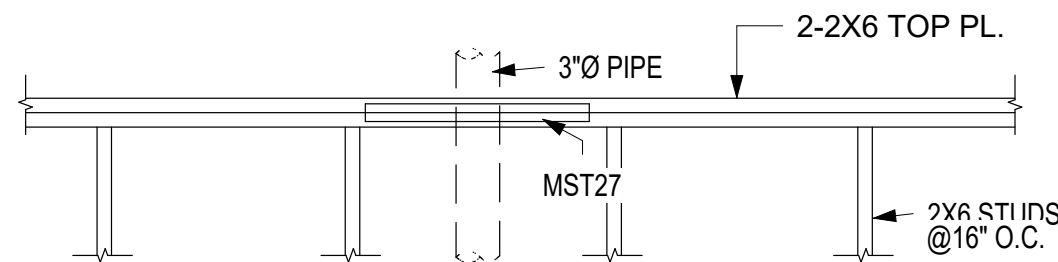
S109

Scale	NTS
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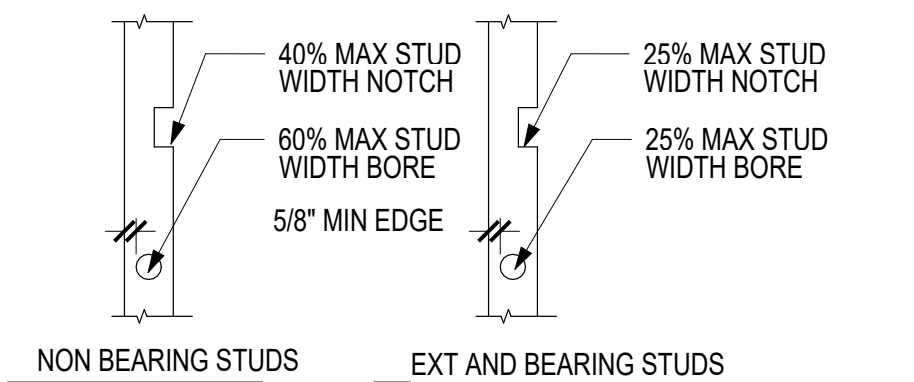


TYPICAL DIAPHRAM DETAILS

3 TYP. DIAPHRAGM DETAILS
NTS



PLUMBING WALL DETAILS

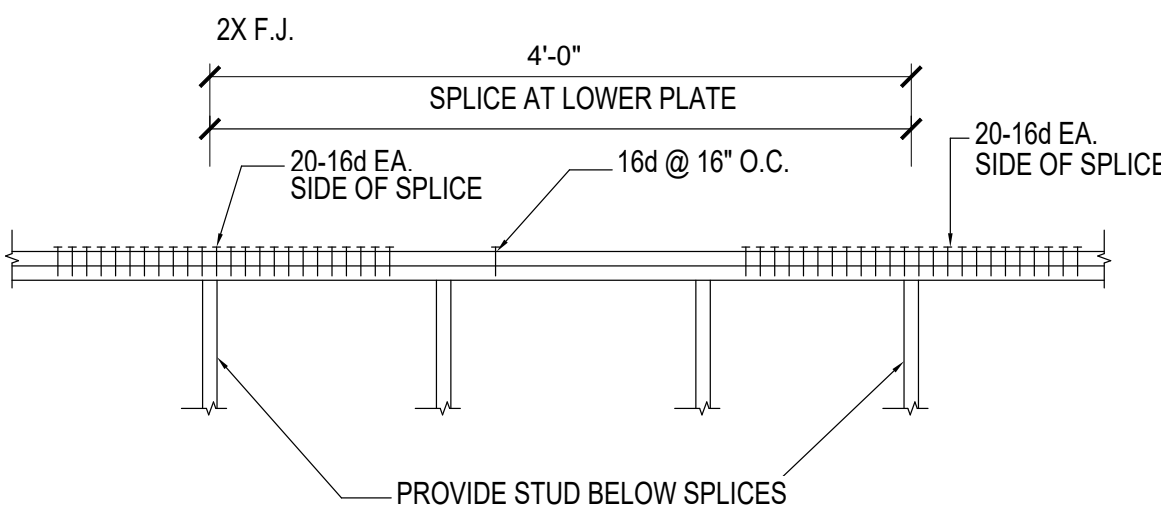
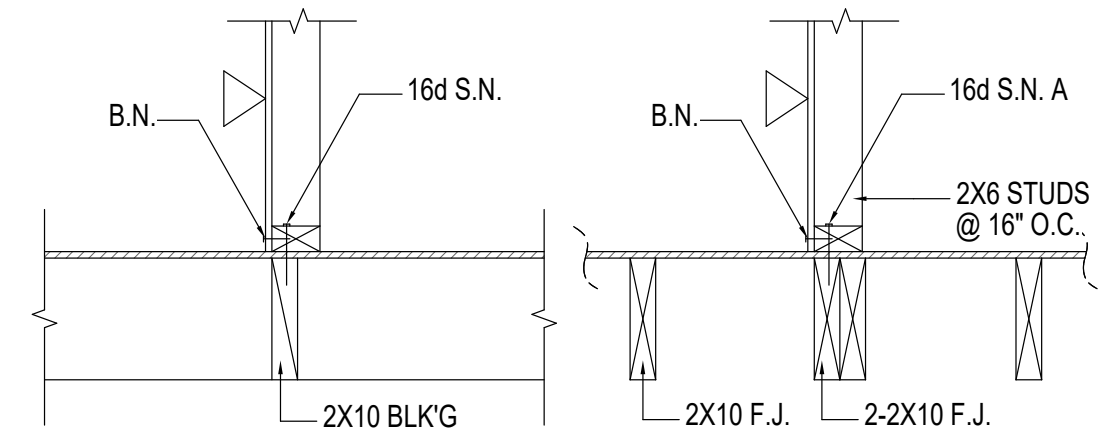


NOTE:
1. NOTCH AND BORING NOT TO OCCUR
IN SAME STUD SECTION
2. NO MORE THEN 2X SUCCESSIVE DBL.
STUDS MAY HAVE 60% BORING HOLES.

NOTCH / BORE	2X4	2X6
25%	7/8"	1 3/8"
40%	1 3/8"	2 1/8"
60%	2"	3 1/4"

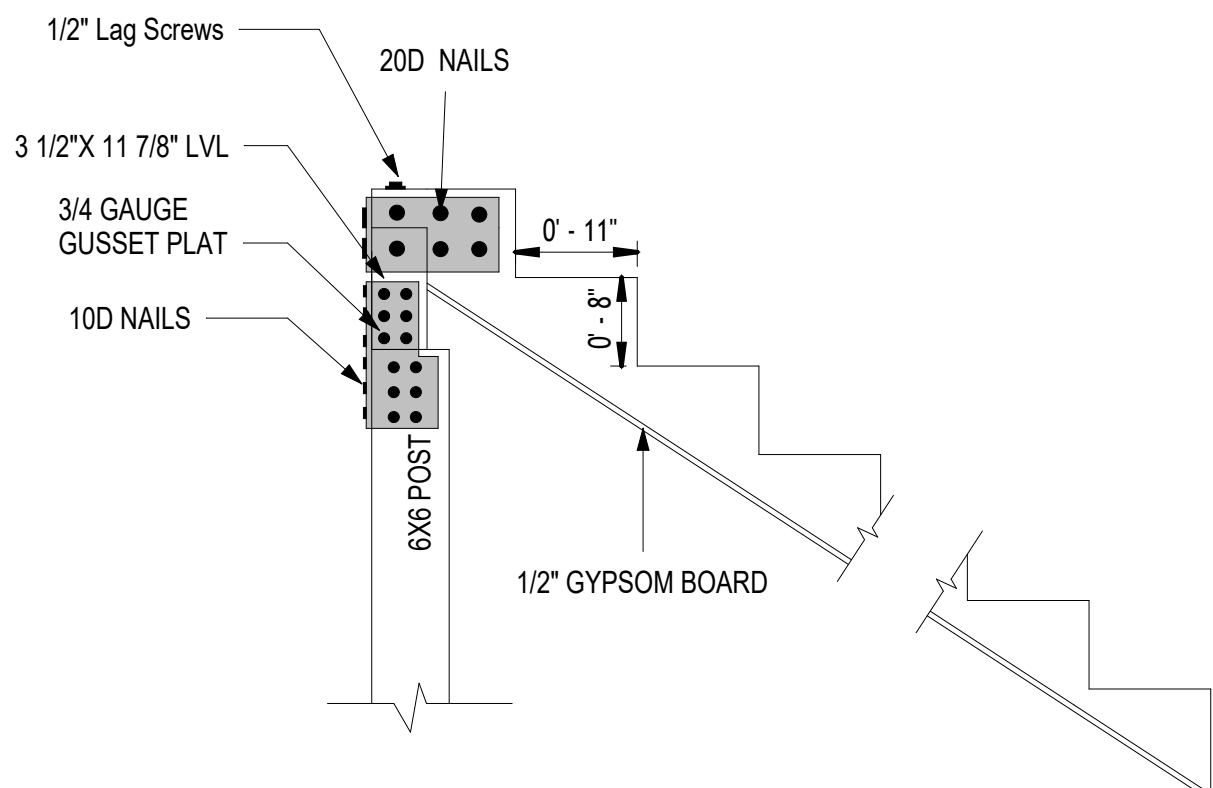
TYP. NOTCHING & BORING

2 PLUM WALL AND TYP. NOTCHING
NTS



MIN. PLATE SLICE DETAIL

4 MIN. PLATE SLICE DETAILS
NTS



5 STAIRCASE DETAILS
NTS

NAILING SCHEDULE (IRC 2018 TABLE 2304.9.1)

(ALL NAILS SHALL BE UTILIZE COMMON NAILS)

NAILING

1. JOIST TO SILL OR GIRDER TOE NAIL.	3- 8d
2. BRIDGING TO JOIST TOE NAIL EA. END.	2- 8d
3. 1X6 SUB FIR OR LESS TO EA. JOIST FACE NAIL	2- 8d
4. WIDER THAN 1X6 SUB FLR. TO EA. JOIST FACE NAIL	3- 8d
5. 2" SUB FLOOR TO JOIST OR GIRDER BLIND & FACE NAIL.	3- 16d
6. SOLE PL. TO JOIST OR BLKING FACE NAIL.	16d @ 16"O.C.
7. TOP PL. TO STUD END NAIL.	2- 16d
8. STUD TO SOLE PL. 4—8d TOE NAIL OR 2-20d END NAIL.	
9. DOUBLE STUDS FACE NAIL.	16d @ 24"O.C.
10. DOUBLE TOP PLS. FACE NAIL	16d @ 16"O.C.
11. TOP PLS. LAPS & INTERSECTIONS FACE NAIL.	2- 16d
12. CONTINUOUS HDR. TWO PIECES.	16d @ 16"O.C.
13. CLG. JOISTS TO PL. TOE NAIL.	3- 8d
14. CONTINUOUS HDR. TO STUD TOE NAIL.	4- 8d
15. CLG. JOISTS LAPS OVER PARTITIONS FACE NAIL.	3- 16d
16. CLG. JOISTS TO PARALLEL RAFTERS FACE NAIL.	3- 16d
17. RAFTER TO PL. TOE NAIL,	3- 8d
18. 1" BRACE TO EA. STUD \$ PL. FACE NAIL.	2- 8d
19. 1X8 SHT'G OR LESS TO EA. BEARING FACE NAIL.	3- 8d
20. WIDER THAN 1X8 SHT'G TO EA. BEARING FACE NAIL.	3- 8d
21. BUILT-UP CNR. STUDS.	16d @ 24"O.C.

1 NAILING RULE
NTS

CLIENT

REAR HOUSE EXTENSION

NOTES:

ALL UNITS IN FEET AND INCHES
UNLESS OTHER WISE SPECIFIED

DRAWING NAME
CONNECTION
DETAILS (x4) & nailing
rules

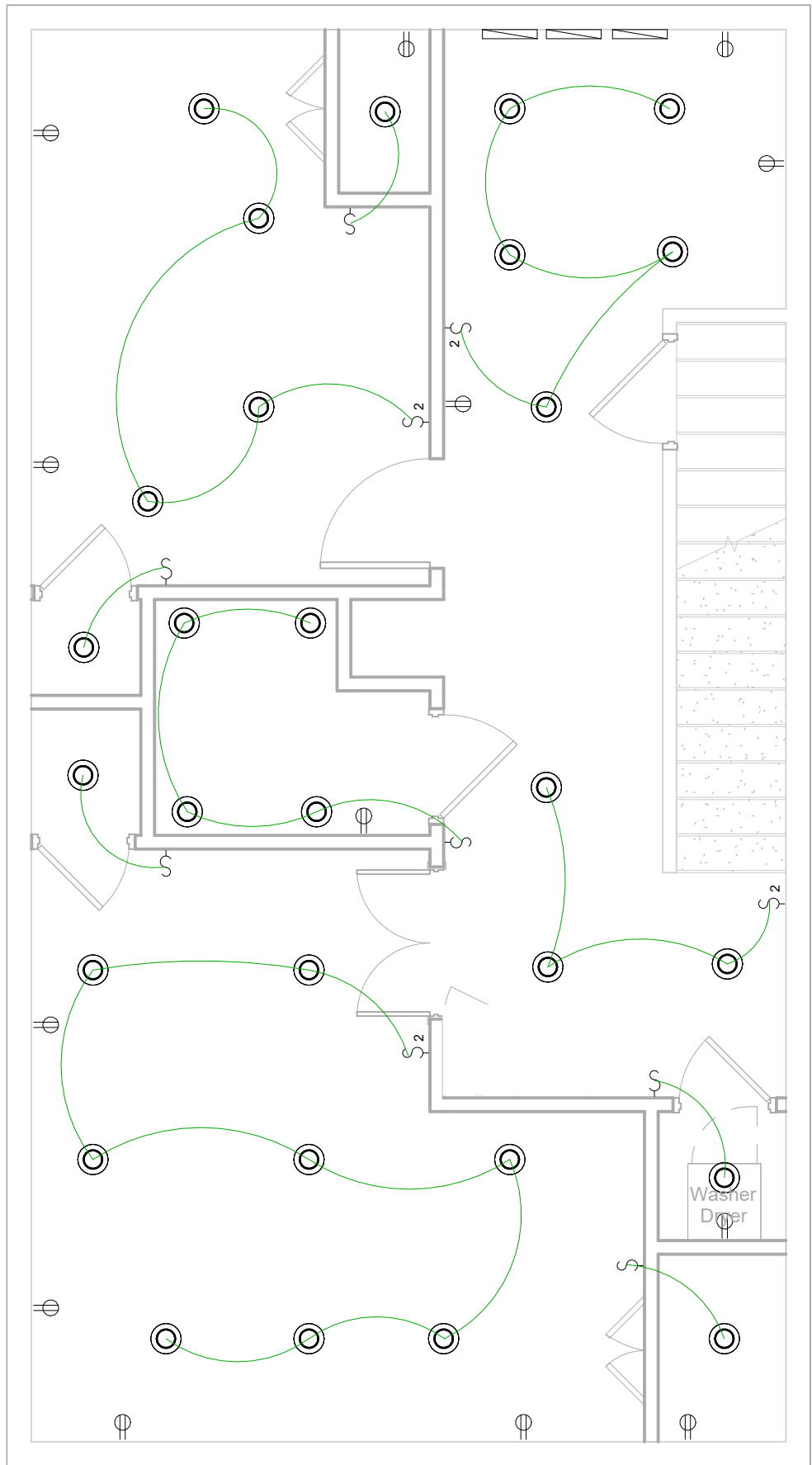
Project number S-1107
Date 04/11/2024
Drawn by Abdullah
Checked by SAIF

S110

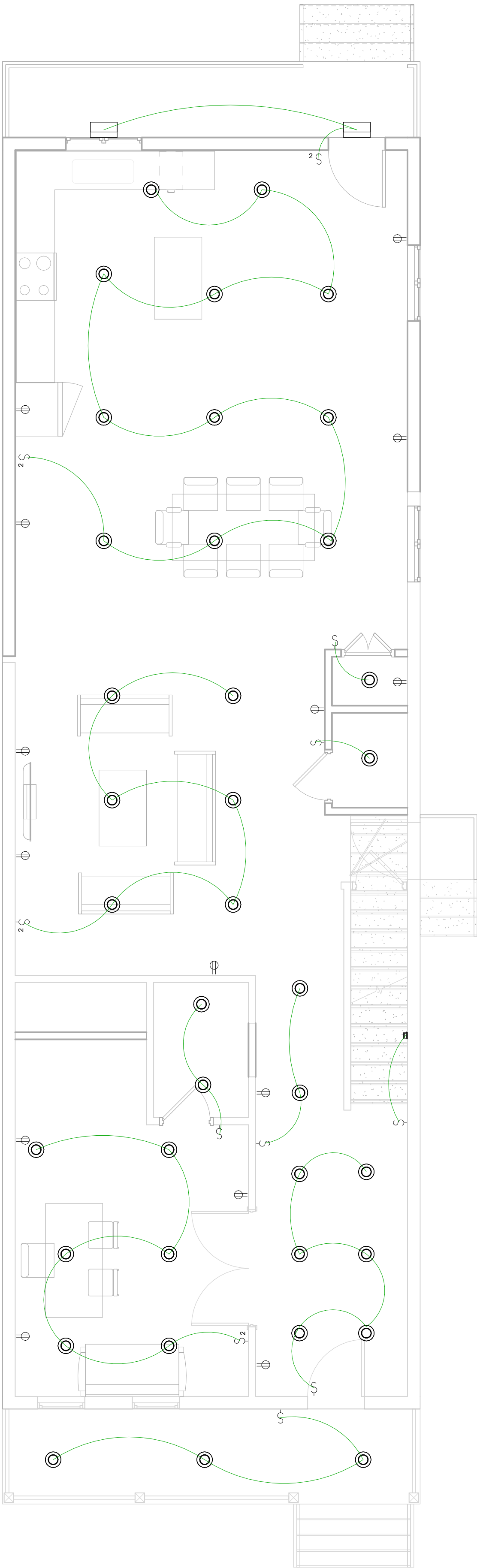
Scale As indicated

GENERAL NOTES:

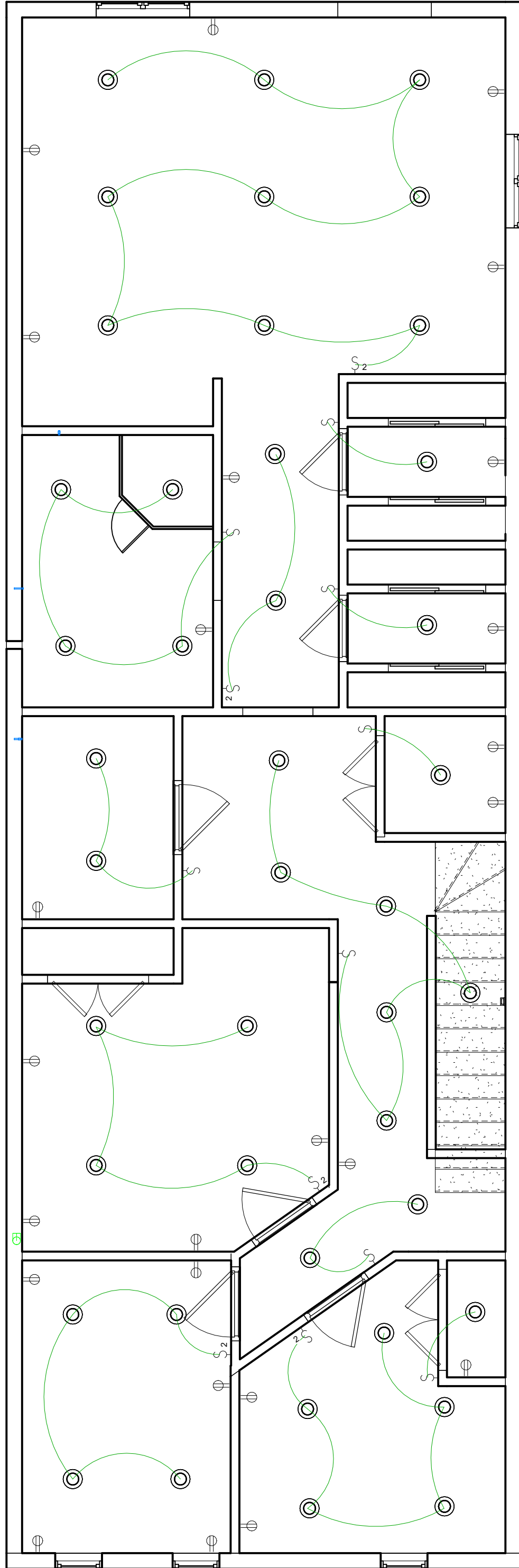
- ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE 2023 NATIONAL ELECTRICAL CODE (NEC) AND ALL APPLICABLE LOCAL CODES AND REGULATIONS.
- ALL CONDUCTORS SHALL BE COPPER AND SHALL BE SIZED IN ACCORDANCE WITH THE NEC.
- PRIOR TO ANY ELECTRICAL WORK, OBTAIN ALL NECESSARY PERMITS AND INSPECTIONS AS REQUIRED BY LOCAL AUTHORITIES.
- ENSURE PROPER GROUNDING AND BONDING OF ALL ELECTRICAL SYSTEMS AND EQUIPMENT IN ACCORDANCE WITH NEC REQUIREMENTS.
- TO INSTALL THE CORRECT OVERCURRENT PROTECTION DEVICES (CIRCUIT BREAKERS OR FUSES) FOR EACH CIRCUIT.
- INSTALL GROUND FAULT CIRCUIT INTERRUPTER (GFCI) PROTECTION FOR ALL OUTLETS IN WET OR DAMP LOCATIONS.
- INSTALL ARC FAULT CIRCUIT INTERRUPTER (AFCI) PROTECTION FOR BRANCH CIRCUITS IN ACCORDANCE WITH NEC.
- ELECTRICAL SERVICE SHALL BE A 200 AMP, 3-PHASE, 4-WIRE SERVICE.
- LIGHTING SYSTEM SHALL BE A COMBINATION OF FLUORESCENT AND LED FIXTURES.
- RECEPTACLES SHALL BE 120/240 VOLT, 50 AMP, NEMA 5-15R TYPE.
- FIRE ALARM SYSTEM SHALL BE A 120 VOLT, ADDRESSABLE SYSTEM.
- NO WIRINGS TO BE PLACED UNDER THE GROUND EXCEPT FOR THE SERVICE WIRES AND THE EARTHING
- THWN COATED WIRE WITH ATLEAST 167F RATED TEMPERATURE RESISTANCE TO BE USED
- LIGHTING SWITCHES TO BE INSTALLED AT 5'-0" FROM THE F.F.L
- POWER SUPPLY FOR AC UNITS TO BE INSTALLED CONCEALED INSIDE THE WALL
- RECEPTACLE FOR HOME APPLIANCES TO BE INSTALLED AT 2'-0" FROM THE F.F.L
- EXTERIOR RECEPTACLES TO BE INSTALLED AT 1'-0" FOR F.F.L
- EXTERIOR RECEPTACLES TO HAVE WATER PROOF CAP INSTALLED
- TO FOLLOW THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS FOR ALL ELECTRICAL EQUIPMENT AND COMPONENTS.
- RUNNING LENGTHS OF WIRES AS SHOWN ARE JUST REPRESENTATION AND ON SITE MEASUREMENTS NEED TO BE TAKEN FOR MATERIAL ACQUISITION



1 BASEMENT ELECTRICAL
1/4" = 1'-0"



2 FIRST FLOOR ELECTRICAL
1/4" = 1'-0"



3 PROPOSED SF ELECTRICAL
1/4" = 1'-0"

ELECTRICAL LEGENDS

	CIELING LIGHT
	SINGLE SWITCH
	DOUBLE SWITCH
	OUTLET DUPLEX
	POWER PANEL
	WALL MOUNTED LIGHT
	EXTERIOR WALL PACK LIGHT
	WIRE

ELECTRICAL LEGENDS
1/2" = 1'-0"

CLIENT

REAR HOUSE EXTENSION

NOTES:

ALL UNITS IN FEET AND INCHES
UNLESS OTHER WISE SPECIFIED

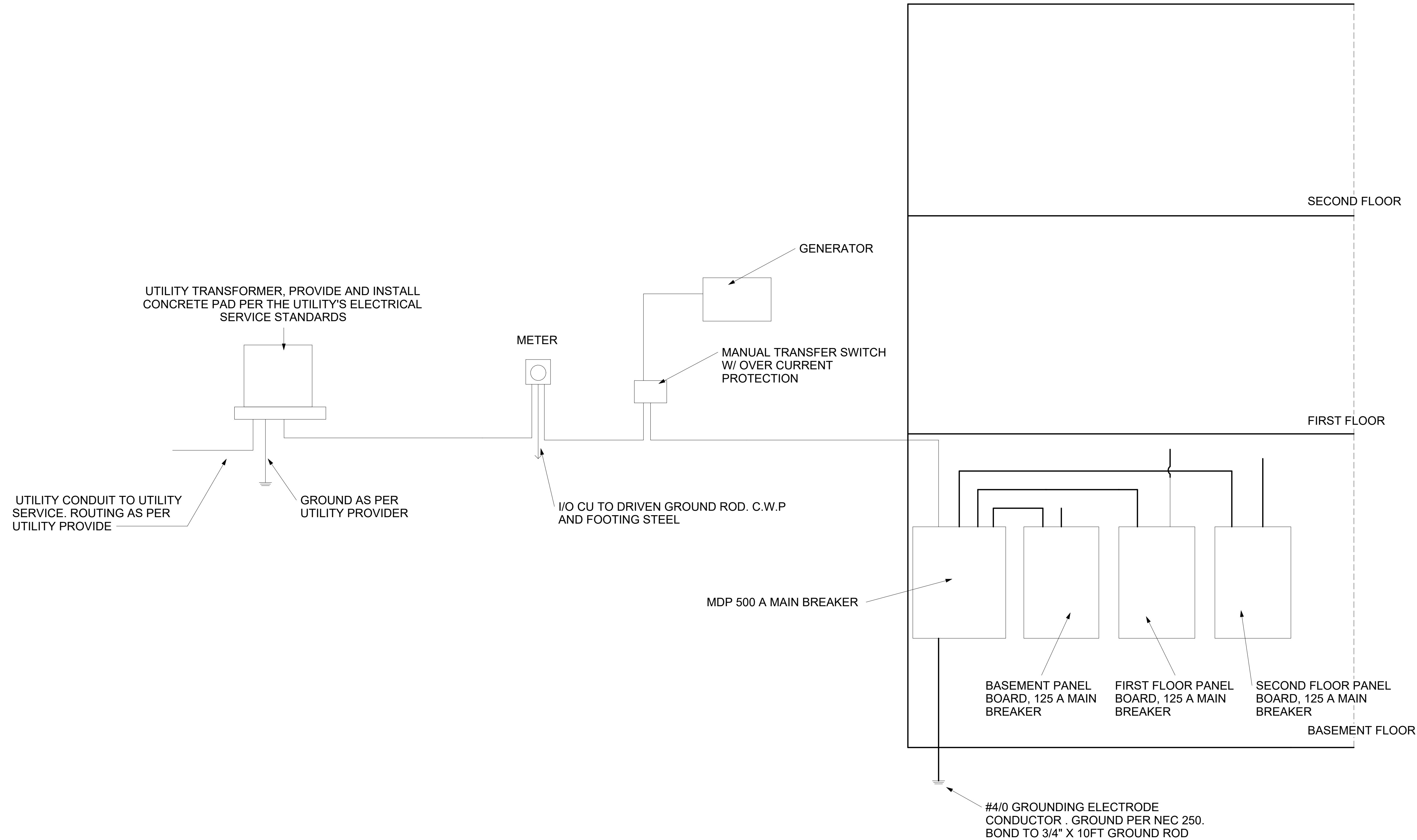
DRAWING NAME
Electrical Plans

Project number S-1107
Date 04/11/2024
Drawn by Abdullah
Checked by SAIF

E101

Scale As indicated

1 ELECTRICAL RISER
1 1/2" = 1'-0"



CLIENT

REAR HOUSE EXTENSION

NOTES:

ALL UNITS IN FEET AND INCHES
UNLESS OTHER WISE SPECIFIED

DRAWING NAME
Electrical Riser

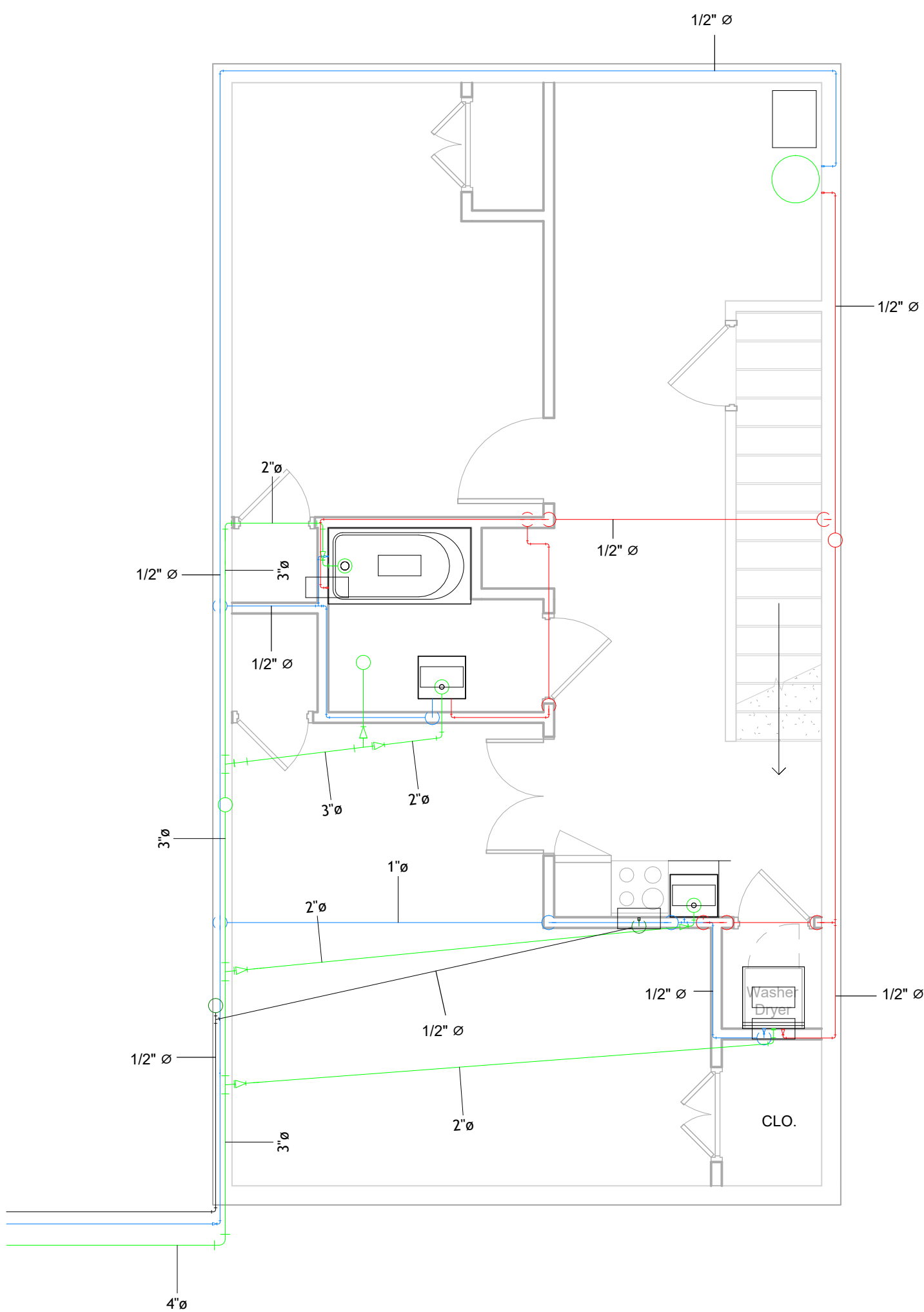
Project number	S-1107
Date	04/11/2024
Drawn by	Abdullah
Checked by	SAIF

E102

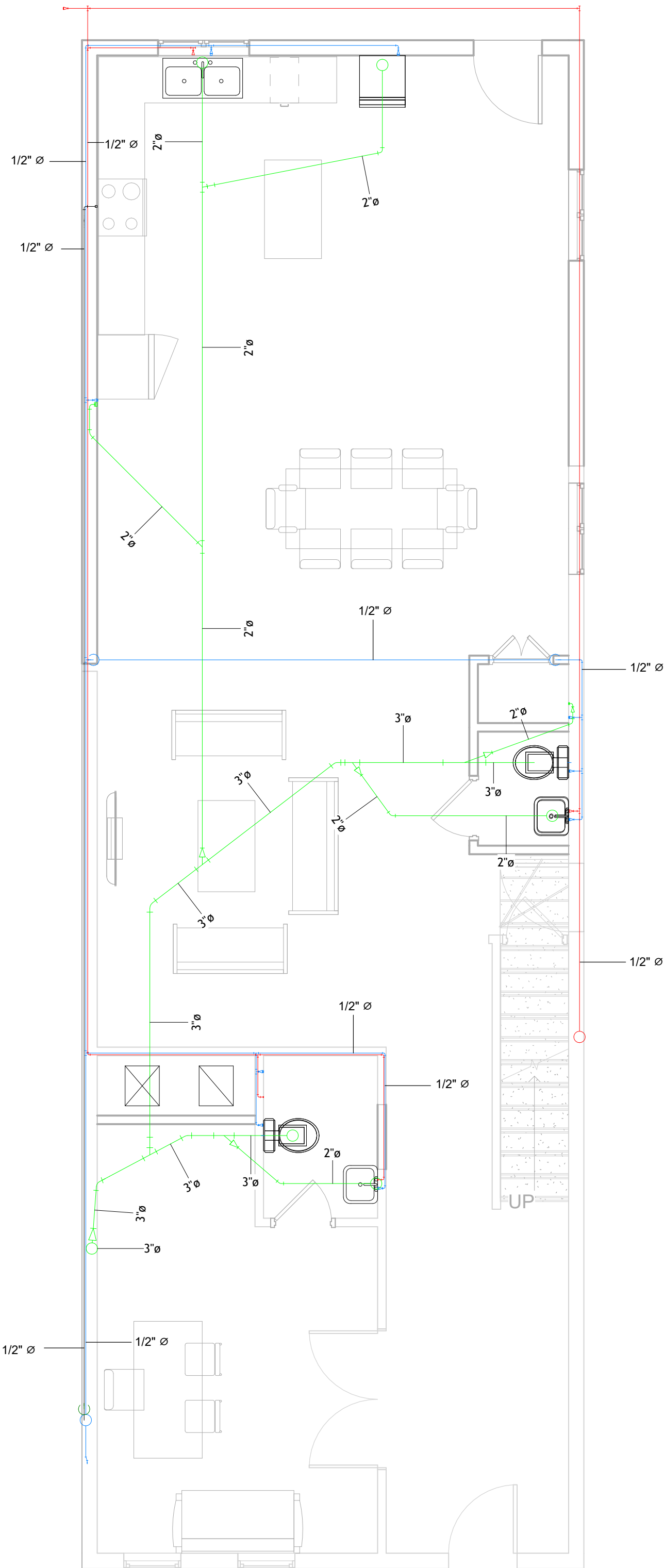
Scale	1 1/2" = 1'-0"
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GENERAL NOTES:

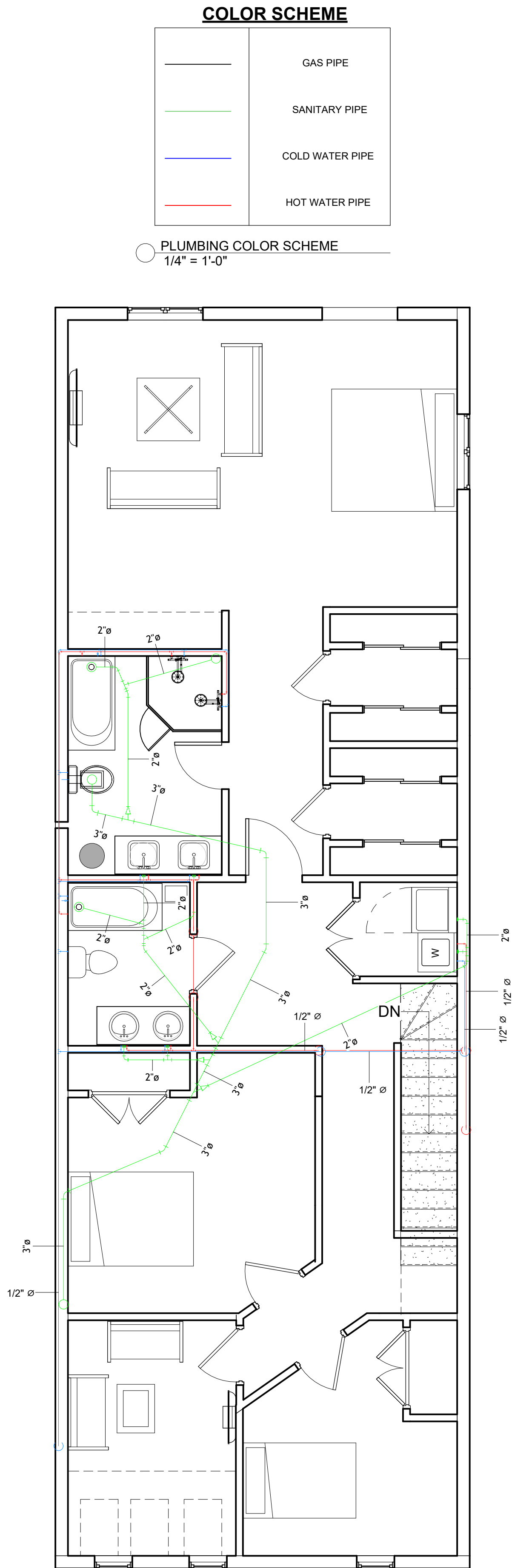
- PVC SCHEDULE 40 PIPES TO BE USED FOR DRAINAGE SYSTEM
- THE SLOPE OF THE DRAINAGE PIPE IS TO BE 1/4" / 12" UNLESS SPECIFIED
- THE COLD AND HOT WATER PIPE TO BE OF COPPER DUE TO THEIR RESISTANT TO CORROSION PROPERTIES
- THE HOT AND COLD WATER PIPES TO BE OF 3/4" DIA AT THE SUPPLY LINE AND 1/2" FOR THE DISTRIBUTION LINE PIPES
- THE DRINKING WATER CONNECTION TO BE CONNECTED TO THE SUPPLY LINE
- THE FITTINGS BETWEEN THE PIPES CAN BE ADJUSTED AS PER THE CONNECTION REQUIREMENT
- SEWERAGE FROM THE FIXTURES TO BE 3" AND THE COLLECTOR LINE TO BE 4" THAT IS DRAINED TO MAIN SEWERAGE



1 BASEMENT PLUMBING
1/4" = 1'-0"



2 FIRST FLOOR PLUMBING
1/4" = 1'-0"



3 PROPOSED SF PLUMBING
1/4" = 1'-0"

COLOR SCHEME

	GAS PIPE
	SANITARY PIPE
	COLD WATER PIPE
	HOT WATER PIPE

PLUMBING COLOR SCHEME
1/4" = 1'-0"

CLIENT

REAR HOUSE EXTENSION

NOTES:

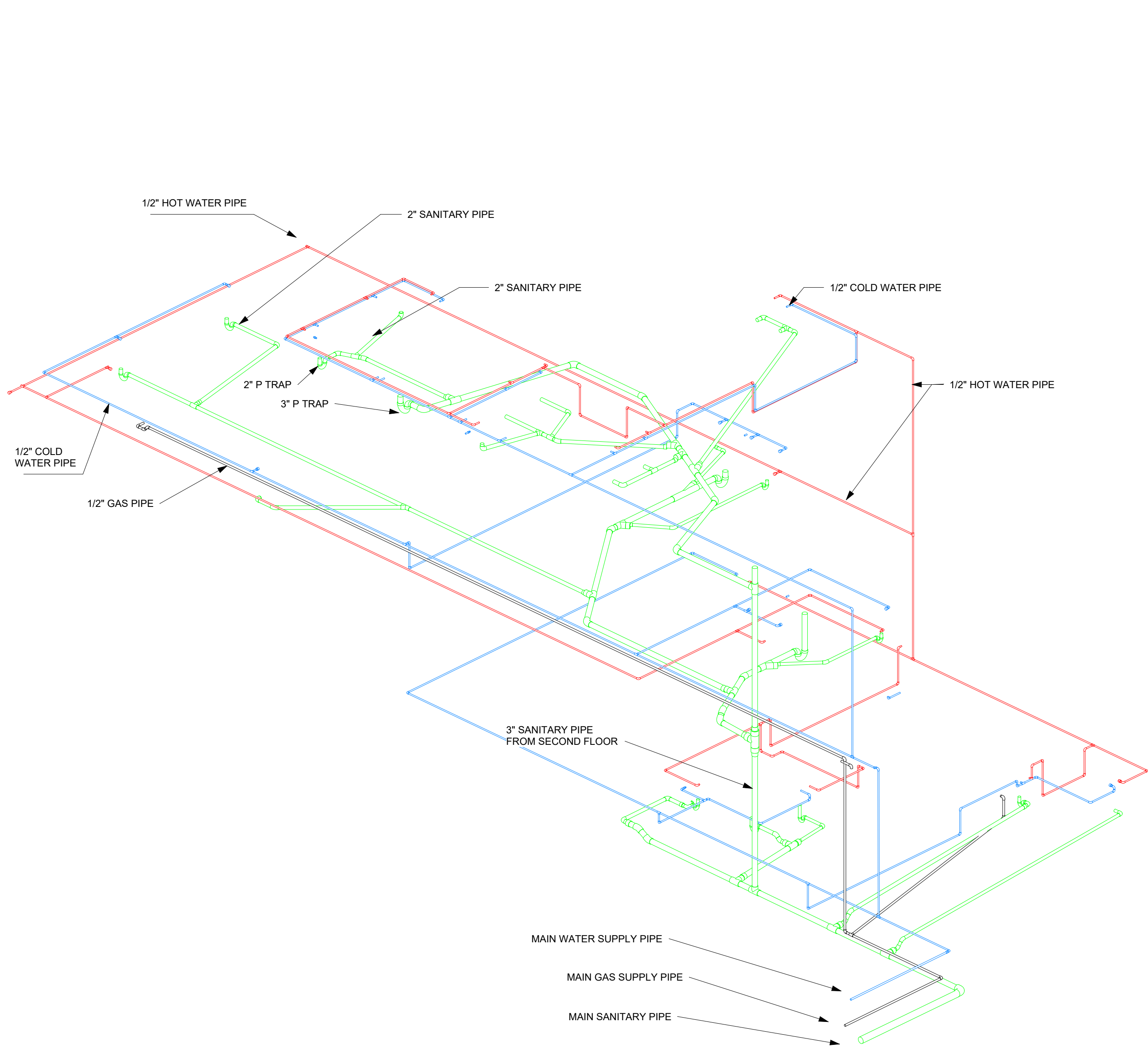
ALL UNITS IN FEET AND INCHES
UNLESS OTHER WISE SPECIFIED

DRAWING NAME
Plumbing Plan

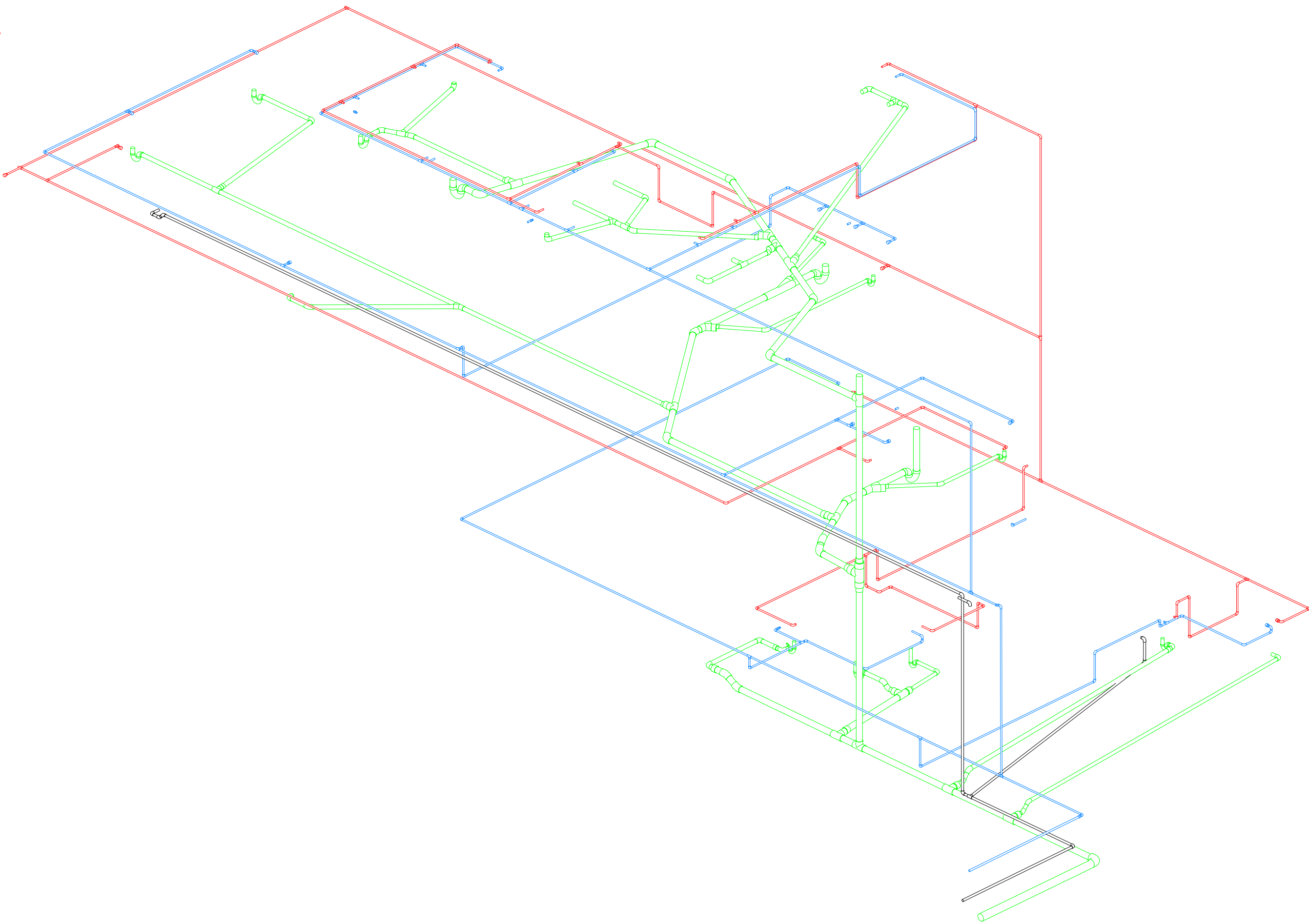
Project number S-1107
Date 04/11/2024
Drawn by Abdullah
Checked by SAIF

P101

Scale 1/4" = 1'-0"



1 PLUMBING RISER 1



2 PLUMBING RISER 2

COLOR SCHEME	
	GAS PIPE
	SANITARY PIPE
	COLD WATER PIPE
	HOT WATER PIPE

PLUMBING COLOR SCHEME
1/4" = 1'-0"

PLUMBING LEGENDS	
	ELBOW
	TEE
	P TRAP
	CROSS

PLUMBING LEGEND
1 1/2" = 1'-0"

CLIENT

REAR HOUSE EXTENSION

NOTES:

ALL UNITS IN FEET AND INCHES
UNLESS OTHER WISE SPECIFIED

DRAWING NAME
Plumbing Riser

Project number S-1107
Date 04/11/2024
Drawn by Abdullah
Checked by SAIF

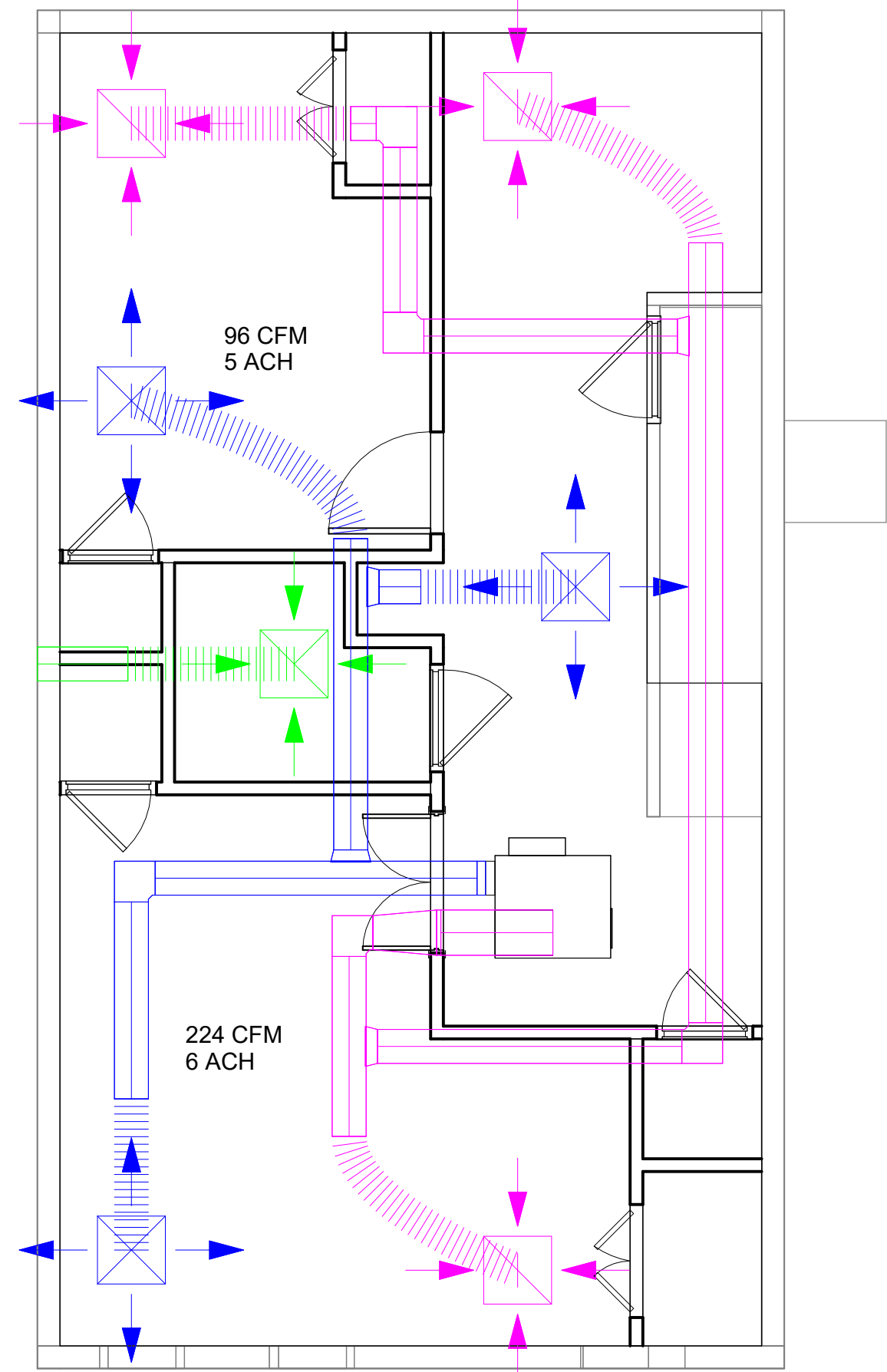
P102

Scale As indicated

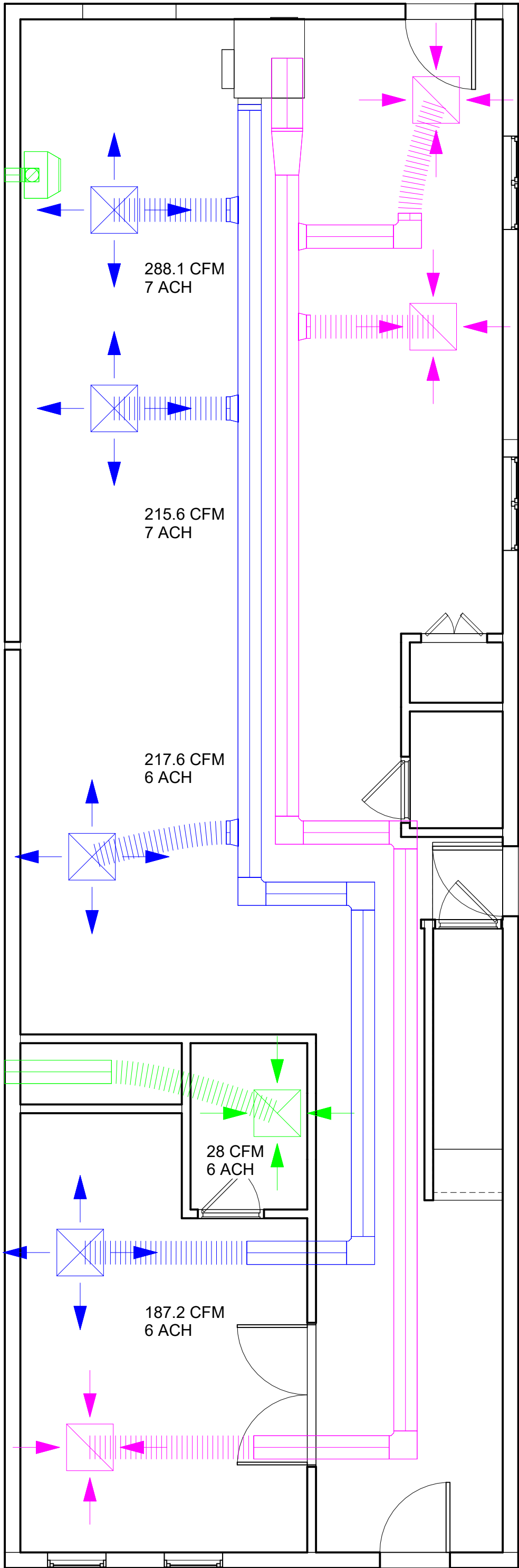
GENERAL NOTES:

- ALL MECHANICAL EQUIPMENT AND PIPING SHALL COMPLY WITH THE 2022 INTERNATIONAL MECHANICAL CODE (IMC) AND LOCAL REGULATIONS
- DUCTS ARE TO BE IN RECTANGULAR SHAPE UNLESS SPECIFIED
- ALL THE DUCTS TO BE IN CEILING UNLESS SPECIFIED AND TO HAVE SUFFICIENT SPACE FOR MAINTAINANCE ACCESS
- THE MECHANICAL DRAWINGS TO BE READ IN COORDINATION WITH PLUMBING AND ELECTRICAL DRAWING.
- ALL MATERIALS SHALL BE OF NEW AND UNUSED CONSTRUCTION MATERIALS. THE HVAC SYSTEM DESIGNED TO PROVIDE A MINIMUM OF 60 CUBIC FEET PER MINUTE (CFM) OF OUTDOOR AIR PER PERSON FOR ALL OCCUPIED SPACES.
- THE CONTRACTOR/ CLIENT TO OBTAIN ALL THE NECESSARY PRODUCT APPROVALS BEFORE THE COMMENCEMENT OF WORK
- FITTINGS OF DUCTS ARE TO BE INSTALLED AS PER THE REQUIREMENT
- MINIMUM CFM TO BE PROVIDED BY THE INLET DIFFUSER AS MENTIONED
- AIR INTAKE OPENINGS THAT TERMINATE OUTDOORS SHALL BE PROTECTED WITH CORROSIONRESISTANT SCREENS, LOUVERS OR GRILLES. OPENINGS IN LOUVERS, GRILLES AND SCREENS SHALL BE SIZED IN ACCORDANCE WITH TABLE 401.5, AND SHALL BE PROTECTED AGAINST LOCAL WEATHER CONDITIONS

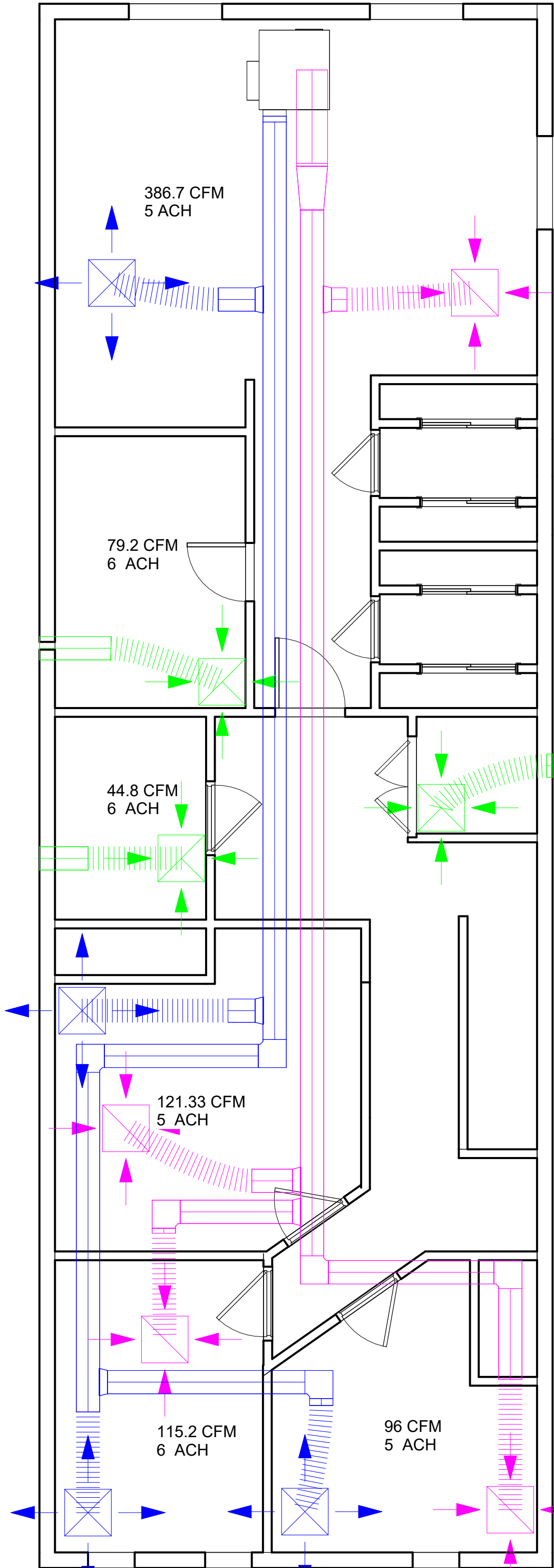
- AS PER 603.18,DUCT REGISTERS, GRILLES AND DIFFUSERS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. VOLUME DAMPERS OR OTHER MEANS OF SUPPLY AIR ADJUSTMENT SHALL BE PROVIDED IN THE BRANCH DUCTS OR AT EACH INDIVIDUAL DUCT REGISTER, GRILLE OR DIFFUSER. EACH VOLUME DAMPER OR OTHER MEANS OF SUPPLY AIR ADJUSTMENT USED IN BALANCING SHALL BE PROVIDED WITH ACCESS.
- AS PER 301.6,THE APPROVAL AND INSTALLATION OF FUEL GAS DISTRIBUTION PIPING AND EQUIPMENT, FUEL GAS-FIRED APPLIANCES, AND FUEL GAS-FIRED APPLIANCE VENTING SYSTEMS MUST BE IN ACCORDANCE WITH THE INTERNATIONAL FUEL GAS CODE.
- PIPING, TUBING AND FITTINGS SHALL EITHER BE TESTED BY AN APPROVED THIRD-PARTY TESTING AGENCY OR CERTIFIED BY AN APPROVED THIRD-PARTY CERTIFICATION AGENCY.
- THE BUILDING SHALL NOT BE WEAKENED BY THE INSTALLATION OF MECHANICAL SYSTEMS. WHERE FLOORS, WALLS, CEILINGS OR ANY OTHER PORTION OF THE BUILDING OR STRUCTURE ARE REQUIRED TO BE ALTERED OR REPLACED IN THE PROCESS OF INSTALLING OR REPAIRING ANY SYSTEM, THE BUILDING OR STRUCTURE SHALL BE LEFT IN A SAFE STRUCTURAL CONDITION IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE. THE NOTCHING TO BE AS MENTIONED IN STRUCTURAL DRAWING NOTES
- PENETRATIONS OF FLOOR/CEILING ASSEMBLIES AND ASSEMBLIES REQUIRED TO HAVE A FIRE-RESISTANCE RATING SHALL BE PROTECTED IN ACCORDANCE WITH CHAPTER 7 OF THE INTERNATIONAL BUILDING CODE.



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



2 FIRST FLOOR PLAN HVAC
1/4" = 1'-0"



3 SECOND FLOOR PLAN HVAC
1/4" = 1'-0"

COLOR SCHEME

GREEN	EXHAUST
BLUE	SUPPLY
PINK	RETURN

HVAC COLOR SCHEME
1" = 1'-0"

HVAC LEGENDS

	EXHAUST VENT
	RANGE HOOD
	RETURN DIFFUSER
	SUPPLY DIFFUSER
	RECTANGULAR ELBOW
	RECTANGULAR TAP
	RECTANGULAR DUCT
	VAV UNIT - PARALLEL FAN POWERED

HVAC LEGENDS
1/8" = 1'-0"

CLIENT

REAR HOUSE EXTENSION

NOTES:

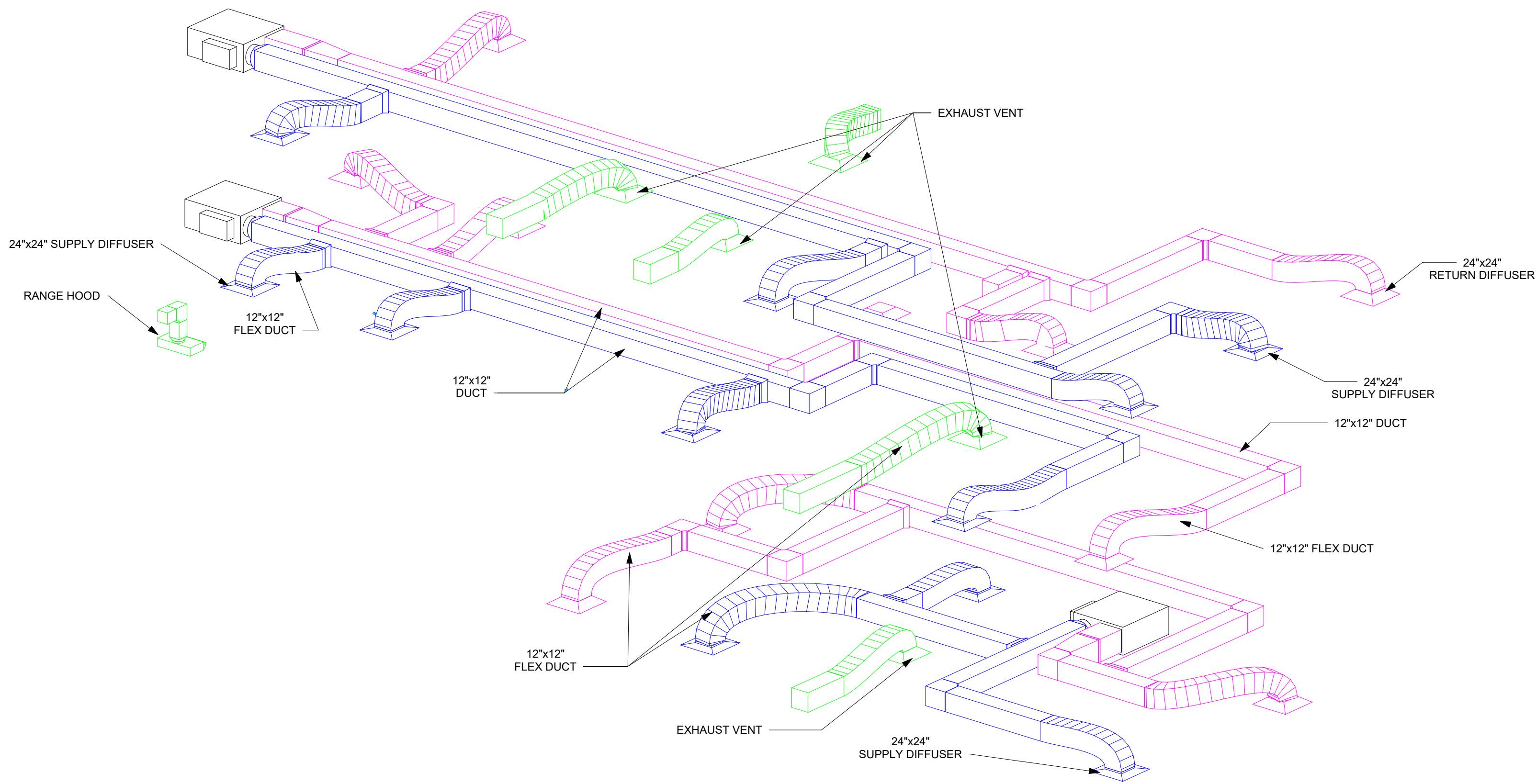
ALL UNITS IN FEET AND INCHES
UNLESS OTHER WISE SPECIFIED

DRAWING NAME
HVAC Plan

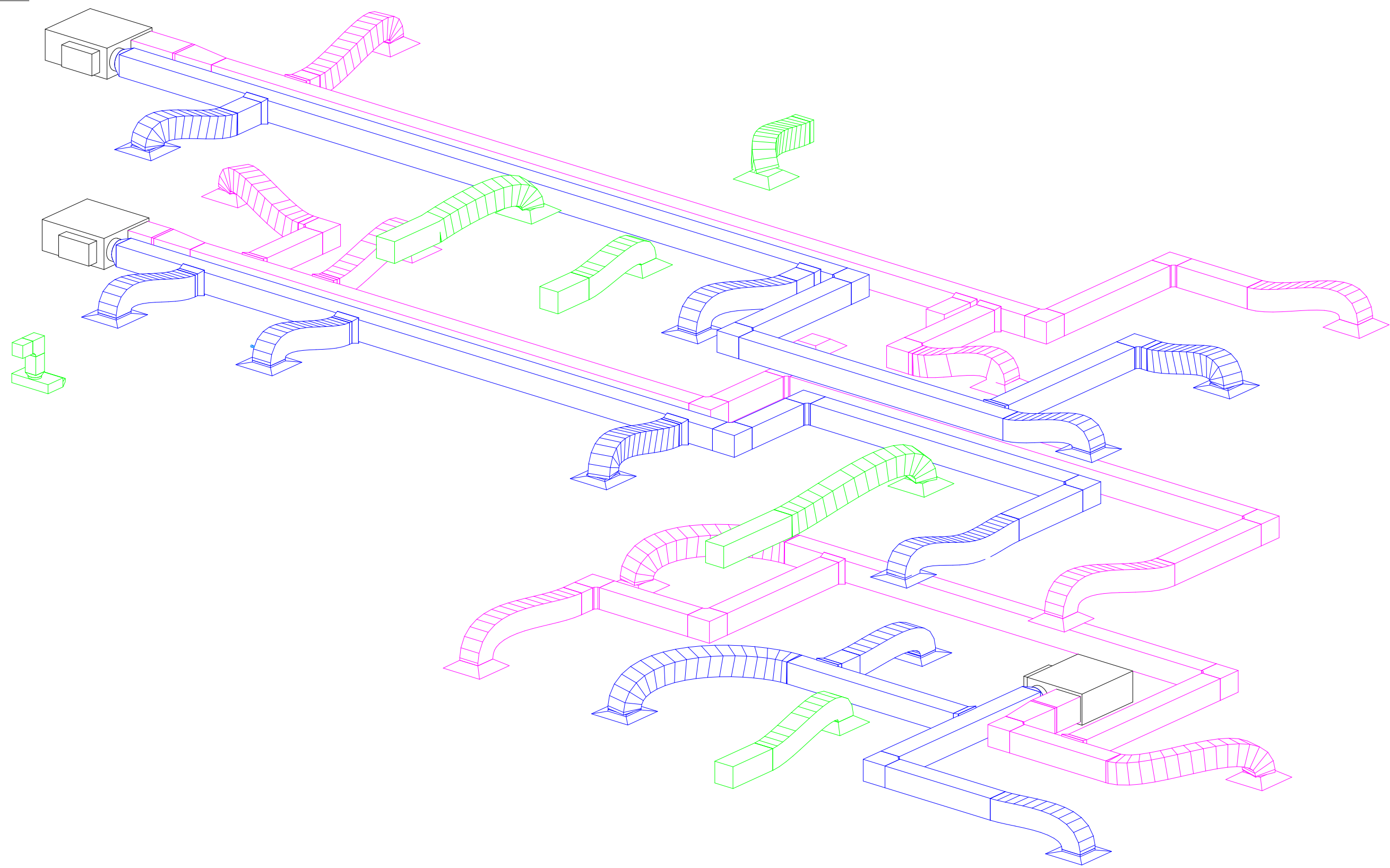
Project number S-1107
Date 04/11/2024
Drawn by Abdullah
Checked by SAIF

M101

Scale As indicated



1 HVAC RISER 1



2 HVAC RISER 1 2

COLOR SCHEME

GREEN	EXHAUST
BLUE	SUPPLY
PINK	RETURN

HVAC COLOR SCHEME
1" = 1'-0"

HVAC LEGENDS

	EXHAUST VENT
	RANGE HOOD
	RETURN DIFFUSER
	SUPPLY DIFFUSER
	RECTANGULAR ELBOW
	RECTANGULAR TAP
	RECTANGULAR DUCT
	VAV UNIT - PARALLEL FAN POWERED

HVAC LEGENDS
1/8" = 1'-0"

CLIENT

REAR HOUSE EXTENSION

NOTES:

ALL UNITS IN FEET AND INCHES
UNLESS OTHER WISE SPECIFIED

DRAWING NAME
HVAC Riser

Project number	S-1107
Date	04/11/2024
Drawn by	Abdullah
Checked by	SAIF

M102

Scale	As indicated
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