

18x16 Monolithic Footing
w-2#5 Rebar Cont.

4" Concrete Slab 2500 PSI Min.
w/6x6-10/10 WWM ON 6 Mil. Poly
Vapor Barrier Over Clean Fill
Compacted + Poison Treated

4" Drop
w-2#5 Rebar Cont.
12"x12" Ftg.

Foundation Plan 1/4" = 1'

Roof Material - Asphalt
Singles on Lapped 30lb
Felt Tin Tagged on 1932
CDX Sheeting.

8'0"

R-19 Insulation

Strap Ea. Truss w-Simpson H-10

2-2x6 Toplates
Strap Ea. Stud w-Simpson SPH6

2x6 studs

R-19 Insulation

Mid Bracing - Staggered

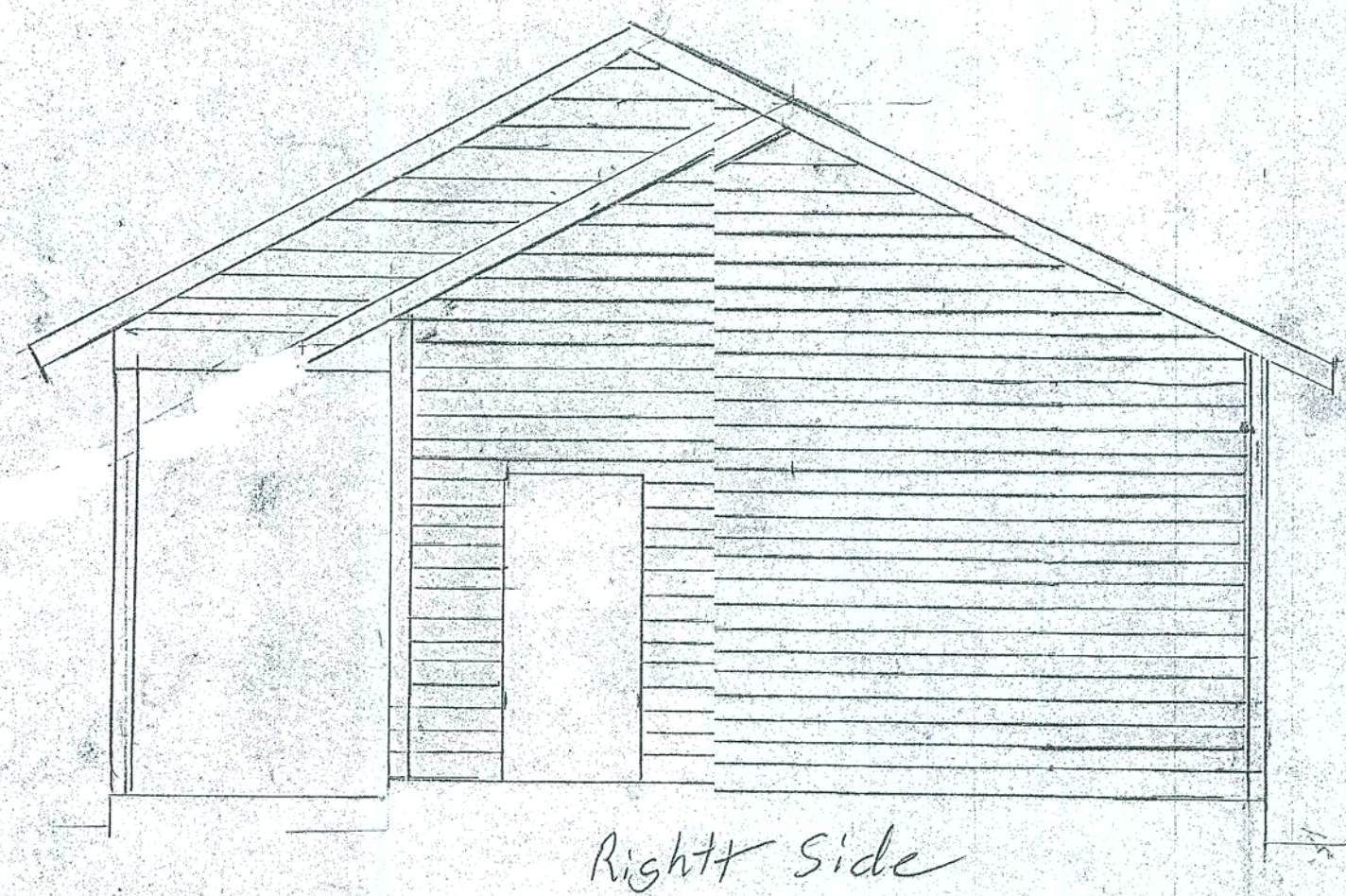
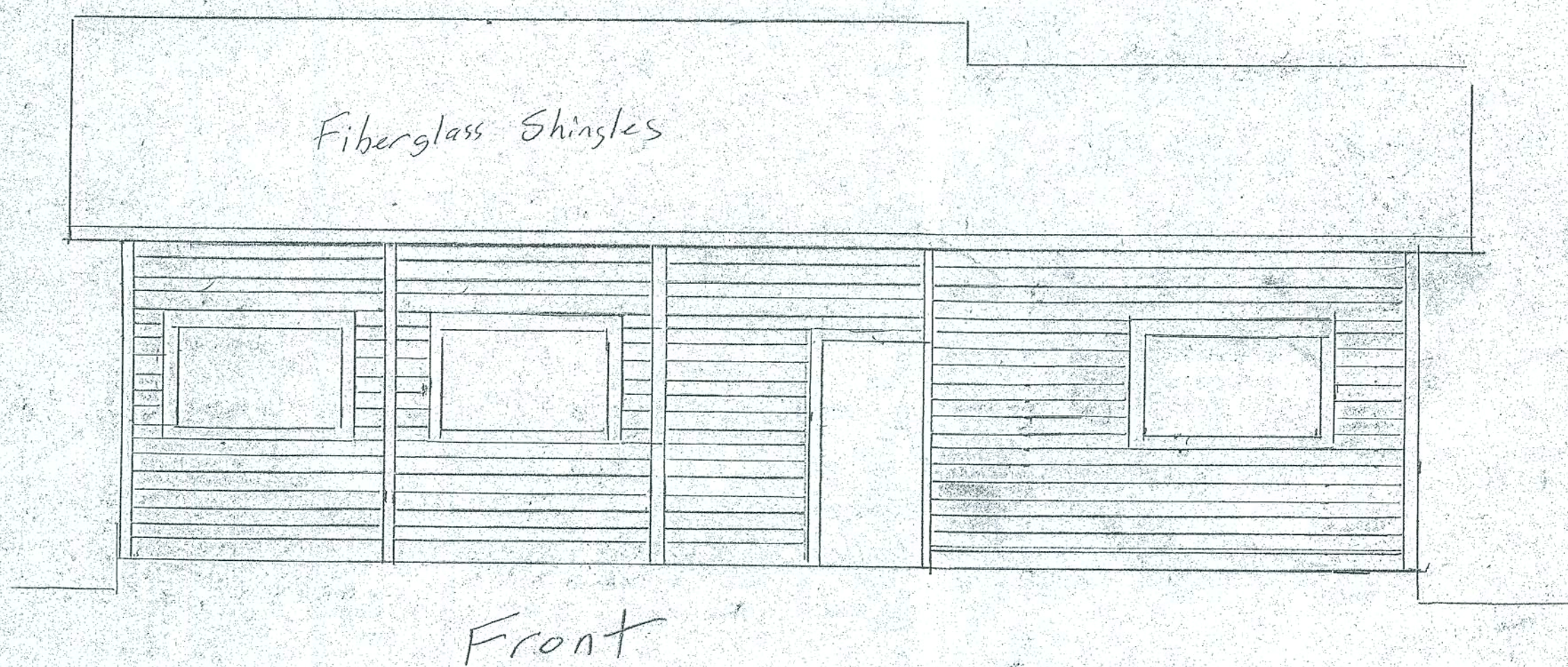
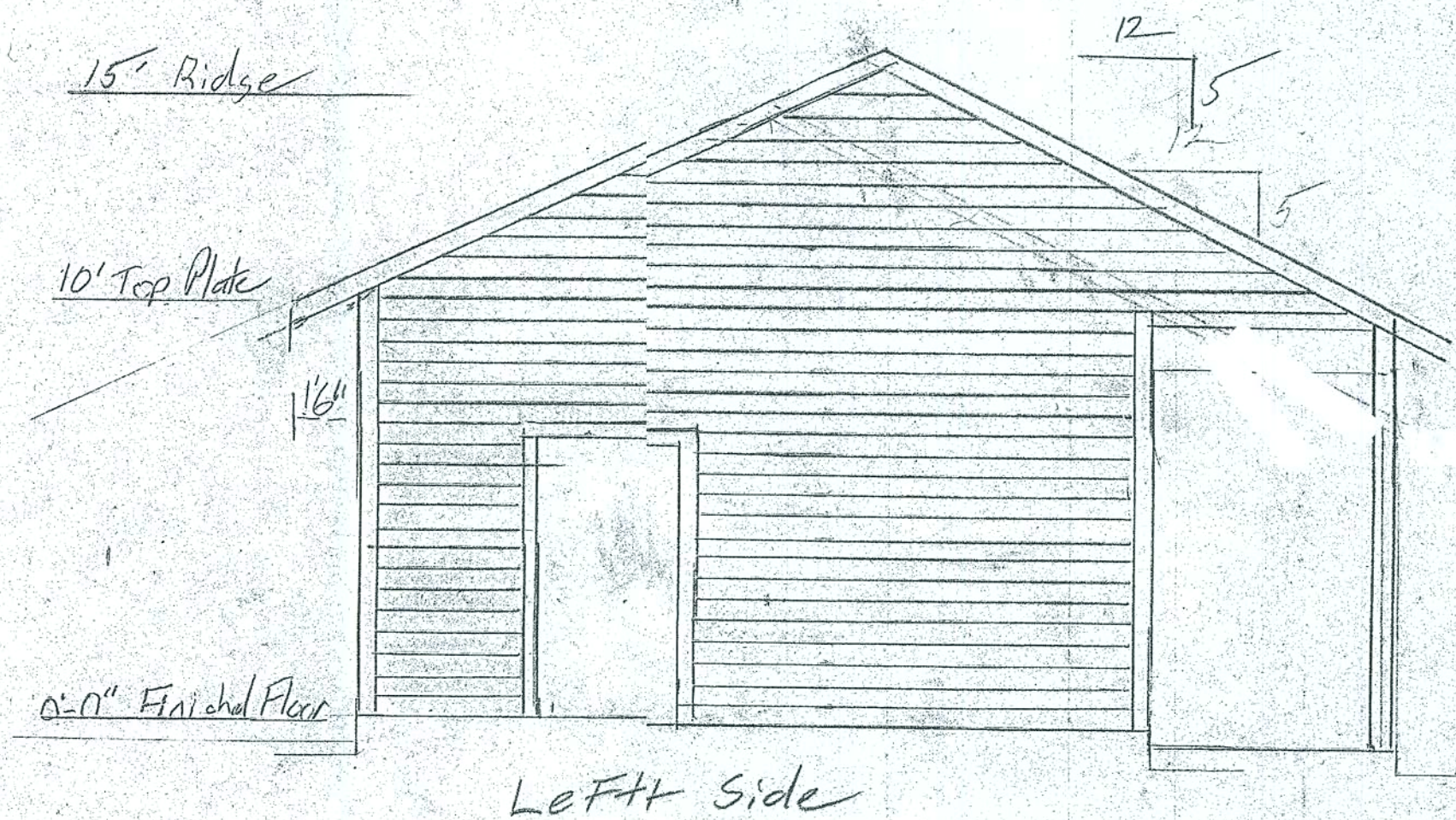
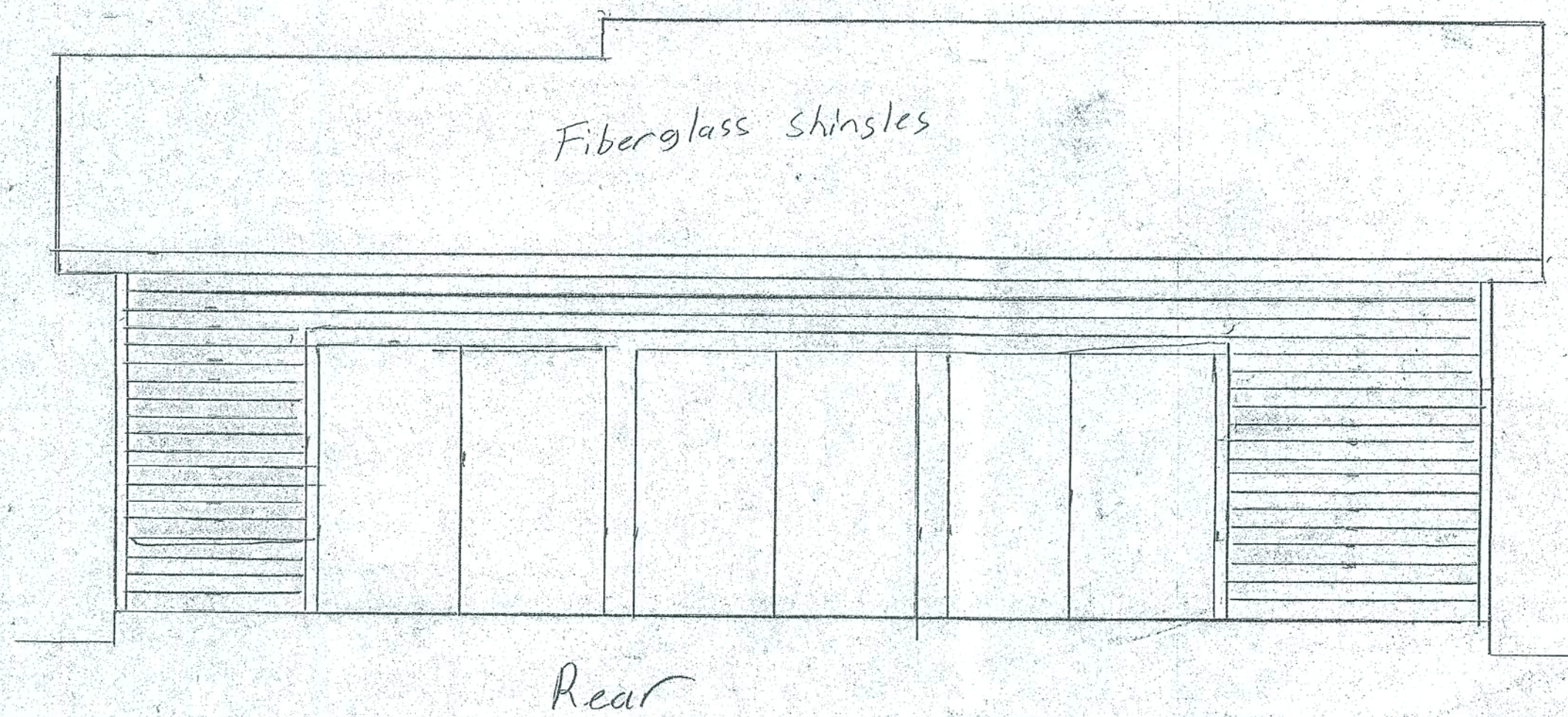
Strap Ea. Stud w-Simpson TA16
Strap Ea. Stud To Plate w/
Simpson SPH6

4" conc. Slab C see Found. Plan

Typical Wall Section
3/4" = 1'
03766-124

Bill + Pat Kimble

SCALE:	APPROVED BY:	DRAWN BY:
DATE:		REVISED:
		DRAWING NUMBER



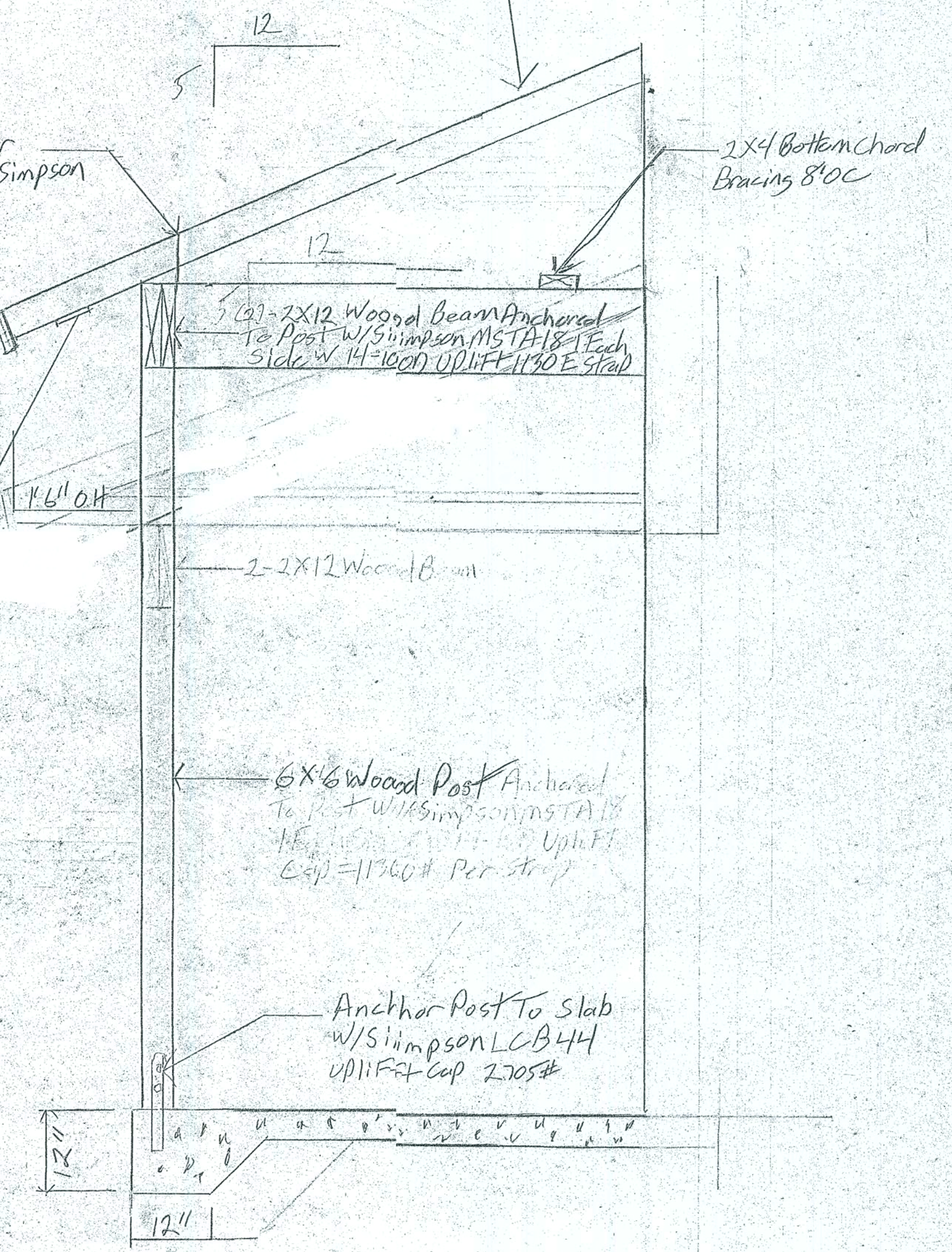
Bill + Pat Kimble		
SCALE:	APPROVED BY:	DRAWN BY:
DATE:		REVISED:
		DRAWING NUMBER

Asphalt Shingles ON Lapped 30lb Felt
Tin Tagged To 1 1/2 CDX Plywood

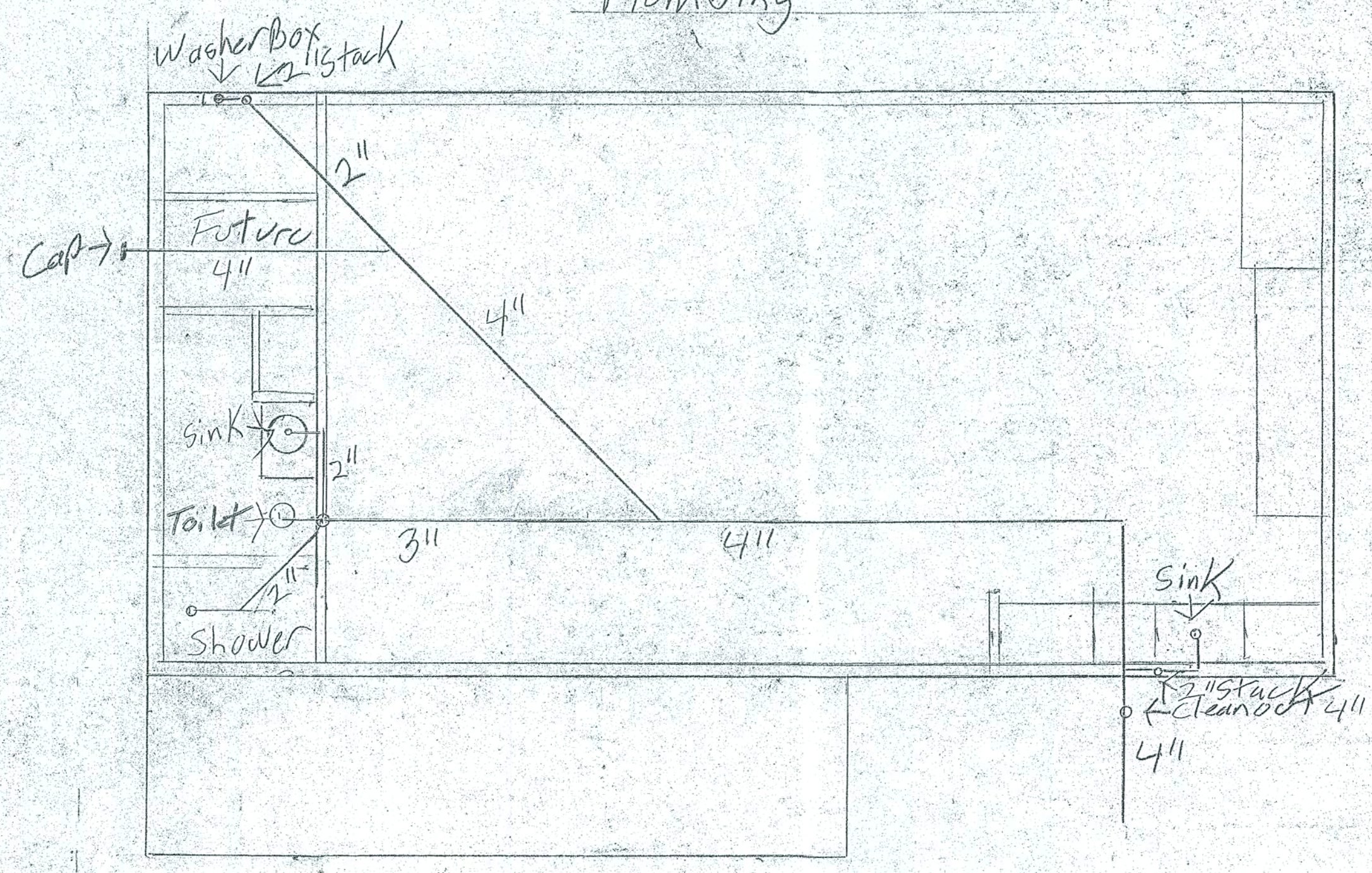
Galv Metal Anchor
Strap at Eek Truss w/Simpson
H105

Galv. MH Drip Edge
ON 1x2 ON 1x6 Facia

1x2 2.5 Screen
Vents at 8' OC

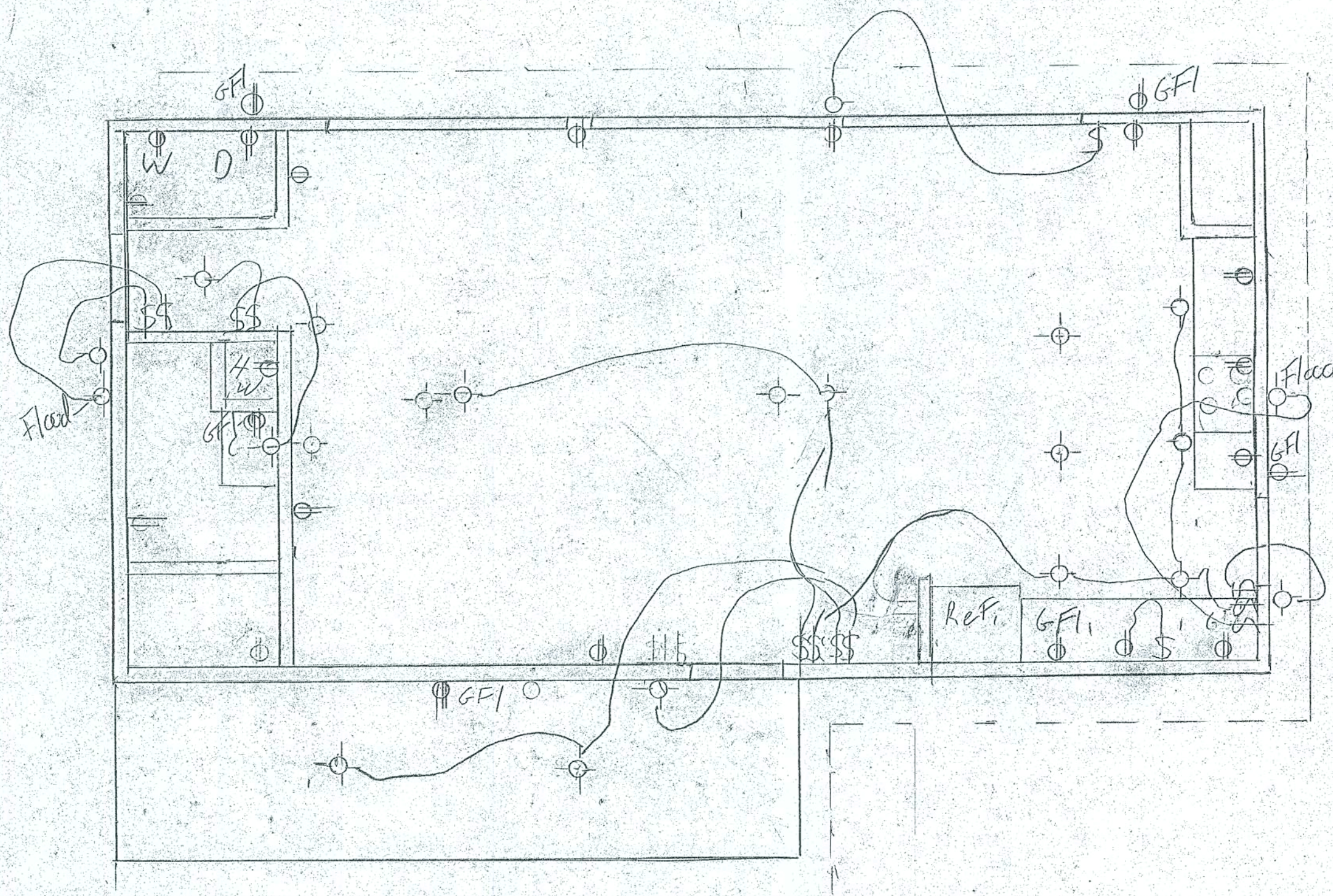


Plumbing

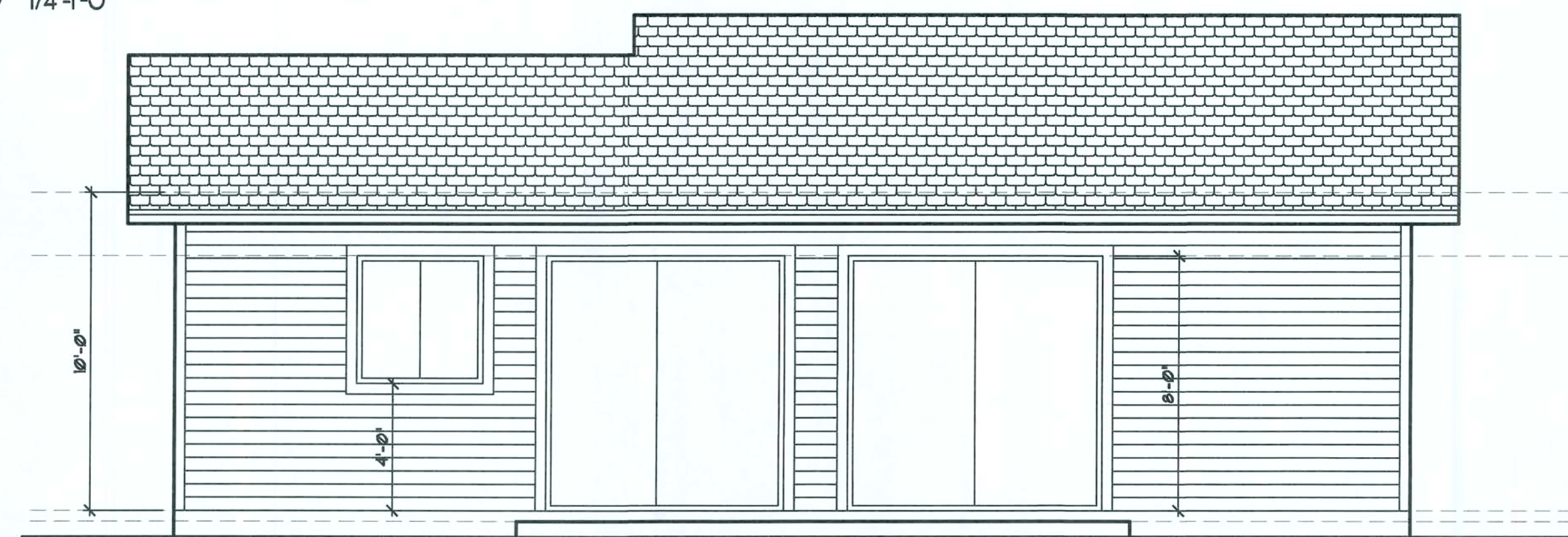


Bill + Pat Kimble		
SCALE: 1/4" = 1'	APPROVED BY:	DRAWN BY
DATE:		REVISED
		DRAWING NUMBER

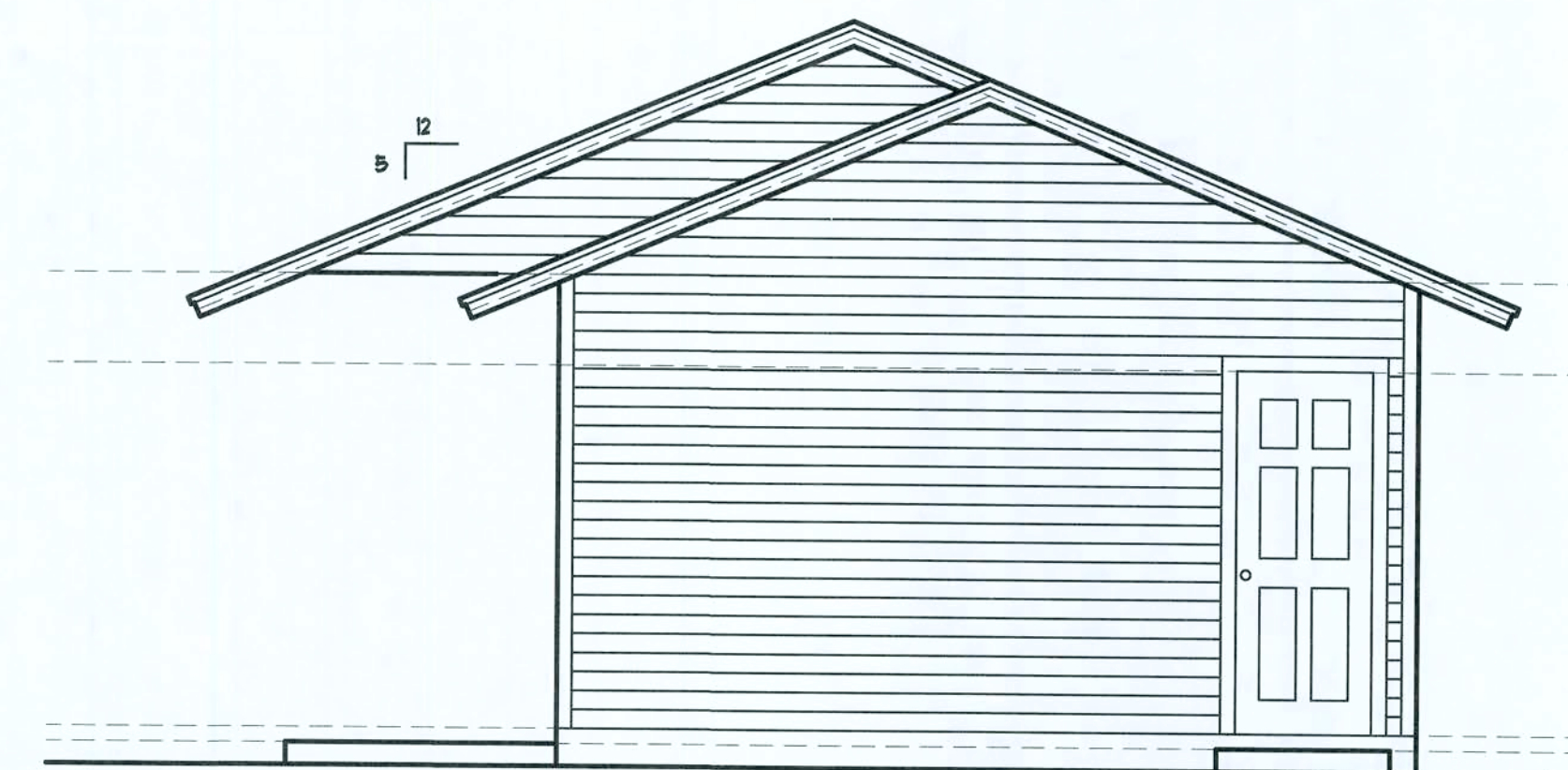
Buss Trip	Alt	Description	Pole	Trip #	#	Trip	Pole	Load Description	#	Buss Amp
	AL	#10 3/4	2	30	1	2	60	2	A H10 KW HTS #6 3/4	10,000
4500		Water Heater #10 3/4	2	30	5	6	30	2	Dryer #10 3/4"	5,000
8000		Range Hood #8 3/4	7	50	9	10	20	1	Wager #12 1/2"	1500
1500		Small Appliance #12 1/2	1	20	13	14	20	1	GFI's #12 1/2"	
1700		Diswasher GFI #12 1/2"	1	20	15	16	20	1	Bathroom #12 1/2"	
1200		Refrigerator #12 1/2"	1	20	17	18	20	1	Disposal GFI #12 1/2"	
		Living Room #14 1/2	1	15	19	20	20	1	McQuillan #12 1/2"	
		Lighting Fix #14 1/2	1	15	21					



SCALE: 1/4" = 1'	APPROVED BY:	DRAWN BY:
DATE:		REVISED:
		DRAWING NUMBER



REAR ELEVATION
1/4"=1'-0"



RIGHT SIDE ELEVATION
1/4"=1'-0"



LEFT SIDE ELEVATION
1/4"=1'-0"



PROVIDE RIDGE VENTS ON ALL RIDGES AND PERFORATED SOFFITS THROUGHOUT OVERHANG AREA.

DESIGN CODE NEC 2014

ALL KITCHEN COUNTER RECEPTACLES TO HAVE GFCI PROTECTION.

ALL DWELLING UNIT RECEPTACLE OUTLETS SHALL BE TAMPER RESISTANT.

ALL BRANCH CIRCUITS THAT SUPPLY 120-VOLT, SINGLE PHASE, 15 AND 20 AMPERE OUTLETS INSTALLED IN KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DEN'S, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS AND SIMILAR ROOMS OR AREAS SHALL BE AFCI PROTECTED.

PROVIDE SMOKE/CO2 ALARMS IN EACH BEDROOM AND ADJACENT HALLWAY. IF SUCH ALARMS ARE NOT EXISTING, THEN INSTALL THEM AS SHOWN ON THIS FLOOR PLAN.

A MINIMUM OF 15 PERCENT OF THE LAMPS IN PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL BE HIGH EFFICIENCY LAMPS OR A MINIMUM OF 15 PERCENT OF THE PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL CONTAIN ONLY HIGH EFFICIENCY LAMPS.

ELECTRICAL LEGEND

- 

INCANDESCENT LIGHT
- 

SCNCE
- 

REESSD LIGHT
- 

VAPOR PROOF RECESSED LIGHT
- 

SMDCE/CARBON MONOXIDE DETECTOR
- 

DULEX RECEPTACLE
- 

HIDDEN DUPLEX RECEPTACLE
- 

SWITCHED DUPLEX RECEPTACLE
- 

WATER PROOF RECEPTACLE W/ GROUND FAULT INDICATOR
- 

RECEPTACLE W/ GROUND FAULT INDICATOR
- 

230v. RECEPTACLE.
- 

SWITCH.
- 

TELEVISION OUTLET
- 

PHONE OUTLET
- 

POWER BUTTON
- 

CEILING FAN/LITE OUTLET
- 

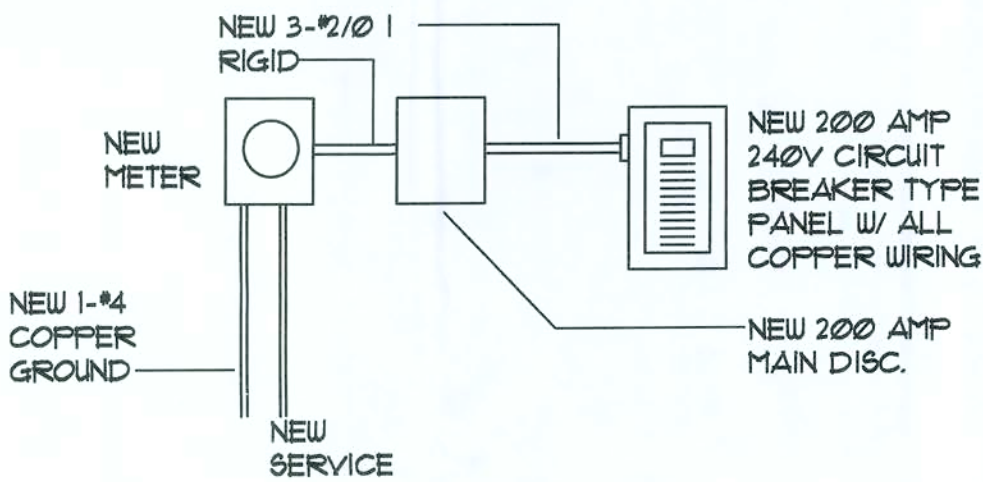
JUNCTION BOX
- 

EXHAUST FAN - vent to outside 50 cfm
- 

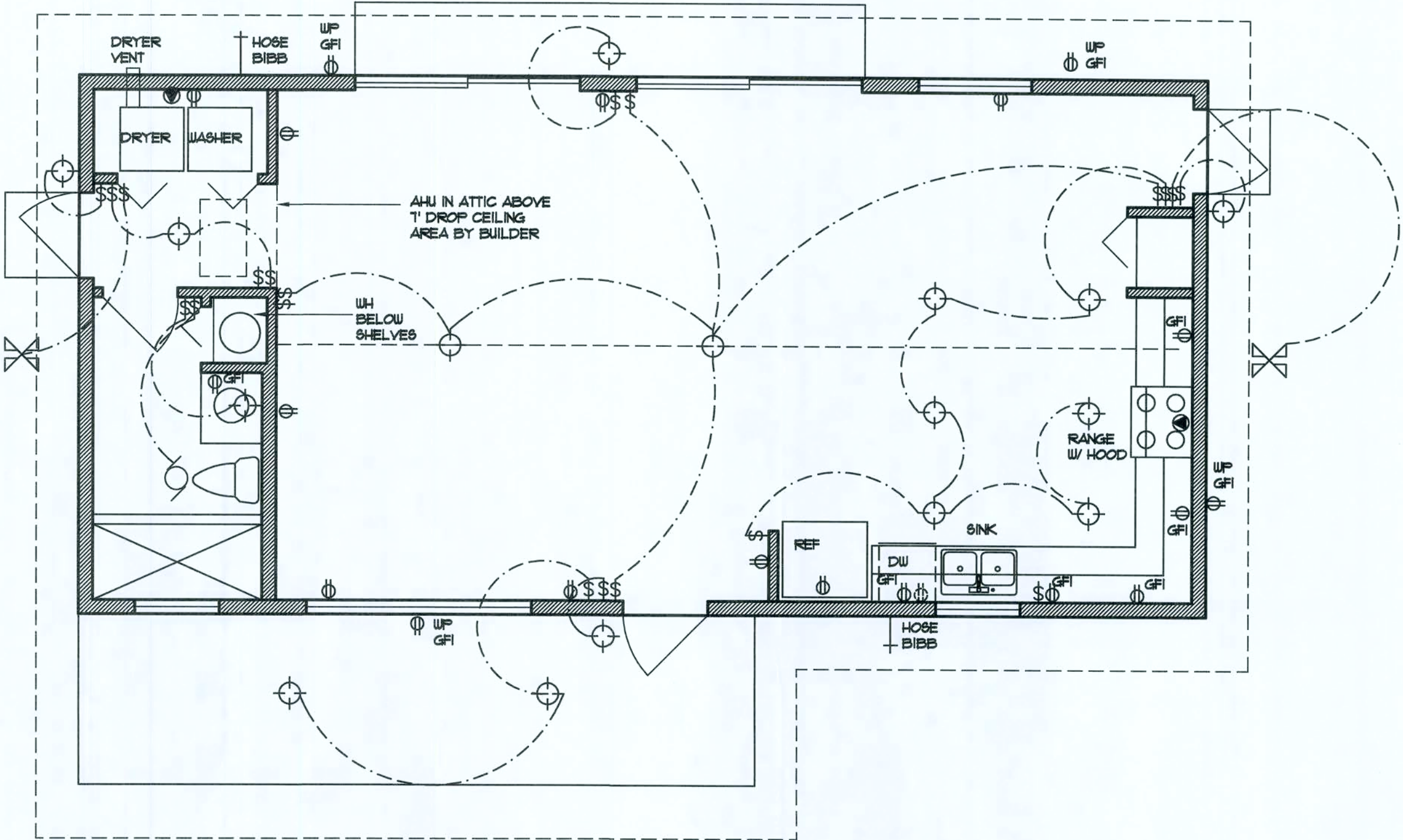
FLOOR OUTLET
- 

FLUORESCENT LIGHTING
- 

FLOOD



PANEL SCHEDULE											
CKT	DESCRIPTION	POLE/BKR	W/E	KVA	100%	90%	KVA	WIRE	POLE/BKR	DESCRIPTION	CKT
1	A/C	2P 30A	#12CU			10K		#6 CU	2P 60A	AHU (HEAT)	2
3											4
5	WATER HEATER	2P 30A	#12CU	4500			5000	#10 CU	2P 30A	DRYER	6
7											8
9	RANGE W/ HOOD	2P 50A	#12CU	8000			1500	#12 CU	1P 20A	WASHER	10
11							1500	#12 CU	1P 20A	GFI	12
13	APPLIANCE	1P 20A	#12CU	1500			1500	#14 CU	1P 15A	BEDROOM	14
15	DISHWASHER	1P 20A	#12CU	1500			1500	#12 CU	1P 20A	BATHROOM	16
17	REFRIGERATOR	1P 20A	#12CU	1500			1500	#12 CU	1P 20A	DISPOSAL	18
19	LIVING ROOM	1P 15A	#14CU	1500			1500	#12 CU	1P 20A	MICROWAVE	20
21	EXTERIOR LIGHTING	1P 15A	#14CU	1500							22
23											24
25											26
27											28
29											30
SUBTOTAL				20000			10K	23425	SUBTOTAL		
1ST 10K @ 100%		43425		10000							
@ 40%		33425		13370							
HEAT AT 100%		10K		10000							
TOTAL WATTS				33370							
WATTS / 240V = AMPS				139 AMPS							
GENERAL LIGHTING=3x		SQUARE FT		GL VA							
		904		22							



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

Revisions
No. Date:

CATHY CLARKE
DRAFTING

3310 NW 28TH PLACE
GAINESVILLE, FLORIDA
352-338-2889
CATHYCLAR@aol.com

WINDLOAD DESIGN BY
DRISCOLL ENGINEERING

GAINESVILLE, FLORIDA

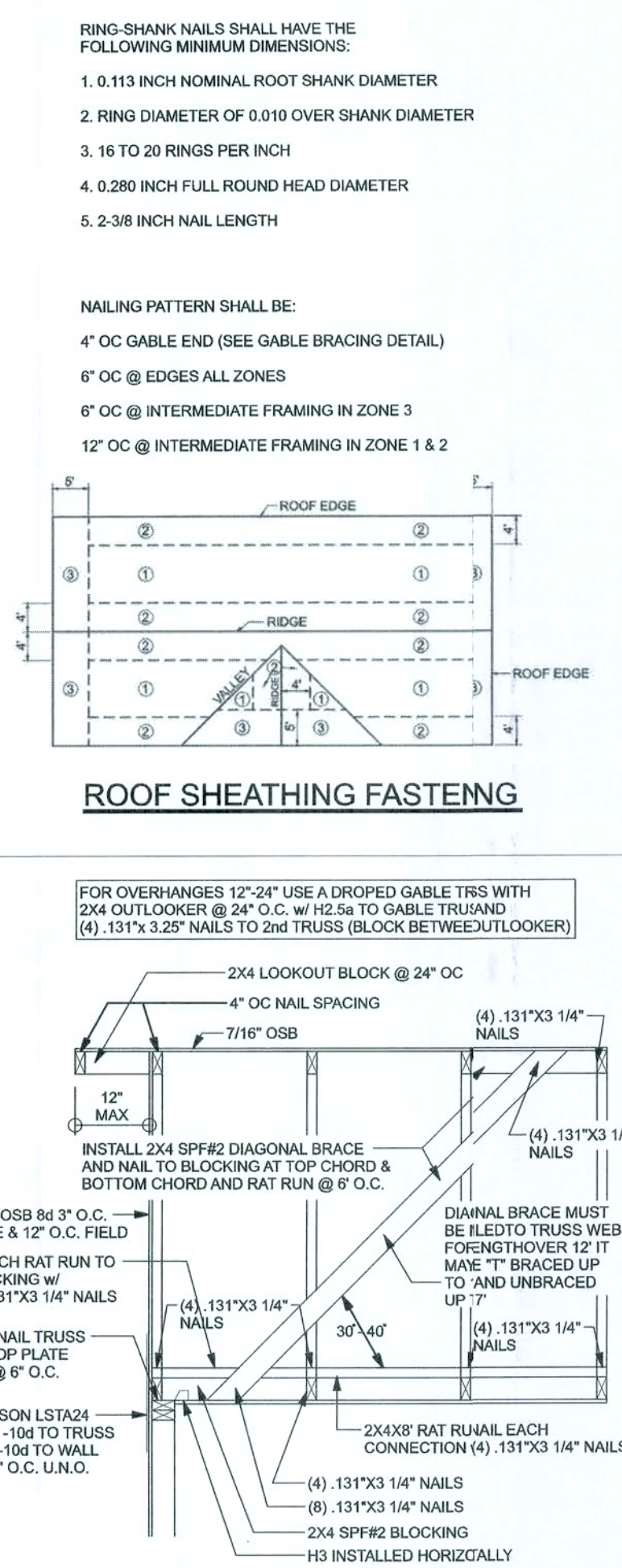
A NEW RESIDENCE FOR
BILL & PAT KIMBLE

319 SW CHIPPEWA GLN
FT. WHITE, FLORIDA

Drawn: CC
Checked: CC
Dat: 10/17/18

Sheet No.

E-1

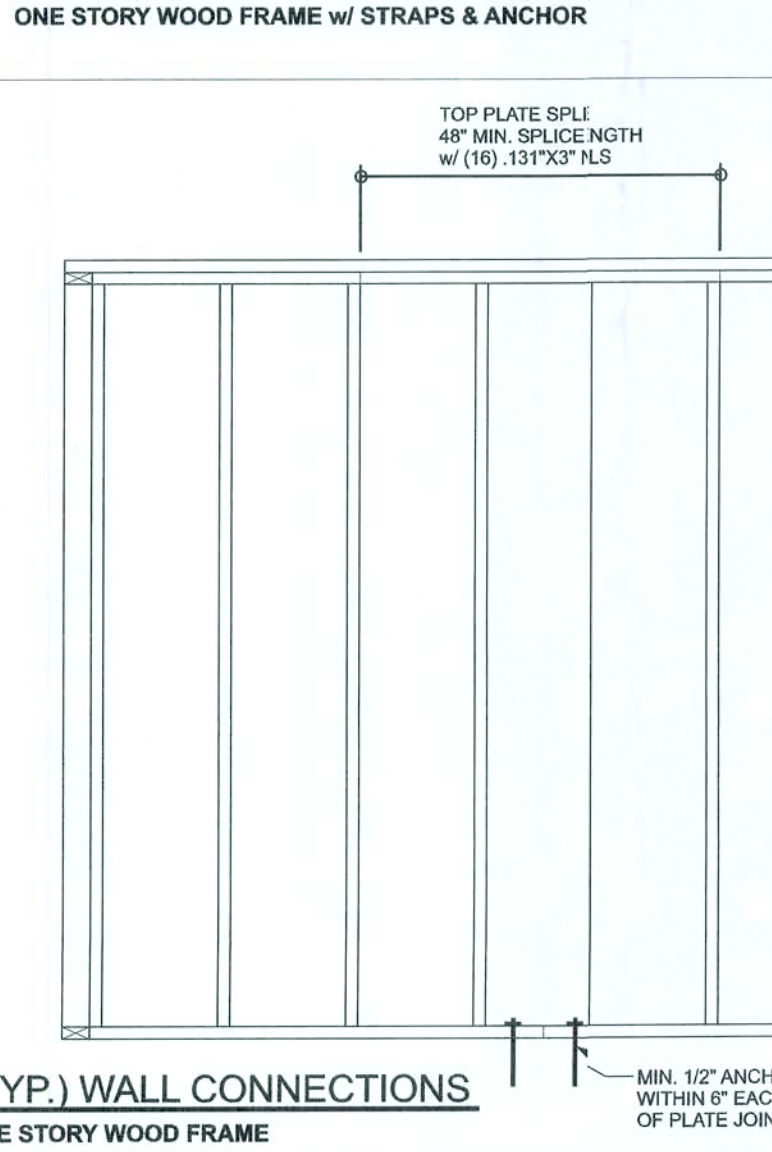
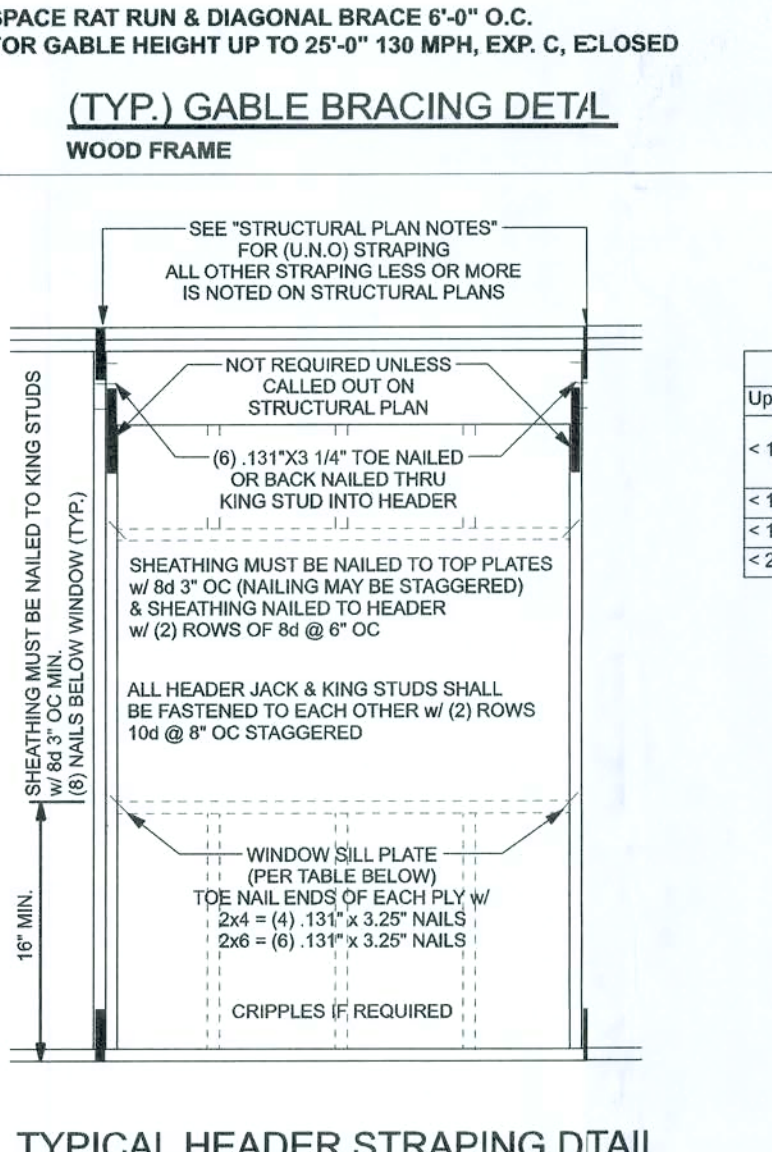


EXTERIOR WALL STUD TABLE FOR SPF #2 STUDS:

THIS STUD HEIGHT TABLE IS PER 2012 WFCM, TABLE 3.20B5, EXTERIOR LOAD BEARING & NON LOAD BEARING STUD LENGTHS FOR WALLS WITH OSB EXTERIOR AND 1/2" GYP INTERIOR RESISTING INTERIOR ZONE WINDLOADS, 130 MPH, EXPOSURE C, STUD DEFLECTION LIMIT H/240 (NOT OK FOR BRITTLE FINISH). STUD SPACINGS SHALL BE MULTIPLIED BY 0.8 FOR FRAMING LOCATED WITHIN 4 FEET OF CORNERS FOR END ZONE LOADING (END ZONE EXAMPLE 16" O.C. x 9.8 x 12.8" O.C.)

(1) 2x4 @ 16" OC	TO 10'-1" STUD HEIGHT
(1) 2x4 @ 12" OC	TO 11'-2" STUD HEIGHT
(1) 2x6 @ 16" OC	TO 15'-7" STUD HEIGHT
(1) 2x6 @ 12" OC	TO 17'-3" STUD HEIGHT

GRADE & SPECIES TABLE		
	Fb	E
2x8	SP #2	925 1.4
2x10	SP #2	800 1.4
2x12	SP #2	750 1.4
GLB	24F-V3 SP	2600 1.9
LSL	TIMBERSTRAND	1700 1.7
LVL	MICROLAM	2950 2.0
PSL	PARALAM	2900 2.0



ATE HEIGHT
HORIZONTALLY

(2) 2X 8PF #2 TOP PLAT
NAILED TOGETHER w/
:131°3° NAILS @ 8" OC
STAGGERED

STUD PACK
UNDER POINT LOAD
NAIL EACH FLY
w/ :131°X3 22° NAILS
@ 8" OC STAGGERED

BUILDING CODE	6TH EDITION FLORIDA BUILDING CODE RESIDENTIAL (2017)
CODE FOR DESIGN LOADS	ASCE 7-10
WIND LOADS	
BASIC WIND SPEED (ASCE 7-10, 3S GUST)	130 MPH
WIND EXPOSURE (BUILDER MUST FIELD VERIFY)	C
TOPOGRAPHIC FACTOR (BUILDER MUST FIELD VERIFY)	I
RISK CATEGORY	II
ENCLOSURE CLASSIFICATION	ENCLOSED
INTERNAL PRESSURE COEFFICIENT	0.18
ROOF ANGLE	7.45 DEGREES
MEAN ROOF HEIGHT	30 FT
C&D DESIGN PRESSURES	SEE TABLE
FLOOR LOADING	
ROOMS OTHER THAN SLEEPING ROOM	40 PSF LIVE LOAD
SLEEPING ROOMS	30 PSF LIVE LOAD
ROOF LOADING	
FLAT OR < 12°	20 PSF LIVE LOAD
4:12 to < 12:12	16 PSF LIVE LOAD
12:12 to GREATER	12 PSF LIVE LOAD
SOIL BEARING CAPACITY	1500 PSF
FLOOD ZONE	THIS BUILDING IS NOT IN THE FLOOD ZONE

COMPONENT & CLADING DESIGN PRESSURES 130 MPH (EXP C)				
EFFECTIVE WIND AREA (Ft2)	ZONE 1 INTERIOR	ZONE 5 END 4' FROM ALL OUTSIDE CORNER	ZONE 5 END 4' FROM ALL OUTSIDE CORNER	ZONE 5 END 4' FROM ALL OUTSIDE CORNER
0 - 20	+25.6 (Vsnd)	-27.8 (Vnsd)	+25.6 (Vsnd)	-34.2 (Vnsd)
0 - 20	+42.0 (Vult)	-46.2 (Vult)	+42.0 (Vult)	-57 (Vult)

Bill & Pat Kimble Res. PROJECT ADDRESS: 316 SW Chippewa Gin Ft. White, Florida	
DIMENSIONS: Stated dimensions/supercede scaled dimensions. Refer all questions to Mark Dicosway, P.E. for resolution. Do not proceed without clarification. COPYRIGHTS AND ANY PROPERTY RIGHTS: Mark Dicosway, P.E. hereby expressly reserves its common law copyrights and property right in these instruments & service. This document is not to be reproduced, altered or copied in any form or manner without first the express written permission and consent of Mark Dicosway. CERTIFICATION: hereby certify that I have examined this plan and that the applicable portions of the plan relating to wind engineering comply with the REB Edition Florida Building Code Residential (2017) to the best of my knowledge. LIMITATION: This design is valid for one building, at specified location. MARK DICOSWAY P.E. 53915  Friday, October 5, 2018	
Mark Dicosway P.E. 163 SW Midtown Place Suite 103 Lake City, Florida 32025 386754.5419 disoswaydesign@gmail.com	
JOB NUMBER: 8111 S-1	

TALL STEM WALL TABLE:
The table assumes 60 ksi reinforcing bars with 6" hook in the footing and bent 24" into the reinforced slab at top. The vertical steel is to be placed toward the tension side of the CMU wall (away from the soil pressure, within 2" of the exterior side of the wall). If the wall is over 8' high, add diaphragm ladder reinforcement at 16" OC vertically or a horizontal bond beam with 1#5 continuous at mid-height. For higher parts of the wall 12" CMU may be used with reinforcement shown in the table below.

STEM WALL HEIGHT (FEET)	UNBANCED BAFILL HEIGHT	VERTICAL REINFORCEMENT FOR 8" CMU STEM WALL (INCHES O.C.)			VERTICAL REINFORCEMENT FOR 12" CMU STEM WALL (INCHES O.C.)		
		#5	#7	#8	#5	#7	#8
3.3	0	96	96	96	96	96	96
4.0	7	96	96	96	96	96	96
4.7	3	88	96	96	96	96	96
5.3	0	56	96	96	96	96	96
6.0	7	40	80	96	80	96	96
6.7	3	32	56	80	56	96	96
7.3	0	24	40	56	40	80	96
8.0	7	16	32	48	32	64	80
8.7	3	8	24	32	24	48	64
9.3	0	8	16	24	16	40	48

MASONRY NOTE:
MASONRY CONSTRUCTION AND MATERIALS FOR THIS PROJECT SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATION FOR MASONRY STRUCTURES" (ACI 530.1/ASCE 6/TMS 602). THE CONTRACTOR AND MASON MUST IMMEDIATELY, BEFORE PROCEEDING, NOTIFY THE ENGINEER OF ANY CONFLICTS BETWEEN ACI 530.1-02 AND THESE DESIGN DRAWINGS. ANY EXCEPTIONS TO ACI 530.1-02 MUST BE APPROVED BY THE ENGINEER IN WRITING.

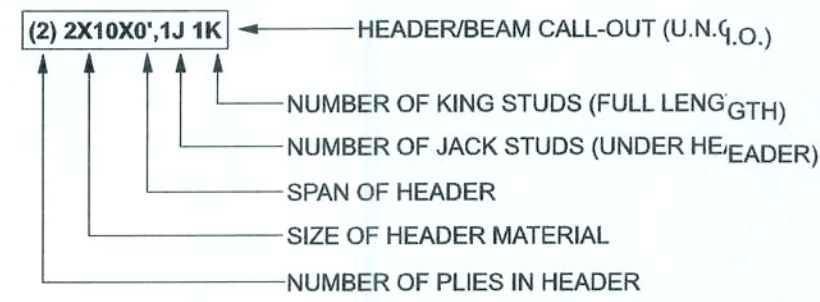
#30.1-02 Section	Specific Requirements
1.4A Compressive strength	8" block bearing walls F'm = 1500 psi
2.1 Mortar	ASTM C 270, Type N, UNO
2.2 Grout	ASTM C 476, admixtures require approval
2.3 Joint standard	ASTM C 90-02, Normal weight, hollow, medium surface finish, 8"x8"x16" running bond and 12"x12" or 16"x16" column block
2.3 Joint brick standard	ASTM C 216-02, Grade SW, Type FBS, 5.9"x2.75"x11.5"
2.4 Reinforcing bars, #3 - #11	ASTM 615, Grade 40, Fy = 40 ksi, Lap splices min 40 bar dia, (25" for #5)
2.4F Cling for corrosion protection	Anchors, sheet metal ties completely embedded in mortar or grout, ASTM A525, Class G60, 0.60 oz/lb2 or 304SS
2.4F Cling for corrosion protection	Joint reinforcement in walls exposed to moisture or wet soils, sheet metal ties not completely embedded in mortar or grout, ASTM A153, Class B2, 1.50 oz/lb2 or 304SS
3.3.E.2 Pits, conduits, and accessories	Any not shown on the project drawings require engineering approval.
3.3.E.7 Movement joints	Contractor assumes responsibility for type and location of movement joints if not detailed on project drawings.

BOTTOM OF EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 12" BELOW UNDISTURBED SOIL OR ENGINEERED FILL PER FC 2017-RES. SECTION R403.1.4

STRUCTURAL PLAN NOTES

- SN-1 ALL LOABEARING FRAME WALL & PORCH HEADERS SHALL BE A MINIMUM OF (2) 2X8 SP #2 (U.N.O.)
- SN-2 ALL LOABEARING FRAME WALL HEADERS SHALL HAVE (1) JACK STUD & (1) KING STUD EACH SIDE (U.N.O.)
- SN-3 ALL HEARS w/ UPLIFT TO BE STRAPPED DOWN @ EACH SIDE WITH (1) 1/2" X 14-10d @ TOP & BOTTOM OF WALL WRAP UNDER BOTTOM PLATE & OVER TOP PLATE 1/2" X 10" ANCHOR BOLT w/ 3" X 3" X 1/4" WASHER MUST BE LOCATED WITHIN 6" OF KING STUD @ ALL DOOR LOCATIONS (U.N.O.)
- SN-4 USE ONE EACH STUD GIRDER SUPPORT PER 2500 LB LOAD
- SN-5 DIMENSIONS ON STRUCTURAL SHEETS ARE NOT EXACT. REFER TO ARCHITECTURAL FLOOR PLAN FOR ACTUAL DIMENSIONS
- SN-6 PERMANENT TRUSS BRACING IS TO BE INSTALLED AT LOCATIONS AS SHOWN ON THE SEALED TRUSS DRAWINGS. LATERAL BRACING IS TO BE RESTRAINED PER BCS1-03. BCS1-B1, BCS1-B2, & BCS1-B3. BCS1-B1, BCS1-B2, & BCS1-B3 ARE FURNISHED BY THE TRUSS SUPPLIER, WITH THE SEALED TRUSS PACKAGE

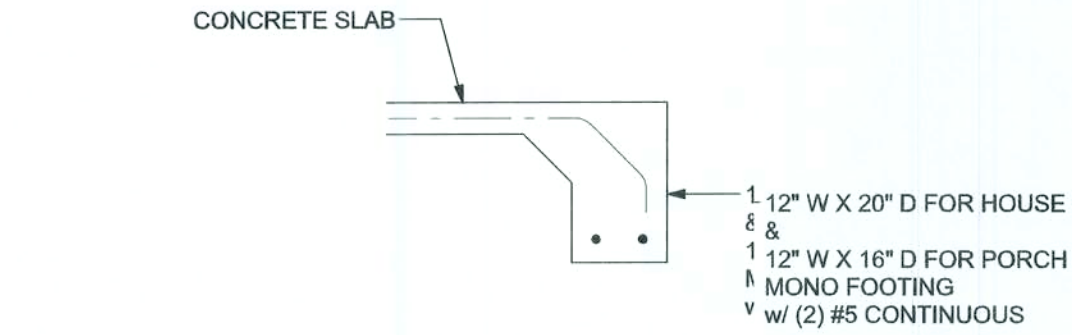
HEADER LEGEND



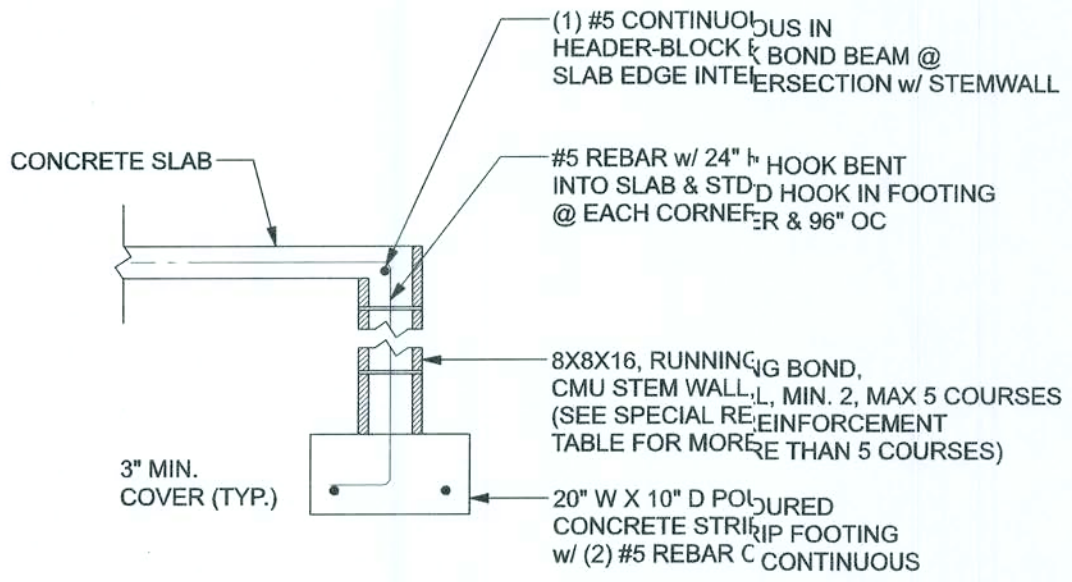
ACTUAL vs REQUIRED SHEARWALL

	TRANSVERSE	LONGITUDINAL
ACTUAL	12078 LBF	11880 LBF
REQUIRED	11128 LBF	7278 LBF

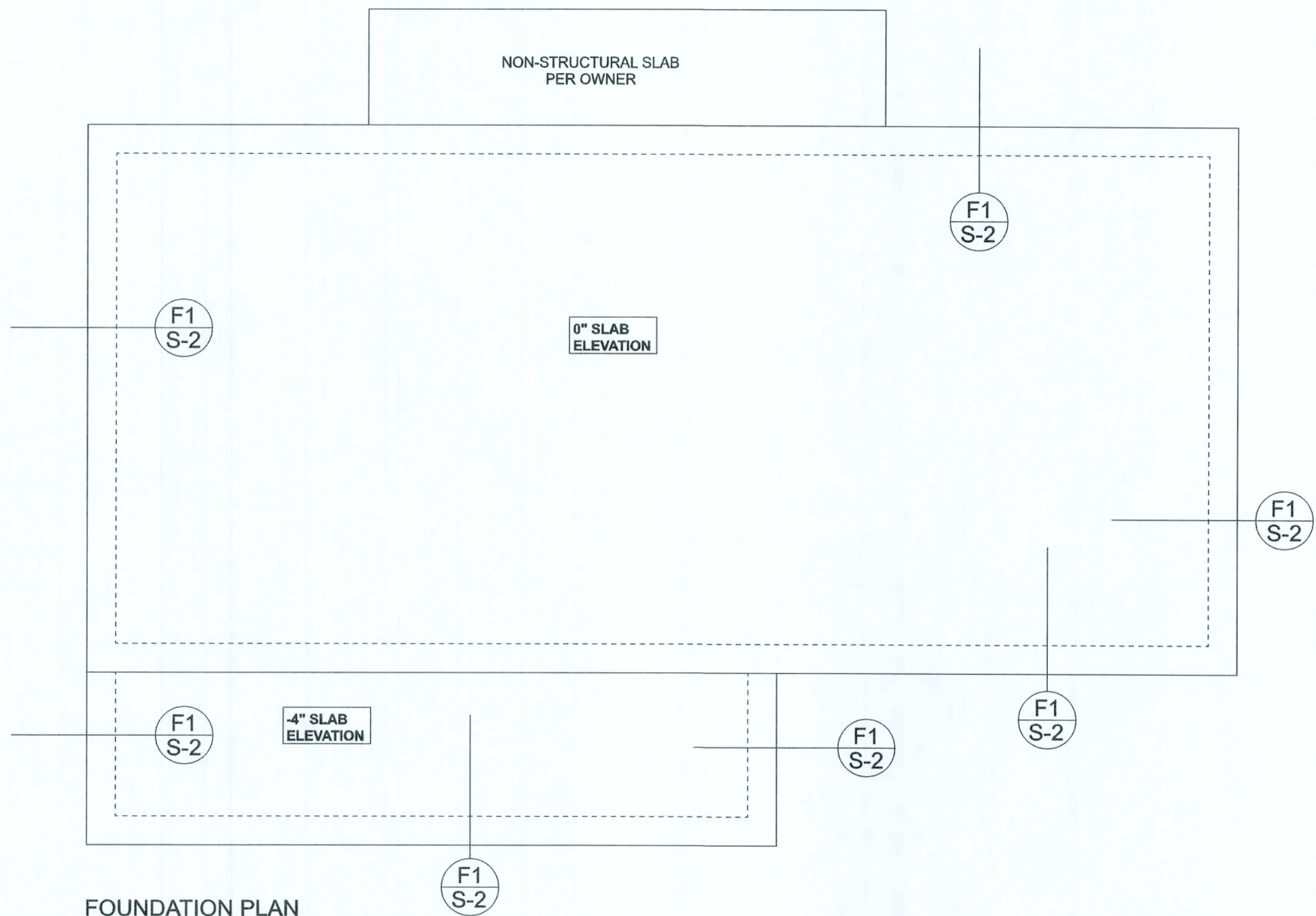
CONNECTIONS, WALL, & HEADER DESIGN IS BASED ON TRUSS LAYOUT SHOWN w/ 20 PSF DEAD LOAD, 16 PSF LIVE LOAD, -18 PSF NET UPLIFT. BUILDER TO VERIFY WITH SEALED TRUSS ENGINEERING.



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



OPTIONAL STEM WALL FOOTING
SCALE: 1/2" = 1'-0"



FOUNDATION PLAN

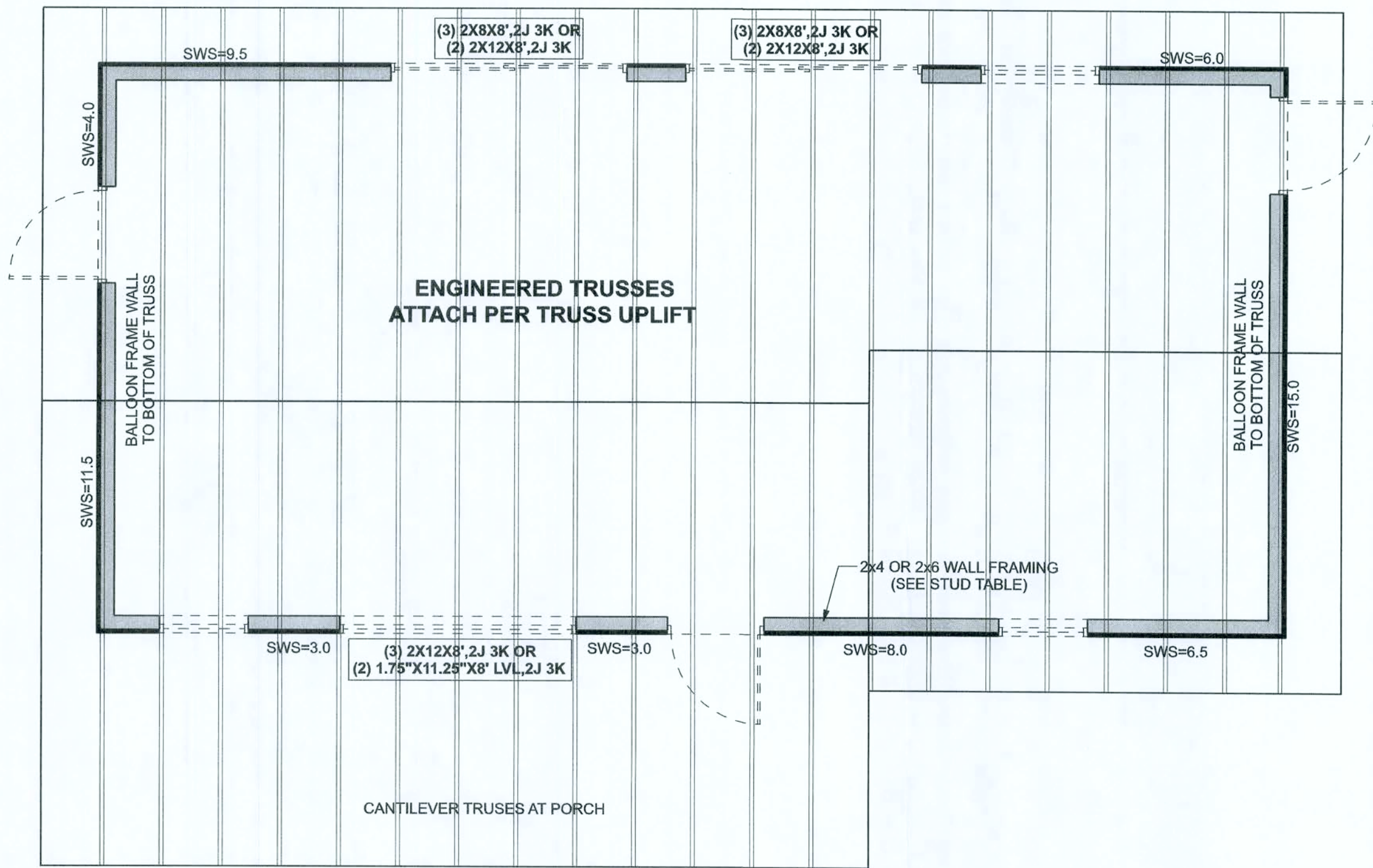
SCALE: 1/4" = 1'-0"

FOUNDATION NOTES

FN - 1 DIMENSIONS ON FOUNDATION & STRUCTURAL SHEETS ARE NOT EXACT. REFER TO ARCHITECTURAL PLANS FOR ACTUAL DIMENSIONS, RECESSES IN SLAB, STEP DOWNS, ETC. DISOWAY DESIGN GROUP OR MARK DISOWAY, PE IS NOT RESPONSIBLE FOR DIMENSION ERRORS ON THIS PLAN.

FN - 2 CONTRACTOR SHALL VERIFY NEED FOR INTERIOR BEARING IN ALL AREAS BY REVIEWING THE ROOF TRUSS PLAN (BY THE SUPPLIER) BEFORE FINALIZING FOUNDATION PLAN.

FN - 3 THE SLAB SHALL BE 4" CONCRETE SLAB REINFORCED w/ 6X6-14/14 WELDED WIRE MESH PLACED ON CHAIRS @ 1 1/2" DEPTH OR FIBER MESH CONCRETE, 6-MIL POLY VAPOR BARRIER w/ 6" LAPS SEALED w/ POLY TAPE OVER TERMITE-TREATED & COMPACTED FILL (ALSO, ANY OTHER CODE APPROVED TERMITE TREATMENT METHOD CAN BE USED INSTEAD).



STRUCTURAL PLAN

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

Bill & Pat Kimble Res.

PROJECT ADDRESS:
315 SW Chippewa Glen
FT. WORTH, TEXAS

DIMENSIONS:
Stated dimensions supersede scaled dimensions. Refer all questions to Mark Disoway, P.E. for clarification. Do not proceed without clarification.

COPYRIGHTS AND PROPERTY RIGHTS:
Mark Disoway, P.E. hereby expressly reserves its common law copyright and property right in these instruments of service. This document is not to be reproduced, altered or copied in any form or manner without the express written permission and consent of Mark Disoway.

CERTIFICATION: I hereby certify that I have examined this plan, and that the applicable portions of the plan, relating to civil engineering, comply with the 6th Edition Florida Building Code Residential (2017) to the best of my knowledge.

LIMITATION: This design is valid for one building, at specified location.

MARK DISOWAY P.E. 53915



Mark Disoway P.E.
163 SW Miltown Place
Suite 103
Lake City, Florida 32025
386.774.5419
disowaydesign@gmail.com

JOB NUMBER:
81111

S-2
OF 2 SHEETS