

DESCRIPTION:
LEFT/RIGHT ELEVATIONS

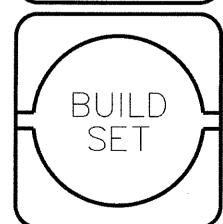
MODEL:

FOX HILL

DATE:

 $\frac{1}{24/21}$ 

ARCHITECT IS NOT RESPONSIBLE FOR THE STRUCTURAL ELEMENTS OF THESE PLANS. A STRUCTURAL ENGINEER MAY NEED TO VERIFY ALL STRUCTURAL ASPECTS OF THESE PRINTS BEFORE CONSTRUCTION BEGINS. FIELD CONDITIONS MAY BE DIFFERENT FROM PLAN. ALL STATE AND LOCAL CODES TAKE PRECIDENCE OVER THESE PLANS. CONTRACTOR WILL BE RESPONSIBLE FOR PLAN INTEGRITY AND CODE COMPLIANCE



LSMO SVF 65 3106 SW BLUE RIBBON ST.

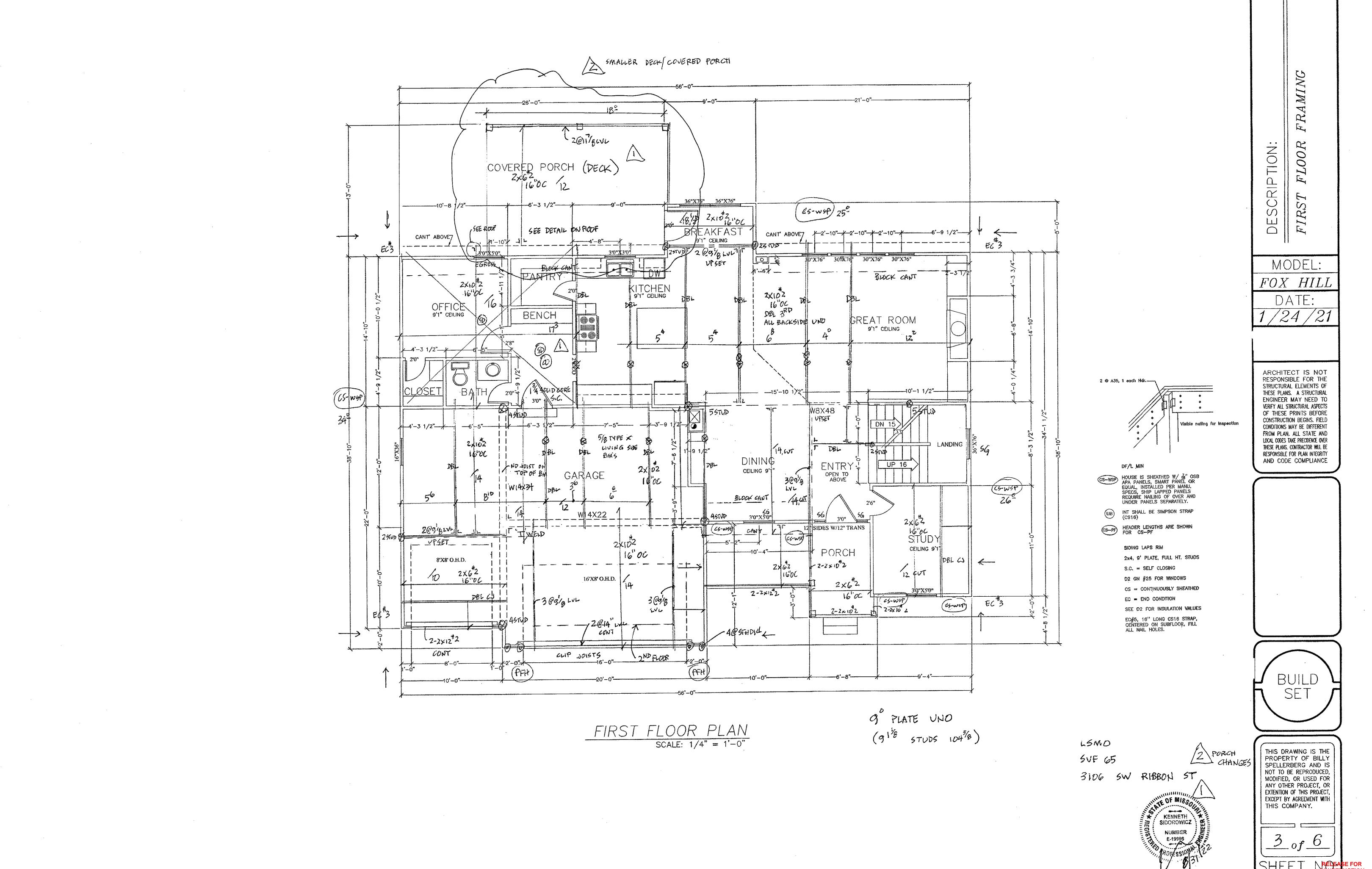


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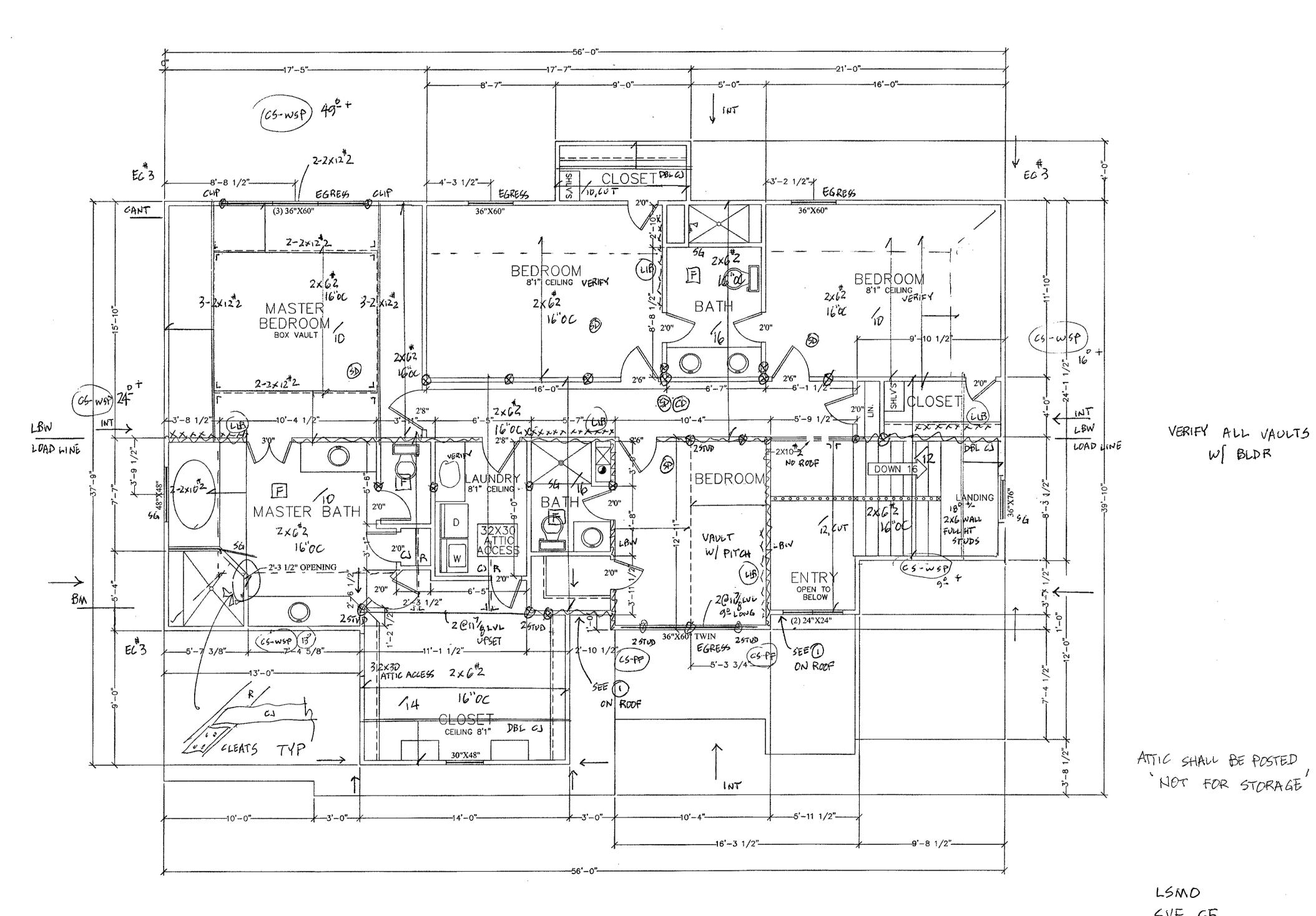
 $2_{of}6$ 

SHEET N RELEASE FOR CONSTRUCTION

OTED ON PLANS REVI Development Services



SONSTRUCTION
AS NOTED ON PLANS REV
Development Services



SECOND FLOOR PLAN

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

FLOOR FRAMING FRAMING PLAN DESCRIPTION: SECOND ROOF

MODEL: FOX HILL DATE:

ARCHITECT IS NOT RESPONSIBLE FOR THE STRUCTURAL ELEMENTS OF THESE PLANS. A STRUCTURAL ENGINEER MAY NEED TO VERIFY ALL STRUCTURAL ASPECTS OF THESE PRINTS REFORE OF THESE PRINTS BEFORE CONSTRUCTION BEGINS. FIELD
CONDITIONS MAY BE DIFFERENT
FROM PLAN. ALL STATE AND
LOCAL CODES TAKE PRECIDENCE OVER THESE PLANS. CONTRACTOR WILL BE RESPONSIBLE FOR PLAN INTEGRITY AND CODE COMPLIANCE

ATTIC SHALL BE POSTED NOT FOR STORAGE

BUILD SET

SVF 65

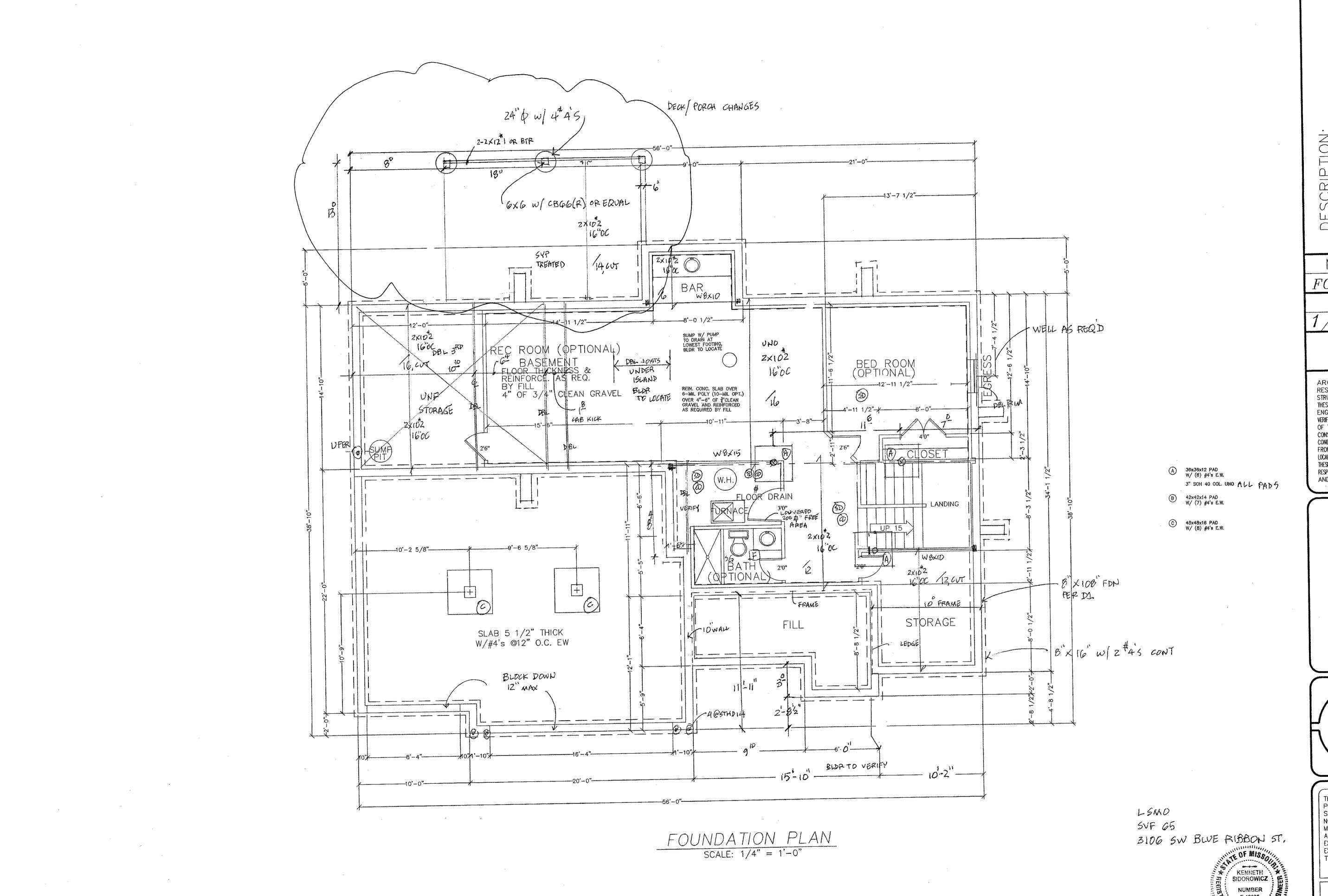
8° PLATE (818) UNO

2X4 STUDS FULL HT (925/8)

3106 SW BLUE RIBBON ST.

KENNETH SIDOROWICZ

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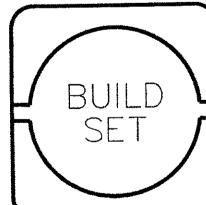
DESCRIPTION: FOUNDATION

MODEL:

FOX HILL

DATE: 1/24/21

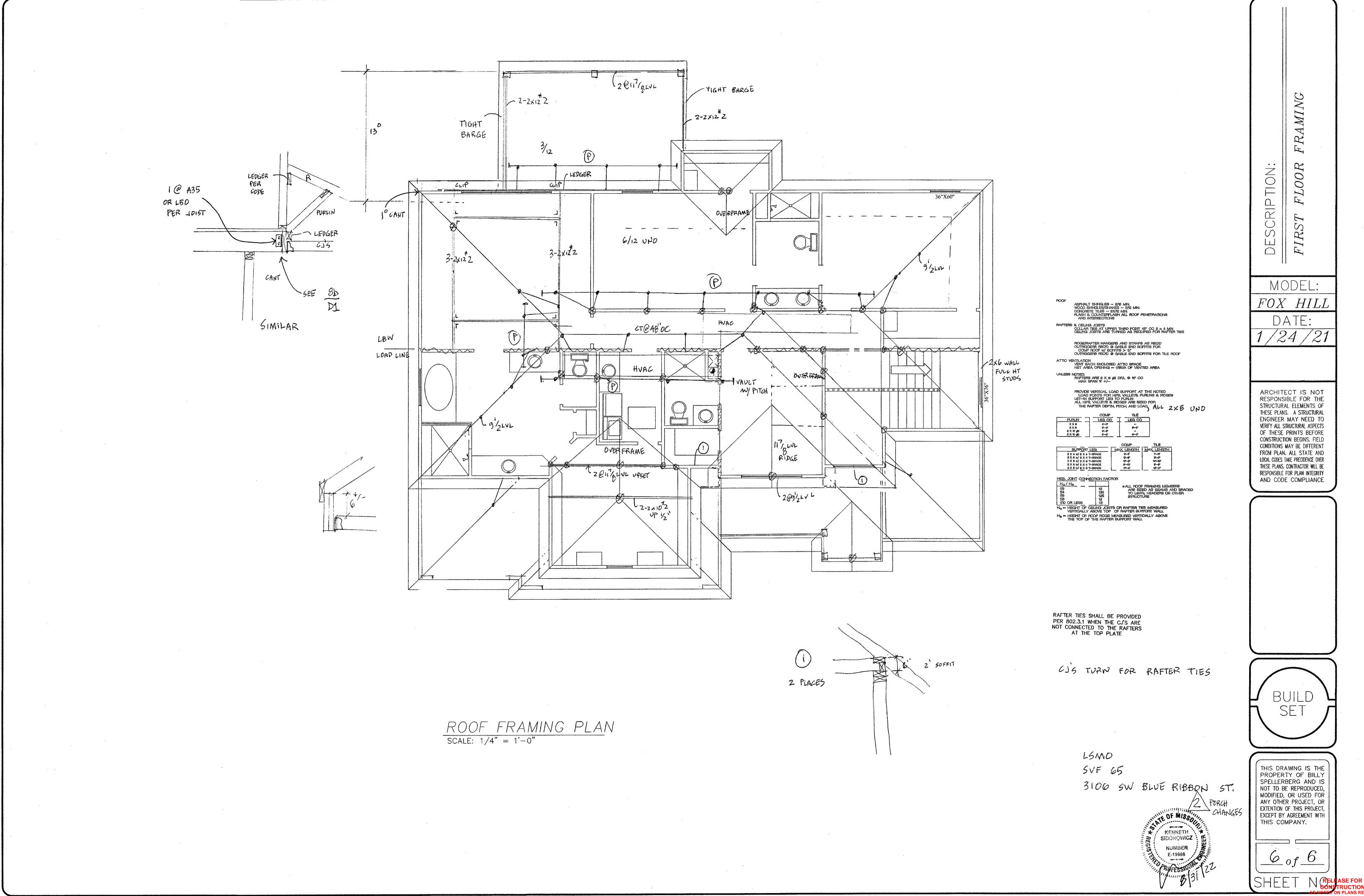
ARCHITECT IS NOT RESPONSIBLE FOR THE STRUCTURAL ELEMENTS OF THESE PLANS. A STRUCTURAL ENGINEER MAY NEED TO VERIFY ALL STRUCTURAL ASPECTS OF THESE PRINTS BEFORE CONSTRUCTION BEGINS. FIELD CONDITIONS MAY BE DIFFERENT FROM PLAN. ALL STATE AND LOCAL CODES TAKE PRECIDENCE OVER THESE PLANS. CONTRACTOR WILL BE RESPONSIBLE FOR PLAN INTEGRITY AND CODE COMPLIANCE.



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CONSTRUCTION
AS NOTED ON PLANS REVI
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### \_SEE TABLE, (0/10 TRUSSES) 5. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, OBTAIN CLARIFICATION FROM A / E BEFORE CONTINUING (AIR-ENTRAINED CONCRETE) 6. THE CONTRACTOR SHALL EXAMINE ACTUAL JOB CONDITIONS AND BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE PLANS. IF ERRORS, OMISSIONS, OR DISCREPANCIES ARE FOUND THEY SHALL BE REPORTED TO THE DESIGN PROFESSIONAL BEFORE PROCEEDING WITH THE WORK. 7. DIMENSIONS FOR NEW CONSTRUCTION ARE TO FACE OF FINISH OR COLUMNS AND FACE OF CONCRETE, WOOD, OR MASONRY WALLS UNLESS OTHERWISE INDICATED. DIMENSIONS INDICATE NOMINAL 8. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL TRADES EVEN IF THE TRADE IS UNDER A SEPARATE CONTRACT. 9. PROVIDE SUFFICIENT STUDS AND BLOCKING WHERE REQUIRED TO SUPPORT EQUIPMENT AND/OR MISCELLANEOUS ITEMS, I.E., LOAD POINTS, TYPICAL CASEWORK, CABINETS, GRAB BARS ETC. 10. PRETREAT FOUNDATION FOR TERMITES AS REQUIRED. 11. GARAGE DOORS AND FRAMES SHALL BE DESIGNED AND INSTALLED TO MEET THE 115 MPH WIND LOAD RESISTANCE REQUIREMENTS OF 12. ALL EXTERIOR DOORS, INCLUDING THE DOOR LEADING FROM THE GARAGE TO THE DWELLING UNIT, SHALL INCORPORATE THE PHYSICAL SECURITY PROVISIONS OF THE JURISDICTION IN WHICH 2. ALL FOOTINGS ARE DESIGNED TO BEAR ON NATURAL UNDISTURBED SOIL CAPABLE OF ADEQUATELY SUSTAINING A MINIMUM BEARING PRESSURE OF 1,500 PSF. IF SUITABLE UNDISTURBED BEARING CAPACITY IS NOT ENCOUNTERED AT THE ELEVATION INDICATED ON THE DRAWINGS, CONTRACTOR SHALL NOTIFY THE ENGINEER OF 3. ALL TOPSOIL, ORGANIC MATERIAL, AND EXISTING STRUCTURES SHALL BE REMOVED FROM BUILDING AREA AND FROM AREAS TO 4. REFERENCE THE SOILS REPORT FOR ALL FILL CONDITIONS. 5. OVEREXCAVATE BUILDING AREA BELOW SLAB SUBGRADE ELEVATION AND REPLACE WITH MATERIAL PER SOILS REPORT, 6. SITE EROSION CONTROL SHALL COMPLY WITH ALL STATE AND 7. IN-SITU SOIL CONDITIONS, SEE SOILS REPORT OR 1,500 PSF BEARING 8. SOIL CONDITIONS AT THE DEPTH OF EXCAVATION FOR THE FOOTING SHALL BE UNIFORM AND CONSISTENT. NOTIFY THE 9. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND AS REQUIRED FOR PROTECTION FROM RAIN AND OTHER POSSIBLE DISPOSING OF ANY EXCESS EXCAVATION MATERIALS AND FOR OBTAINING AND SUPPLYING ADDITIONAL FILL MATERIAL AS WITH EOF - 48" LONG MIN. TURN DOWN SLAB @ | HVAC BLOCK DOWN \_ \_ \_ \_ \_ \_ DIAGONAL STEEI × > 0.58 FOOTING STRESS ZONE PEDESTAL DETAIL MAY VARY 48" X 48" X 16" FTG w/ 8 #4's EW DETAIL MAY VARY HOLD PED. 12" BELOW BLOCK-DOWN 4 CAST w/ SLAB 3" MIN COVER - UNDISTURBED A 3" MIN. COVER PEDESTAL PED @ FTG

SLAB @ PE[

SLAB ON FILL

<u>DIVISION 3</u> — CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" AND ACI 332 "REQUIREMENTS FOR RESIDENTIAL CONCRETE CONSTRUCTION."

MASONRY STRENGTH (F'M DESIGN)\_ CONCRETE MATERIALS SHALL COMPLY WITH: BLOCK STRENGTH A) CEMENT - ASTM C 150 TYPE MORTAR STRENGTH B) AGGREGATE — ASTM C 33, MAXIMUM AGGREGATE SIZE 3/4"

C) WATER - POTABLE, WATER/CEMENT RATIO .5 (MAX.) D) AIR-ENTRAINING ADMIXTURE - ASTM C 260 E) WATER-REDUCING ADMIXTURE - ASTM C 494, INCLUDING SUPERPLASTICIZERS.

3. CONCRETE SHALL DEVELOP THE FOLLOWING MINIMUM 28 DAY DESIGN COMPRESSIVE STRENGTH (f'c):

TYPE OF CONSTRUCTION COMP. STRENGTH (f'c) A) FOOTINGS, WALLS, AND SLABS SEE TABLE B) EXTERIOR SLABS AND CURBS SEE TABLE

CONCRETE PROPORTIONS SHALL BE ESTABLISHED ON THE BASIS OF FIELD EXPERIENCE AND/OR TRIAL MIXTURES IN ACCORDANCE WITH ACI 318-89 SECTIONS 5.2 AND 5.3. WHEN FLY ASH IS UTILIZED IN THE MIX, MIX SHALL CONTAIN A WATER-REDUCER. FLY ASH SHALL BE ADDED AT THE RATE OF NOT MORE THAN 100 POUNDS PER CUBIC YARD AND CEMENT SHALL BE REDUCED BY NOT MORE THAN 15 PERCENT BY WEIGHT.

4. PROPORTION AND DESIGN MIXES TO RESULT IN CONCRETE SLUMP AT A POINT OF PLACEMENT OF NOT MORE THAN 4" TO 5".

5. USE AIR-ENTRAINING ADMIXTURES IN EXTERIOR EXPOSED CONCRETE TO RESULT IN CONCRETE AT POINT OF PLACEMENT HAVING AIR CONTENT OF 5 TO 7 PERCENT ENTRAINED AIR.

6. ALL PLUMBING AND ELECTRICAL ROUGH—INS MUST BE COMPLETE, INSPECTED AND APPROVED BEFORE REQUESTING THE SLAB

7. CONCRETE WORK EXECUTION:

F) FLY ASH — ASTM C 618, CLASS C

A) MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE. UNLESS NOTED OTHERWISE ON DRAWINGS: CAST AGAINST AND EXPOSED TO EARTH\_ EXPOSED TO EARTH OR WEATHER\_

NOT EXPOSED TO EARTH OR WEATHER B) IN CORNERS OF GRADE BEAMS PROVIDE CORNER REINFORCEMENT LAP TWO FEET EACH DIRECTION IN OUTSIDE FACE, MATCHING SIZE AND SPACING OF HORIZONTAL REINFORCEMENT.

C) PROVIDE CONTROL JOINTS IN SLABS-ON-GRADE AT NOT GREATER THAN 20 FEET ON CENTER IN EACH DIRECTION. SAW CUT CONTROL JOINTS MINIMUM 1/4 OF THE SLAB DEPTH, AS SOON AFTER SLAB FINISHING AS POSSIBLE WITHOUT DISLODGING AGGREGATE. (DO NOT SAW CUT STRUCTURAL SLABS w/o APPROVAL).

8. BATCH TICKETS SHALL BE SUBMITTED TO A CONTRACTORS REPRESENTATIVE PRIOR TO OFF LOADING. ANY CONCRETE MORE THAN 45 MINUTES OUT PRIOR TO STARTING PLACEMENT SHALL BE

9. THE MAXIMUM ADDITION OF WATER SHALL BE LIMITED TO 1 GALLON PER YARD; NOTE THAT THIS ADDITION SHALL BE USED TO CONTROL HEAT ONLY (NOT SLUMP).

10. PUMPS SHALL NOT BE PRIMED IN FORMS.

DETAIL MAY VARY

11. REINFORCEMENT

A) ALL REINFORCING BARS SHALL BE A615, GR40 MIN. LAP SPLICES 18" MIN FOR #4 BAR. SEE TABLE B) WELDED WIRE FABRIC SHALL BE ASTM A185, LAP AT LEAST ONE

FULL MESH AND LACE SPLICES WITH WIRE. C) REBAR SHALL BE CLEAN, AND FREE FROM RUST AND OIL PRIOR TO THE PLACEMENT OF CONCRETE. REBAR SHALL BE TIED AND SECURED AS REQUIRED TO PREVENT DISPLACEMENT IN THE FORMS. D) TIE STEEL TO PREVENT DISPLACEMENT. HOOK AND TIE STEEL AS

POSSIBLE. TIES, CHAIRS, OR OTHER PRODUCTS SHALL BE PROTECTED WHEN LOCATED NEAR EXPOSED SURFACES E) STEEL SHALL BE STORED ON SITE ABOVE GRADE, AND COVERED

12. ADJUST FOUNDATION FOR SITE AND SOIL CONDITIONS AND VERIFY

DETAIL MAY VARY

JOIST HNGR -

FLOOR

JOIST

6" MIN. STEM WALL—

1-1/2" LEDGE

HVAC TRUNK

12" ADDITIONAL

\_AB @ HVAC

BLOCK DOWN @ HVAC

DBL PLATE FOR GYP CRETE

CONCRETE SLAB

2.5" INSULATION,

– 1—1/2" LEDGE MIN.

ICF WALL

FLUSH FRAMING @ FDN

DIVISION 4 - MASONRY

1. COMPRESSIVE STRENGTH OF CONCRETE MASONRY CONSTRUCTION (CMU) SHALL BE AS FOLLOWS (PSI). MASONRY STRENGTH NOT SPECIFICALLY NOTED ON PLAN SHALL BE (f'm) 1500 PSI.

1500 1900 1800 GROUT STRENGTH\_\_

2. CONCRETE BLOCK SHALL BE HOLLOW LOAD-BEARING CONCRETE MASONRY UNITS CONFORMING TO ASTM C 90, TYPE N-II. ALL BLOCKS SHALL BE PLACED IN RUNNING BOND CONSTRUCTION (UNLESS OTHERWISE NOTED) WITH ALL VERTICAL CELLS IN ALIGNMENT.

3. MORTAR MIX SHALL CONFORM TO THE REQUIREMENTS OF ASTM C 270, TYPE M OR S. TYPE M MORTAR SHALL BE USED WHERE MASONRY IS IN CONTACT WITH SOIL.

4. GROUT SHALL CONFORM TO THE REQUIREMENTS OF ASTM C 476. USE SUFFICIENT WATER FOR GROUT TO FLOW INTO ALL JOINTS OF THE MASONRY WITHOUT SEGREGATION. ALL CELLS IN CONCRETE BLOCKS CONTAINING REINFORCING SHALL BE FILLED SOLID WITH GROUT. ALL MASONRY BELOW FINISHED FLOOR OR GRADE SHALL BE GROUTED SOLID. HOLD GROUT DOWN 1—3" BELOW TOP OF BLOCK AT GROUT LIFT JOINTS AND AT CONCRETE PLACED OVER

. MINIMUM LINTEL, WHERE NOT ON PLANS, SHALL HAVE A MINIMUM OF 2 — #5's CONTINOUS HORIZONTAL BARS IN BOTTOM OF BOND BEAM OR LINTEL BLOCK AND SHALL BE GROUTED SOLID TO A MIN. DEPTH OF 24." ALL LINTEL REINFORCING AND GROUT SHALL EXTEND 2' MINIMUM PAST JAMBS UNLESS NOTED OTHERWISE ON PLANS OR DETAILS.

6. LAP REINFORCING 48 BAR DIAMETERS. STAGGER LAP SPLICES A MINIMUM OF ONE LAP LENGTH.

7. MASONRY VENEER SHALL BE ATTACHED TO SUPPORT WALL FRAMING WITH 36" DIAMETER WALL TIES OR DOVETAIL-TYPE METAL TIES OF EQUIVALENT STIFFNESS EMBEDDED INTO HORIZONTAL MORTAR JOINTS. MAXIMUM VERTICAL SPACING OF TIES SHALL BE 16," MAXIMUM HORIZONTAL SPACING SHALL BE 24." TIES IN ALTERNATE COURSES SHALL BE STAGGERED. PROVIDE #9 WIRE REINFORCING IN HORIZONTAL MORTAR JOINTS AT 16" OC. ENGAGE #9 WIRE WITH WALL ANCHOR TIES. CONSTRUCTION JOINTS IN MASONRY VENEER WALLS SHALL BE LOCATED PER THE DRAWINGS.

8. WATERPROOFING, DRAINAGE PLANE, AND INSTALLATION PER ADOPTED BUILDING CODE.

<u>DIVISION 5.5</u> — MISC. STRUCTURAL STEEL

1. ALL MISCELLANEOUS STRUCTURAL STEEL WORK SHALL CONFORM TO THE REQUIREMENTS OF AISC "SPECIFICATIONS FOR DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR

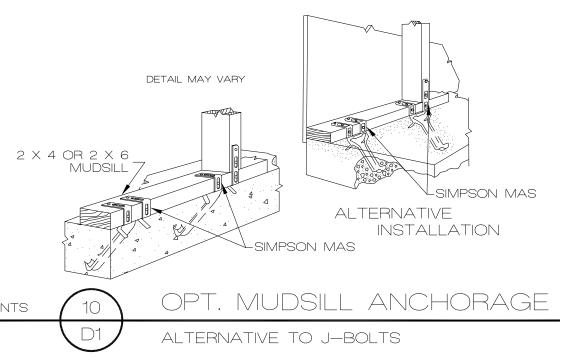
MISCELLANEOUS STRUCTURAL STEEL MATERIAL SHALL COMPLY A) STRUCTURAL STEEL — ASTM A992

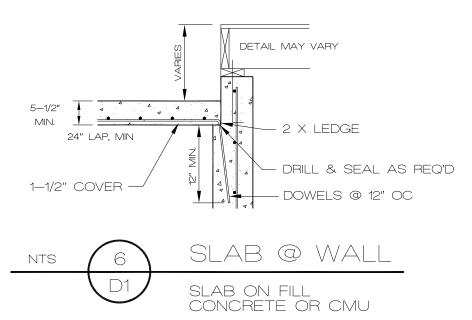
B) STEEL PIPE COLUMNS - ASTM A53 GRADE B(Sch 40 TYP) C) ANCHOR BOLTS - ASTM A307 GRADE A, NON-HEADED TYPE UNLESS OTHERWISE NOTED.

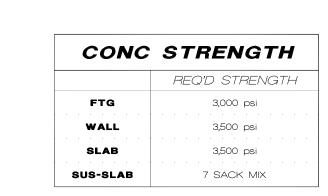
3. FLITCH PLATES SHALL HAVE 1" DIA. BOLTS @ 16" OC, STAGGERED TOP AND BOTTOM BETWEEN JOIST LAYOUT.

#### RETURN WALLS WALL HT. RETURN SPACING ABOVE FLOOR (HOLD DOWN 24" BELOW GRADE) LESS THAN 4' RETURN WALLS NOT REQ'D 16'-4" ON CENTER (MAX.), AND WITHIN >4' TO 9' 8' OF STEP DOWN OR AS SHOWN

\* RETURN WALLS ALLOW FOR BACKFILL W/O FLOOR DECK IN PLACE FOR 60 PCF EQUIVALENT FLUID WEIGHT SOIL. NO HEAVY EQUIPMENT OR SURCHARE LOADING.







 $\frac{w_{i} * L^{2}}{27,206}$  #-in 40,000 \* 0.2  $0.85 * f_c * b$  $\phi M_N = *\phi A * f(d - a/2)$ 

GARAGE SLAB:

= 0.9(0.2)(40000)(4-0.22/2)= 28,008 #-in > 27,206 (OKAY).. Use #4 @ 12" OC EW 12'-6" (+/-) MODULE

67 # /中' (DL) BASEMENT SLAB:  $= 240 \# / \oplus' (TL)$ 

40,000 \* 0.2  $\frac{0.85 * 3,500 * 12}{0.85 * 3,500 * 12} = 0.22"$ 

15'-6" (+/—) MODULE

#### <u>DIVISION 6</u> — ROUGH CARPENTRY

1. ALL ROUGH CARPENTRY WORK SHALL CONFORM TO THE REQUIREMENTS OF NFPA "NATIONAL DESIGN SPECIFICATION OF WOOD CONSTRUCTION", TPI "DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES", APA "PLYWOOD DESIGN SPECIFICATIONS", DOC PS 1 "PRODUCT STANDARD FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD", DOC PS 56 "STRUCTURAL GLUED" LAMINATED TIMBER", AND APPLICABLE SECTIONS OF THE INTERNATIONAL BUILDING CODE.

2. ROUGH CARPENTRY MATERIALS SHALL COMPLY WITH: A) LUMBER - S4S, S-DRY, KD, OR S-GRN GRADE MARKED, COMPLYING WITH PS 20, GRADED UNDER WWPA OR SPIB RULES: STUD GRADE HEADER: #2 DOUGLAS FIR MIN TYPICAL RAFTER: #2 DOUGLAS FIR PLATES: #2 DOUGLAS FIR BLOCKING: #2 DOUGLAS FIR

> B) METAL FRAMING FASTENERS - ASTM A 153, HOT-DIP GALVANIZED FASTENERS; EQUAL TO SIMPSON STRONG-TIE CONNECTORS COMPLYING WITH APPLICABLE ICC-ES REPORTS C) PLYWOOD - APA RATED SHEATHING, COMPLYING TO PS 1. D) LVL - LAMINATED VENEER LUMBER SHALL BE GRADE 2800

F-2.0E AND SHALL MEET THE REQUIREMENTS OF APPLICABLE

ICC-ES REPORTS. E) GLULAM BEAMS - COMBINATION 24F-V3 IN ACCORDANCE WITH AITC A190.1

3. EXTERIOR WALL AND ROOF SHEATHING SHALL BE  $\frac{7}{16}$ " APA RATED SHEATHING 24/0 EXTERIOR GLUED (MIN) FOR 16" OC STUD SPACING. NAIL SHEATHING TO SUPPORT MEMBERS WITH 8D COMMON NAILS AT 6" ON CENTER ALONG EDGE SUPPORTS AND 12" ON CENTER ALONG FIELD SUPPORTS UNLESS NOTED OTHERWIDE. PROVIDE SOLID BLOCKING AT ALL UNSUPPORTED PANEL EDGES; 4/8 GUN NAILS.

NOTE: ROOF SHEATHING SHALL BE §" APA RATED SHEATHING FOR TILE ROOF, OR AS REQUIRED BY MANUFACTURER.

4. INTERIOR SHEAR WALL SHEATHING WHERE NOTED SHALL BE 2" APA RATED SHEATHING 24/0 EXTERIOR GLUED (MIN) FOR 16" OC STUD SPACING. NAIL SHEATHING TO SUPPORT MEMBERS WITH 8D COMMON NAILS AT 4" ON CENTER ALONG EDGE SUPPORTS AND 6" ON CENTER ALONG FIELD SUPPORTS UNLESS NOTED OTHERWISE. PROVIDE SOLID BLOCKING AT ALL UNSUPPORTED PANEL EDGES.

5. ATTACH METAL FRAMING FASTENERS TO FRAMING MEMBERS WITH MINIMUM NUMBER AND SIZE OF NAILS LISTED IN THE APPLICABLE ICC-ES REPORTS.

6. WOOD TRUSS SYSTEM; TRUSS JOIST SYSTEM AND GLULAM SYSTEM FOR ROOFS: A) DESIGN, FABRICATE, AND ERECT IN ACCORDANCE WITH BCSI STANDARDS AND NDS SPECIFICATIONS.

B) DESIGN LOADS

25 PSF SNOW LIVE LOAD 10 PSF DEAD LOAD TOP CHORD (20 TILE) 10 PSF DEAD LOAD BOTTOM CHORD

C) SUBMIT SHOP DRAWINGS, INCLUDING DESIGN CALCULATIONS, MATERIAL STRESSES, GRADE AND SPECIES OF WOOD, AND PLACEMENT DRAWING.

7. DEFAULT HEADER SIZE NOT SPECIFIED SPANNING 8'-0" MAX SHALL BE 2 - 2 X 10 #2, WITH 2 STUD SUPPORT.

8. ALL HEADERS OVER 4'-0" SHALL HAVE DOUBLE TRIMMER @ EACH SUPPORT, OR AS SPECIFIED, UNO.

TO THE EXTERIOR FOUNDATION WALL, MIN. 48" OR 3 JOIST SPACES.

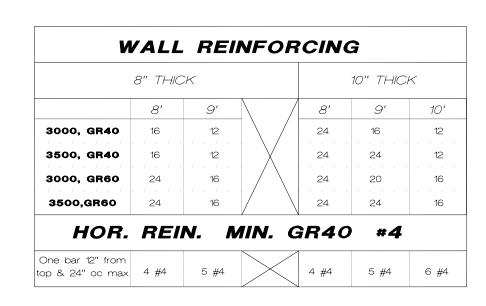
9. SOLID BLOCKING BETWEEN JOISTS @ 36" OC FOR JOISTS PARALLEL

10. ALL FLUSH FRAMING @ HEADERS OR GIRDERS SHALL BE HANGERED. 11. BLOCK BETWEEN JOISTS @ SUPPORTS OR OVER BEAMS.

12. RATED CONSTRUCTION FOR PROJECTIONS INTO SETBACKS AS REQ'D.

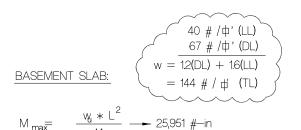
13. DOUBLE JOIST BELOW PARALLEL NONBEARING WALLS ON LAYOUT, SINGLE JOIST OFF LAYOUT. STRUCTURE BELOW LOAD-BEARING WALLS AS NOTED ON PLANS.

# FOUNDATION PER JOCOBO RESIDENTIAL FOUNDATION GUIDELINE



100 # /中' (LL)

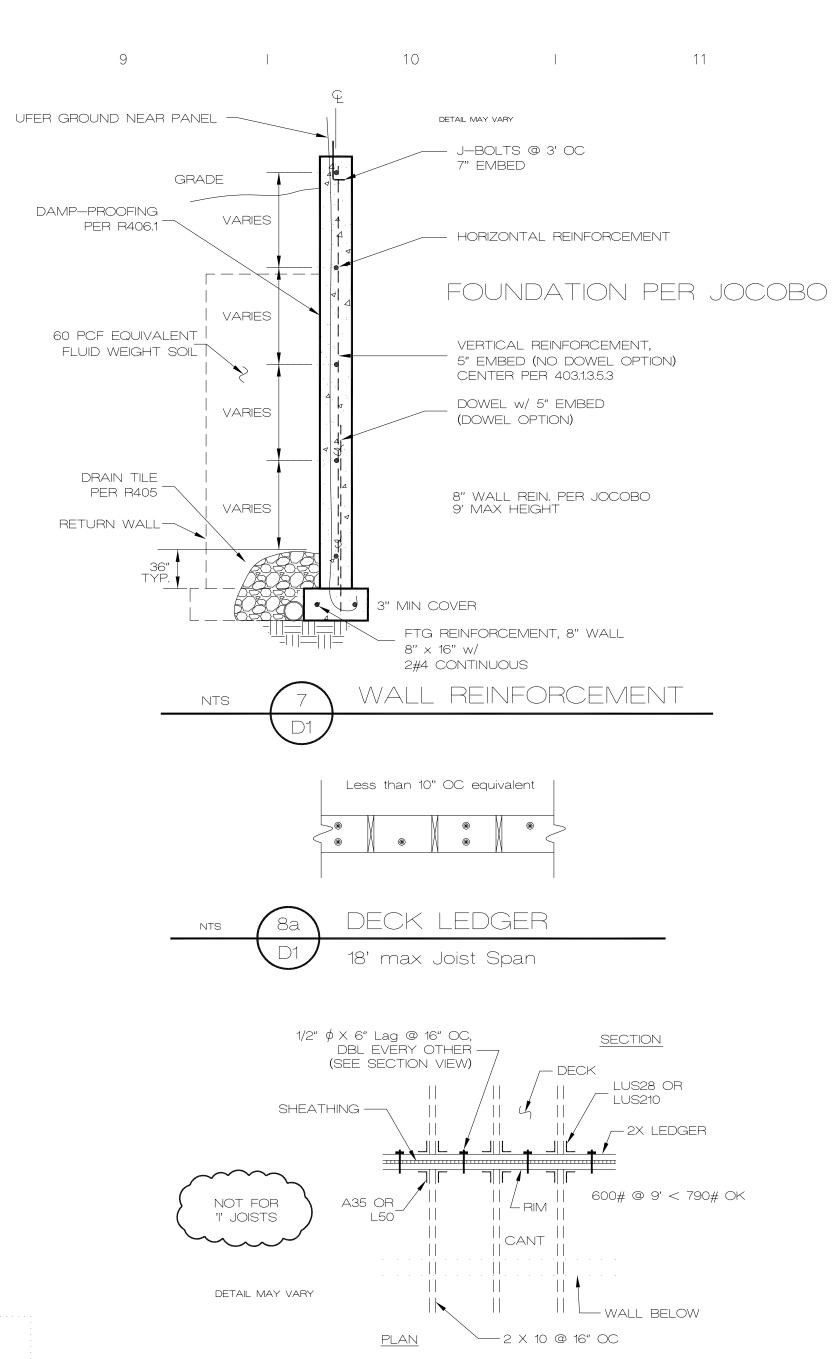
 $w_u = 1.2(DL) + 1.6(LL)$ 

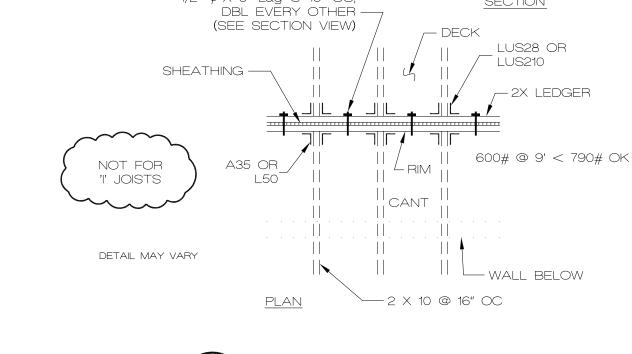


<u>W<sub>i</sub> \* L<sup>-</sup></u> → 25,951 #—in

 $\phi M_N = *\phi A * f(d - a/2)$ = 0.9(0.2)(40000)(4-0.22/2)= 28,008 #-in > 25,951 (OKAY)

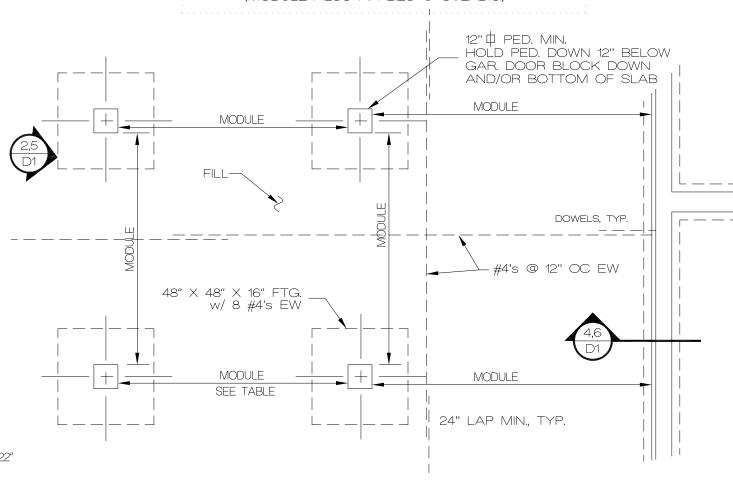
∴ Use #4 @ 12" OC EW





STRUCT. SLAB MODULE SPACING SLAB TYPE | MODULE SPACING BASEMENT 15'—6" GARAGE (MODULE ALSO APPLIES @ OVERDIG)

DECK @ CANTILEVER



STRUCTURAL SLAB ON FILL DO NOT SAW CUT STRUCTURAL SLABS W/O APPROVAL

VERIFY ALL STRUCTURAL SLAB DETAILS W/ ENGINEER DO NOT ISOLATE COLUMNS FROM STRUCTURAL SLABS

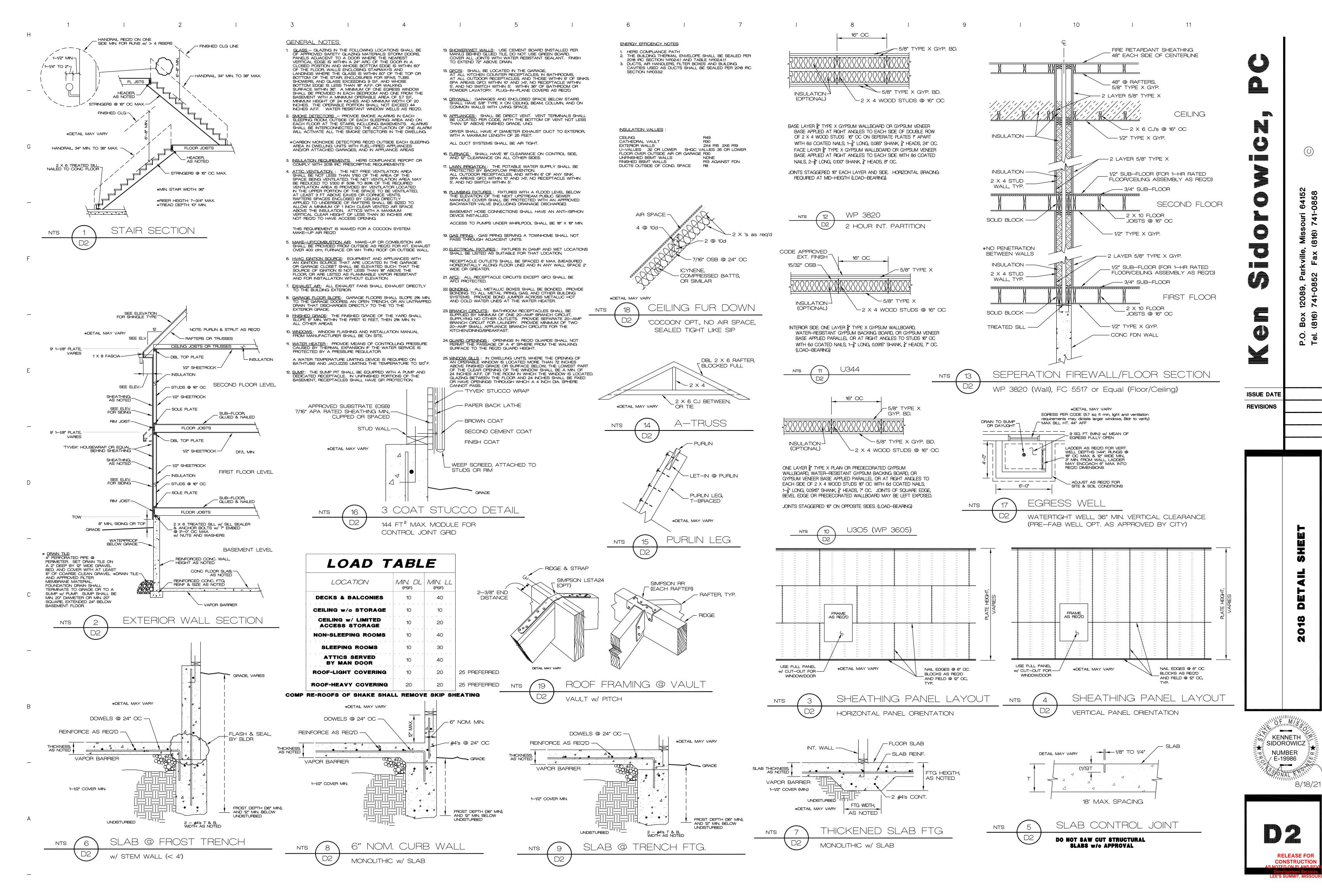
---KENNETH 2 SIDOROWICZ **NUMBER** E-19986

ISSUE DATE

**REVISIONS** 

11/2/15

**RELEASE FOR** CONSTRUCTION LEE'S SUMMIT, MISSOUR

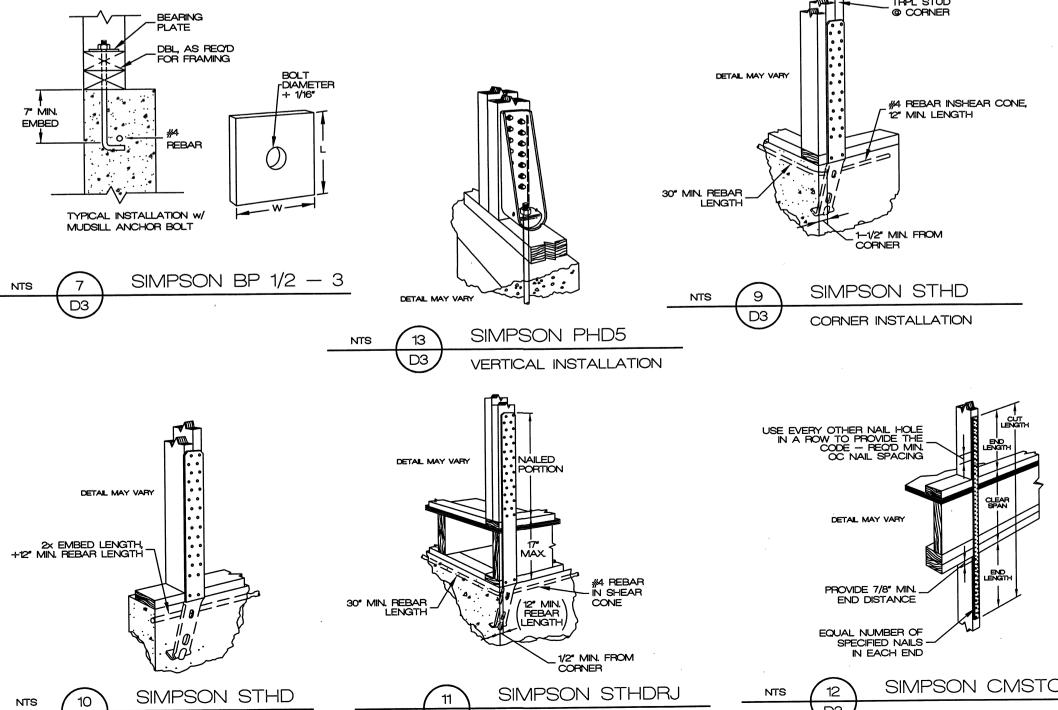


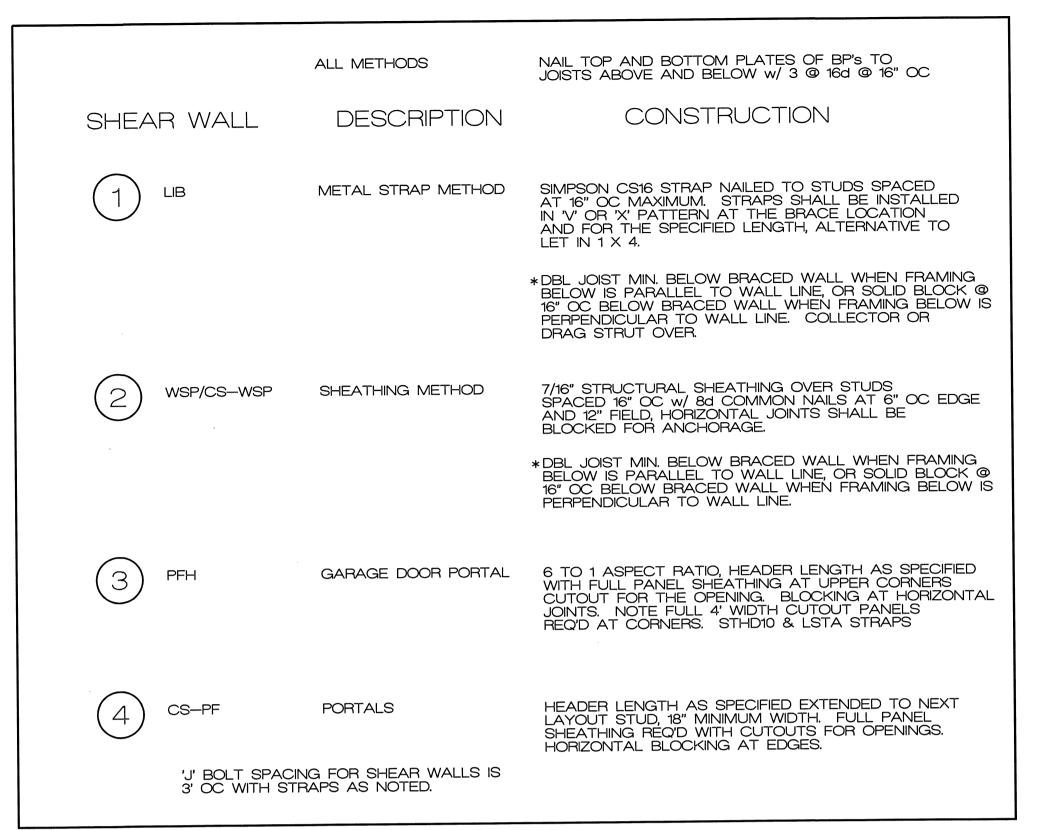
## STAPLES NOT PERMITTED IN KCMO

	_ ^ <u> </u>		ND CTDI ICTI IDAI	NAENARERS
	FAS	TENER SCHEDULE FO	DR STRUCTURAL	
ltem	Description of building ele	ements	Number & type of fastener (notes: a, b, c)	Spacing of fasteners
f				
.1	Blocking between joists or rafters to	top plate, toe nail	3-8d (2-1/2" x 0.113") 3-8d (2-1/2" x 0.113")	<u></u>
. <mark>2</mark>	Ceiling joists to plate, toe nail Ceiling joists not attached to parallel	rafter, laps over partitions, face nail	3—10d	<del>.</del>
4	Collar tie rafter, face nail or 1-1/4" x	20 ga. ridge strap	3-10d (3" × 0.128")	
.5		use STC clips at NLB walls and spec'd holdowns	3-16d or 3-10d (3-1/2" x 0.135", 0.148")	2 toe nails side 1, 1 toe nail side 2 (note j)
6	Roof rafters to ridge, valley or hip ra Toe nail:	rters:	4-16d (3-1/2° × 0.135°)	-
	Face nail:		3-16d (3-1/2" x 0.135")	
JI	_		40-4 (2° v. 0420°)	24° o.c.
.7 8	Built-up studs-face nail Abutting studs at intersecting wall co	orners face nail	10d (3" × 0.128") 16d (3-1/2" × 0.135")	12" 0.0.
.° 9	Built—up header, two pieces w/ 1/2"	spacer	16d (3-1/2" × 0.135")	16" o.c. along each edge
10	Continued header, two pieces		16d (3-1/2" × 0.135")	16" o.c. along each edge
.11	Continuous header to stud, toe nail		4-8d (2-1/2" × 0.113") 10d (3" × 0.128")	24" o.c.
.12 13	Double studs, face nail  Double top plates, face nail		10d (3" × 0.128")	24° o.c. 24° o.c.
.14 .14	Double top plates, min. 48" offset of	end joints, face nail in lapped area	8—16d (3—1/2" × 0.135")	
. <sup>15</sup>	Sole plate to joist or blocking, face r	nail	16d (3-1/2" × 0.135") 3-16d (3-1/2" × 0.135")	16" o.c. 16" o.c.
.16 17	Sole plate to joist or blocking at brain Stud to sole plate, toe nail	ced wall panels	3-16d (3-1/2" x 0.133) 3-8d (2-1/2" x 0.113") or	<del></del>
17	Studio sole plate, toe flati		2-16d (3-1/2" × 0.135")	
18	Top or sole plate to stud, end nail		2—16d (3—1/2" × 0.135")	
.19	Top plates, laps at corners and inte		2-10d (3" × 0.128") 2-8d (2-1/2" × 0.113")	
.20	to brace to each stud and plate, fac	e nai	2 staples 1-3/4"	<del>_</del>
.21	1" x 6" sheathing to each bearing, fa	ace nail	2-8d (2-1/2" × 0.113")	
			2 staples 1-3/4" 2-8d (2-1/2" × 0.113")	<del>-</del>
.22	1" x 8" sheathing to each bearing, fa	ace naii	3 staples 1-3/4"	· · · · · · · · · · · · <del>-</del> · · · · · · · · · ·
23	Wider than 1" x 8" sheathing to each	n bearing, face nail	3—86cbi(24pl662"1-x3(04713")	<u>-</u>
oor			0.04 (0.4/0* v. 0442*)	_
. 24	Joist to sill or girder, toe nail	andiantione also	3-8d (2-1/2" × 0.113") 8d (2-1/2" × 0.113")	6° 0.C.
25 26	Rim joist to top plate, toe nail (roof applications also)  Rim joist or blocking to sill plate, toe nail		8d (2-1/2" × 0.113")	6° o.c.
27	1" x 6" subfloor or less to each joist		2-8d (2-1/2" x 0.113")	<del>-</del>
	A SECTION OF THE PROPERTY AND A SECT		2 staples 1-3/4" 2-16d (3-1/2" x 0.135")	<u> </u>
28 29 30		2" subfloor to joist of girder, blind and face nail 2" planks (plank & beam — floor and roof)		@ each bearing
30	Built-up girders and beams, 2" luml		10d (3" x 0.128")	Nail each layer as follows: 32" o.c. at top and bottom and staggered. Two nails at ends and at each splice
 31	· Line in the interior in the interior in the interior in the interior		3-16d (3-1/2" × 0.135")	@ each joist or rafter
31	Ledger strip supporting joists or raft			Fasteners
				1
	Description of building	Description of fastener	Edges (inches)	Intermediate supports (inches) (notes: c, e)
	materials	(notes: b, c, e)	(note: i)	tioles q o
	tural panels, subfloor, roof and interior	wall sheathing to framing and particleboard wall sheath		10 (
	0/01 40 4/01		1 6	12 (note: g)
ood struct	3/8" to 1/2"	6d common (2" × 0.113") nail (subfloor, wall) (note j) 8d common (2-1/2" × 0.131") nail (roof)	6	
	3/8" to 1/2" 19/32" to 1"	8d common (2-1/2" x 0.131") nail (roof) 8d common nail (2-1/2" x 0.131")	6	12 (note: g)
32		8d common (2-1/2" x 0.131") nail (roof) 8d common nail (2-1/2" x 0.131") 10d common (3" x 0.148") nail or	6 	
32 33 34	19/32" to 1" 1-1/8" to 1-1/4"	8d common (2-1/2" x 0.131") nail (roof) 8d common nail (2-1/2" x 0.131")	6 	
32 33 34 ther wall s	19/32* to 1*	8d common (2-1/2" x 0.131") nail (roof) 8d common nail (2-1/2" x 0.131") 10d common (3" x 0.148") nail or	6	
32 	19/32" to 1" 1-1/8" to 1-1/4" sheathing (note h)	8d common (2-1/2" x 0.131") nail (roof) 8d common nail (2-1/2" x 0.131") 10d common (3" x 0.148") nail or 8d deformed (2-1/2" x 0.131") nail  1-1/2" galv. roofing nail, 7/16" crown or 1" crown staple 16 ga., 1-1/4" long	6	12 (note: g) 12
32 33 34 her wall s	19/32" to 1" 1-1/8" to 1-1/4"  sheathing (note h)  1/2" structural cellulosic fiberboard sheathing 25/32" structural cellulosic	8d common (2-1/2" x 0.131") nail (roof) 8d common nail (2-1/2" x 0.131") 10d common (3" x 0.148") nail or 8d deformed (2-1/2" x 0.131") nail  1-1/2" galv. roofing nail, 7/16" crown or 1" crown staple 16 ga., 1-1/4" long 1-3/4" galv. roofing nail, 7/16" crown or	6	12 (note: g) 12
32 	19/32" to 1" 1-1/8" to 1-1/4"  sheathing (note h)  1/2" structural cellulosic fiberboard sheathing 25/32" structural cellulosic fiberboard sheathing	8d common (2-1/2" x 0.131") nail (roof) 8d common nail (2-1/2" x 0.131") 10d common (3" x 0.148") nail or 8d deformed (2-1/2" x 0.131") nail  1-1/2" galv. roofing nail, 7/16" crown or 1" crown staple 16 ga., 1-1/4" long 1-3/4" galv. roofing nail, 7/16" crown or 1" crown staple 16 ga., 1-1/2" long	6	12 (note: g) 12
32 33 34 ther wall s	19/32" to 1" 1-1/8" to 1-1/4"  sheathing (note h)  1/2" structural cellulosic fiberboard sheathing 25/32" structural cellulosic	8d common (2-1/2" x 0.131") nail (roof) 8d common nail (2-1/2" x 0.131") 10d common (3" x 0.148") nail or 8d deformed (2-1/2" x 0.131") nail  1-1/2" galv. roofing nail, 7/16" crown or 1" crown staple 16 ga., 1-1/4" long 1-3/4" galv. roofing nail, 7/16" crown or	6	12 (note: g) 12
32 	19/32" to 1" 1-1/8" to 1-1/4"  sheathing (note h)  1/2" structural cellulosic fiberboard sheathing 25/32" structural cellulosic fiberboard sheathing	8d common (2-1/2" x 0.131") nail (roof) 8d common nail (2-1/2" x 0.131") 10d common (3" x 0.148") nail or 8d deformed (2-1/2" x 0.131") nail  1-1/2" galv. roofing nail, 7/16" crown or 1" crown staple 16 ga, 1-1/4" long 1-3/4" galv. roofing nail, 7/16" crown or 1" crown staple 16 ga, 1-1/2" long 1-1/2" galvanized roofing nail; staple galv, 1-1/2" long; 1-1/4" screws, Type W or S 1-3/4" galvanized roofing nail; staple galv,	6	12 (note: g) 12
32 : 33 : 34 : 35 : 35 : 36 : 37 : 38	19/32" to 1" 1-1/8" to 1-1/4"  sheathing (note h)  1/2" structural cellulosic fiberboard sheathing 25/32" structural cellulosic fiberboard sheathing 1/2" gypsum sheathing (note d)  5/8" gypsum sheathing (note d)	8d common (2-1/2" x 0.131") nail (roof) 8d common nail (2-1/2" x 0.131") 10d common (3" x 0.148") nail or 8d deformed (2-1/2" x 0.131") nail  1-1/2" galv. roofing nail, 7/16" crown or 1" crown staple 16 ga, 1-1/4" long 1-3/4" galv. roofing nail, 7/16" crown or 1" crown staple 16 ga, 1-1/2" long 1-1/2" galvanized roofing nail; staple galv, 1-1/2" long; 1-1/4" screws, Type W or S 1-3/4" galvanized roofing nail; staple galv, 1-5/8" long; 1-5/8" screws, Type W or S	6	12 (note: g) 12
32 33 34 ther wall s 35 36 37 38	19/32" to 1" 1-1/8" to 1-1/4" sheathing (note h)  1/2" structural cellulosic fiberboard sheathing 25/32" structural cellulosic fiberboard sheathing 1/2" gypsum sheathing (note d) 5/8" gypsum sheathing (note d)	8d common (2-1/2" x 0.131") nail (roof) 8d common nail (2-1/2" x 0.131") 10d common (3" x 0.148") nail or 8d deformed (2-1/2" x 0.131") nail  1-1/2" galv. roofing nail, 7/16" crown or 1" crown staple 16 ga, 1-1/4" long 1-3/4" galv. roofing nail, 7/16" crown or 1" crown staple 16 ga, 1-1/2" long 1-1/2" galvanized roofing nail; staple galv, 1-1/2" long; 1-1/4" screws, Type W or S 1-3/4" galvanized roofing nail; staple galv, 1-5/8" long; 1-5/8" screws, Type W or S erlayment to framing	6	12 (note: g) 12
32 : 33 : 34 : 35 : 35 : 36 : 37 : 38	19/32" to 1" 1-1/8" to 1-1/4"  sheathing (note h)  1/2" structural cellulosic fiberboard sheathing 25/32" structural cellulosic fiberboard sheathing 1/2" gypsum sheathing (note d)  5/8" gypsum sheathing (note d)	8d common (2-1/2" x 0.131") nail (roof) 8d common nail (2-1/2" x 0.131") 10d common (3" x 0.148") nail or 8d deformed (2-1/2" x 0.131") nail  1-1/2" galv. roofing nail, 7/16" crown or 1" crown staple 16 ga, 1-1/4" long 1-3/4" galv. roofing nail, 7/16" crown or 1" crown staple 16 ga, 1-1/2" long 1-1/2" galvanized roofing nail; staple galv, 1-1/2" long; 1-1/4" screws, Type W or S 1-3/4" galvanized roofing nail; staple galv, 1-5/8" long; 1-5/8" screws, Type W or S erlayment to framing 6d deformed (2" x 0.120") nail or	3 	6 6 7
32 33 34 2ther wall s 35 36 37 38	19/32" to 1" 1-1/8" to 1-1/4" sheathing (note h)  1/2" structural cellulosic fiberboard sheathing 25/32" structural cellulosic fiberboard sheathing 1/2" gypsum sheathing (note d) 5/8" gypsum sheathing (note d)	8d common (2-1/2" x 0.131") nail (roof) 8d common nail (2-1/2" x 0.131") 10d common (3" x 0.148") nail or 8d deformed (2-1/2" x 0.131") nail  1-1/2" galv. roofing nail, 7/16" crown or 1" crown staple 16 ga, 1-1/4" long 1-3/4" galv. roofing nail, 7/16" crown or 1" crown staple 16 ga, 1-1/2" long 1-1/2" galvanized roofing nail; staple galv, 1-1/2" long; 1-1/4" screws, Type W or S 1-3/4" galvanized roofing nail; staple galv, 1-5/8" long; 1-5/8" screws, Type W or S erlayment to framing	3 	6 6 7
32 33 34 35 36 37 38 Vood struc	19/32" to 1" 1-1/8" to 1-1/4" sheathing (note h)  1/2" structural cellulosic fiberboard sheathing 25/32" structural cellulosic fiberboard sheathing 1/2" gypsum sheathing (note d) 5/8" gypsum sheathing (note d) ctural panels, combination subfloor under	8d common (2—1/2" x 0.131") nail (roof) 8d common nail (2—1/2" x 0.131") 10d common (3" x 0.148") nail or 8d deformed (2—1/2" x 0.131") nail  1—1/2" galv. roofing nail, 7/16" crown or 1" crown staple 16 ga, 1—1/4" long 1—3/4" galv. roofing nail, 7/16" crown or 1" crown staple 16 ga, 1—1/2" long 1—1/2" galvanized roofing nail; staple galv, 1—1/2" long; 1—1/4" screws, Type W or S 1—3/4" galvanized roofing nail; staple galv, 1—5/8" long; 1—5/8" screws, Type W or S erlayment to framing 6d deformed (2" x 0.120") nail or 8d common (2—1/2" x 0.131") nail	3 	6 6 7

For St 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 mile per hour = 0.447 m/s; 1 ksi = 6.895 MPa

- a. All nails are smooth-common, box or deformed shanks except where otherwise stated. Nails used for framing and sheathing connections shall have minimum average bending yield strengths as shown: 80 ksi (551 MPa) for shank diameter of 0.192 inch (20d common nail), 90 ksi (620 MPa) for shank diameters larger than 0.142 inch but not larger than 0.177 inch, and 100 ksi (689 MPa) for shank diameters of 0.142 inch or less.
- Staples are 16 gage wire and have a minimum 7/16-inch on diameter crown width. c. Nails shall be spaced at not more than 6 inches on center at all supports where spans are 48 inches or greater.
- Four-foot-by-8-foot or 4-foot-by-9-foot panels shall be applied vertically. e. Spacing of fasteners not included in this table shall be verified w/ EOR.
- f. For regions having basic wind speed of 110 mph or greater, 8d deformed nails shall be used for attaching plywood and wood structural panel roof sheathing to framing within minimum 48-inch distance from gable end walls, if mean roof height is more than 25 feet, up to 35 feet maximum.
- g. For regions having basic wind speed of 100 mph or less, nails for attaching wood structural panel roof sheathing to gable endwall framing shall be spaced 6 inches on center. When basic wind speed is greater than 100 mph, nails for attaching panel roof sheathing to intermediate supports shall be spaced 6 inches on center for minimum 48-inch distance from ridges, eaves and gable end walls; and 4 inches on center to gable end wall framing.
- h. Gypsum sheathing shall conform to ASTMC 1396 and shall be installed in accordance with GA 253. Fiberboard sheathing shall conform to ASTM C 208. Spacing of fasteners on floor sheathing panel edges applies to panel edges supported by framing members and at all floor perimeters only. Spacing of fasteners on roof sheathing panel edges applies to panel edges supported by framing
- members and at all roof plane perimeters. Blocking of roof or floor sheathing panel edges perpendicular to the framing members shall not be required except at intersection of adjacent roof planes. Floor and roof perimeter shall be supported by
- Where a rafter is fastened to an adjacent parallel ceiling joist in accordance with this schedule, provide two toe nails on one side of the rafter and toe nails from the ceiling joist to top plate in accordance with this schedule. The toe nail on the opposite side of the rafter shall not be required.





SHEAR WALL SCHEDULE

CHAPTER 6 WALL CONSTRUCTION

FIGURE R602.10.6.2

METHOD PFH—PORTAL FRAME WITH HOLD-DOWNS

TYPICAL PORTAL FRAME CONSTRUCTION -

SECTION

EXTENT OF HEADER WITH SINGLE PORTAL FRAME
(ONE BRACED WALL PANEL)

MIN. 3"x11%" NET HEADER STEEL HEADER PROHIBITED IF %" SPACER IS USED, PLACE ON BACK-SIDE OF HEADEL

FASTEN SHEATHING TO HEADER WITH 8D COMMON OR GALVANIZED BOX NAILS IN 3" GRED PATTERN AS SHOWN

HEADER TO JACK-STUD STRAP PER TABLE —— R602, 10,64 ON BOTH SIDES OF OPENING OPPOSITE SIDE OF SHEATHING

MIN. DOUBLE 2X4 FRAMING COVERED WITH MIN.
NOT THICK WOOD STRUCTURAL PANEL SHEATHING
WITH 8D COMMON OR GALVANIZED BOX NAILS AT
3" O.C. IN ALL FRAMING (STUDS, BLOCKING, AND

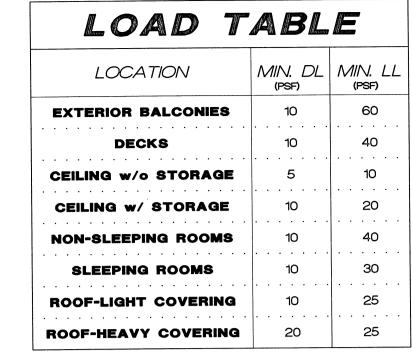
IIN. LENGTH OF PANEL PER TABLE RE02.10.5

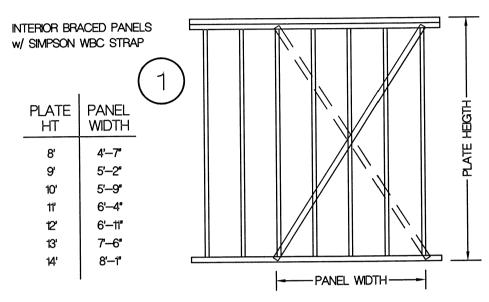
TOP AND BOTTOM OF FOOTING, LAP BARS 15"

Alcon has hoon has harman has had A service of the serv — MIN. FOOTING SIZE UNDER OPENING IS 12"x12". A TURNED DOWN SLAB SHALL BE PERMITTED AT DOOR OPENINGS.

FRONT ELEVATION

--- MIN. (1) % DIAMETER ANCHOR BOLT INSTALLED PER SECTION R403.1.5 - WITH 2"X 2" X\*16" PLATE WASHER



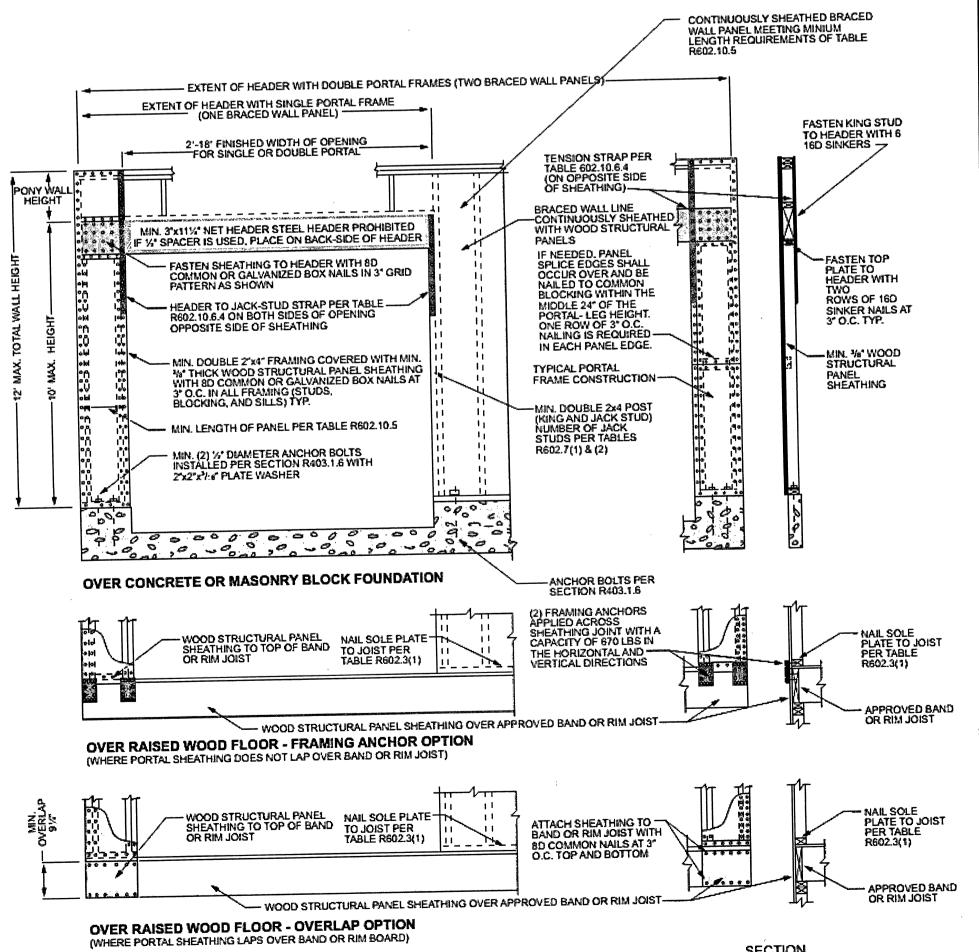


INT. BRACED WALL PANEL LIB, METAL STRAP ALT. TO LET IN 1 X 4

> 2018 International Residential Code Third Printing: Sep 2019

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CHAPTER 6 WALL CONSTRUCTION



For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

FRONT ELEVATION

FIGURE R602.10.6.4 METHOD CS-PF—CONTINUOUSLY SHEATHED PORTAL FRAME PANEL CONSTRUCTION

0 0 ISSUE DATE

---KENNETH SIDOROWICZ NUMBER

LEE'S SUMMIT, MISSOUR

SIMPSON CMSTC

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

RIM JOIST INSTALLATION

EDGE INSTALLATION

DIGITAL CODES



SECTION

**REVISIONS** 

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