

Amendments to the 2015 Residential One and Two Family Dwelling Code.

Section 4. Adoption of One and Two Family Dwelling Code.

Certain documents, two (2) copies of which are on file in the office of the County Clerk of Franklin County, Government Center, Union, Missouri, being marked and designated as the International Residential Code for One- and Two-Family Dwellings/2015 and the Appendix Chapters E and J are hereby referred to, adopted and made a part hereof, as if fully set out in this Order, with all future amendments, recommendations and deletions that are evaluated and approved by the Franklin County Building Commission, with the additions, deletion, and changes, if any, prescribed in other section of this Order.

Section 5. Additions, Insertions, Deletions, and Changes.

R101.1 **Title** is hereby amended by inserting the words “ County of Franklin, State of Missouri”.

R105.1 **Remove Demolish.**

R105.2 **Work exempt from permit.** Change the following:

Building:

1. One-story detached accessory structures provided the floor area does not exceed three hundred (300) square feet.

Exceptions:

- a. If a carport or prefab building is over 300 square feet and fastened to concrete, a permit is required.

- b. If the carport or prefab building is fastened to dirt, a permit is not required.

- c. If the carport or prefab building is fastened to concrete it can be built on a slab with no frost protections HOWEVER no

walls will be allowed inside the building and no bathrooms are allowed. The building must be of lightweight construction. Slab must be a minimum of 4 inches thick. No other building will be allowed to be built on this slab. No seal will be required on this building even though it is metal because it is pre-manufactured.

d. Plans required to permit must show size of slab and thickness. Also required will be the manufacturer's information on building showing size and tie down spacing requirements.

2. Fences.
3. Retaining walls that are not over 4 feet in height on unbalanced fill.
6. Siding, roof covering, painting, papering, tiling, carpeting, cabinets, counter tops, and similar finish work.
10. Decks not more than 30" above grade at any point.
11. Docks on pond/lake accessory to SFD.
12. An Agricultural Building meeting the requirements of the "Agricultural Structure Exemption"

Mechanical:

9. Replacement of existing HVAC system.
10. Replacement of existing hot water heater.

Agricultural Structure Exemption

By signing this agreement, _____, hereby certifies that the structure intending to be built at (address) _____, tax parcel # _____, will be solely used for agricultural purposes only.

This document gives permission to the Franklin County Building Department to perform a site inspection during normal business hours to verify this structure is being used for agricultural use exclusively if a complaint is filed and on record at the Franklin County Building Department. The undersigned will notify the Franklin County Building Department whenever the use changes to something other than solely for agricultural use.

The definition of an AGRICULTURAL BUILDING contained in Section 202 of Chapter 2 of the International Building Code/2000 is defined as per amended by Commission Order no. 02-025 adopted October 30, 2003 as:

AGRICULTURAL BUILDING: A structure designed and constructed to house farm implements, hay, grain, poultry, livestock or other horticultural products EXCLUSIVELY. This structure shall not be a place of human habitation or a place of employment where agricultural products are processed, treated or packaged, nor shall it be a place used by the public.

Said Agricultural structure may not be constructed without first obtaining an on-site inspection by the Franklin County Building Department, for the purpose of determining the feasibility of agricultural use. Such structure must be located a minimum of 200 linear feet from any residence located on the subject property or neighboring properties. An agricultural structure does not require a building permit. If this structure is not used 100% for agricultural purposes, then a building permit must be obtained. If this structure is exclusively agricultural, please execute in front of a notary truly swearing and affirming that the statements contained herein are true, and return this original document, along with the attached plot plan to the Franklin County Building Department within thirty (30) days. If this building is built under this exemption and not used exclusively for agricultural use, a sealed "as built" plan by a Registered Design Professional per current code and a double permit fee will be required. Such use may also expose the property owner to further legal action, which may include seeking an injunction, criminal prosecution, fines and/or incarceration.

Will you be installing a *new driveway* or *modifying an existing driveway*? _ YES _ NO

PLOT PLAN FOR PROPOSED AGRICULTURE BUILDING

Draw a plot plan in the space below or attach letter size plot plan showing the location of the proposed building Show any existing structures and distance from lot lines as well as any easements or any utility easements.

Please describe the use of this building:

Property Owner(s)

Date

State of Missouri, County of Franklin

Subscribed and sworn before me this ____ day of _____, 20____.

_____ Notary Public

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and has been completed without a permit, the permit fee shall be twice the total permit fee to cover the additional inspections and the time necessary to insure compliance with the code.

When construction has begun under the authorization of a permit, but the permit holder has failed to contact the Building Department for an inspection, and the construction has passed the stage in which construction has progressed to a point that the inspection cannot be reasonably done, then an additional 25% of the total permit fee will be assessed, to cover the increased cost and time devoted beyond normal inspection, and payment received prior to any conducting further inspections.

Refer to Commission Order No. 17-____ as amended and so ordered. Effective January 1, 2018, the fee to file an Agricultural Exemption is \$50.00. Effective January 1, 2018 the fee to file a signed complaint is \$35.00.

R108.2.1 Prorated permit renewal fee. To renew permit for three months, the renewal fee will be (1/8) one-eighth of the original permit fee. For six months, owner will pay (1/4) one-fourth of original fee, nine months (3/8) three-eighths and for twelve months, (1/2) one-half of the original permit fee.

R110.4 Temporary occupancy: is only valid as long as permit is valid.

R113.1 Unlawful acts. It shall be unlawful for any person, firm or corporation to erect, construct, alter, extend, repair, move, remove any building, structure or equipment regulated by this code, or cause same to be done, in conflict with or in violation of any of the provisions of this code.

R113.4 Violation penalties. Any person who shall violate a provision of this code or shall fail to comply with any of the requirements thereof or who shall erect, construct, alter or repair a building or structure in violation of an approved plan or directive of the code official, or of a permit or certificate issued under the provisions of this code, shall be guilty of a Class A Misdemeanor, punishable by a fine of not more than \$1,000.00, or by imprisonment not exceeding 1 year; or in lieu of fine, shall be charged double the amount of gain preceding from the

commission of such offense, not to exceed \$20,000.00. In case of a corporation, a fine may be imposed not to exceed \$5,000.00, or any higher amount not exceeding double the amount of the corporation's gain from the commission of the offense, as determined under Chapter 560.001 RSMo. Each day that a violation continues after due notice has been served shall be deemed a separate offense.

R113.5 Unlawful Continuance. Any person who shall continue any work after having been served with a stop work order as that person is directed to perform to remove a violation of unsafe condition, shall be liable to a fine of not less than twenty five dollars (\$25.00) nor more than (\$500.00).

SEC 115: Dangerous Structures

115.1 Conditions. Buildings, structures or equipment that are or hereafter become dangerous, shall be taken down, removed or made safe as the code official deems necessary and as provided for in this code.

115.2 Record. The code official shall cause a report to be filed on a dangerous condition. The report shall state the occupancy of the structure and the nature of the dangerous condition.

115.3 Notice. If a dangerous condition is found after a signed complaint is received, the code official shall serve on the owner, agent or person in control of the structure a written notice that describes the condition deemed dangerous and specifies the required repairs or improvements to be made to abate the unsafe condition, or that requires the dangerous building to be demolished within a stipulated time. Such notice shall require the person thus notified to declare immediately to the code official acceptance or rejection of the terms of the order.

115.4 Method of service. Such notice shall be deemed properly served if a copy thereof is delivered to the owner personally, sent by certified or registered mail addressed to the owner at the last known address with the return receipt requested; or delivered in any other manner as prescribed by local law. If the certified or registered letter is returned showing the letter was not delivered, a copy thereof shall be posted in a conspicuous place in or about the structure affected by such notice. Service of such notice in the foregoing manner upon the owner's agent or upon the person responsible for the structure

shall constitute service of notice upon owner.

115.5 Restoration. The building or equipment determined to be dangerous by the code official is permitted to be restored to a safe condition. To the extent that repairs, alterations, or additions are made or a change of occupancy occurs during restoration of the building, such repairs, alterations, additions or change of occupancy shall comply with the requirements of this code.

Chapter 2 General Definitions – Dangerous Structures

Any building, structure or portion thereof that meets any of the conditions described below shall be deemed dangerous:

1. The building or structure has collapsed, has partially collapsed, has moved off its foundation, or lacks the necessary support of the ground.
2. There exists a significant risk of collapse, detachment or dislodgement of any portion, member, appurtenance or ornamentation of the building or structure under service loads.
4. The building, or any portion thereof, is likely to collapse Partially or completely because of dilapidation, deterioration or decay; construction in violation of the International Residential Code; the removal, movement or instability of any portion of the ground necessary for the purpose of supporting such building; the deterioration, decay or inadequacy of its foundation; damage due to fire, earthquake, wind or flood; or any other similar cause.
5. The exterior walls or other vertical structural members list, lean, or buckle to such an extent that a plumb line passing through the center of gravity does not fall inside the middle one third of the base.
6. Any structure contaminated with chemical or other toxic substances.

Chapter 2 Bedroom. Add bedroom – Any room within a dwelling unit that is equipped with an egress window and closet in typical bedroom location or in manufactured homes bedroom (s) are as indicated by manufacturer’s floor plan and /or title.

Chapter 2 Accessory Structure

A structure that is accessory to and incidental to that of the

dwelling(s) and that is located on the same lot. Accessory structure not greater than 5000 square foot in floor area.

R301.2 (1) Table. Insert the following:

Ground Snow Load	20psf
Roof Snow Load	20psf
Wind Speed	115 mph
Ice Shield Under-Layment	Not required.
Seismic Design Category	C
Weathering	Severe
Frost Line Depth	30" (inches)
Termite	Moderate to Heavy
Decay	Slight to Moderate
Winter Design Temp.	0 degree F
Flood Hazards	Article 11 Appendix H Flood Plain Map
Mean Annual Temp	56 degrees
Air Freezing Index	1000

R302.13 –DELETE Fire protection of floors

R302.6 Table. Change all 1/2" to 5/8" Type "X".

R303.3 Bathrooms. Change Exception to:

Exception: The glazed window areas shall not be required where artificial light and mechanical ventilation system are provided. The minimum ventilation rates shall be 50 cfm (23.6L/s) for intermittent ventilation or 20 cfm (9.4L/s) for continuous ventilation. Ventilation air from the space shall be exhausted directly to the outside. (Outside will include as ridge vent, roof vent, gable vent, or soffit vent.)

R303.10 Required Heating. When the winter design temperature in Table R301.2 (1) is below 60 degrees F (16 degrees C), every dwelling unit shall be provided with heating facilities capable of maintaining a minimum room temperature of 68 degrees F (20 degrees C) at a point 3 feet (914 mm) above the floor and 2 feet (610 mm) from exterior walls in all habitable rooms at the design temperature. The installation of one or more portable

space heaters shall not be used to achieve compliance with this section nor shall heat sources which are manually fueled be allowed to be the only source of heat.

R311.3.2 **Exception:** A top landing is not required where a stairway of not more than three risers is located on the exterior side of the door, provided that the door does not swing over the stairway.

R311.3 Floors and landings at exterior doors.

Exception #2: Exterior doors other than required egress door(s) may install guards per Section R312 and door must remain operable.

R312.1.1 **Where required.** Guards shall be located along open-sided walking surfaces including but not limited to stairs, ramps and landings, that are located more than 30 inches (762 mm) measured vertically to the floor or grade below at any point within 36 inches (914 mm) horizontally to the edge of the open side. Insect screening shall not be considered as a guard.

R312.1.3 **Opening limitations (Guards).** Required guards shall not have openings from the walking surface to the required guard height which allow passage of a sphere 4 (four) inches (102mm) in diameter. Required guards shall not be constructed with horizontal rails or other ornamental pattern that results in a ladder effect.

R312.2 Delete window fall protection

R313 Delete automatic fire sprinkler systems.

R 314.1 **Smoke Alarms.** Smoke alarms shall be installed in the following locations:

1. Outside each separate sleeping area in the immediate vicinity of the bedrooms within ten-feet of door.

R317.1 **Location required.**

2. Delete “and are less than 8” from the exposed ground.”

R318 Delete- protection against subterranean termites.

R402.1 **Wood foundations.** Delete and replace with: Wood foundations are not allowed. R402.1, R402.1.1 and R402.1.2.

R403.1 **General:** Delete wood foundations.

R403.1.1 **Minimum size.** Minimum sizes for concrete and masonry footings shall be as set forth in Table R403.1 per ordinance. The size of footings supporting piers and columns shall be based on the tributary and allowable soil pressure in accordance with Table R401.4.1.

Delete tables 403.1(1), 403.1(2), 403.1(3) and replace with table 403.1

Table 403.1

Minimum width and thickness of concrete or masonry footings.

Load-Bearing value of soil (psf) 1,500 to 12,000

1 - story	8" thick X 20" wide
2 - story	8" thick X 20" wide
3 - story	10" thick X 24" wide
Franklin County Cover Design 9' – 10' Wall	10" thick X 40" wide (3) #4 rebar

Reinforcement – Two (2) No. #4 rebar continuous and tied in place.

Note: All load bearing footings must be reinforced with a minimum of 2-#4 rebar continuous, spaced evenly and placed 3" minimum from bottom of footing. In addition, as a minimum 1-#4 vertical rebar shall be placed 2 foot on center, placed in the center of the footing/foundation wall. The vertical rebar shall have an 8" L-shaped hook, as measured from the outside edge of the hook, to the end of the hook. The vertical bar hooked end shall be embedded in the footing 4" to 5", with 16" of rebar rising above the footing. All rebar shall be 40 grade.

Footnotes:

- a) W = 8" minimum
- b) Monolithic slabs allowed only on detached/uninhabitable structures.
- c) Monolithic slab minimum rebar (2) #4 horizontal, #4 vertical 2' on center bent in to slab and 2' by 2' grid in slab.
- d) Monolithic slab and footing must be poured at the same time.

R403.1.1 **Minimum size.** Delete: Replace with per table 403.1

R403.1.1.1 **Minimum size.** Minimum sizes for concrete and masonry footings shall be as set forth in Table R403.1 and Figure R403.1 (1). The footing width, **W**, shall be based on the load-bearing value of the soil in accordance with Table R401.4.1. Spread footings shall be at least 8 inches (152mm) in thickness. Footing projections, **P**, shall be at least 2 inches (51 mm) and shall not exceed the thickness of the footing. The size of footings supporting piers and columns shall be based on the tributary load and allowable soil pressure in accordance with Table 401.4.1 with a minimum dimension of 30" x 30" x 12" with #4 rebar 6" on center each way.

R403.1 (2) **Permanent Wood Foundation Wall Section:**

Delete in its entirety.

R403.1 (3) **Permanent Wood Foundation Crawl Space Section:**

Delete in its entirety.

R403.1.4.1 **Frost Protection** Except where otherwise protected from frost, foundation walls, piers and other permanent supports of buildings and structures shall be protected from frost by one or more of the following methods:

1. Extending below the frost line specified in Table R301.2 (1)
2. Erected on solid rock.
3. Decks 36 square feet or less not supported by a dwelling need not be provided with footings that extend below the frost line but require no less than a 12" x 12" x 4" masonry pad under post below final grade.

Footings shall not bear on frozen soil unless such frozen condition is of a permanent character.

R403.1.4.1 (1) All habitable spaces and any uninhabitable space with plumbing must have a continuous frost wall.

R404.1.1 (1) Delete. Replace with Table R404.1.1 (1) see below.

R404.1.1 (2) Delete. Replace with Table R404.1.1 (1) see below.

R404.1.1 (3) Delete. Replace with Table R404.1.1 (1) see below.

R404.1.1 (4) Delete. Replace with Table R404.1.1 (1) see below.

Table R404.1.1 (1)

Reinforced Concrete and Masonry Foundation Walls

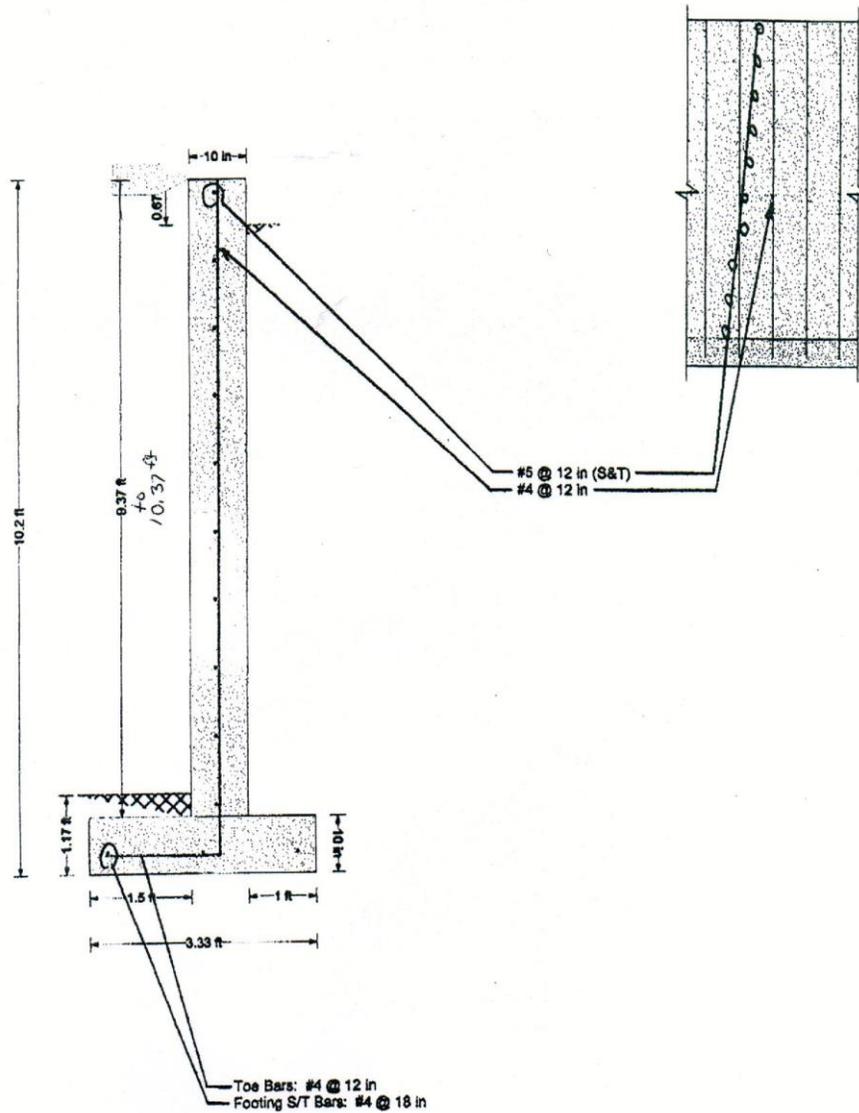
<u>Max. Wall Height</u>	<u>Min. Vertical / Horizontal Reinforcement size and spacing for 8”, 10”, and 12” Walls in All Soil Classes</u>
4 ft.	Vert.- #4 @ 4 ft. O.C. Horiz.- #4 @ 2 ft. O.C.
8 ft.	Vert.- #4 @ 2 ft. O.C. Horiz.- #4 @ 2 ft. O.C.(Min. 4)
9 ft.	Vert.- #4 @ 2 ft. O.C. Horiz. - #4 @ 2 ft. O.C.
9 ft. – 10 ft.	Design Required. – (Franklin County cover design for a 9’ – 10’ wall may be used or a Sealed Design from a “Missouri Registered Design Professional may be submitted.)
Over 10 ft.	Design Required.

- Note: a) Mortar shall be type M or S and masonry shall be laid in running bond.
b) Reinforcement shall be grade 40 min. Reinforcement shall be placed @ 3” from the inside face.
c) Vertical rebar shall extend to within 6” from the top of the foundation wall.
d) Wall height is measured from the top of balance fill to top wall.

FRANKLIN COUNTY COVER DESIGN FOR 9’ – 10’ WALL

FRANKLIN COUNTY COVER DESIGN FOR 9' - 10' WALL

Concrete $f_c = 3000$ psi
Rebar $F_y = 60000$ psi
Unit Weight = 150 lb/ft³



R404.2 Wood Foundation Walls: Delete

R405.2 Wood Foundations: Delete

R406.3 Damp proofing for Wood Foundations: Delete

R502.3.1 Sleeping areas and attic joist. Delete.

R502.3.1 (1) Table for Floor Joist Spans. Delete.

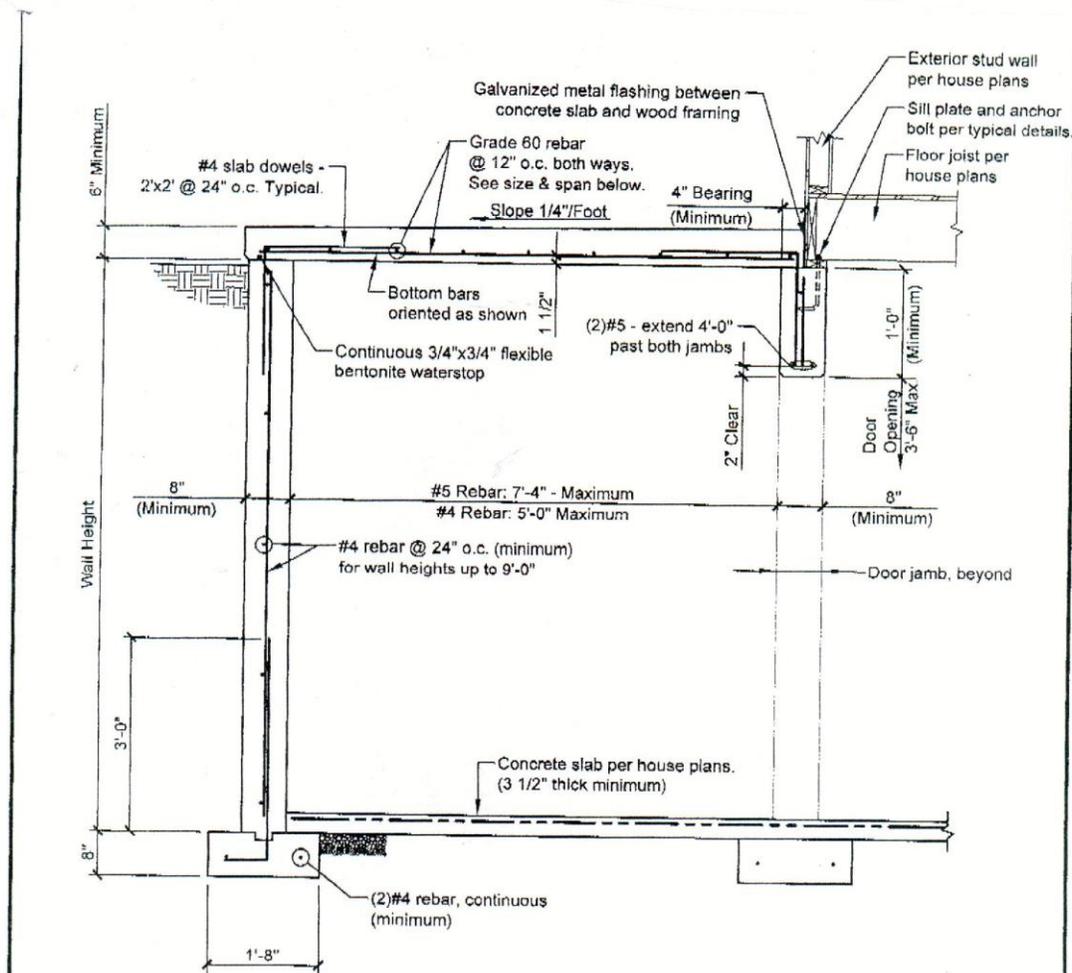
R502.6.1 Floor Systems. Joists framing from opposite sides over a bearing support shall lap a minimum of 3 inches (76mm) and shall be nailed together with a minimum three 10d face nails. A wood or metal splice with strength equal to or greater than that provided by the nailed lap is permitted. There shall be a 3-inch maximum overhang beyond bearing point.

R503.2.1.1 (1) Plywood Sheathing Table. Delete 3/8 from Roof and 19/32 and 5/8 from Sub floor.

R506.3 Suspended concrete floors. Minimum requirements for suspended concrete floors not needing a sealed design:

- 1) Maximum clear span width of seven (7) feet, four (4) inches or less.
- 2) Number four (4) steel rebar, installed twelve (12) inches on center each way with 1 – 1 ½ inch clearance from the bottom. Note: All laps of rebar must be twenty-four (24) inches minimum.
- 3) Number four (4) dowels, twelve (12) inches on center, poured into the top of the foundation that supports the floor, a minimum of twenty-four (24) inches and bent into slab a minimum of twenty-four (24) inches so they can be tied to the reinforcing rebar mat.
- 4) Minimum, Four (4) inch bearing ledge.
- 5) Six (6) inch thick concrete slab minimum, using six (6) sack, 4,000 p.s.i. concrete minimum.

TYPICAL SUSPENDED CONCRETE PORCH SLAB



TYPICAL SUSPENDED CONCRETE PORCH SLAB DETAIL

GENERAL NOTES:

1. All detailing, fabrication and placing of reinforcing bars shall comply with the A.C.I. "Manual of Standard Practice for Detailing Reinforced Concrete Structures" latest edition.
2. Reinforcing bars shall be Grade 40 minimum unless noted otherwise.
3. All concrete shall have a minimum compressive strength in 28 days of 4,000 psi. All concrete shall be air-entrained. Do not remove formwork until concrete strength reaches 4,000 psi.
4. Splices in reinforcing steel shall be 36 bar diameters or 1'-6" minimum, unless noted otherwise. Alternate splice locations in the suspended slab.
5. Slab reinforcing shall be inspected by the building inspector prior to pouring any concrete.

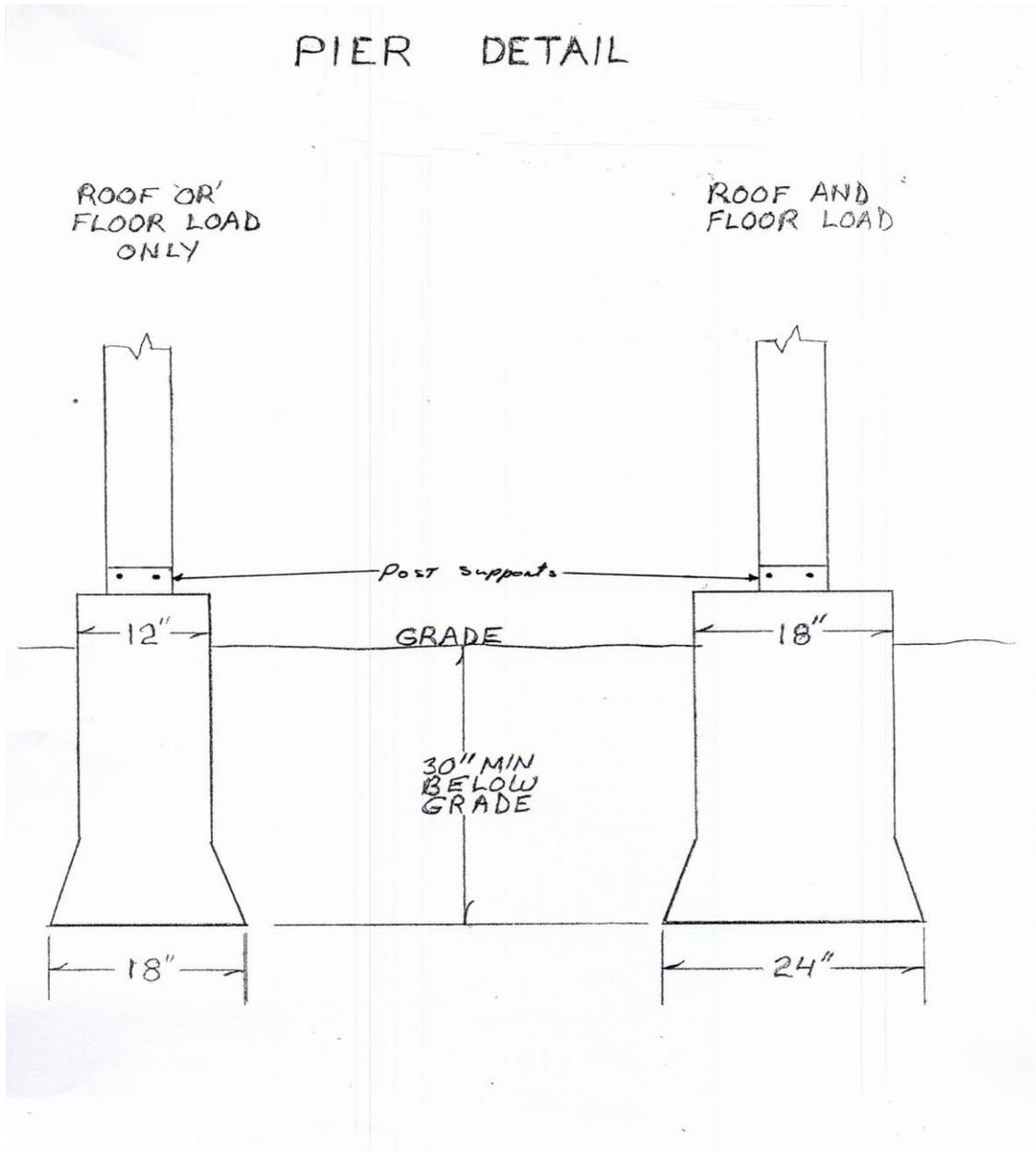
R507.2 Other Suspended Floors. All suspended floors that exceed the seven (7) foot, four (4) inch clear span width will require a

sealed design stamped by a Registered Design Professional.

R507.2.2.3 Deck lateral load connection.

Exemption #1. Decks under 30 inches from final grade.

R507.8.1 Deck pier detail. See figure 507.8.1 below



R602.3(5) Delete. Replace with table 602.3.1.

R602.7(1)(1) See table.

POLE BARN HEADER CHART TABLE R602.7(1)(1)

20# LIVE LOAD

5#DEAD LOAD

NO CEILING LOAD

PERLIN AND METAL ROOFING

Post spacing	20'	22'	24'	26'	28'	30'	32'	34'	36'	38'	40'
8' or less	(2)2x8	(2)2x8	(2)2x8	(2)2x8	(2)2x8	(2)2x10	(2)2x10	(2)2x10 precast	(2)2x10 6x18	(2)2x12	(2)2x12
9'	(2)2x8 precast	(2)2x8 precast	(2)2x8 precast	(2)2x8 precast	(2)2x10 precast	(2)2x10 6x18	(2)2x10 6x18	(2)2x10 6x18	(2)2x12 6x18	(2)2x12 6x18	(2)2x12 6x18
10'	(2)2x8 precast	(2)2x8 precast	(2)2x10 precast	(2)2x10 precast	(2)2x10 6x18	(2)2x10 6x18	(2)2x12 6x18	(2)2x12 6x18	(2)2x12 6x18	(3)2x10 6x18	(3)2x10 6x18
11'	(2)2x10 precast	(2)2x10 precast	(2)2x10 precast	(2)2x10 6x18	(2)2x12 6x18	(2)2x12 6x18	(2)2x12 6x18	(3)2x10 6x18	(3)2x10 6x18	(3)2x10 6x18	(3)2x10 8x20
12'	(2)2x10 precast	(2)2x10 precast	(2)2x12 6x18	(2)2x12 6x18	(2)2x12 6x18	(2)2x12 6x18	(3)2x10 6x18	(3)2x10 6x18	(3)2x10 8x20	(3)2x12 8x20	(3)2x12 8x20
13'	(2)2x12 6x18	(3)2x10 6x18	(3)2x10 6x18	(3)2x10 8x20	(3)2x12 8x20	(3)2x12 8x20	(3)2x12 8x20				
14'	(2)2x12 6x18	(2)2x12 6x18	(2)2x12 6x18	(3)2x10 6x18	(3)2x10 6x18	(3)2x12 6x18	(3)2x12 6x18	(3)2x12 6x18	(3)2x12 8x20	(3)2x12 10x24	(4)2x12 10x24
15'	(2)2x12 8x20	(3)2x10 8x20	(3)2x10 8x20	(3)2x12 8x20	(3)2x12 8x20	(3)2x12 8x20	(3)2x12 8x20	(3)2x12 8x20	(3)2x12 10x24	(4)2x12 10x24	(4)2x12 10x24
16'	(3)2x10 6x18	(3)2x10 6x18	(3)2x12 6x18	(3)2x12 6x18	(3)2x12 8x20	(3)2x12 8x20	(4)2x12 8x20	(4)2x12 10x24	(4)2x12 10x24	(4)2x12 10x24	(4)2x12 10x24

Foot notes:

1. All header #1 southern pine
2. All headers need to bear on post or bearing block minimum 20" long fastened vertically on post.
3. Header must be bolted or leg to post ½ " minimum diameter
4. Bottom # is size and type of concrete footing under post precast is 4"x14" and other sizes are poured in place concrete.

R702.3.7 Permitted on ceilings where framing spacing does not exceed 12" o.c. for ½" or 16" o.c. for 5/8" gypsum board (see

2009)

R702.3.8 Water Resistant Gypsum Board: Add the following sentence: Water resistant gypsum board shall be extended on wall at least twenty-four (24) inches past any tub or shower enclosure or area.

802.11.1 Delete and replace with Roof Tie Down Straps required on all trusses and rafters.

Chapter 11 - Delete

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P2804.1 Water Heater Sizing Chart

P2804.1 Water Heater Sizing Chart													
Fuel		Gas	Elect	Oil									
No. of bedrooms		1			2			3			-		
1 to 1 ½ baths	Storage (gal)	20	20	30	30	30	30	30	40	30	-	-	-
	Input (BTU/h or kw)	27k	2.5	70k	36k	3.5	70k	36k	4.5	70k	-	-	-
	Draw (gph)	43	30	89	60	44	89	60	58	89	-	-	-
	Recovery (gph)	23	10	59	30	14	59	30	18	59	-	-	-
No. of bedrooms		2			3			4			5		
2 to 2 ½ baths	Storage (gal)	30	40	30	40	50	30	40	50	30	50	50	30
	Input (BTU/h or kw)	36k	4.5	70k	36k	5.5	70k	38k	5.5	70k	47k	5.5	70k
	Draw (gph)	60	58	89	70	72	89	72	72	89	90	88	89
	Recovery (gph)	30	18	59	30	22	59	32	22	59	40	22	59
No. of bedrooms		3			4			5			6		
3 to 3 ½ baths	Storage (gal)	40	50	30	50	50	30	50	50	30	50	80	40
	Input (BTU/h or kw)	38k	5.5	70k	38k	5.5	70k	47k	5.5	70k	50k	5.5	70k
	Draw (gph)	72	72	89	82	88	89	90	88	89	92	102	99
	Recovery (gph)	32	22	59	32	22	59	40	22	59	42	22	59
For SI: 1 gallon = 3.785L, 1 gallon per hour = 1.05 mL/s, 1 BTU/h = 0.2931 W.EF= 1.8EC+32 NOTE: Storage capacity, input and the recovery requirements indicated in the table are typical and may vary with each individual manufacturer. Any combination of these requirements to produce the 1-hour draw stated will be satisfactory. Recovery is based on 100EF. Water temperature rise.													

Exception: #1 Other types of heaters than those listed above may be used if the recovery rate is equal to above chart.

R1005.4.1 Fireplace flue chase specs. (1) layer 5/8 Type “X” Drywall that is fire taped or caulked. For Wood burning fireplace complete chase must be dry walled to roof sheathing. For a Gas fireplace, ceiling and exterior walls must be dry walled.

P2602.1.1 Public water or sewer. The water-distribution and drainage system of any building or premises where plumbing fixtures are installed and within an established District shall

connect to those utilities. When either a public water supply or sewer system, or both, are not available, an individual water supply or individual (private) sewage disposal system or both shall be provided.

Exception: If service is not available or over 50 (fifty) feet from lot line per written proof from the utility or deemed feasible by Building Official and/or Utility District than an On-Site Water and or Sewer may be installed.

P2903.5 Made on-site arresters allow 12” minimum above supply line.

Table P2905.5 Delete Type WK, WL, M & WM Copper or Copper – alloy tubing.

Table 3002.1(1) Above-Ground Drainage and Vent Pipe:

Delete the following materials from this table:
ABS Pipe Sch. 40, Polyolefin Pipe or composite wall.

Table 3002.1(2) Underground building drainage and vent pipe:

Delete the following materials from this table: ABS pipe Sch. 40, DR-22 (PS200) and DR-24 (PS140) with a solid, cellular core, or composite wall. Asbestos-cement pipe, PVC-Sch. 40, DR 22 (PS200) and DR 24 (PS 140) cellular core or composite wall.

Table P3002.2 Delete the following from the table:

Bitumenized fiber drain and fittings	ASTM D1861
ABS-DWV pipe and fittings	ASTM D2661
ABS Sewer pipe and fittings	ASTM D2751
ABS Schd. 40 DWV pipe with cellular core	ASTM F628
Below grade.	
PVC – 40 with cellular core below grade.	ASTM F981

P3103.1 Roof extension. All open vent pipes, which extend through a roof shall be terminated at least twelve (12) inches except that where a roof is to be used for any purpose other than weather protection, the vent extension shall be run at least 7 feet above the roof.

P3113.1.1 Main vent stack. Every building shall have a main vent a minimum of three (3) inches in diameter that is either a vent stack or a stack vent. Such vent shall run undiminished in size and as directly as possible from the building drain through to the open air above the roof. All other vent extensions to the outside shall not be less than two (2) inches in diameter.

P3114.3 Where Permitted. Individual vents, branch vents, circuit vents and stack vents shall be permitted to terminate with a connection to an air admittance valve. Where a connection to the venting system of a structure is non-accessible, approval can be granted by the Building Official. This will be done on a case-by-case basis.

P3201.4.1 Floor drains in attached garages and accessory structure shall have no traps and discharge to day light. Any other fixtures are prohibited to discharge into floor drain.

E3601.6.2 Service disconnect location. The service disconnecting means shall be installed at a readily accessible location either outside of a building or inside within five (5) feet of the nearest point of entrance of the service conductors. Service disconnect means shall not be installed in bathrooms. Each occupant shall have access to the disconnect serving the dwelling unit in which they reside. All service disconnecting means shall be in the same location.

E3605.5 Protection of service cables against damage.

Above-ground service-entrance cables shall be protected by one or more of the following: rigid metal conduit, intermediate metal conduit, rigid nonmetallic conduit suitable for the location, electrical metallic tubing or other approved means.

E3608.1 Grounding Electrode System. All electrodes specified in Sections E3608.1.1, E3608.1.2, E3608.1.3, E3608.1.4, E3608.1.5, and E3608.1.6 that are present at each building or structure served shall be bonded together to form the grounding electrode system. Where none of these electrodes are present, two or more of the electrodes specified in Sections E3608.1.3, E3608.1.4, E3608.1.5, and E3608.1.6 shall be installed and used. (250.50)

E3706.3 **Service connection required.** All main panels and sub-panels in non-commercial structures shall have a main breaker.

E3803.3 **Protection from damage.** Add to end of subsection: No water lines or sewer piping shall be within 2 feet of electric service conductors or electric conduit. If electric service conductors or electric conduit cross over or under the water line or sewer piping they must be encased with cement.

E3902.2 **Garage and Accessory building receptacles:** Add- Exception-Dedicated single receptacle and garage door receptacle on ceiling.

E3902.5 **Unfinished basement receptacle:** Add- Exemption#2- Dedicated single receptacle.

E3902.16 Delete- arc-fault circuit interrupter protection.

E3908.15 **Metal Boxes:** Add the following - #4 Approved grounding clips.

E4002.11 **Bathtub, shower and garden tub space.** A receptacle shall not be installed within a bathtub, shower, or garden tub space nor shall there be a receptacle within 5' cord path of the outside edge of tub.

Exemption #1: except for the devices directly associated with the hydro-massage tub.

Exemption #2: Maintain maximum distances from outlet to tub in small areas where five (5) feet is not attainable.

Appendix "E". Manufactured Homes with same changes as "2000" code per Commission Order 04-115.

AE505 Building Service Equipment. AE505.1 General. The installation, alternation, repair, replacement, addition to or maintenance of the building service equipment within the manufactured home shall conform to regulations set forth in the Manufactured Home Standards. Such work which is located outside the manufactured home shall comply with the

applicable codes adopted by this jurisdiction. Refer to
NEC/2002, Section 550.32.

Appendix “J”. Existing Structures.

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