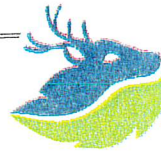


City of Deer Park

Department of Building & Zoning
 7777 Blue Ash Road
 Deer Park, Ohio 45236
 (513)-794-8860 Fax (513)-794-8866
jkelly@deerpark-oh.gov



Rediscover
DEER PARK

Residential Deck Drawings

A permit is required for any deck that is above grade level. This includes decks that have the bottom of the structure on the ground. Plans should include four copies of deck construction drawings and lot plans with the deck shown to scale and the distance to property lines.

When applying for a permit to construct a deck, there are a few items that must be submitted for building and zoning compliance. These items need to appear on the drawings submitted with the application form for a permit. They are related to requirements in the 2019 Residential Code of Ohio. A copy of the code is available for reference at <https://www.com.ohio.gov/dico/BBS> Click "Codes"

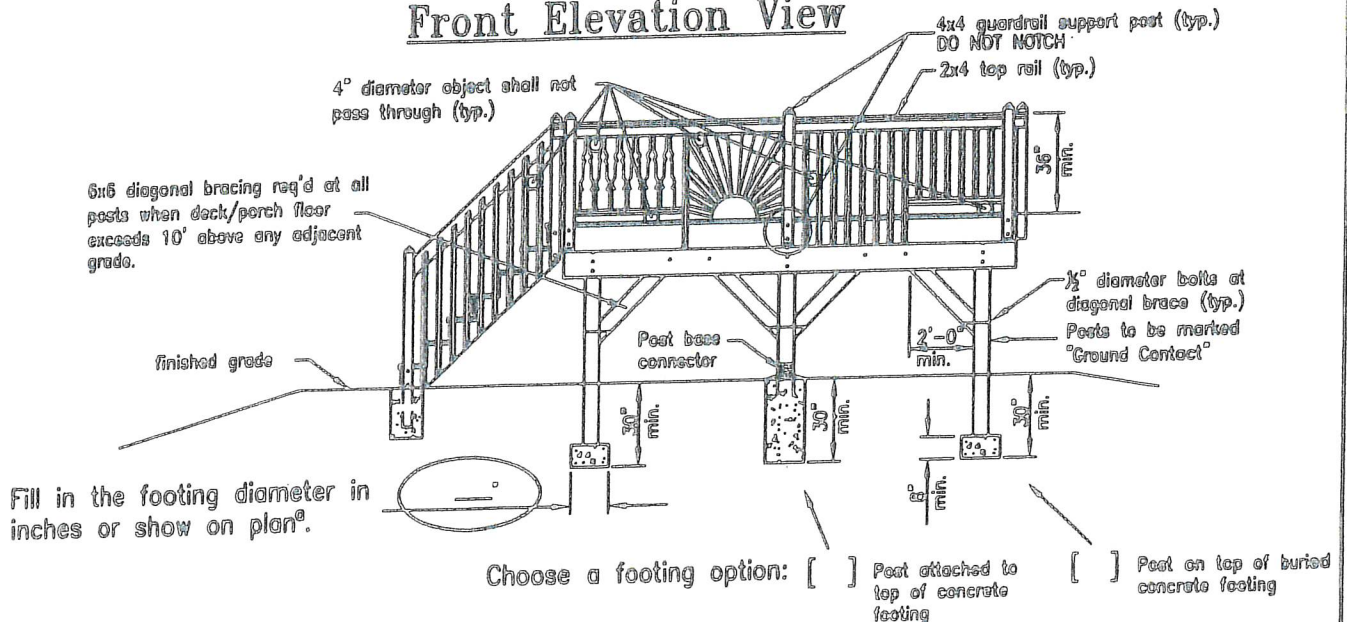
The information and details shown on the following sheets can be used as part of your permit plans for your deck. They are available as a guide to help you with the detailing, and they can be used partially or in full. For example, if you have Framing Plans already prepared, then any of the other information, such as the Stair Section and one of the Ledger Board Details, can be printed and submitted along with the Framing Plan to complete your set of drawings.

Please call our office you have any questions or if you need assistance using the drawings. Our drawings are one example and are not the only way to comply for deck permits.

General Notes

- All lumber shall be pressure treated No. 2 Southern Pine, or better.
- All metal fasteners & hangers shall be hot-dipped galvanized steel, stainless steel, G185 galvanized or otherwise compatible with the wood treatment. All bolts shall be 1/2" diameter minimum.
- All beam end top rail splices shall occur at a post or otherwise on adequate bearing.
- All footings shall be cast-in-place concrete with a min. 2500 psi compressive strength.
- Guards are required at all areas where the deck/porch floor is greater than 30" above grade for a distance of 3 feet measured from edge of deck.
- Required guards shall be 36" tall (min.) and be constructed such that a 4" diameter object will not pass through.
- Guard post spacing shall not exceed 6 ft. on center.
- Guards and handrails are required at all stairs that are greater than 30" above grade.
- The deck/porch floor shall be within 30" of the top of the door threshold.
- Live Load Deflection: Joints & Beams - $L/360$
Guards - $L/240$
- Design Loads: Floor Live Load - 40 lbs./sf (min.)
Wind Speed - 90 mph (Vult 115mph)
Soil Bearing Pressure - 1500 lbs./sf
- Guards shall be designed for a 200 lb. concentrated load placed along the top rail in any direction, at any point.
- This deck/porch is not designed for hot-tub or spa loading.
- All exterior stairs & associated landings shall be illuminated.
- Post size is based on the height of the deck floor above finished grade (at the highest point):
0' to 8' high: 4x4, 4x6, 6x6
8' and up: 6x6
- The actual field construction shall match the approved plans. All field changes and/or deviations require an Engineering Change approval.

Front Elevation View



a. The typical footing size is 16" diameter. Smaller diameters may be permitted and larger diameters may be required based on the actual deck framing layout.

Rev. 7/1/2019

Property Address: _____

Application Number: _____

Sheet No.

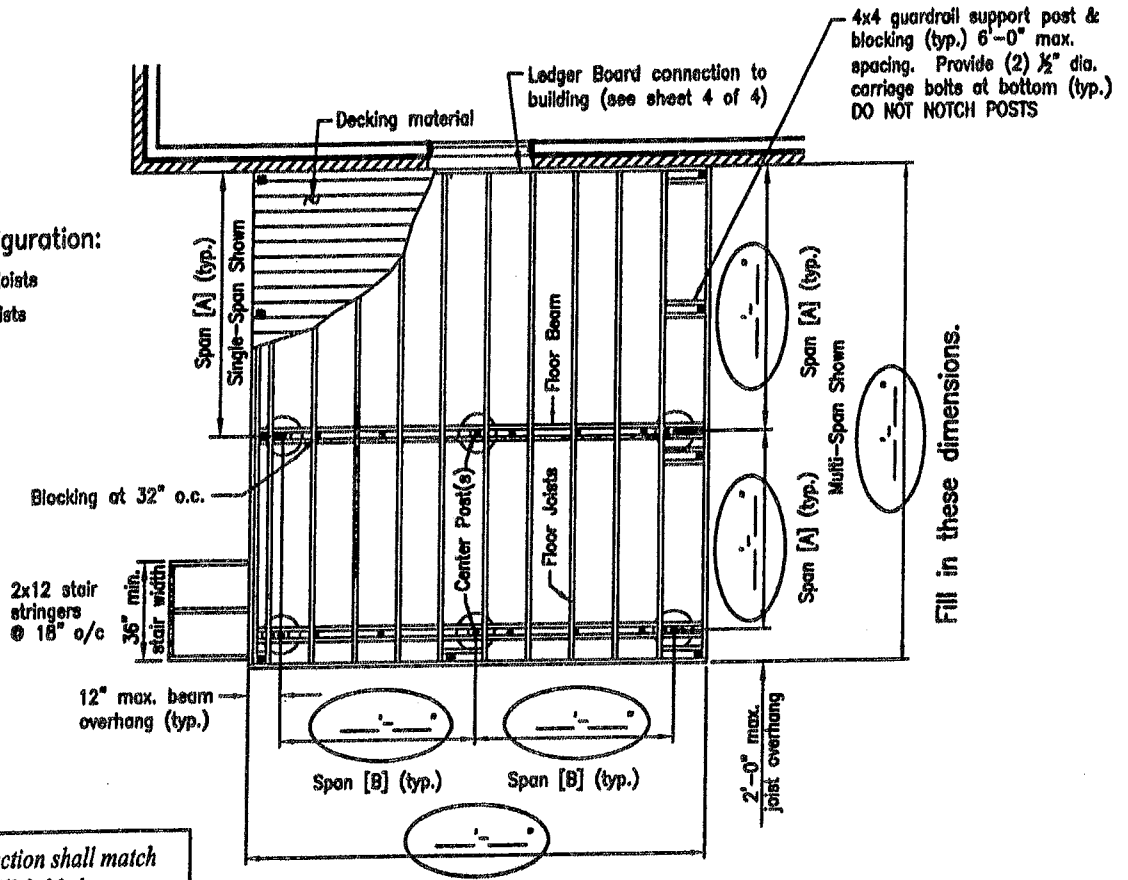
1 of 4

Residential
 Deck Drawings

Foundation & Framing Plan

Choose a span configuration:

- Single-Span floor joists
- Multi-Span floor joists



Fill in these dimensions.

Fill in these dimensions.

The actual field construction shall match the approved plans. All field changes and/or deviations require an approval by the building department.

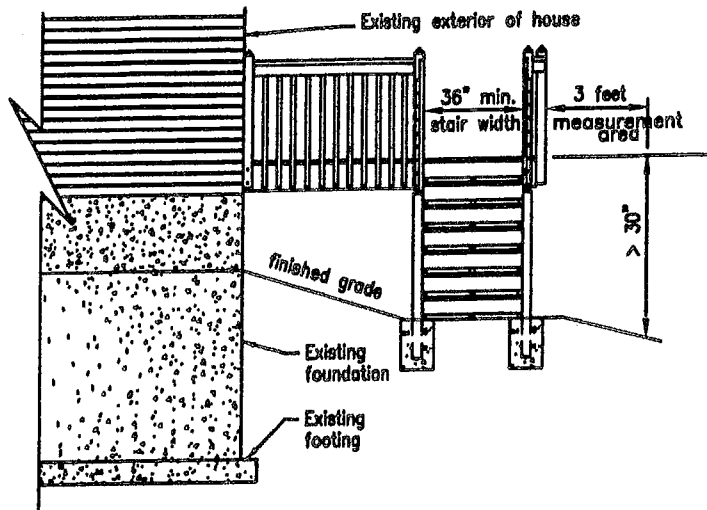
Framing Table

FLOOR JOISTS ¹			FLOOR BEAMS ²		
CHOOSE JOIST SIZE	LUMBER SIZE (nominal)	MAX. SPAN [A] (feet)	CHOOSE ONE ROW	LUMBER SIZE (nominal)	MAX. SPAN [B] (feet)
[]	2 x 6	9'-0"	[]	(2) 2 x 6	5'-6"
			[]	(2) 2 x 8	7'-0"
			[]	(2) 2 x 10	8'-6"
			[]	(2) 2 x 12	10'-0"
[]	2 x 8	11'-10"	[]	(2) 2 x 8	6'-2"
			[]	(2) 2 x 10	7'-4"
			[]	(2) 2 x 12	8'-7"
[]	2 x 10	14'-0"	[]	(2) 2 x 10	6'-9"
			[]	(2) 2 x 12	8'-0"
[]	2 x 12	16'-6"	[]	(2) 2 x 12	7'-0"

1. Choose one joist size with the associated maximum span. All joists are spaced a maximum of 16" O.C.
2. Choose one floor beam with the associated maximum span that corresponds with the size of joist chosen.

Application No.
Sheet No.
2 of 4
Residential Deck Drawings

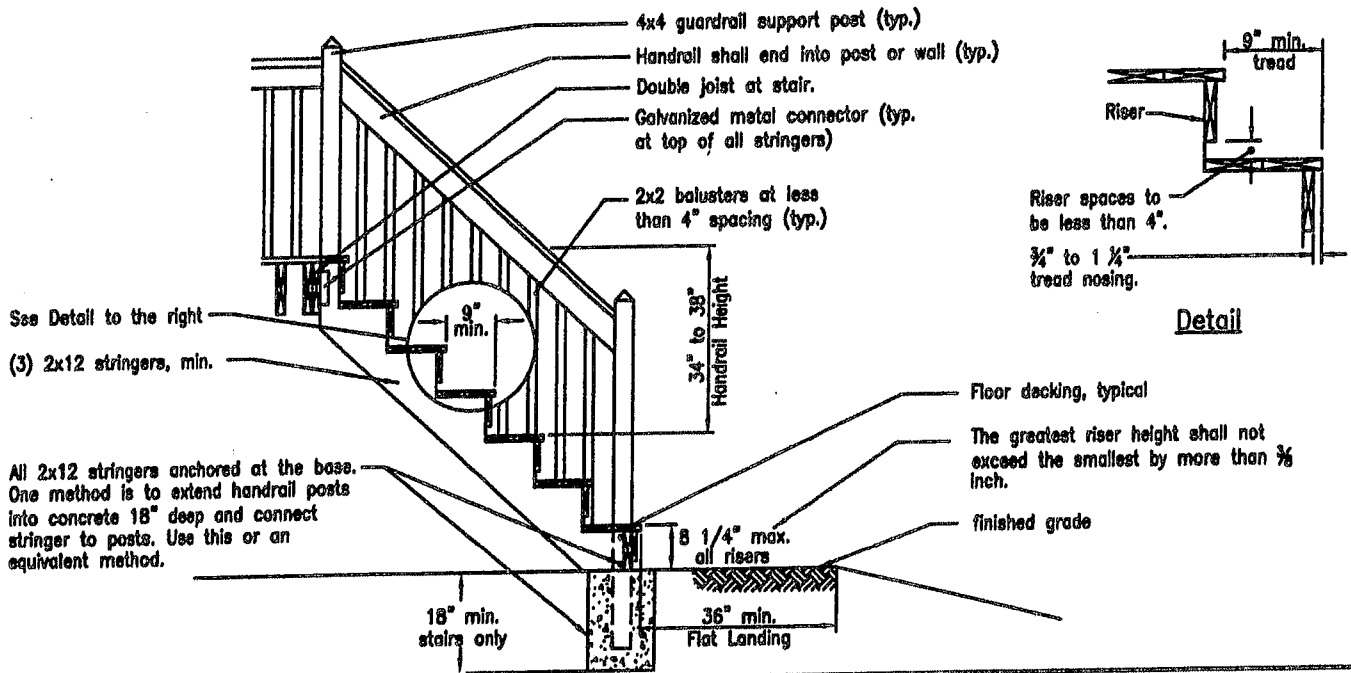
Left Side Elevation View



Min. 36" high guardrails required when deck surface is more than 30" above the adjacent grade for a distance measured 3 feet from edge of deck

Fixed Seating shall be guarded Min. 36" high from seat upward

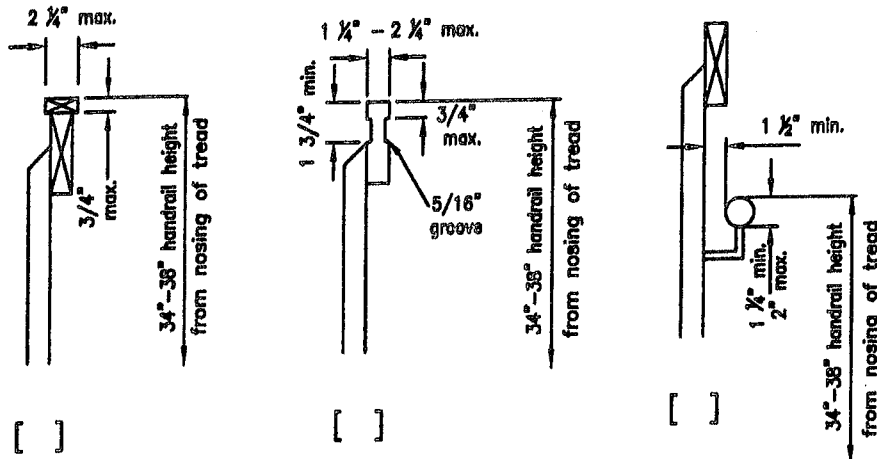
Stair Section View



Detail

Riser spaces to be less than 4".
3/4" to 1 1/4" tread nosing.

Handrail Sections at Stairs



Choose a handrail grip style: [] [] []

Application No.

Sheet No.

3 of 4

Residential Deck Drawings

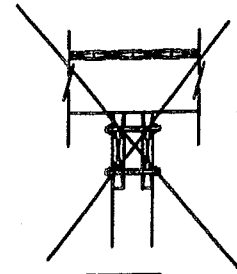
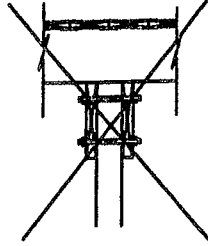
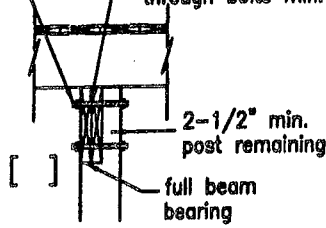
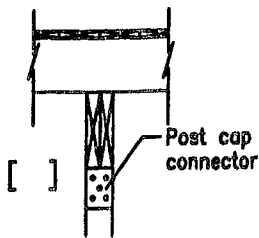
Rev. 7/1/2019

Beam-to-Post Connection Details

Choose one beam-to-post connection option. Choose one post size based on the height of the deck.

$\frac{1}{2}$ " min. through-bolts with nut and washer each end; provide 2 bolts minimum (typ.)

At all beam splices at center posts (see sheet 2) on each beam line, use 6x6 with (4) $\frac{1}{2}$ " through bolts min.



- [] 4x4 posts required up to 8'
- [] 6x6 posts (req'd over 8')
- (6x6 posts required at beam splices)
- [] 4x6 posts (up to 8')
- [] 6x6 posts (req'd over 8')
- (6x6 posts required at beam splices)

Details no longer permitted as of July 2019
"Direct Bearing" required

Ledger Board Details

Choose the ledger board detail that applies.

Flashing required from under the siding and over top of the ledger board, with drip-edge at ends.

Ledger board same size as deck joist, min.

Metal joist hanger

$\frac{1}{2}$ " through-bolts (nut & washer typ.) or lag screws into band joist (or wall studs) 16" O.C. * staggered top and bottom plus min. 2 bolts at each end. See Ledger Bolt/Lag Screw Layout this sheet.

[] Siding Applications

* If used; tip of lag screws must fully extend beyond inside face of band joist

$\frac{1}{2}$ " through-bolts (nut & washer typ.) or lag screws into band joist (or wall studs) 32" o.c. staggered top and bottom plus min. two bolts at each end. Additional support using Option 1 or 2 (or approved equivalent) must also be provided. See Layout this sheet.

Ledger board same size as deck joist, min.

Metal joist hanger

Option 2: 2x8 vertically @ 4'-0" o.c. max. with (4) $\frac{1}{2}$ " exp. anchors, spaced 4" o.c. both directions **DO NOT BLOCK WEEPHOLES**

Option 1: Install additional post and beam line (Per details at top of this sheet) parallel to foundation as shown on Sheet No. 2 Framing Table, within 3 feet of house wall

* If used; tip of lag screws must fully extend beyond inside face of band joist

Band Joist

4" min.

4" min.

3" min.

[] Brick Veneer Applications

* $\frac{1}{2}$ " Lag screws with 16" O.C spacing can be used for 10 feet max. joist spans. For longer joist spans, the maximum spacing shall be as follows in the joist span table below.

* Joist Span/Lag Screw Fastener Spacing			
10'-1" to 12'	12'-1" to 14'	14'-1" to 16'	16'-1" to 18'
15"	13"	11"	10"

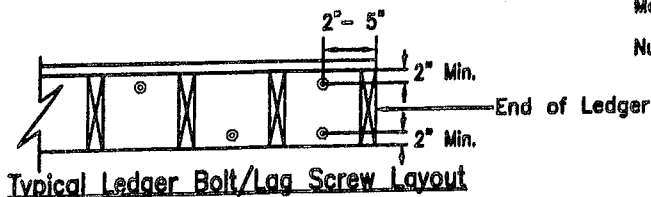
$\frac{1}{2}$ " expansion anchors 16" o.c. staggered top and bottom plus min. two anchors at each end. See Ledger Bolt Layout this sheet.

Ledger board same size as deck joist, min.

Metal joist hanger

Nut & washer (typ.)

[] Concrete Applications

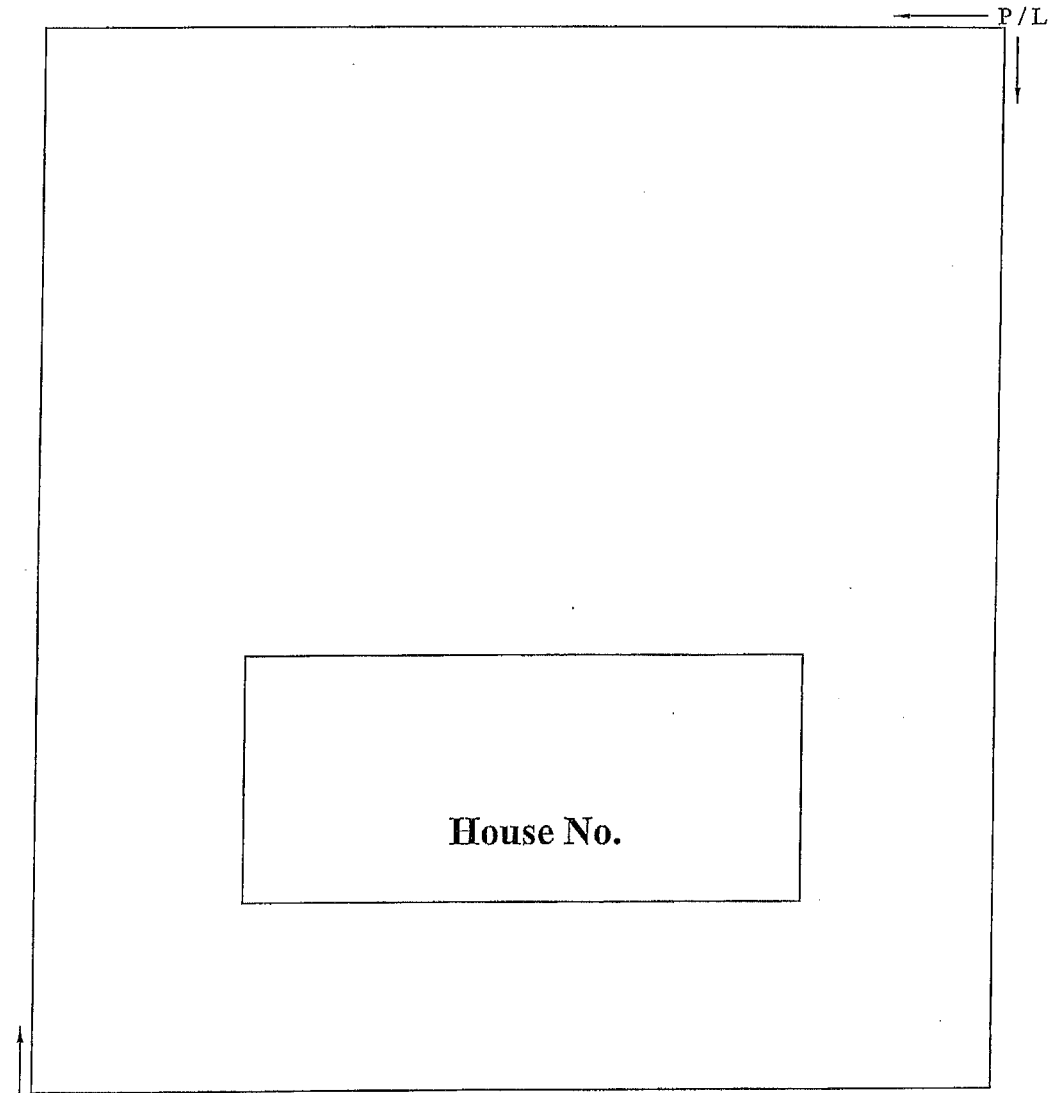


Application No. _____

Sheet No. **4 of 4**

Residential Deck Drawings

SITE PLAN



P/L

Curb Line

Street Centerline (Name)

Curb Line

Application No.

Sheet No.

5 of 5