



BJH RI

Cross Section Drawing

Check, circle, or fill in each detail to create your building design.

ROOF DESIGN

- Ice and Water Barrier (to 24" inside wall line)
+ Felt
- Roof Sheathing (Circle): 7/16" or 1/2"
OSB or Plywood

- 2 X _____ Rafters _____ on center
2 X _____ Ceiling Joists _____ on center
Hip/Valley Rafters _____
- or -

- Manufactured Trusses (Provide Mfgr. Specs.
at or before Rough Frame Inspection)
- Roof Ventilation: Total Vent Area in Sq. Inches: _____

WALL DESIGN

- Double Top Plate (Circle): 2X4 or 2X6
(Consult Building Department Staff for Single Top Plate Option)
- Window Header: 2 X _____ - or - LVL 1 3/4" X _____
- Door Header: 2 X _____ - or - LVL 1 3/4" X _____
- Studs (Circle): 2X4 or 2X6 at _____ on center
- Bottom Plate (Single) - Same as Top Plates
- Wall Sheathing: _____
- Weather Barrier (Circle): House Wrap or Felt
- Siding: _____
- Sill Plate (Circle): 2X6 or 2X8
(Must be Treated or Naturally Decay Resistant)

FOUNDATION DESIGN

1/2" X 10" Anchor Bolt, Washer and Nut (or other approved anchors), 6' on center and 12" max. from plate splices. Anchor Bolt MUST have 7" embedment in concrete.

Foundation Rebar (size, grade, location): _____

- UFER Ground (1/2" X 20' Rebar Typical) for connection to new electrical panel
- Foundation Depth - 42" minimum below finished grade
- Footing Size: 8"X16" minimum or _____
- Foundation Wall Width: _____ Height: _____
- Drainage Tile Required for Basement Foundations
- Slope Finished Grade Away from Building-min. 6" in 10'
- Maintain 6" Clearance from Exterior Siding to Grade

ROOF SLOPE 12 inches
_____ Inches

Attic Insulation: Minimum R49

INTERIOR FINISH

- Ceiling - 5/8" Drywall, Typical; Other _____
- Wall Insulation (Minimum R20):
6" Fiberglass or better in 2X6 Wall
- or -
2X4 Wall with Alternate Insulation (Circle):
Foam or Cellulose or Rigid Foam
Sheathing Plus Fiberglass (+ Wind Bracing)
- Vapor Barrier: _____
- Wall Finish - 1/2" Drywall; Other _____
- Wall Height (from Finished Floor): _____ ft. _____ in.

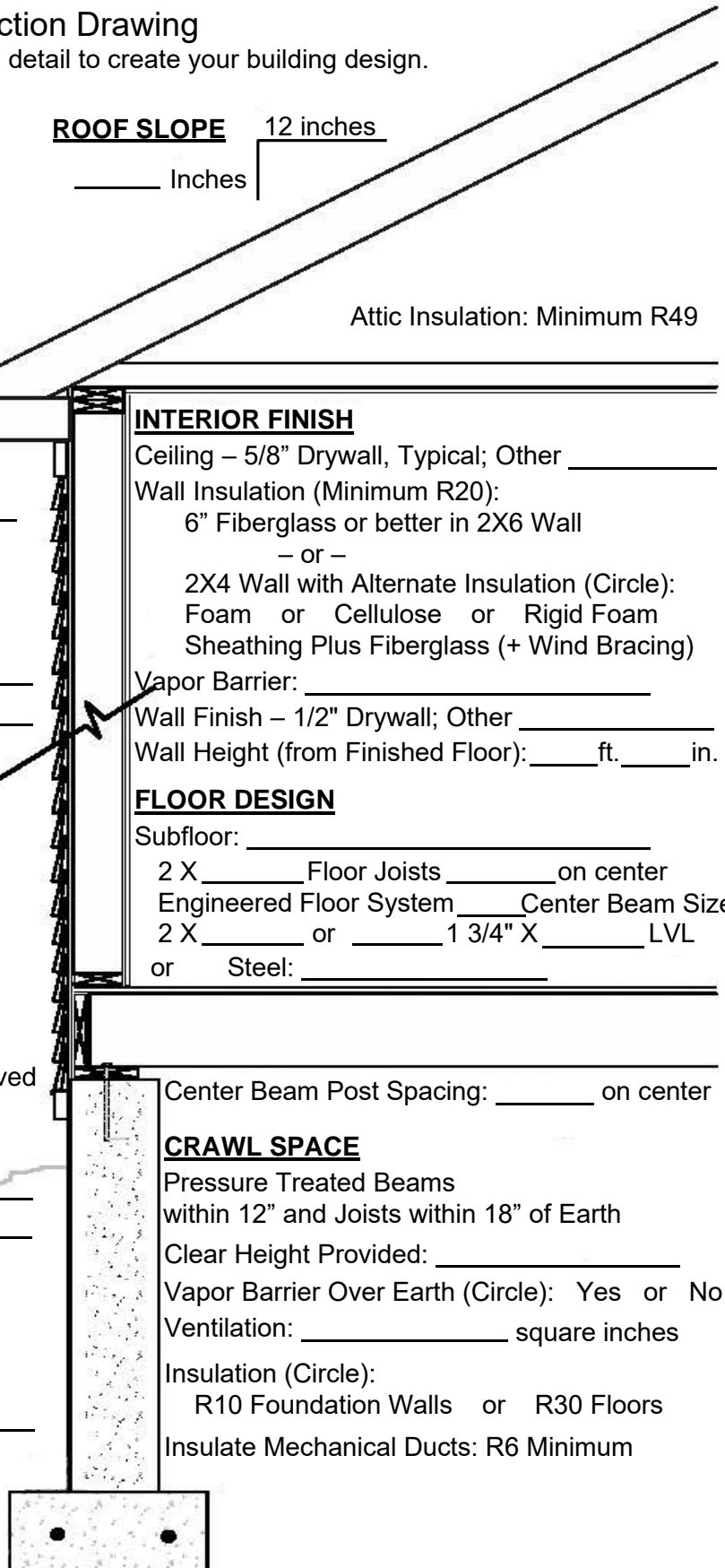
FLOOR DESIGN

- Subfloor: _____
- 2 X _____ Floor Joists _____ on center
- Engineered Floor System _____ Center Beam Size
- 2 X _____ or _____ 1 3/4" X _____ LVL
or Steel: _____

Center Beam Post Spacing: _____ on center

CRAWL SPACE

- Pressure Treated Beams within 12" and Joists within 18" of Earth
- Clear Height Provided: _____
- Vapor Barrier Over Earth (Circle): Yes or No
- Ventilation: _____ square inches
- Insulation (Circle):
R10 Foundation Walls or R30 Floors
- Insulate Mechanical Ducts: R6 Minimum





Residential Addition Construction Guidelines

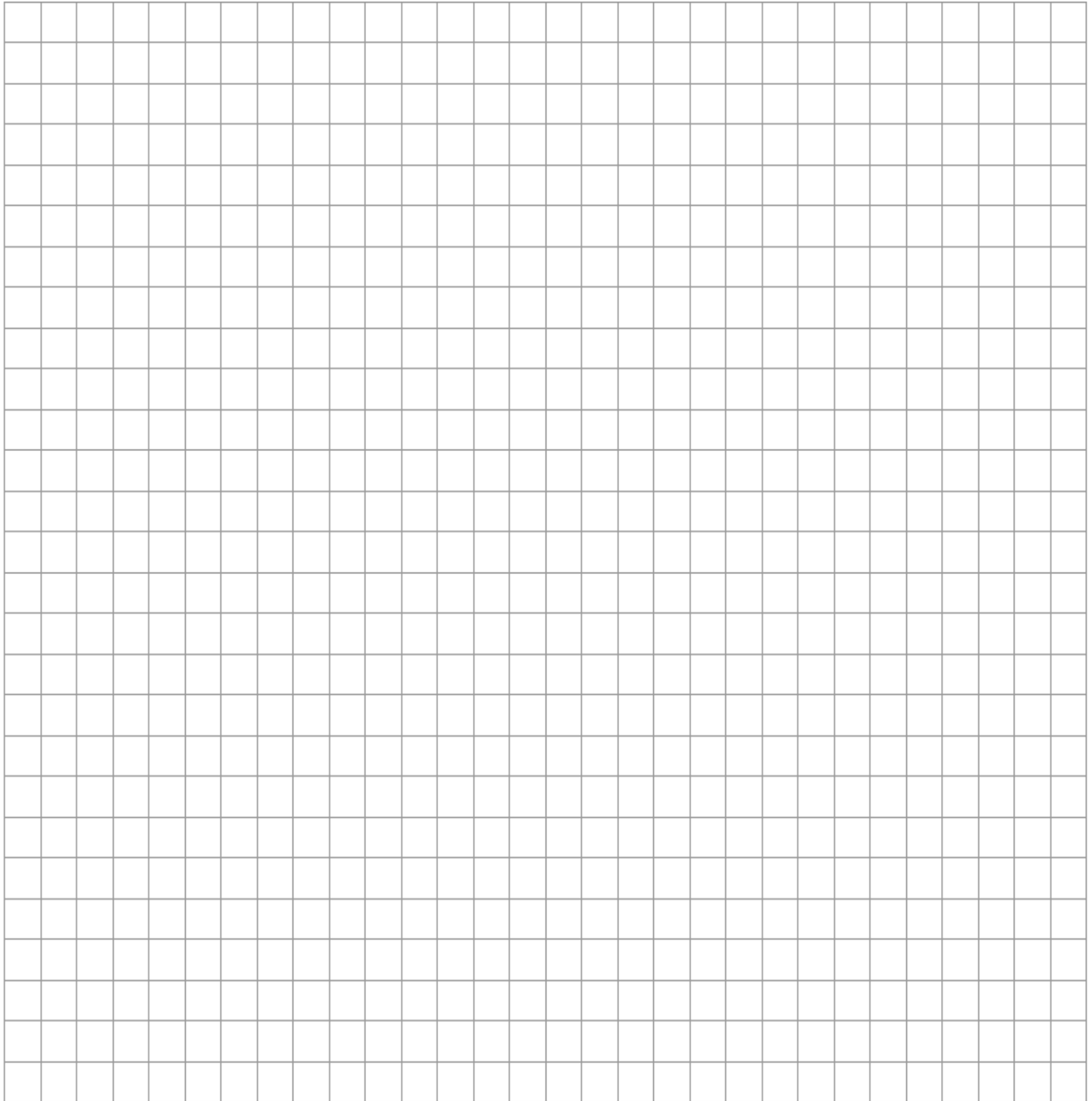
Community Development Department - Construction Permits and Inspection Services
215 Sycamore St Muscatine, IA 52761 - PH 563.262.4141 - FAX 563.262.4142
www.muscatineiowa.gov/26/Community-Development

2015 International Residential Code

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Addition Layout Drawing

1/4 inch = 1 foot



1/4" = 1 foot