Robert Hinkle

222 Brownell

Building Inspectors Copy

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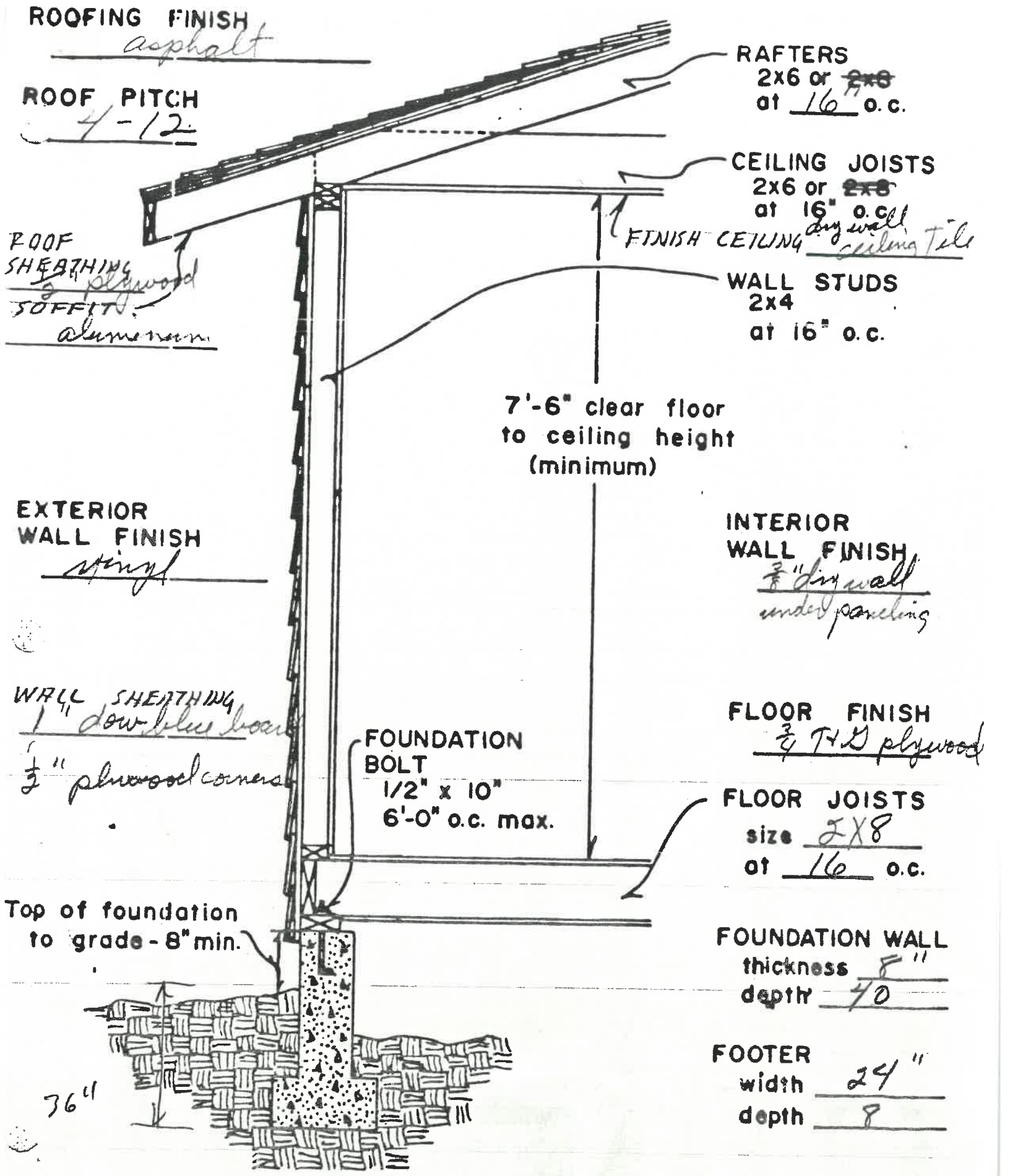
Footer 8" depth 24" width 36" below grade line
2 - ⅜" rods in concrete

Foundation 8" block - 5 courses
2 - vents - one on East side - one on West
anchor bolts ½ X 18 - one on each corner
and no more than 6 ft apart

Center beam - 3 - 2X8's with center support
Sills - 2X8
Floor Joist 2X8
Subfloor - ¾ T+G plywood
wall plates - single on bottom - double on Top
Studs - 2X4 on 16" Center
Sheathing - ½" plywood corners - 1" dow blue board
Window Headers - 2X10
Ceiling Joist - 2X6 16" on C 1X6 center support from roof
Rafters - 2X6 16" on C
Roof Sheathing ½" CDX plywood
Roofing - asphalt 15# felt underneath asphalt
Siding Vinyl
Interior walls + ceiling - ⅜" drywall


ROOFING FINISH
asphalt
ROOF PITCH
4-12
RAFTERS
2x6 or ~~2x8~~
at 16" o.c.
CEILING JOISTS
2x6 or ~~2x8~~
at 16" o.c.
FINISH CEILING dry wall ceiling Tile
ROOF SHEATHING 1/2 plywood
SOFFIT aluminum
WALL STUDS
2x4
at 16" o.c.
7'-6" clear floor to ceiling height (minimum)
EXTERIOR WALL FINISH
vinyl
INTERIOR WALL FINISH
3/8" dry wall under paneling
WALL SHEATHING
1" low blue board
1/2" plywood corners
FOUNDATION BOLT
1/2" x 10"
6'-0" o.c. max.
FLOOR FINISH
3/4 T+G plywood
FLOOR JOISTS
size 2X8
at 16" o.c.
Top of foundation to grade - 8" min.
FOUNDATION WALL
thickness 8"
depth 40
FOOTER
width 24"
depth 8
36"

$16' + 1'-4'' = 15'-4'' \div 2 = 7'-8''$ SPAN

AREA SUPPORTED = $7'-8\frac{1}{2}'' \times 7'-8''$

$7'-8'' \times 50\#$ P.S.F. = $383.5\#$ P.L.F.

$$\frac{384 \times 7.67 \times 7.67 \times 12}{8} = 33,885$$

$$5 - \frac{3-2\times8^{5} = \quad 4.5 \times 7.25^{2}}{6} = 39,421$$

BEAM — 3-2x8 IS OK

$39.421 \times 1080 = 42,575$