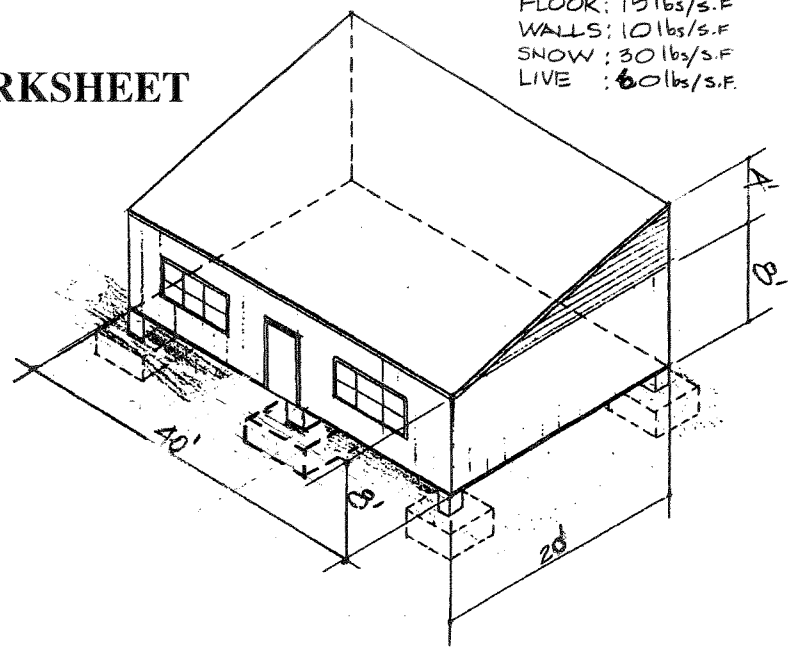
# FOUNDATION DESIGN WORKSHEET

ROOF : 15 lbs/s.F
FLOOR: 15 lbs/s.F
WALLS: 10 lbs/s.F
SNOW : 30 lbs/s.F
LIVE : 60 lbs/s.F




ROOF AREA _____ X ROOF LOAD _____ = _____

ROOF AREA _____ X SNOW LOAD _____ = _____

FLOOR AREA _____ X FLOOR LOAD _____ = _____

FLOOR AREA _____ X LIVE LOAD _____ = _____

WALL AREA _____ X WALL LOAD _____ = _____

TOTAL LOAD = _____

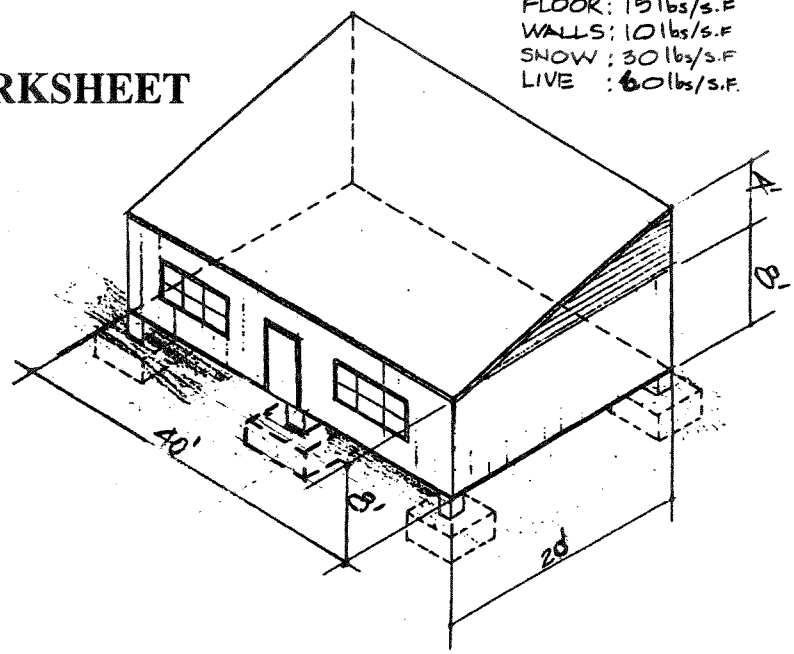
TOTAL LOAD _____ = _____
SOIL BEARING LOAD 2000 lbs/sf (total footing area)

TOTAL FOOTING AREA _____ = _____
6 FOOTINGS 6 AREA PER FOOTING

_____
size of square footing

# FOUNDATION DESIGN WORKSHEET

ROOF : 15 lbs/s.F
FLOOR: 15 lbs/s.F
WALLS: 10 lbs/s.F
SNOW : 30 lbs/s.F
LIVE : 60 lbs/s.F




ROOF AREA (20'x40')=800# X ROOF LOAD 15#/# = 12,000#

ROOF AREA (20'x40')=800# X SNOW LOAD 30#/# = 24,000#

FLOOR AREA (20'x40')=800# X FLOOR LOAD 15#/# = 12,000#

FLOOR AREA (20'x40')=800# X LIVE LOAD 60#/# = 48,000#

WALL AREA 1200# X WALL LOAD 10#/# = 12,000#

(40'x8')+2(20'x8')+$\frac{2(20'x4')}{2}$+(12'x40')

320# + 320# + 80# + 480# = 1200#

TOTAL LOAD = 108,000#

TOTAL LOAD / SOIL BEARING LOAD: 108,000# / 2000 lbs/sf = 54# (total footing area)

TOTAL FOOTING AREA / 6 FOOTINGS: 54# / 6 = 9# AREA PER FOOTING

3'x3'
size of square footing