



FRONT ELEVATION 1/4" = 1' 0"

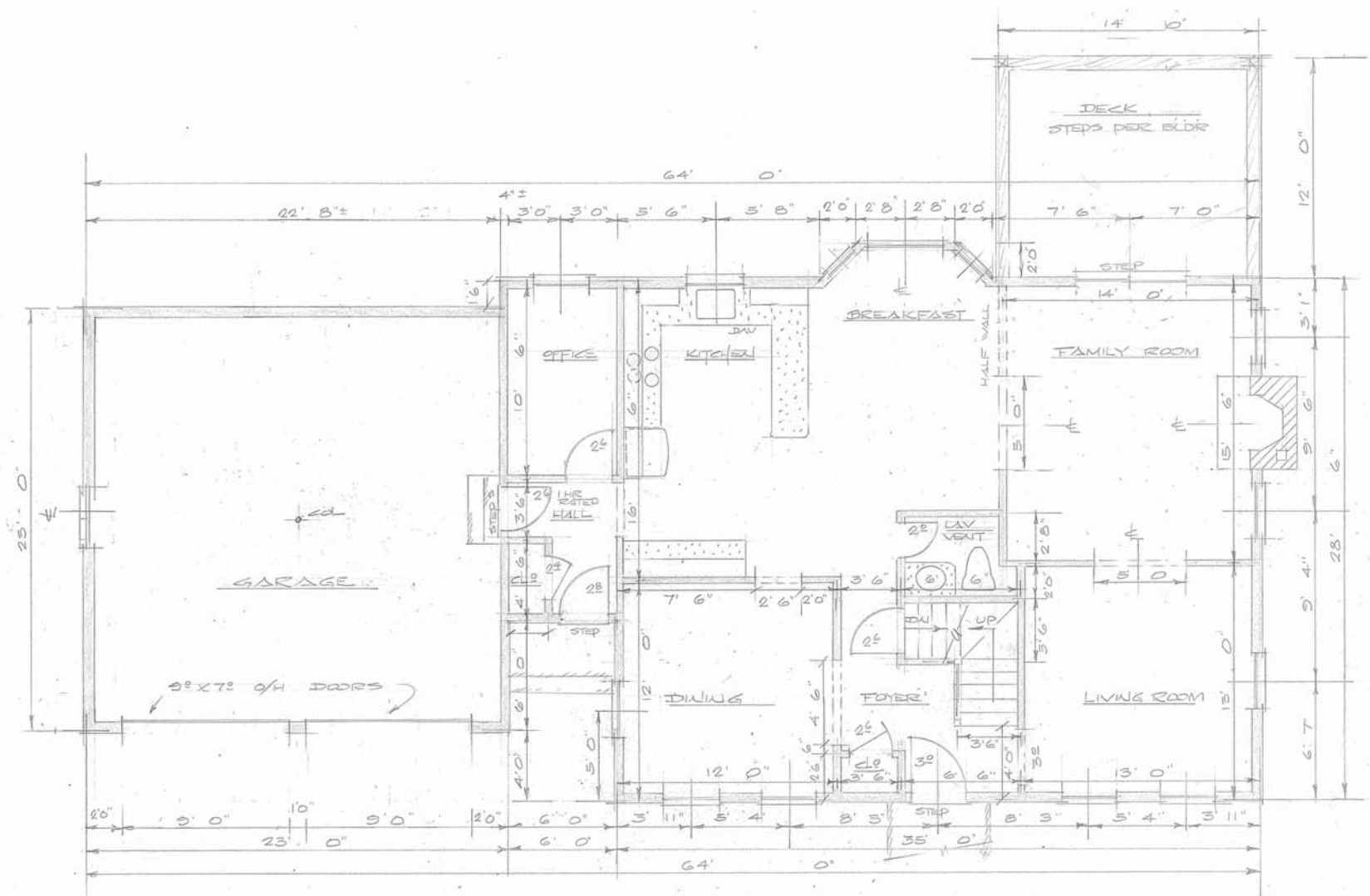
KWAHAR

WALSH BROS CONST CO INC

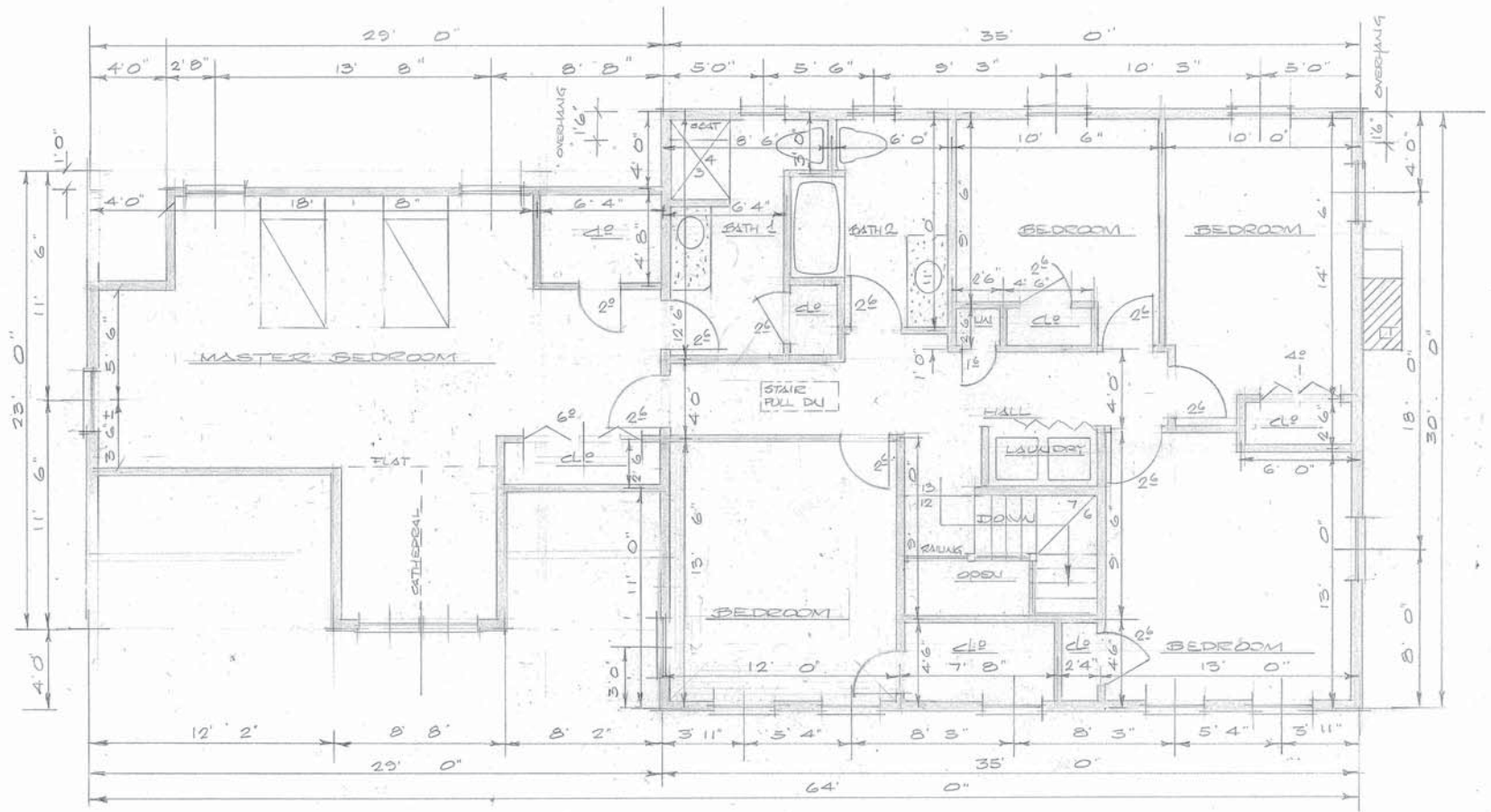
1 ST FLOOR	1115	S.F.
2 ^D	1528	S.F.
TOTAL	2643	S.F.



SCALE	1/4" = 1' 0"
JOB NO.	71993
3 BEDROOMS 2 1/2 BATHS	
HOWARD L. MILLARD CONSULTING ENGINEER 217 FARM LANE WESTWOOD MASS 02090	



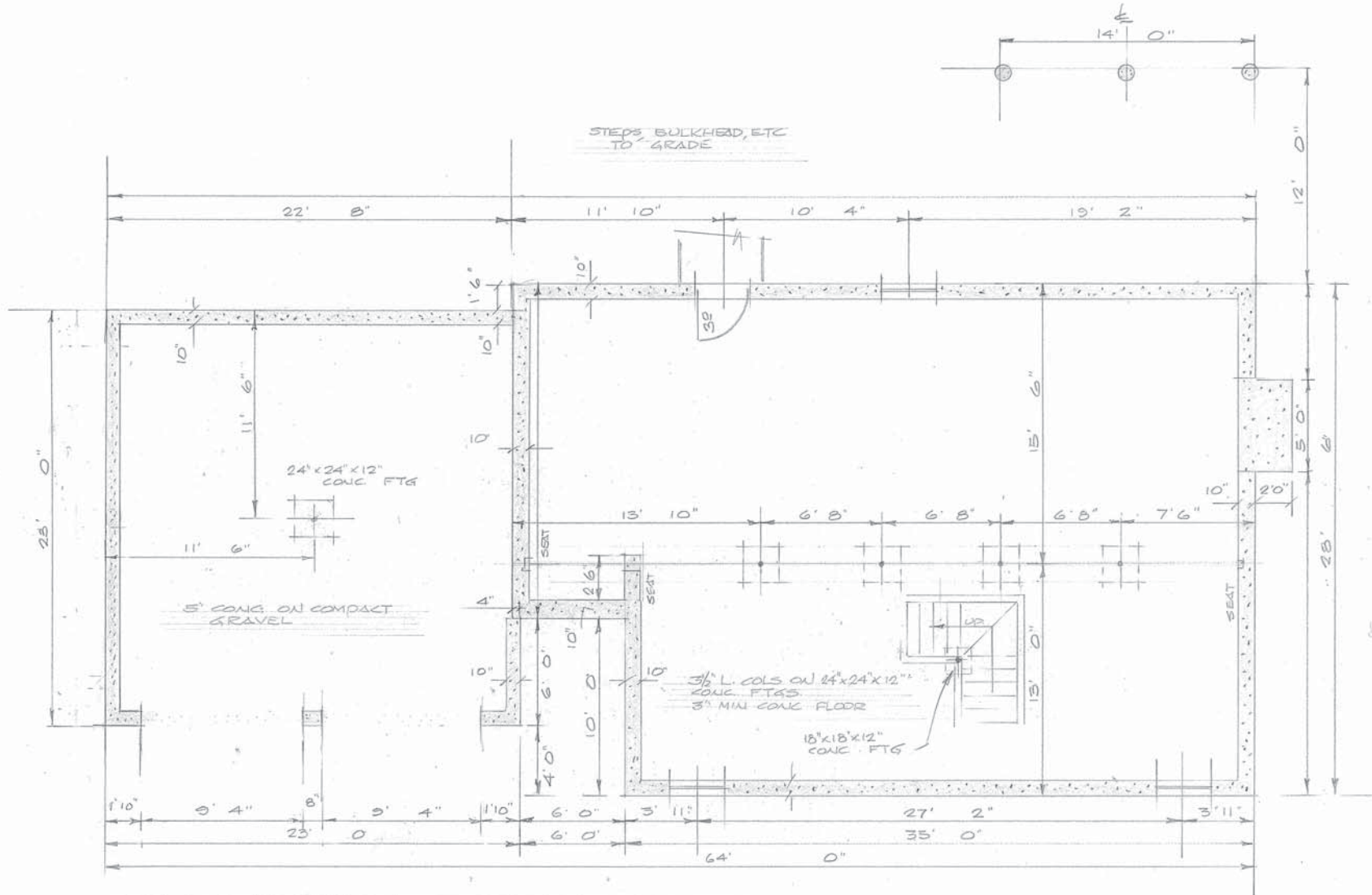
FIRST FLOOR PLAN
 $\frac{1}{4}'' = 1' 0''$



SECOND FLOOR PLAN
 $\frac{1}{4}'' = 1' 0''$

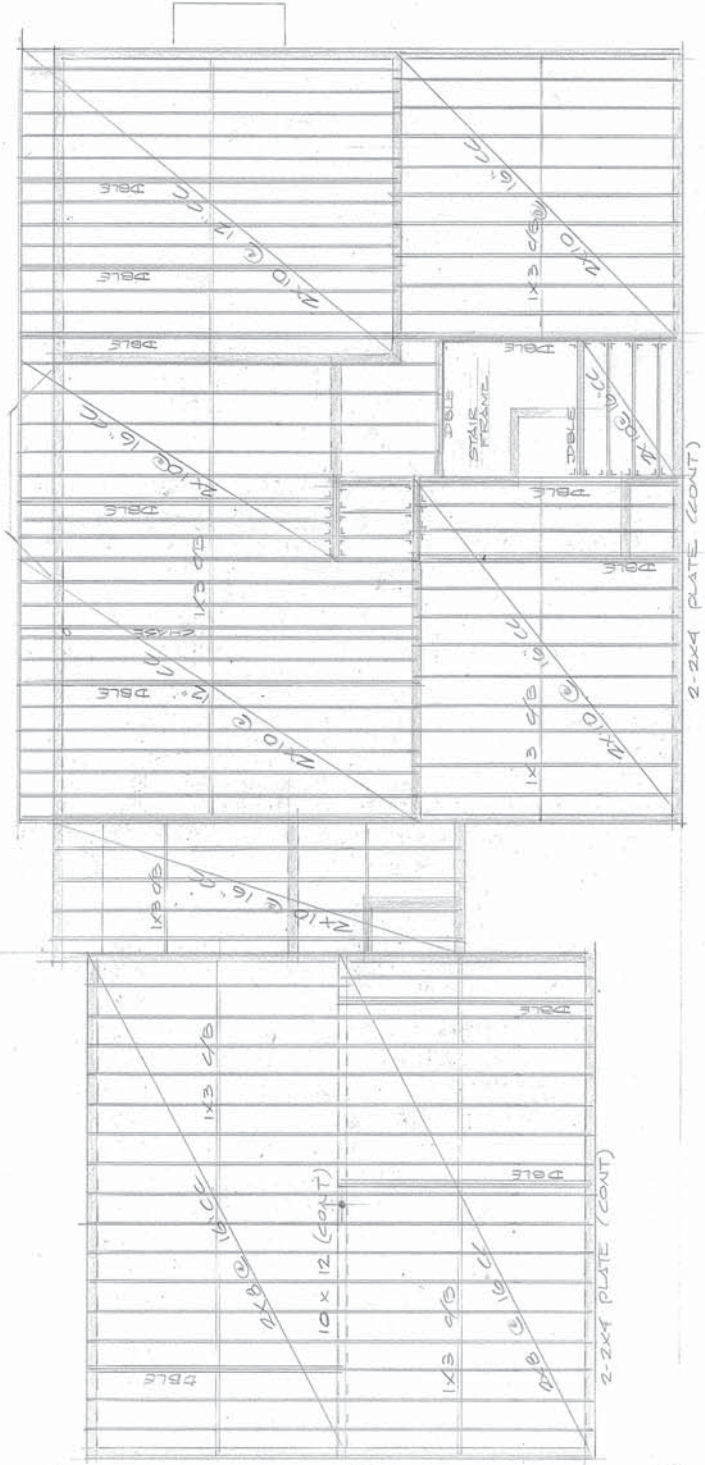
KANDSHAR

10" CONC FILLED SONOTUBES W/
MUSHROOMED BOTTOM SET AT
4' 0" + BELOW F. GRADE



FOUNDATION PLAN
1/4" = 1' 0"

8x10



SECOND FLOOR FRAME
1/4" = 1' 0"



FIRST FLOOR FRAME
1/4" = 1' 0"

KAUDWAR



VERIFY PORCH DETAILS W/ OWNER

REAR ELEVATION
1/4" = 1' 0"



LEFT ELEVATION $\frac{1}{4}''=1'-0''$



RIGHT ELEVATION $\frac{1}{4}''=1'-0''$

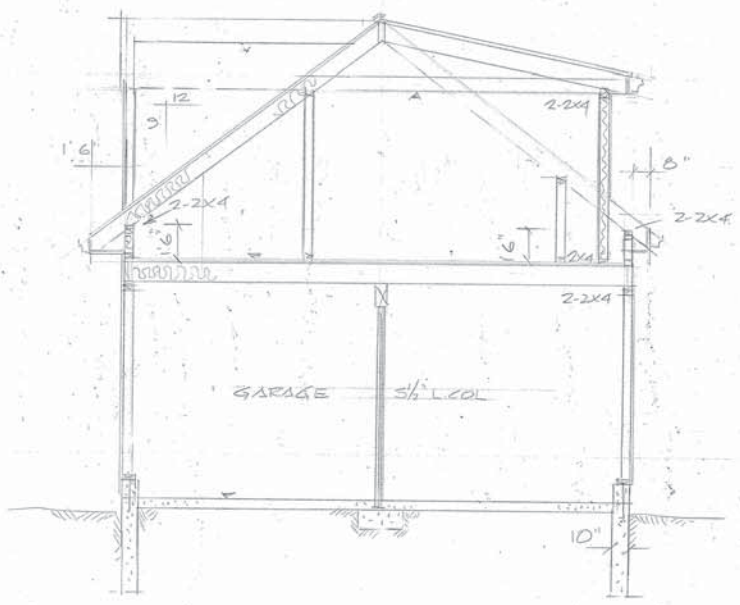
ENERGY CONSERVATION CALCULATIONS
MASS STATE BLDG CODE ART 22

ROOF/CEILING	
ATTIC AIR FILM	0.17
8" SUPER R30 INSULATION	30.00
STILL AIR CAVITY (STRAPPING)	0.68
1/2" GYPSUM BOARD	0.45
INSIDE AIR FILM	0.68
TOTAL	31.98
CODE	30.00

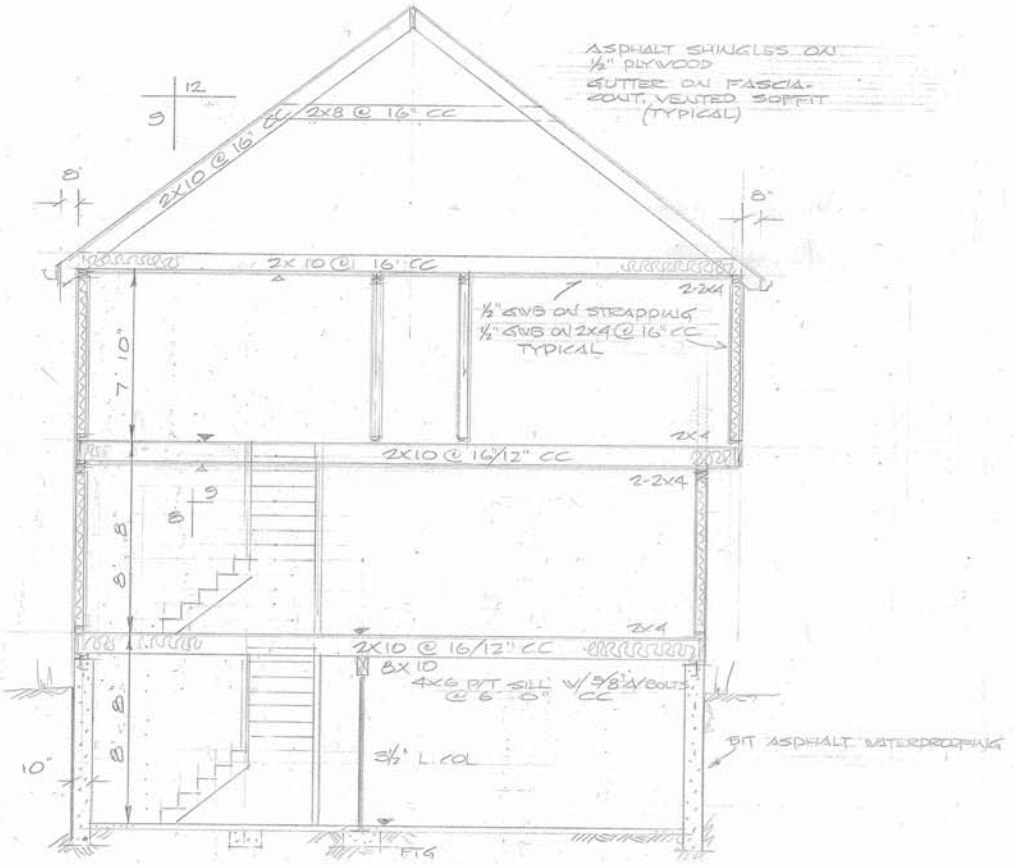
EXTERIOR WALLS (WOOD)	
OUTSIDE AIR FILM	0.17
EXTERIOR SIDING	0.87
BUILDING PAPER	0.06
1/2" PLYWOOD SHEATHING	0.63
3/8" WALL INSULATION	11.00
1/2" GYPSUM WALLBOARD	0.45
INSIDE AIR FILM	0.68
TOTAL	13.86
CODE	12.50

FLOORS EXPOSED TO OUTSIDE AIR	
OUTSIDE AIR FILM	0.17
8" FOILBACK INSULATION	24.00
STILL AIR CAVITY	0.68
5/8" SUBFLOORING	0.79
BUILDING PAPER	0.06
FINISHED WOOD FLOORING	0.68
INSIDE AIR FILM	0.68
TOTAL	27.06
CODE	12.50

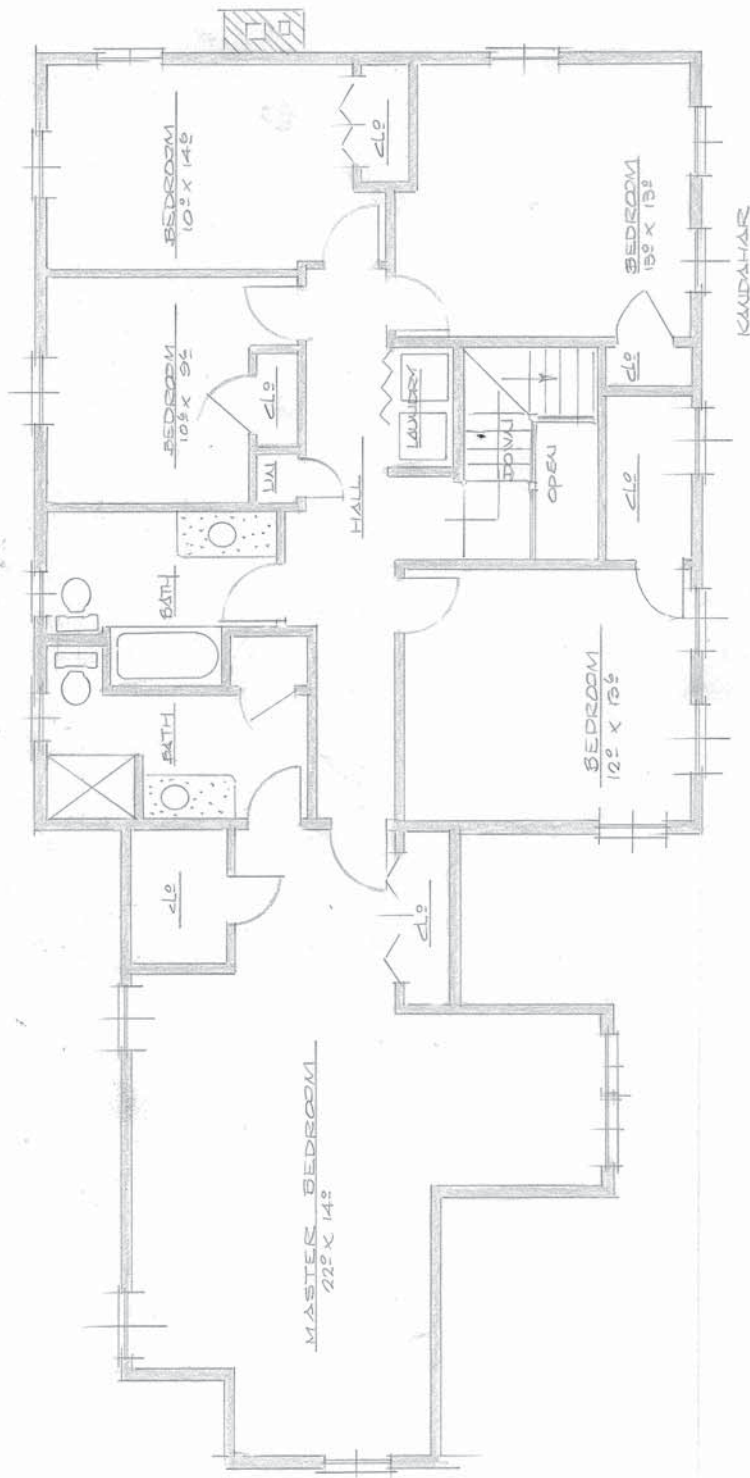
FURNISH/INSTALL INSULATED GLASS WINDOWS, DOORS, ETC



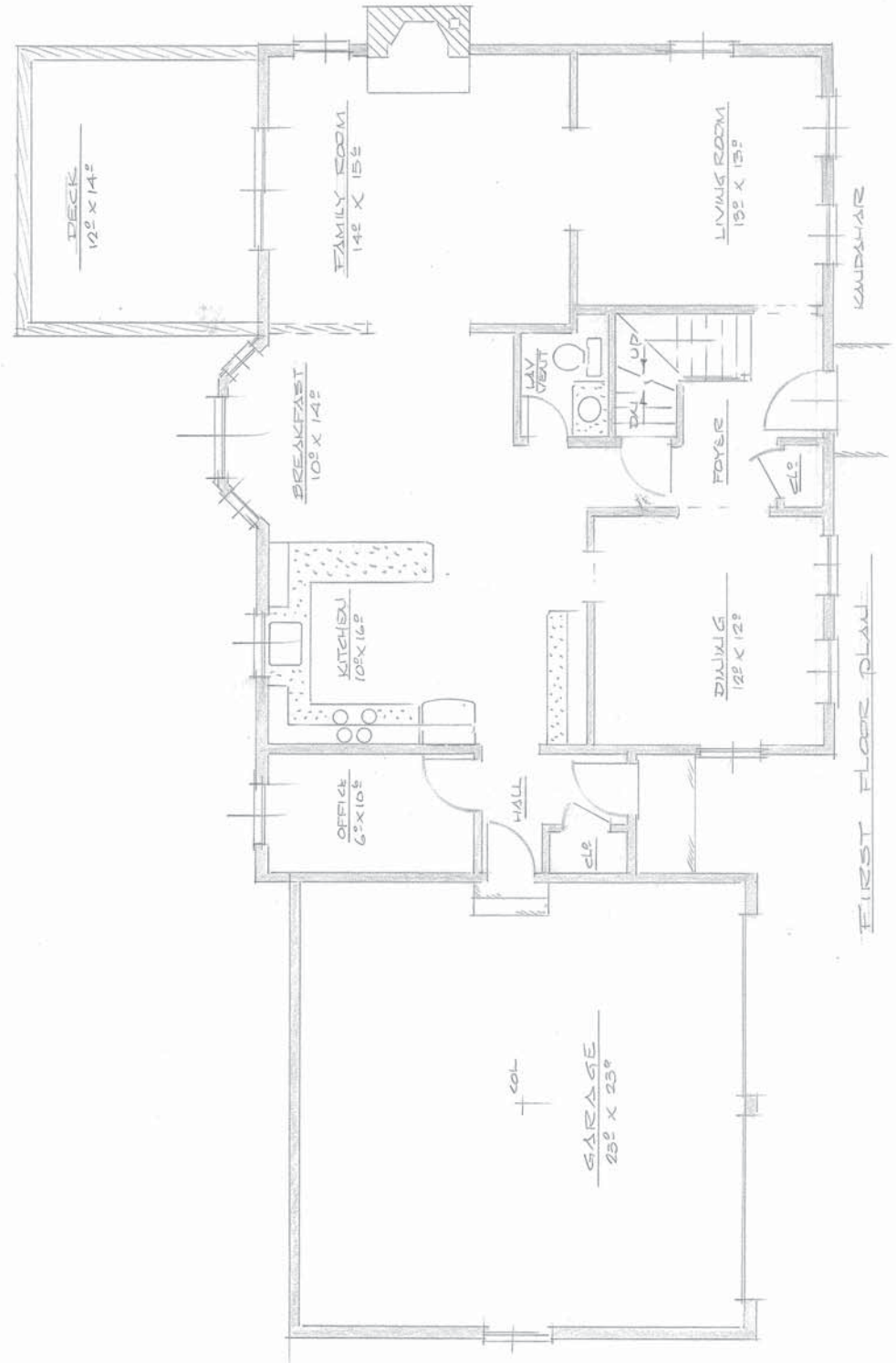
GARAGE SECTION
1/4" = 1' 0"



SECTION
1/4" = 1' 0"



SECOND FLOOR PLAN



FIRST FLOOR PLAN