THESIS
on
PLANS AND SPECIFICATIONS FOR A BUNGALOW.
Submitted to the faculty
of the
OREGON AGRICULTURAL COLLEGE,
for the degree of
Bachelor of Science.
by

Approved

Dept.
CONCRETE WORK.

Footings shall be of concrete, six inches square at top and twelve inches at bottom. To be composed of one part Portland cement, three parts sharp, clean sand and six parts of good clean gravel.

Chimneys—Chimneys to be built of common brick laid up in mortar composed of best lime, cement and sand. Chimneys to be plastered inside.

Living room fireplace to be of brick and face and hearth to be lined with unglazed green Grueby tile.

Inside Plastering——All rooms to be plastered with two good coats, finish coat to be a white float or sand finish worked to a true and even surface. Kitchen and bathroom to have adamant wainscoting four (4) feet six (6) inches high.

Wood Lath——All inside lath to be No. 1, 3/8 x 1 3/4 inch lath, free from stains, sap or bark. Joints broken every 18 inches and well nailed at bearings.

CARPENTER WORK.

All lumber to be used in the construction of this building must be good, well seasoned fir; finishing lumber must be thoroughly seasoned and dry.

First floor joists, 2 x 8 inches, 16 inches on centers.

Rafter, 2 x 4 inches, 16 inches on centers.

False rafters, 2 x 6 inches, dressed three sides.

Sheathing——The entire outside frame of building to
be lined with seasoned 6 inch and 8 inch lumber. Then cover outside sheathing with heavy building paper doubled around all openings and nailed with tin washer cap nails.

All outside of building to be shingled including posts.

Roof—The roof constructed of 3 x 4 inch rafters, 16 inch center, with 2 x 4 inch collar beams, cover rafters of roof with six inch and eight inch M. D. No. 1 sheathing, and then cover with best quantity Star A cedar shingles laid 4 1/2 inches to the weather.

Windows—All outside wood fencing that show when finished will be of second quantity clear fir; pulley stiles 7/8 inch thick, parting stops 1/2 inch thick, sash 1 3/8 inch thick, stool and apron 7/8 inch thick. Sills to be 1 3/4 inches thick laid 1 1/2 inch bevel per foot. All window stops to be secured every 15 inches with round headed screws. Panes to be leaded as shown in elevation plans.

Floors—The floors of all the rooms to be of best fir, No. 1 grade. This to be laid on rough inch lumber.

INSIDE FINISH.

Dining room and living room to have wood wainscoting constructed of 1 x 8 inch boards dressed, tongued and grooved, with base and plate rail cap. False beams in living room to be constructed of 7/8 x 6 inch lumber. All door and window casing to be 7/8 x 4 1/2 inch.
Construct drawers and lockers, as shown on scale drawing.

Doors---All outside door frames 1 3/8 inches thick, doors 2 1/4 inches thick. Front door to be of fir, same color as rest of casing, to be 2 1/2 inches thick, made of 1 x 3 inch lumber, tongued and grooved. Door to be hinged on heavy brass hinges, as shown.

PLUMBING AND SEWERAGE.

Stacks---Soil pipes to be extra heavy cast iron, with lead and caulked joints.

Water supply---Tap the water main in street and continue water from street curb with 1 1/4 inch extra strong lead pipe provided with stop cock box and rod at curb. Supply continued as far as hot water boiler, full size with 5/8 inch branches to sink, water closet and bathtub, and 1 1/2 inch branch to wash basin. Hot water supply from boiler to fixtures to be a galvanized iron pipe of same size as for cold water and extended to sink basin and bathtub.

Sinks---The sinks to be 30 x 30 cast iron, white enamel with 15 inch high roll edge back; sink and back in one piece.

Boilers---Furnish and set up complete, next to kitchen stove, one 30 gallon tank, with cold water supply and hot water discharge connections, to different fixtures.

Water closet---Furnish and set in place in bathroom a plain syphon jet bowl, vitreous ware, with copper lined
birchwood tank seat and cover; flush and supply pipes nickel plated, with stop cock in supply.

Bathtub—Bathtub to be 5 feet, cast iron, white enamel, provided with combination bibbs, rubber tube and sprinkler. Supplies and all trimmings nickel plated on brass.

PAINTINGS AND GLAZING.

Roof and side shingles to be stained twice in Cabot's crescote shingle stain of a moss-green color.

Tin on corners of roof to be painted two coats, first coat of best mineral paint.

All dressed woodwork in living room and dining room to be painted two coats of a brown color. Adamant wainscoting in kitchen and bathroom to have two coats of oil paint and two coats of enameling.

GLASS.

French plate mirror above mantel and in medicine case in bathroom.

ELECTRIC WORK.

The building is to be wired for electric light according to the rules and regulations of the National Board of Fire Underwriters, with all the necessary switches cut outs, etc., required. Switches to be within easy reach on side walls for ceiling lights. All switches N. P. flush switch.

Wiring—To be a two-wire system of high grade rubber-covered and braided rubber to be soft and pliable, and
wire 98 per cent copper and not show fracture when bent sharply at angle of 180 degrees. All wire must be run in tubes or on porcelain cleats or knobs. Entire building to be wired for electric light in combination with gas.

Bells—Provide electric bells from front and rear doors to kitchen.

TINNING.

Tin ventilating pipes to be taken from bathroom with register near floor and carried up through roof and capped with draft ventilators.

Gutters to be double bottom galvanized iron, hung with proper slant toward conduits.

HARDWARE.

All finishing hardware to be of a dull brass finish; windows to have a hold-fast lock and adjuster.