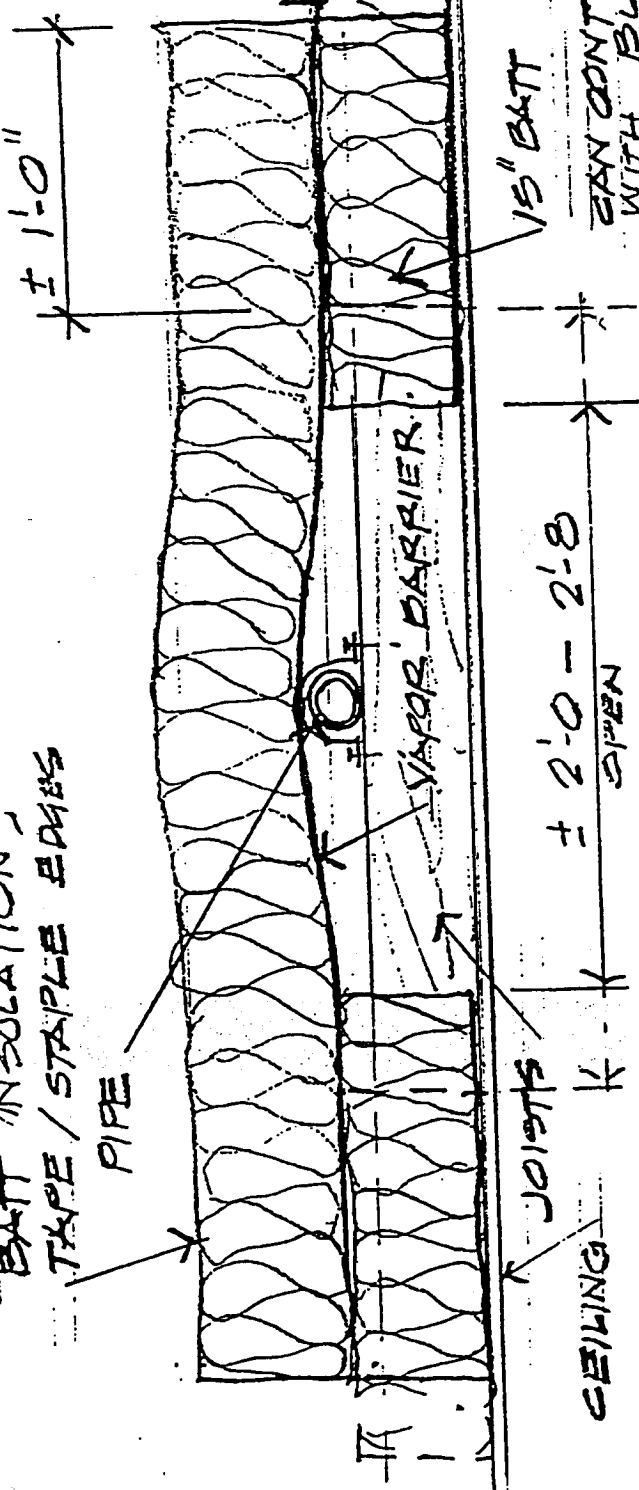


BATT INSULATION,
TAPE / STAPLE EDGES

PIPE

SECURE
TO JOISTS



1 1/2" BATT

CAN CONTINUE
WITH BLOWN INSUL.

± 2'-0" - 2'-8"
OPEN

JOISTS

CEILING

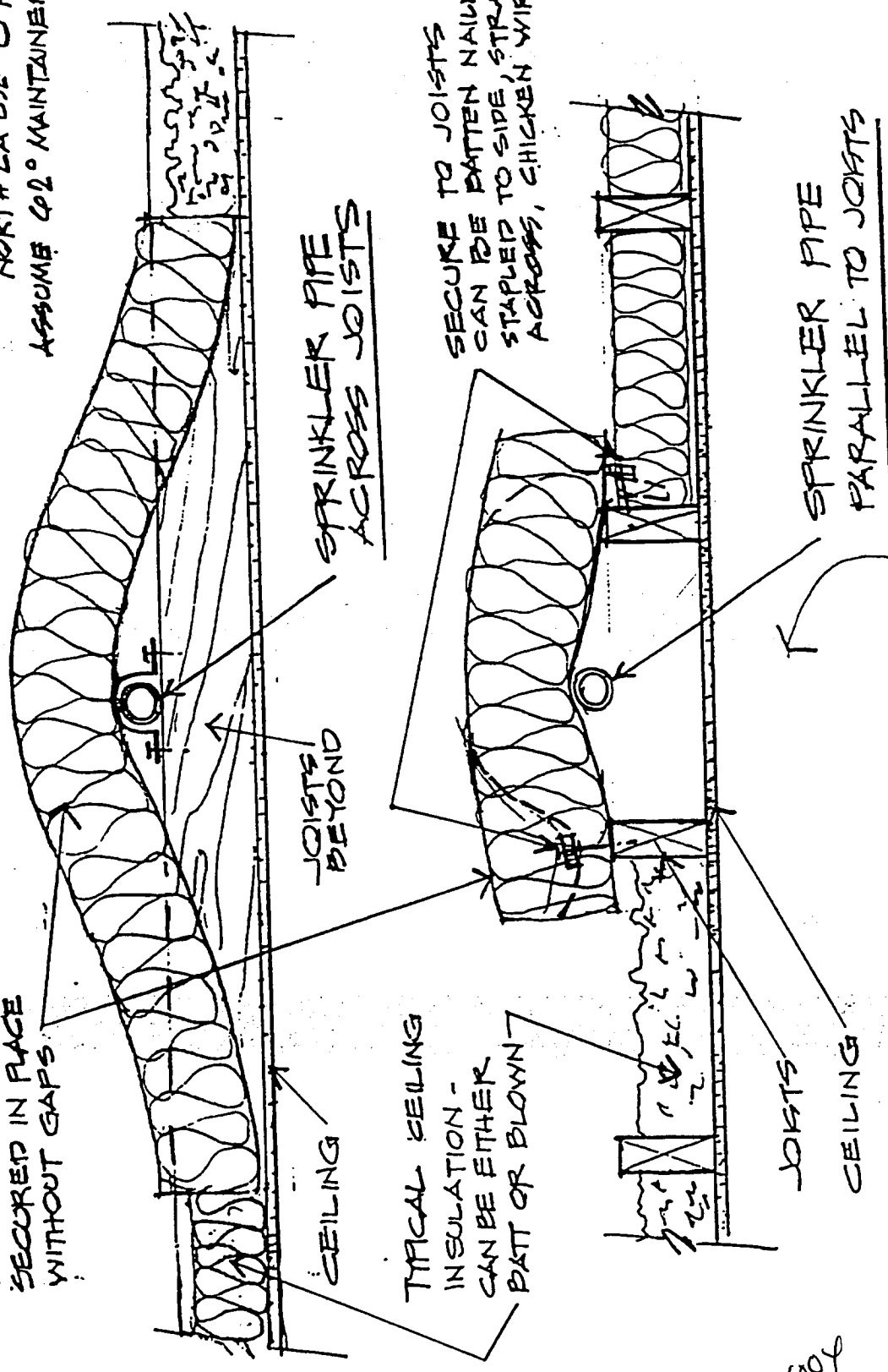
BETTER METHOD
ELIMINATES GAPS

- 13D:4-3.1 Where insulation of the system piping in an unheated attic is to be used for freeze protection, install the insulation and piping above heated spaces so that:
- (a) The piping is placed directly on top of the joists and the insulation is placed and secured in order to keep the pipe above 40 degrees F. Blown insulation shall not be used for the pipe insulation.
 - (b) Insulation shall not be permitted between the pipe and the ceiling of the heated space.
 - (c) A permanent plaque should be attached to the system riser warning that the building is to be heated at all times.
 - (d) The insulation shall be in place prior to, and shall be a requirement of, system approval and acceptance.
- * The above insulation procedure is not an acceptable alternative to space heating, dry pipe or anti-freeze systems for piping rising through or crossing unheated areas.

4003

DESIGN BASIS:
 R VALUE SUFFICIENT TO MAINTAIN THE
 PIPE AT 40°F DURING ALL FREEZING
 CONDITIONS -
 : FOR SOUTH LA USE 10°F/24 hr OUTSIDE
 : FOR NORTH LA USE 0°F/24 hr OUTSIDE
 ASSUME 62° MAINTAINED INSIDE

PIPE INSULATION
 MUST BE BATT & OF
 SUFFICIENT R VALUE
 SECURED IN PLACE
 WITHOUT GAPS



TYPICAL CEILING
 INSULATION -
 CAN BE EITHER
 BATT OR BLOWN

SECURE TO JOISTS -
 CAN BE BATTEN NAILED TO TOP
 STRAPED TO SIDE, STRAPS ATTACHED
 ACROSS, CHICKEN WIRE, ETC.

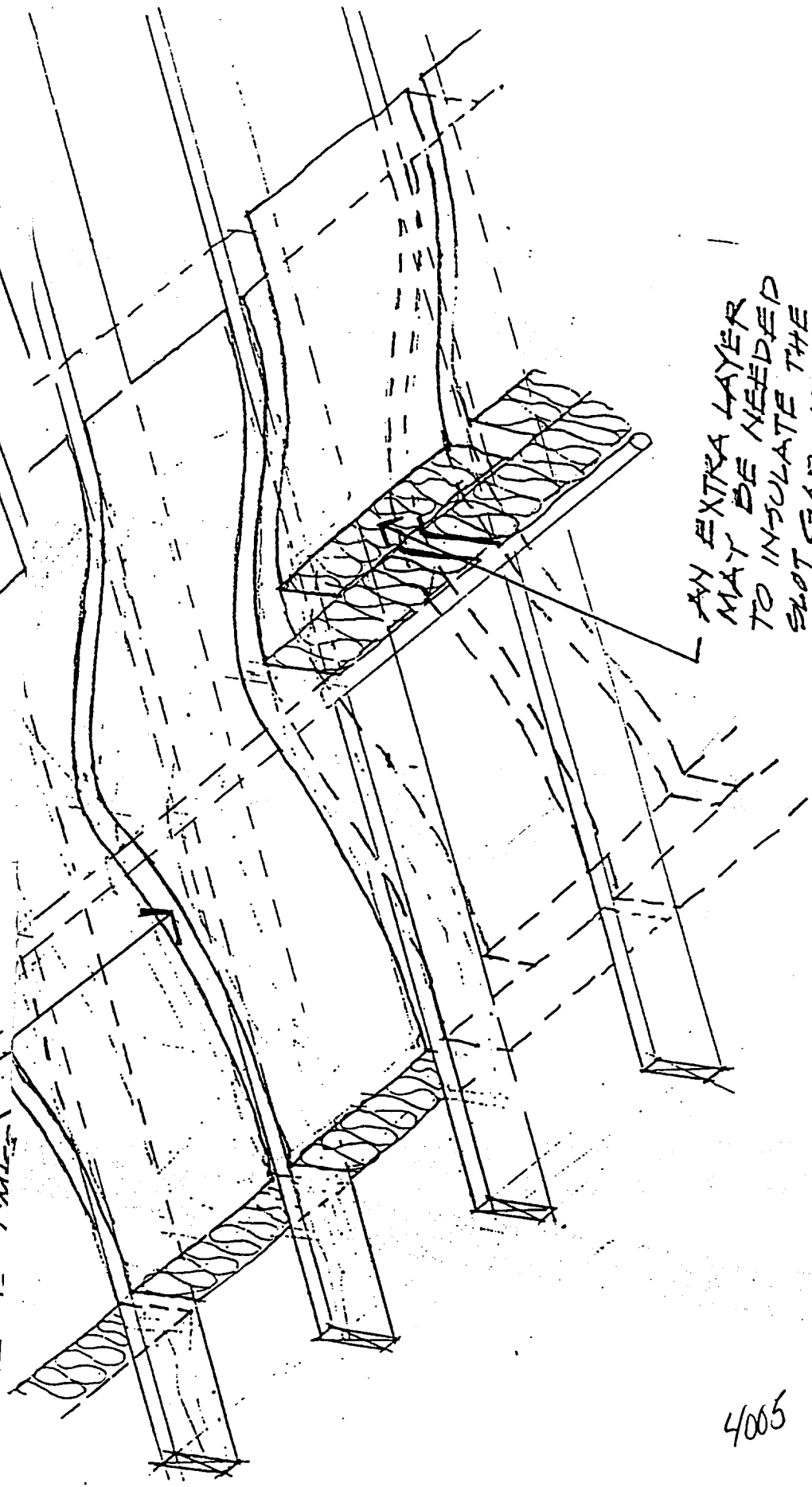
SPRINKLER PIPE
 PARALLEL TO JOISTS

ROOM BELOW MAINTAINED HEATED,
 TYP.

FOOT

WAYS

COVER METHOD -
SLOTS CAN OCCUR
BY THE FORMER



AN EXTRA LAYER
MAY BE NEEDED
TO INSULATE THE
SHOT GAP. MUST
BE SECURED IN PLACE

4005