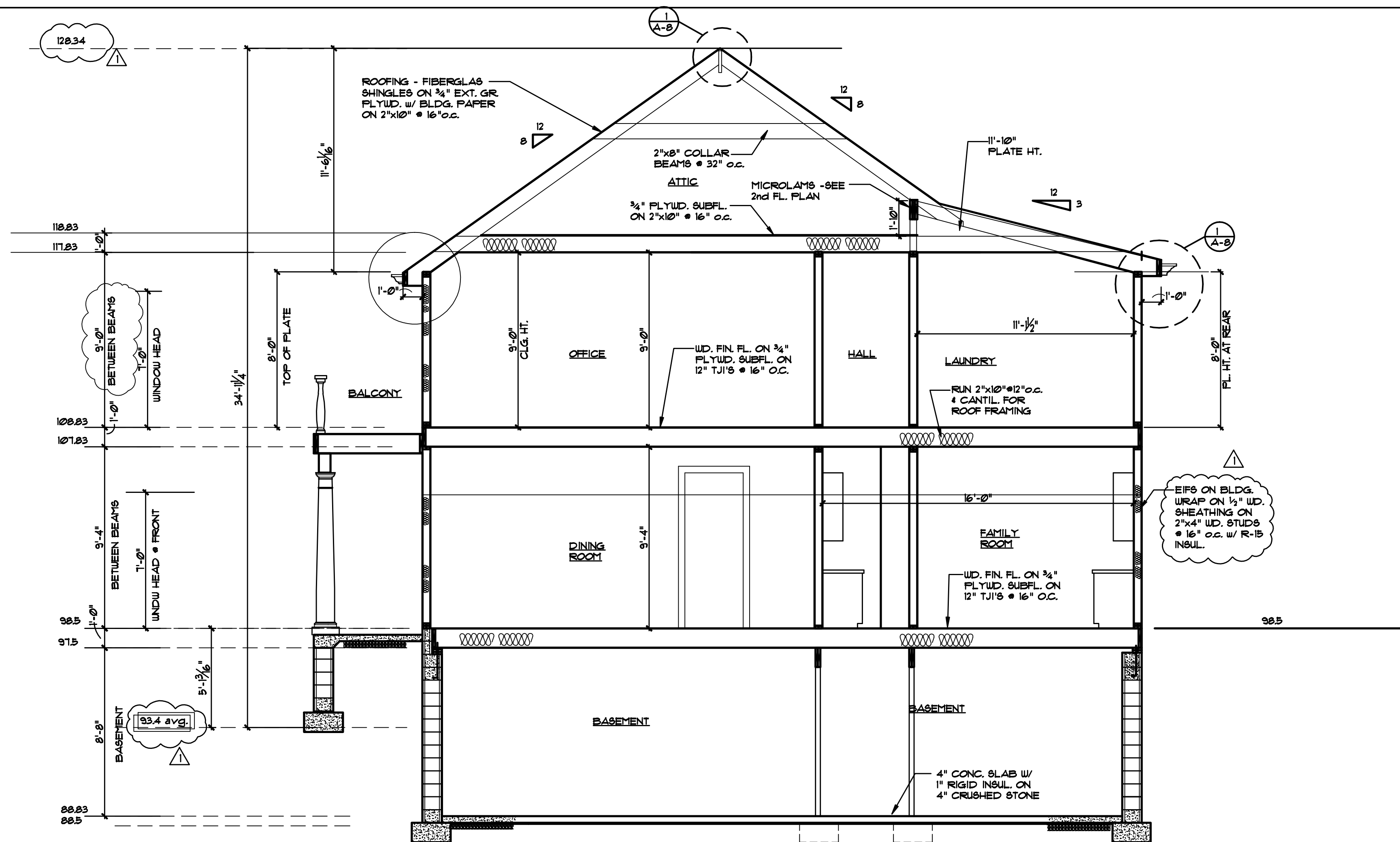


GAS RISER DIAGRAM

NO SCALE



A SECTION

SCALE : 1/4" = 1'-0"

BUI

verified by the local construction office. Upon application for a new home's Certificate of Occupancy, the Home Energy Rating Scale certificate or equivalent (i.e. passing final inspection report) should be submitted.

4. COMPLIANCE WITH PRESCRIPTIVE PACKAGE: Previous adoptions of the energy subcode allowed for the use of a prescriptive package based on climate zone location and window-to-wall ratios. Following are the applicable portions of Table 402.1.1 of the 2009 IECC that can be applied as a prescriptive package. The applicant need only identify that he/she is using the prescriptive package and then show the corresponding details on the plans. If a proposed building has window percentages and U factors (a measure of the windows' efficiency) that are equal to or lower than the values found on the appropriate line in the chart, and R values that are equal to or higher than those listed in the chart, the building complies.

VALUES PROVIDED Page 2 of 8

Climate Zone	Fenestration U-Factor ^a	Skylight U-Factor ^a	Ceiling R-Value	Wood Frame Wall R-Value	Mass Wall R-Value	Floor R-Value	Basement Wall R-Value ^b	Slab R-Value ^c & Depth	Crawl Space Wall R-Value ^d
4	0.35	0.6	38	13	5/10	19	10/13	10, 2 ft	10/13
5	0.35	0.6	38	20 or 13+5 ^h	13/17	30 ^g	10/13	10, 2 ft	10/13

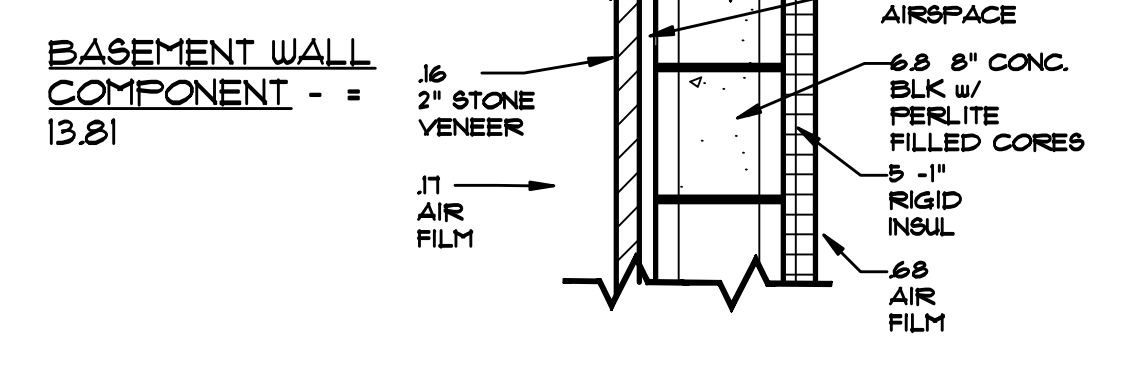
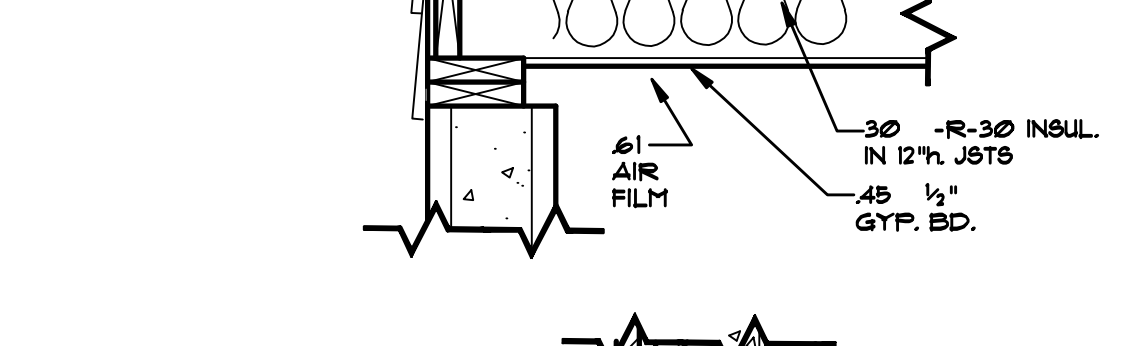
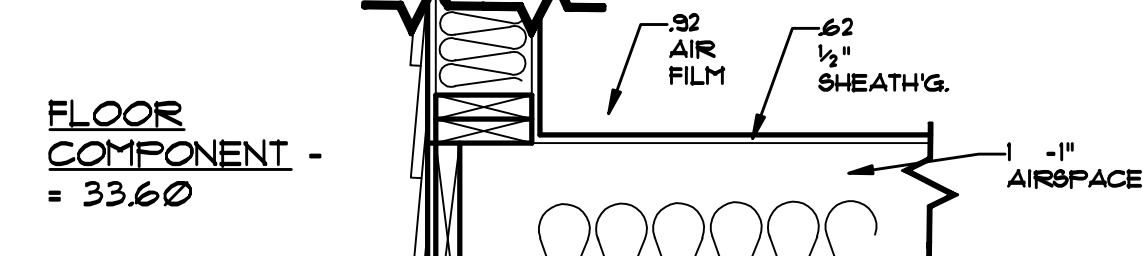
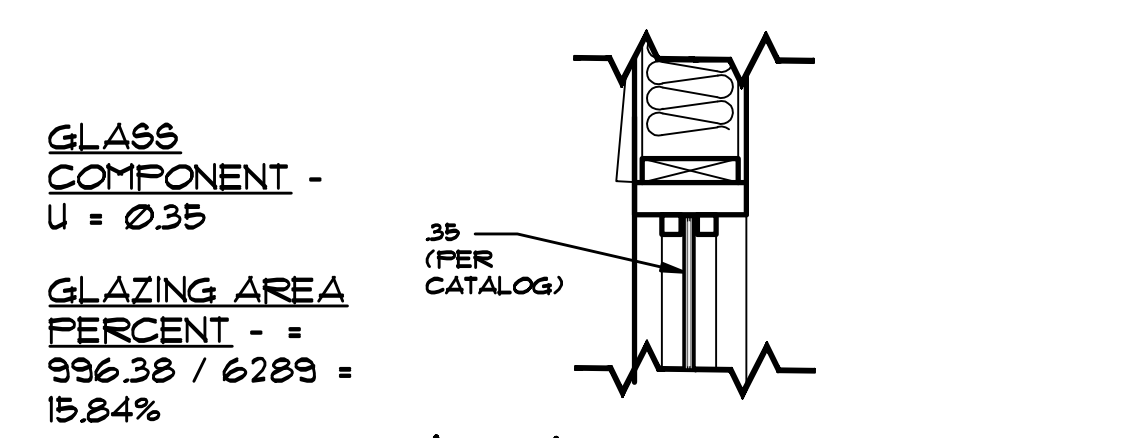
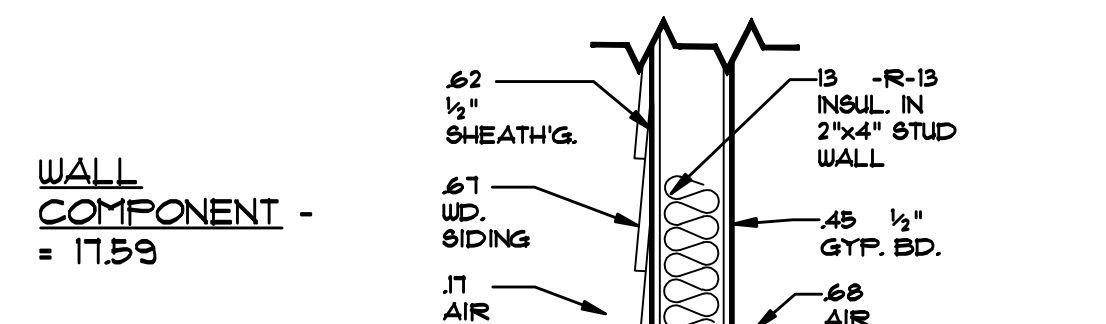
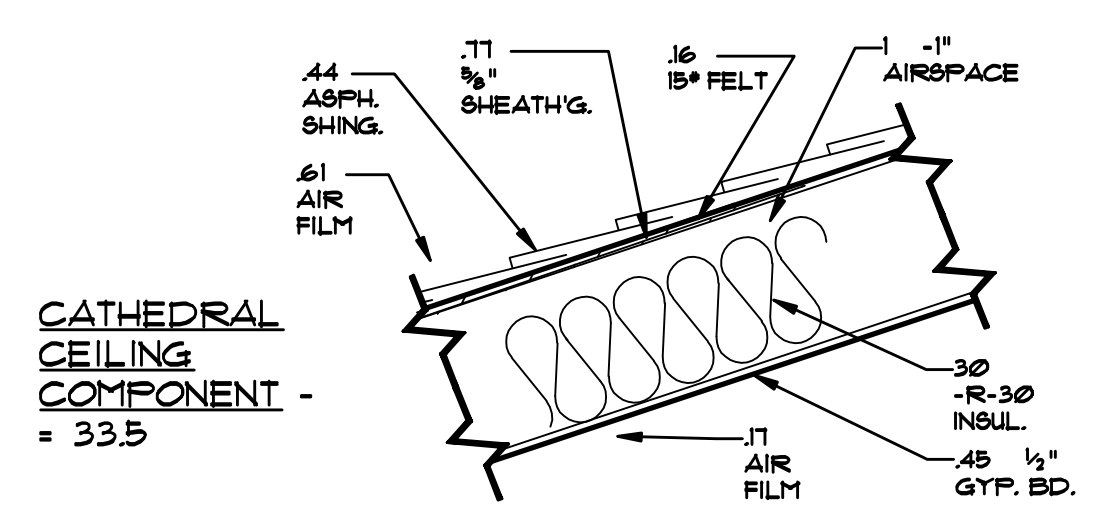
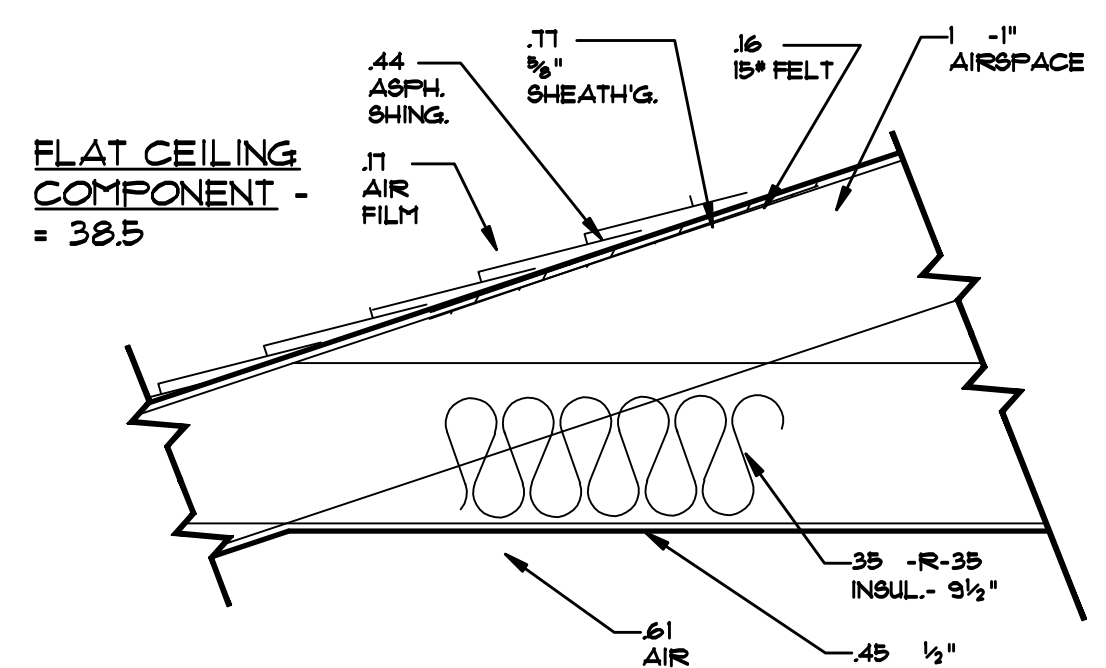
a. R-values are minimums. U-factors are maximums. R-19 batts compressed into a nominal 2 x 6 framing cavity such that the R-value is reduced by R-1 or more shall be marked with the compressed batt R-value in addition to the full thickness R-value. (Compressed R-values should be obtained from the manufacturer.)
 b. The fenestration U-factor column excludes skylights. In addition, the corresponding solar heat gain coefficient (SHGC) column has been removed from this table as NJ has no requirements (NR) for SHGC.
 c. "10/13" means R-10 continuous insulated sheathing on the interior or exterior of the home or R-13 cavity insulation at the interior of the basement wall.
 d. R-5 shall be added to the required slab edge R-values for heated slabs.
 g. Or insulation sufficient to fill the framing cavity, R-19 minimum.
 h. "13+5" means R-13 cavity insulation plus R-5 insulated sheathing. If structural sheathing covers 25 percent or less of the exterior, insulated sheathing is not required where structural sheathing is used. If structural sheathing covers more than 25 percent of exterior, structural sheathing shall be supplemented with insulated sheathing of at least R-2.
 i. The second R-value applies when more than half the insulation is on the interior of the mass wall.

Note: Table 402.1.1 applies to typical wood-framed construction. Steel-framed construction equivalents are different and may be found in Table 402.2.5 of the 2009 IECC.

Regardless of the compliance method chosen, the documentation must be signed and sealed by a design professional, except that in Class 3 buildings as described in N.J.A.C. 5:23-4.3(d), the documentation may be signed by the mechanical

BULLETIN NO. 11-1

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- 4-3-12 MISCELLANEOUS REVISIONS STRUCTURAL
- 3-21-12 MISCELLANEOUS REVISIONS
- 3-19-12 MISCELLANEOUS REVISIONS
- 3-14-12 MISCELLANEOUS REVISIONS MOD. HT. & SECTION, BSMT.

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drawing title: BUILDING SECTION GAS RISER DIAGRAM ENERGY CALCULATIONS
 job no.: 21204 scale: AS NOTED date: 3-7-12
 ROBERT B. HEINTZ • AIA architect: NJ - C 4352
 DONALD R. FIORE • AIA architect: NJ - A1 10410
 drawing: A-9