FORM F3 BUILDING CODE ANALYSIS FORM (Page 1 of 2)

THIS FORM MAY BE USED FOR EACH OF THE PLAN SUBMITTAL PHASES-SCHEMATIC, DESIGN DEVELOPMENT, AND CONSTRUCTION DOCUMENTS. IT IS RECOMMENDED THAT THE DATA FOR THE "STRUCTURAL MEMBERS" AND "SEPARATION WALLS" PARTS BE INCLUDED AS PART OF THE DESIGN DEVELOPMENT SUBMITTAL, BUT IT IS NOT MANDATORY, BUT IF NOT SUBMITTED THEN, IT IS URGENT THAT IT BE SUBMITTED TO THE OFFICE OF SCHOOL FACILITIES FOR PRIOR APPROVAL IN THE EARLY STAGES OF THE FINAL PLANS.

PROJECT_____DISTRICT_____

SUBMITTAL: SCHEMATIC **( )**; DESIGN DEVELOPMENT **( )**; CONSTRUCTION DOCUMENT **( )**

DATE_____ CODE & EDITION _____

DESIGNATED AREAS OF BUILDING (Indicated on floor plan.)

CODE ITEM		CODE REFERENCE	Area 1	Area 2	Area 3	Area 4	Area 5
Occupancy Classification		Chapter 3					
Construction Classification		Chapter 6					
Height in lin. ft.	Allowed	Table 503					
Height with increase Allowed		Chapter 5					
Height in lin. ft.	**Actual**						
Area in sq. ft.	Allowed	Table 503					
Area with increase allowed		Chapter 5					
Area in sq. ft.	**Actual**						
Structural Members		Insert appropriate hourly ratings and/or test numbers)					
Exterior Bearing Walls		Table 601					
Exterior Nonbearing Walls		Table 601					
Interior Bearing Walls		Table 601					
Columns		Table 601					
Beams, Girders		Table 601					
Floor Construction		Table 601					
Roof Construction		Table 601					
Separation Walls		(Insert appropriate hourly ratings and/or test numbers)					
Fire Walls		Table 705.4					
Occupancy Separation Walls		Table 302.3.3					
Exit Stair		Sect. 707.4					
Horizontal Exit		Sect. 1005.3.5.1					
Exit Discharge		Sect. 1006.1					
Exit Access Corridors Walls		Table 1004.3.2.1					
Elevator Shaft Walls		Sect. 707.4					
Interior Partitions		Section 602					

USE REVERSE SIDE TO SHOW AREA AND HEIGHT CALCULATIONS

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FOR HEIGHT MODIFICATION: Refer to Building Code Chapter 5 and Table 503.

FOR AREA MODIFICATION: Refer to Building Code Chapter 5 and Table 503.

EQUATION 5-1

$$A_a = A_t + \left[\frac{A_t I_f}{100}\right] + \left[\frac{A_t I_s}{100}\right]$$

where:

A_a = Allowable area per floor (square feet).
A_t = Tabular area per floor in accordance with Table 503 (square feet).
I_f = Area increase due to frontage (percent) as calculated in accordance with 506.2.
I_s = Area increase due to sprinkler protection (%) as calculated in accordance with 506.3.

EQUATION 5-2

$$I_f = 100 \times \left[\frac{F}{P} - 0.25\right]\frac{W}{30}$$

where:

I_f = Area increase due to frontage (percent).
F = Building perimeter which fronts on a public way or open space having 20 feet (6096 mm) open minimum width.
P = Perimeter of entire building.
W = Minimum width of public way or open space

W must be at least 20 feet

The quantity **W** divided by 30 cannot exceed 1.0

Buildings which are permitted to be unlimited in area, the quantity **W** divided by 30 cannot exceed 2.0.

When a building is protected throughout with an automatic sprinkler system, the area limitation in Table 503 is allowed to be increased by 200 percent (**I_s** = 200 %) for multistory buildings and 300 percent (**I_s** = 300 %) for single-story buildings.

AREA CALCULATIONS: Insert appropriate figures.

Area **	Basic Area Allowed	Open L/F Perimeter	Total L/F Perimeter	Percentage Open Perimeter	Percentage Area Increase	Sq. Ft. Area Increase	Percentage Sprinkler Increase	Total Area Allowed
1								
2								
3								
4								
5								

**THE LOCATIONS OF THE DIFFERENT AREAS SHALL BE SHOWN ON THE DESIGN DEVELOPMENT PLANS.