

SCALE: 1/8" = 1'-0"

Building Code Analysis (IBC 2009 and NFPA 101 2009) Current Use and Occupancy Classification Business Group B (304.1), and (6.1.11) Proposed Use and Occupancy Classification MIXED OCCUPANCY - Educational Group E (NFPA 6.1.14.3) / Business, NON-separated Existing Building Rehabilitation: NFPA 43.1.2.2, and 43.7.1 Construction Type Type III B Exterior walls are of non-combustible material and interior building elements are of any material permitted by code Automatic Sprinkler System The building is currently fully sprinklered (monitored system)											4 .	· I Architects Sherborn, MA	
1. Existing Structure Information Lower Level First Floor Second Floor Totals					7 7 7	ilding Area 7,067 sq ft 7,067 sq ft 7,067 sq ft 7,067 sq ft	0 s 7,0 4,0	Renovation Area 0 sq ft 7,067 sq ft 4,032 sq ft 11,099 sq ft					Richard Renner
Number of Stories above Grade Building height					ар	3 prox. 35 ft				Renner Architects			Richard F Portland. ME
2. Allowable Area (Table 503) Allowable area per floor Allowable height						23,500 sq ft	ì				STE	RED AR	CHILE
3. Height and Area Modification with Automatic S Allowable height increase					prinkler Syste	m (504.2) Story, 20 ft		See Hgt. Modifications below 2+1 = 3 Stories			* RI	ICHARD RENNER No. 1056	6
			t with modif		3 S	Stories, 85				Copyright		E OF M	All
Floor Occupied Spaces				Area NET Sq. Ft.	Occupa Load								
	Classroo	om 102			463 613	24 31	2	space = 1	nal Classroom 20 net/person				
		sroom 104			897 4 735 1 1,411 9		1	Educatio	Educational vocational space = 50 net/person Assembly space = 15 net/person Business Office space = 100				
	Office 10	Office 106 Teacher's Room 108				211 2 80 2			on s Office space = 100 on ot Load = 2				
	TOTAL First Floor				4,410	217	8	1					
	Office 201 Classroom 202				173 321	16	1:	9 net/person Education space = 1	s Office space = 100 on nal Classroom 20 net/person				
Phase I Not Including Future Areas	Classroom 203 Classroom 204 Classroom 205				412 2: 432 2: 432 2:		2 2	1	п п				
Phase Not In Future	Classroom 206 Tutoring Room 208 Office 212				534 27 165 9 143 2			8	" S Office space = 100 on				
	Total Phase I Second Floor Phase II Future Areas			2,612 1,700	121	11:	Educatio	nal Classroom					
Phase II Total Second Floor Phase I & II				4,312 206		23	5 Space = 1	20 net/person					
	TOTAL P	hase I &	& II - First &		7,022 8,722 Iding Elements	334 423	31			<u> </u>			
		Structu Load be Load be Non-loa (fire se	ral Frame earing exter earing interi ad bearing e paration Gre ad bearing e	rior walls or walls exterior walls eater than 30 fe	0 I 2 I 0 I t.)	nour T nours T nour T nour T	able 601 fable 601 and 60 fable 601 fable 602 fable 602	02					
		Floor co	onstruction	e greater than	0 1		able 601						
Roof construction Shaft enclosures Exit enclosures					1 1	nours S	Section 708.4 Section 1022.1						
Corridors Corridors per NFPA 101 15.3.6					nours	able 1018.1 Smoke Partition	018.1 with automatic sprinkler system ke Partitions provided Per NFPA 101, 8.4.3.5			m.			
		Access	ory Occup.	cy - No Sepa - Main Occup.			IFPA 101- 6.1.1 BC 508.2.4	4.3			cademy Street		
6. Means of Egress Components Exit access Travel Distance with automatic sprinkler system Minimum Number of exits required per floor Number of exits provided per floor (2) (Table 1021.1) (2)										- - -	A 0)		
	Spaces w	rith (1) m path of	neans of Eg travel in Gro	ress allowed w	vhen Occ. load I nklered building buildings.		0 in Group E	IBC Table 101 75 ft (IBC 101	5.1, NFPA 15.2.5.4 (4.3), 100 ft NFPA 15.2.5.3.1 (8), NPFA 15.2.5.2		Baxter 54 Yorl		
	N	lin. Corı		Provided = 6'-0	o" ed in alterations	to EVICTIN	NG buildings	Educational C	Occupancy NFPA 101, 15.2.3.2 007.1 and NFPA 3411.6	 			
		o moun	or egress (Area Sei	rved Occupar 1/2 Tota	nt Load = V I (*	Vidth Required, * min. req'd.)	Width Provided	007.1 and W17 A 0411.0				C
Stair 1 3,533 gross sq ft *Existing Risers: 6.75" to 7" *Existing Treads: 9.5"						X .3" =	35.4" (*36")	40"	*NFPA 101, 7.2.2.2.1.1-(2) and Table 7.2.2.2.1.1(b) Existing Stairs				2012-10.00
Stair 2	*Existin	ng Riser ng Tread	s: 6.75" to 7 ds: 10.75"	3,533 gros	ss sq ft 118	X .3" =	35.4" (*36")	46"				ne:	
	s Doors	bing Fix	rtures - Uni	form Plumbin		c.2" =	23.6" (36")	36"		$\frac{1}{1}$	Jary	File Name:	Project No.
Required Student Fixtures For Secondary Schools WATER CLOSETS						AVATORIES	DF/person			Summs	Ū.	G	
STUDEN ⁻		1 : 40 male 1: 30 fema		1: 30 female FEMALE Students 160	1 per 35 males add'l Female WCs req'd. to equal total male WC and Urinal fixtures	1: 40 n MALE Studer 160	FEMALE	<u> </u>	s			y: RRA	Scale: As Shown
Required	Student Fi	xtures	4 WC	6 + 3 = 9 WC	5 Urinals	4 Lavs	s 4 Lavs	3 DF		\dashv	Code	Drawn by: RRA	cale: A
Student Fixtures Prov		vided	4 WC	9 WC	5 Urinals	5 Lav	s 6 Lavs	3 DF] [_ ,			<u> </u>
Required Staff Fixtures For Secondary Schools			1 per 1-15	1 per 1-15	1 per 50	1: 40 n	nale 1: 40 fema	e none	Occupancy Count Based On Max. Number Of	$\left \cdot \right $	_	axte	
STAFF	O: "="		Male Staff Female Staff						Students And Staff Planned For Final Capacity	,. 	AC	aden	пу
	Staff Fixtu				1 Urinal 1 Urinal	1 Lav 2 Lav			320 students 20 staff			CS	
Staff Fixtures Provided			_ VVO	Z VV	ı Uıllıdl		∠ Lav					ノこ	