

CODE SUMMARY				
1. PROJECT TITLE				
NEW CITY LIBRARY RENOVATION & ADDITION				
2. PROJECT SUMMARY DATA				
AUTHORITY HAVING JURISDICTION (AHJ):				
APPLICABLE BUILDING CODE(S):	2020 BUILDING CODE OF NEW YORK STATE, 2020 EXISTING BUILDING CODE OF NEW YORK STATE			
ACCESSIBILITY STANDARD(S):	2010 ADA STANDARDS FOR ACCESSIBLE DESIGN (2010 ASAD)			
FIRE SUPPRESSION:	FULLY SPRINKLERED PER NFPA 13			
CONSTRUCTION CLASSIFICATION:	TYPE II-B			
BUILDING OCCUPANCY USE GROUP(S):	NONSEPARATED MIXED USE (A-3, B, S-1)			
3. BUILDING CODE SUMMARY				
CODE TOPIC	BCNYS SECTION REFERENCED	BCNYS REQUIREMENT / ALLOWED	PROVIDED	REMARKS
CONSTRUCTION CLASSIFICATION	602		TYPE II-B	
USE GROUP AND OCCUPANCY CLASSIFICATION	302		TYPE II-B	
ALLOWABLE HEIGHT / STORIES:	A-3 Table 504.3, Table 504.4	75' / 3 stories	50' / 3 stories	A-3 most restrictive
ALLOWABLE HEIGHT / STORIES:	B Table 504.3, Table 504.4	75' / 4 stories	50' / 3 stories	A-3 most restrictive
ALLOWABLE HEIGHT / STORIES:	S-1 Table 504.3, Table 504.4	75' / 3 stories	50' / 3 stories	A-3 most restrictive
BUILDING AREA TABULATION	Table 506.2	38,000 sf per floor (A-3)	Refer to BLDG AREA TABULATION	Single Story bldg; A-3 most restrictive
BUILDING VOLUME				
MAXIMUM OCCUPANT LOAD TABULATION	Table 1004.5		Refer to OCC LOAD TABULATION	
4. EGRESS				
CODE TOPIC	BCNYS SECTION REFERENCED	BCNYS REQUIREMENT / ALLOWED	PROVIDED	REMARKS
CORRIDOR AND NON-STAIR COMPONENT WIDTH	1006.3.2, Exc. 1 / 1020.2	0.15' per occ. / 44" min. / 72" min.	REFER TO PLANS	FULLY SPRINKLERED
STAIR WIDTH	1006.3.1, Exc. 1 / 1011.2	0.2' per occ. / 44" min.	REFER TO PLANS	6'-8" min hd ht; FULLY SPRINKLERED
ACCESSIBLE MEANS OF EGRESS	1009.1 / 1009.3	Not less than 2 / 48" min. stair width	REFER TO PLANS	
EGRESS ELEVATOR	1009.2.1	Not required	N/A	all levels < 4 stories from discharge
EXIT ACCESS STAIRS	1019.3 / 1028.1, Exc. 1	2 stories max. / 50% capacity max.	2 stories / 50% capacity max.	
COMMON PATH OF EGRESS TRAVEL	1006.2.1	75' (A) / 100' (B.S)	Less than 75' / 100'	FULLY SPRINKLERED
EXIT ACCESS TRAVEL DISTANCE	Table 1017.2	250' (A.S) / 300' (B)	Less than 250' / 300'	FULLY SPRINKLERED
DEAD END CORRIDORS	1020.4 (B.S. Exc. 2)	20' (A) / 50' (B.S)	Less than 20' / 50'	FULLY SPRINKLERED
EXIT CONFIGURATION	1007.1.1, Exc. 2	> 1/3 max horizontal of area	> 1/3	FULLY SPRINKLERED
EGRESS COURTS	1028.4	10' min width, 7' min clear head ht	10' min / 7' min	
5. FIRE PROTECTION				
CODE TOPIC	BCNYS SECTION REFERENCED	BCNYS REQUIREMENT / ALLOWED	PROVIDED	REMARKS
NONSEPARATED MIXED OCCUPANCIES	908.3	no separation required		
TWO-STORY OPENINGS	712.1.9 / 713.4	1 hr	N/A - single story building	
SHAFTS				
ELEVATOR HOISTWAYS	713.4 / 3002	< 4 stories = 1 hr	1 hr	UL Assembly: U906
DUCT SHAFTS	713 / 717	1 hr	1 hr	UL Assemblies: U415, U419
STAIR ENCLOSURES	707.3.2 / 1023.2	< 4 stories = 1 hr	1 hr	Open exit access stairs, 1019.3
ELEVATOR AS ACCESSIBLE MEANS OF EGRESS	1009.2.1	> 4 stories abv exit discharge = req'd	not required	Top fr 1 story abv exit discharge
ELEVATOR MACHINE ROOM ENCLOSURE	708.4 / 3005.4 Exception	< 4 stories, non-abutting = 0 hr	N/A	no machine room
FIRE BARRIERS	707.3.1 / 713.4	< 4 stories = 1 hr	1 hr	UL Assemblies: U415, U419
HORIZONTAL ASSEMBLIES	711		not required	UL Assemblies: D759, N636
INCIDENTAL USES				
FURNACE ROOM	Table 509	< 40,000 btuh = 0 hr	0 hr	Fully sprinklered
REGRICERANT MACHINERY ROOM		Auto sprinkler = 0 hr	0 hr	Fully sprinklered
TEACHING LABORATORIES AND CONTROL AREAS	414.2 / 430	1 hr	1 hr	(1) control area
DUCT AND AIR TRANSFER OPENINGS	717.3.2.1	Annular space filled	Annular space filled	
OPENING PROTECTION / FIRE SEPARATION DISTANCE	Table 705.8	> 30' separation = no limit	no limit	Min. fire separation distance = 175'
AUTOMATIC SPRINKLER SYSTEM	903	Yes	Yes	Rapid response system provided
STANDPIPES	905	Yes	Yes	
FIRE EXTINGUISHERS	906 / IFC-906.1 (2006)	On each floor = < 75' travel distance	On each floor = < 75' travel distance	
FIRE ALARM AND DETECTION SYSTEM	907	Yes	Yes	
6. EMERGENCY POWER				
CODE TOPIC	BCNYS SECTION REFERENCED	BCNYS REQUIREMENT / ALLOWED	PROVIDED	REMARKS
EXIT SIGNS	1013 / 2702.2.5	Yes	Yes	
EMERGENCY LIGHTING	1008	Yes	Yes	

OCCUPANCY TYPE	LOAD	WATER CLOSETS				LAVATORIES				SHOWERS		DRINKING FOUNTAINS		SERVICE SINK
		Ratio	Male	Ratio	Female	Ratio	Male	Ratio	Female	Ratio	Subtotal	Ratio	Subtotal	
A-3	Concentrated	428	1:125	1.71	3.29	1:200	1.07	1.07	-	1:500	0.86	1		
	Unconcentrated	203	0.81	1:65	1.56	1:200	0.51	0.51	-	1:500	0.41			
unrounded for reference:			2.52	4.85	1.58									
B	Public Program	56	1:25<50	1.12	1:25<50	1.12	1:40<80	0.70	1:40<80	0.70	-	1:100	0.56	
	Gen. Staff/Offices	40	1:50>50	0.80	1:50>50	0.80	1:80>80	0.50	1:80>80	0.50	-	1:100	0.40	
S-1	Storage / Mech.	12	1:100	0.12	1:100	0.12	1:100	0.12	1:100	0.12	-	1:1000	0.01	
TOTAL REQUIRED			5	7	3	3	-	3	1	3	1			
TOTAL PROVIDED			5	7	3	3	1	3	1	3	1			

PER 2902.4 PUBLIC MULTI-USER TOILET ROOMS ARE DESIGNATED BY SEX AND SINGLE-USER FACILITIES ARE DESIGNATED GENDER NEUTRAL.

NOTE: ONE SINGLE-USER TOILET ROOM WITH ACCESSIBLE SHOWER FOR STAFF USE INCLUDED ON BASEMENT LEVEL. NOT INCLUDED IN TOTAL OF WATER CLOSETS PROVIDED.

GROSS BUILDING AREA		TOTAL AREA		EXCLUDED FROM TOTAL ALLOWABLE FLOOR AREA CALC. PER 506.1.3	
BASEMENT	5002 SF				
MAIN LEVEL	18326 SF				
LOWER LEVEL	5366 SF				SINGLE STORY ABV. GRADE, INCLUDES TWO CONNECTED LEVELS
MEZZANINE	4709 SF				EXCLUDED FROM TOTAL ALLOWABLE FLOOR AREA CALC. PER 506.2
SUBTOTAL	33403 SF				ALL BUILDING AREA
BASEMENT & MEZZANINE	-10,053 SF				
TOTAL FLOOR AREA	23,792 SF				

NOTE: GROSS FLR AREA IS CALCULATED TO THE INTERIOR FACE OF EXTERIOR WALLS

EXISTING BUILDING CODE SUMMARY			WORK AREA & LEVEL OF ALTERATION PLANS		
CODE TOPIC	SECTION REF.	REMARKS	LEVEL OF ALTERATION	AREA	
COMPLIANCE METHOD	301.3.2	WORK AREA COMPLIANCE METHOD USED	ADDITION	3332 SF	
ADDITIONS	502.1	ADDITION COMPLIES WITH BCNYS FOR NEW CONSTRUCTION. HEIGHT AND AREA OF EXISTING + NEW COMPLIES WITH REQUIREMENTS	LEVEL 1	3527 SF	
CHANGE OF OCCUPANCY	506	NO CHANGE	MEZZANINE	4709 SF	
TOPIC	XXXX	NOTES	LEVEL 3	815 SF	
TOPIC	XXXX	NOTES	NO WORK	4770 SF	



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New City Library
New City Library Addition & Renovation
220 North Main Street
New City, NY 10956

Client Project Number
VMDO Project Number **1301**

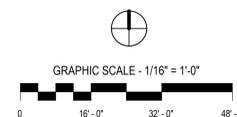
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ISSUES AND REVISIONS
NO. SUBMITTAL DATE
SCHEMATIC DESIGN 03.05.2021

LIFE SAFETY - CODE SUMMARY

G100
DESIGN DEVELOPMENT
07.09.2021



ISSUES AND REVISIONS

NO.	SUBMITTAL	DATE
	SCHEMATIC DESIGN	03.05.2021

LIFE SAFETY GENERAL NOTES

- SEE LS 100 FOR LIFE SAFETY SUMMARY AND CODE NOTES
- WHERE RATED PARTITIONS MEET EXTERIOR WALLS, RUN ALL LAYERS OF U.L. ASSEMBLY TO BACKSIDE OF EXTERIOR WALL BACKUP TO PROVIDE CONTINUITY OF RATING
- PROVIDE EXIT SIGNS IN COMPLIANCE WITH BC9YS 1013, INCLUDING AT ALL EXIT AND EXIT ACCESS DOORS. WHERE EXIT OR PATH OF EGRESS TRAVEL IS NOT IMMEDIATELY VISIBLE, AND SUCH THAT NO POINT ALONG THE PATH OF EGRESS TRAVEL IS MORE THAN 100' FROM NEAREST EXIT SIGN, REFER TO REFLECTED CEILING PLANS FOR EXIT SIGN LOCATIONS.

LIFE SAFETY LEGEND

- EXIT SIGN - EXISTING
- EXIT SIGN - NEW
- CLEAR EGRESS WIDTH IN INCHES
- EXPECTED
- MAXIMUM EGRESS CAPACITY FOR OPENING AND STAIR CLEAR WIDTH
- NUMBER OF OCCUPANTS PER SPACE
- SIMULATED EXIT ROUTE DISTANCE
- 1 HR FIRE BARRIER - EXISTING
- 1 HR FIRE BARRIER - PROPOSED
- 1 HR PRIMARY STRUCTURE CONTINUITY (MAJOR COL. / BEAMS)
- BLDG. PERIMETER ON PUBLIC WAY
- B - BUSINESS OCCUPANCY - CIRCULATION (1:150 GROSS)
- B - BUSINESS OCCUPANCY - OFFICES (1:150 GROSS)
- A3 - ASSEMBLY OCCUPANCY - UNCONCENTRATED (1:15 NET)
- A3 - ASSEMBLY OCCUPANCY - CONCENTRATED (1:7 NET)
- S1 - STORAGE, MECH. EQUIPMENT OCCUPANCY (1:300 GROSS)

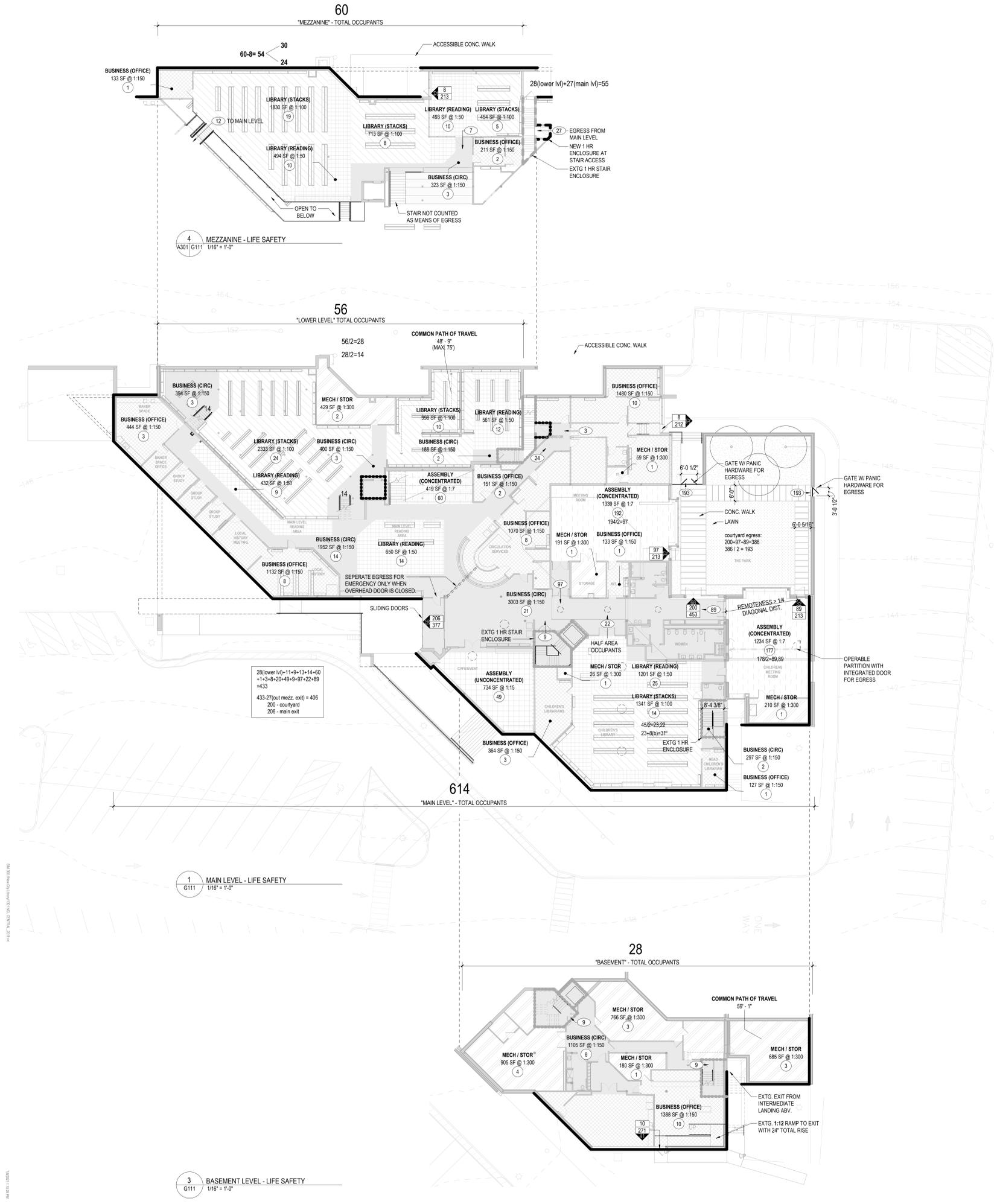
OCCUPANCY CALCULATIONS

MEZZANINE			
OCCUPANCY TYPE	AREA	AREA PER PERSON	OCC.
BUSINESS (CIRC)	323 SF	150 SF	3
BUSINESS (OFFICE)	133 SF	150 SF	1
BUSINESS (OFFICE)	211 SF	150 SF	2
LIBRARY (READING)	494 SF	50 SF	10
LIBRARY (READING)	493 SF	50 SF	10
LIBRARY (STACKS)	1830 SF	100 SF	19
LIBRARY (STACKS)	713 SF	100 SF	8
LIBRARY (STACKS)	454 SF	100 SF	5
BUSINESS (OFFICE)	211 SF @ 1:150		2
BUSINESS (CIRC)	323 SF @ 1:150		3
OCCUPANCY TOTALS	4650 SF		58

LOWER LEVEL			
OCCUPANCY TYPE	AREA	AREA PER PERSON	OCC.
BUSINESS (CIRC)	188 SF	150 SF	2
BUSINESS (CIRC)	400 SF	150 SF	3
BUSINESS (CIRC)	394 SF	150 SF	3
LIBRARY (READING)	561 SF	50 SF	12
LIBRARY (STACKS)	2333 SF	100 SF	24
LIBRARY (STACKS)	998 SF	100 SF	10
MECH / STOR	429 SF	300 SF	2
CALCULATED OCCUPANCY TOTALS	5302 SF		56

MAIN FLOOR			
OCCUPANCY TYPE	AREA	AREA PER PERSON	OCC.
ASSEMBLY (CONCENTRATED)	1234 SF	7 SF	177
ASSEMBLY (CONCENTRATED)	1339 SF	7 SF	192
ASSEMBLY (CONCENTRATED)	419 SF	7 SF	60
ASSEMBLY (UNCONCENTRATED)	734 SF	15 SF	49
BUSINESS (CIRC)	297 SF	150 SF	2
BUSINESS (CIRC)	3003 SF	150 SF	21
BUSINESS (CIRC)	1952 SF	150 SF	14
BUSINESS (OFFICE)	364 SF	150 SF	3
BUSINESS (OFFICE)	127 SF	150 SF	1
BUSINESS (OFFICE)	1132 SF	150 SF	8
BUSINESS (OFFICE)	133 SF	150 SF	1
BUSINESS (OFFICE)	1480 SF	150 SF	10
BUSINESS (OFFICE)	151 SF	150 SF	2
BUSINESS (OFFICE)	1070 SF	150 SF	8
BUSINESS (OFFICE)	444 SF	150 SF	3
LIBRARY (READING)	432 SF	50 SF	9
LIBRARY (READING)	650 SF	50 SF	14
LIBRARY (READING)	1201 SF	50 SF	25
LIBRARY (STACKS)	1341 SF	100 SF	14
MECH / STOR	26 SF	300 SF	1
MECH / STOR	210 SF	300 SF	1
MECH / STOR	59 SF	300 SF	1
MECH / STOR	191 SF	300 SF	1
CALCULATED OCCUPANCY TOTALS	17950 SF		617

BASEMENT			
OCCUPANCY TYPE	AREA	AREA PER PERSON	OCC.
BUSINESS (CIRC)	1195 SF	150 SF	8
BUSINESS (OFFICE)	1388 SF	150 SF	10
MECH / STOR	905 SF	300 SF	4
MECH / STOR	766 SF	300 SF	3
MECH / STOR	180 SF	300 SF	1
MECH / STOR	685 SF	300 SF	3
CALCULATED OCCUPANCY TOTALS	5030 SF		29



LIFE SAFETY PLANS