

01 1ST FLOOR - LIFE SAFETY PLAN
SCALE: 1/8" = 1'-0" TRUE NORTH

BUILDING NO. 20 - FIRST FLOOR		
ROOM #	ROOM NAME	SF
20-001	CORRIDOR	695
20-002	STAIR	175
20-003	STAIR	175
20-004	VESTIBULE	62
20-005	ELEVATOR	42
20-100	AQUA/MULTI ROOM LAB	827
20-101	SCIENCE ROOM LAB	1,040
20-101A	STORAGE	232
20-102	MRK SPACE LAB	958
20-102A	STORAGE	222
20-103	GIRLS RESTROOM	41
20-104	BOYS RESTROOM	41
20-105	SCIENCE ROOM LAB	947
20-105A	STORAGE	162
20-106	IT	41
20-130	MECHANICAL	150
20-131	ELECTRICAL	105

BUILDING NO. 20 - SECOND FLOOR		
ROOM #	ROOM NAME	SF
20-202	STAIR	192
20-203	STAIR	192
20-205	ELEVATOR	182
20-206	CORRIDOR	1,189
20-207	BRIDGE CONNECTOR	380
20-200	AQUA/MULTI ROOM LAB	944
20-200A	STORAGE	196
20-201	TECH/ENG ROOM LAB	1,258
20-201A	STORAGE	251
20-202	MRK SPACE LAB	1,379
20-202A	STORAGE	176
20-203	GIRLS RESTROOM	45
20-204	BOYS RESTROOM	45
20-205	CUSTOMER	24
20-230	MECHANICAL	143
20-231	ELECTRICAL	103

NEW BUILDING # 20 INFORMATION

TWO STORY EDUCATION BUILDING		OCCUPANCY REQUIREMENTS:	
1st FLOOR =	6,778 S.F.	a. EDUCATION	20 SF PER PERSON
2nd FLOOR =	6,393 S.F.	b. BUSINESS	100 SF PER PERSON
BRIDGE CONNECTOR =	437 S.F.	c. STORAGE	300 SF PER PERSON
		d. ASSEMBLY	71 SF PER PERSON
GROSS S.F. (TOTAL) =		13,608 S.F.	
DESIGN:		CONSTRUCTION REQUIREMENTS:	
TYPE IIB CONSTRUCTION		a. STRUCTURAL FRAME	0 RATING REQUIRED
SPRINKLERED		b. EXISTING WALLS	0 RATING REQUIRED
OCCUPANCY: EDUCATION (E)		c. FLOOR	1 HR RATING REQUIRED
PER 508.3 AUTOMATIC SPRINKLER SYSTEM INCREASE: 1+200% X 200% = 400% INCREASE		d. ROOF	1 HR RATING REQUIRED
FROM TABLE 503 = 43,500 SF TO TOTAL ALLOWED PER FLR. FOR MULTI-STORY PER CODE SECTION 503.		e. FULLY SPRINKLERED BLDG 1ST & 2ND	
LIFE SAFETY SYSTEM:		EXIT REQUIREMENTS:	
Emergency Lighting and Exit Signs		Travel distance maximum	20 Feet
Fire Alarm and Smoke Detection		Travel distance maximum	250 Feet
Panic Hardware		Number of exits	6 (2)
EXIT REQUIREMENTS:		Number of doors provided	5 (1)
Dead end travel maximum		Number of doors required	2 (2)
Travel distance maximum		Total number of people on floor	2 (1)
Number of exits		Number of doors required	2 (2)

PLUMBING FIXTURE CALCULATIONS

BUILDING #20 - 1ST FLOOR OCCUPANCY (5-12 YEAR OLDS) 85 OCCUPANTS	
PROVIDED:	MALE 42 FEMALE 41 (1:1)
WATER CLOSET:	1 (150)
LAVATORIES:	1 (150)
DRINKING FOUNTAINS (1500):	2
SERVICE SINK (1):	0 (REQUIRED SERVICE SINK LOCATED ON 2ND FLOOR)
BUILDING #20 - 2ND FLOOR OCCUPANCY (5-12 YEAR OLDS) 77 OCCUPANTS	
PROVIDED:	MALE 38 FEMALE 38 (1:1)
WATER CLOSET:	1 (150)
LAVATORIES:	1 (150)
DRINKING FOUNTAINS (1500):	2
SERVICE SINK (1):	1

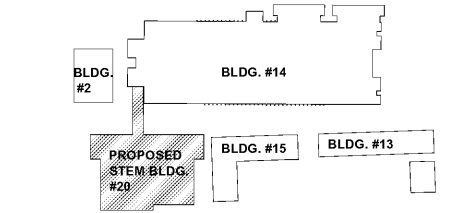
GENERAL INFORMATION

OCCUPANT LOAD 2nd FLOOR = 76
MIN. CORRIDOR WIDTH = 76 x 2" = 1'-3 3/8"
CORRIDORS PROVIDED = 7'-4", 8'-1", 8'-0" & 10'-4"
OCCUPANT LOAD 1ST FLOOR = 83
MIN. CORRIDOR WIDTH = 83 x 2" = 1'-4 5/8"
MIN. CORRIDORS PROVIDED = 8'-0", 8'-3", 6'-4" & 6'-11"
MIN. STAIR WIDTH = 1/2 X 3" + 11 3/8"
STAIRS PROVIDED = (2) 4'-2" 1/2" WIDE
FIRE EXTINGUISHERS AND FIRE BLANKET REQUIREMENTS FOR LOCATIONS SHOWN ON THE PLANS:
1. FLAMMABLE AREAS (SODIUM BICARBONATE 40 BC)
MECHANICAL ROOMS
SCIENCE LABS
2. HAZARDOUS AREAS (4A-60BC)
STORAGE ROOMS WHERE WOOD OR PAPER PRODUCTS ARE STORED
ELECTRICAL ROOMS
3. LOW HAZARD AREAS (2A-10BC)
CORRIDORS AND REMAINING ROOMS

LIFE SAFETY SYMBOLS LEGEND

<p>4 HOUR FIRE RATED WALL. ALL OPENINGS AND MECHANICAL PENETRATIONS SHALL BE PROTECTED TO MAINTAIN THE INTEGRITY OF THE FIRE RATING FOR THE WALL. REFER TO WALL TYPES FOR UL NUMBERS</p> <p>1 HOUR FIRE RATED WALL. ALL OPENINGS AND MECHANICAL PENETRATIONS SHALL BE PROTECTED TO MAINTAIN THE INTEGRITY OF THE FIRE RATING FOR THE WALL. REFER TO WALL TYPES FOR UL NUMBERS</p> <p>SMOKE PARTITION CONSTRUCTED WALL. ALL OPENINGS AND MECHANICAL PENETRATIONS SHALL BE PROTECTED TO MAINTAIN THE INTEGRITY OF THE SMOKE PARTITION CONSTRUCTION FOR THE WALL. REFER TO WALL TYPES FOR UL NUMBERS</p> <p>PROVIDE STENCILING ON WALLS ABOVE CEILING FOR PROTECTED WALLS STATING 1 HR. OR 2 HR. FIRE RATED WALL. BASED ON THE WALL REQUIREMENTS ON THE LIFE SAFETY PLANS (TYPICAL FOR ALL RATED WALLS).</p> <p>P → PRIMARY MEANS OF EGRESS</p> <p>⊗ EMERGENCY EXIT LIGHT TWO SIDED W/ DIRECTION ARROW UNLESS ADJACENT TO STAIRS, ONE SIDED ONLY (CEILING MTD.)</p> <p>⊗ EMERGENCY EXIT LIGHT (WALL MTD.) W/ DIRECTION ARROW REFER TO ELECT. DWGS.</p> <p>⊗ DOOR FIRE RATING IN MINUTES</p>	<p>FIRE EXTINGUISHER & CABINET (PROVIDE FIRE EXTINGUISHER CABINET W/ BLANKET WHERE INDICATED) WALL HUNG FIRE EXTINGUISHER</p> <p>SMOKE DETECTOR REFER TO ELECT. DWGS.</p> <p>FIRE ALARM DEVICES REFER TO ELECT. DWGS.</p> <p>OCCUPANT LOAD</p> <p>XXX(XX) OPENING EGRESS CAPACITY</p> <p>EMERGENCY LIGHTS REFER TO ELECT. DWGS.</p>
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NOTE: ALL PENETRATIONS OF RATED STEEL STUD PARTITION WALLS AND WALL EXTENSIONS, FLOOR AND ROOF SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL SYSTEMS. ALTERNATE OR ADDITIONAL PENETRATION PROTECTION SYSTEMS MUST BE TEST CERTIFIED AND SUBMITTED AS A SHOP DWG FOR REVIEW. REFER TO THE FOLLOWING SHEETS FOR PENETRATION DETAILS PROVIDED : A1.8



KEY PLAN

SCALE: N.T.S. TRUE NORTH

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STEM BUILDING
THE BENJAMIN SCHOOL - LOWER/MIDDLE SCHOOL
11000 Ellison Wilson Road, North Palm Beach, FL 33408
CONSTRUCTION DOCUMENTS

Comm. No: 16117.00
Date: 10-23-17
Drawn: ms

Revisions		
No.	Date	Note

RENÉ TERCILLA AIA, REFP
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L.S. PLAN

LS1.1

Order Plans

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