CODE ANALYSIS

The following information shall be used as reference for determining the projects general conformance to the below listed codes. No deviation is allowed unless approved by the Architect in writing. The following Codes were used:

International Building Code	2012 Edition
International Mechanical Code	2009 Edition
International Energy Conservation Code (IECC) [Climate Zone 7]	2006 Edition
Uniform Plumbing Code	2009 Edition
International Fire Code	2009 Edition
National Electrical Code	2011 Edition
Americans with Disabilities Act Accessibility Guidelines	2003 Edition
Accessible and Usable Buildings and Facilities (ICC/ANSI A117.1)	2003 Edition

All requirements will be met of the Energy Conservation Requirements per the IECC Section 502 and IECC Tables 502.2(1) and 502.3 Climate Zone 7, including local amendments

Location:
Zone:
Actual Area: 8,764

International Building Code (IBC) 2009 Edition
Chapter 3 – USE AND OCCUPANCY CLASSIFICATION
Section 305.1 - General

Educational: Group E

Chapter 3 – USE AND OCCUPANCY CLASSIFICATION
Section 303.1.3 - Associated with group E occupancies.
A room or space used for assembly purposes that is associated with a Group E occupancy is not consdered a separate occupancy.

Chapter 5 – GENERAL BUILDING HEIGHTS AND AREAS
Section 503.1 - General *(Table 503- Type VB, fully sprinklered)*

The maximum area allowed will be based on the tabular values of 503 as follows:
1. Type VB, Group E- 1 Story with 9500 sq.ft
Actual Area: 1 Story with 8,764

Section 504.2 and 506.3 – Automatic Sprinkler system increaseThere are no requirements within this section that apply

Section 508.2 Accessory occupancies
Accessory occupancies are those occupancies that are ancillary to the main occupancy of the building or portion thereof. The portions of this building that is classified S Occupancy (B) will be considered an accessory occupancy and will comply with the provisions of Sections 508.2.1 through 508.2.4.

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Section 508.2.1 Area limitations
Aggregate accessory occupancies shall not occupy more than 10% of the building area of the story in which they are located and shall not exceed the tabular values in Table 503, without building area increase in accordance with Section 506 for such accessory occupancies.
In this building the following meets the above requirements:
Business Occupancy (B) on the First Floor- Allowable = 876.4 sq ft
Business Occupancy (B) on the First Floor- *Actual = 556 sq ft*

Section 508.3.3 Separation.
No separation is required between nonseparated occupancies.

Chapter 6 – TYPES OF CONSTRUCTION
Section 602.1 – General Construction (Table 601 and Table 602)
This building will be designated as: Type VB construction, fully sprinklered throughout
Table 601 – Fire Resistance Rating Requirements for Building Elements

Structural Frame	0 HR
Exterior Bearing Walls	0 HR
Interior Bearing Walls	0 HR
Interior Non Bearing Walls	0 HR
Floor Construction	0 HR
Roof Construction	0 HR

Based on the proposed site parameters with frontage clearance greater than 30 feet on all open sides the exterior walls (Table 602) require no fire resistance ratings.

X>30 = 0 HR for all Types

Chapter 7 – FIRE RESISTANCE – RATED CONSTRUCTION
Section 704 – Fire-Resistance Rating of Structural Members
No requirements for fire protection.

Chapter 9 – FIRE PROTECTION SYSTEMS

Section 906.1 Where required
Portable fire extinguishers shall be installed in the following locations.
The exception applies:
Exception: In new and existing Group A, B and E occupancies equipped throughout with quick response sprinklers, portable fire extinguishers shall be required only in locations specified in Items 2 through 6.

Minimum rated single extinguisher for low hazard occupancy 2-AC
Minimum travel distance to extinguisher 75 feet

Section 907.2.3 Group E
A manual fire alarm system that initiates the occuppant notification signal utilizing an emergency voice/alarm communicaiton system.
Chapter 10 – MEANS OF EGRESS (And Table 1003.2.2.2 and 1003.2.3)

Section 1003.2 – Ceiling Height
The means of egress shall have a ceiling height of not less than 7 feet 6 inches

Section 1003.6 – Means of egress continuity
Continuity: the path of egress travel along a means of egress shall not be interrupted by any building element other than a means of egress component.

Section 1004.1.1 – Areas without fixed seating
The number of occupants shall be computed at the rate of one occupant per unit of area as prescribed in Table 1004.1.1

Accessory storage areas, mechanical equipment rooms.....300 gross
Business areas and workroom.....100 gross
Educational
Classroom area.....20 net
Assembly without fixed seats
Concentrated (chairs only- not fixed).....7 net
Assembly standing space.....5

Occupant Loads:

Education = 4977 sf/20=.....249 occ
Business = 2393 sf/100=..... 24 occ
Storage = 915 sf/200= ..... 4 occ
.....
Total = 277 occ

Section 1005.3.2 – Other egress components

277 occupants x .15" = 41.5" Required

Section 1008.1.1 Size of Doors
Size of Doors: The minimum width of each door opening shall be sufficient for the occupant load thereof and shall provide a clear width of 32 inches. The maximum width of a swinging door leaf shall be 48 inches.

Section 1016.1 Travel distance limitations
Exits shall be so located on each story such that the maximum length of exit access travel, measured from the most remote point within a story along the natural and unobstructed path of egress travel to an exterior exit door at the level of discharge, an entrance to a vertical exit enclosure, an exit passageway, a horizontal exit, an exterior exit stairway or an exterior exit ramp, shall not exceed the distances given in Table 1016.1.

Occupancy E: 250'-0" when sprinklered

Section 1018.1 Construction
Refer to Table 1018.1
Occupancy Type E, where a building is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 there is no rating required for corridors

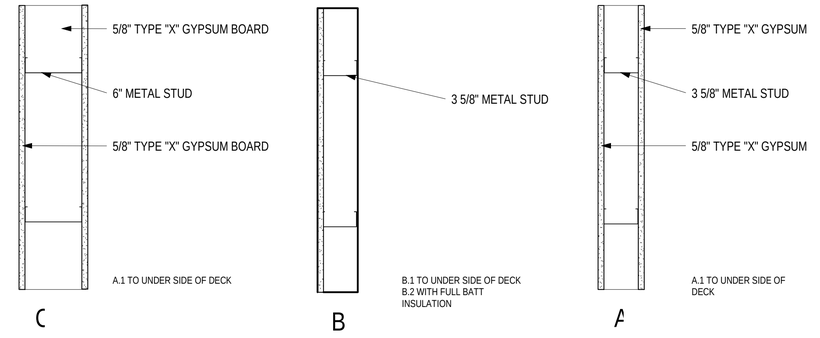
Section 1018.2 Corridor Width
Corridor Width: The minimum corridor width shall be as determined in section 1005.1, but not less than 44 inches.
Exception 4 Applies: Seventy-two inches- In Group E with a corridor having a required capacity of 100 or more.

Section 1021.1 Exits from stories
All spaces within each story shall have access to the minimum number of approved independent exits as specified in Table 1021.1 based on the occupant load of the story. Based on Table 1021.1 the following applies: Occupant Load of 1-500 persons- Minimum of 2 exits required

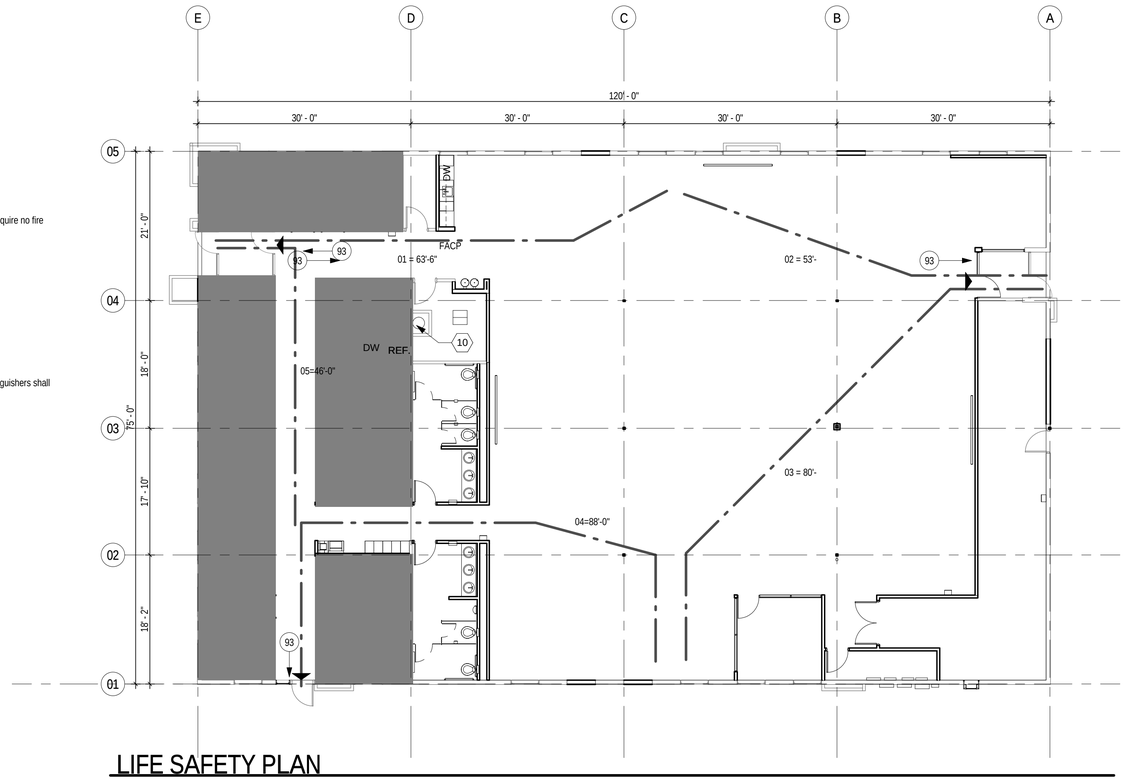
Chapter 29 – Plumbing Systems

Section 2902.1 – Minimum number of fixtures
Plumbing fixtures shall be provided for the type of occupancy and in the minimum number shown in Table 2902.1

Educational (E)- Total Occupancy - 277
Water Closets: For male and female: 1 per 50
For male: 3 required, 2 water closets and 1 urinals provided plus 1
For female: 3 required, 3 water closets provided plus 1
Lavatories: For male and female: 1 per 50
For male and female: 3 required, 3 provided
Drinking Fountains: 1 per 100
1 required
Other: 1 service sink
1 provided



PARTITION TYPES



LIFE SAFETY PLAN

LIFE SAFETY PLAN LEGEND

- EGRESS
- DOOR WITH PANIC
- EXISTING FIRE EXTINGUISHER RELOCATION
- 42 — OCCUPANT LOAD THRU EXIT
- PER BASE BID OR ALTERNATIVE 1 AND 2

LIFE SAFETY PLAN GENERAL NOTES

1. REFERENCE CODES: ALL WORK SHALL CONFORM TO ALL APPLICABLE BUILDING CODES, STANDARDS, REGULATIONS, AND OTHER SUPPLEMENTAL AMENDMENTS RELATED TO THE JURISDICTIONS OF THE PROJECT, IN THEIR LATEST AND MOST RECENT ADOPTED EDITIONS, AND EFFECTIVE DATES. NOTE: OPPORTUNITY TO REFERENCE ANY OTHER PROJECT SPECIFIC REQUIREMENTS HERE, SUCH AS MILITARY RELATED FAR'S AND UFC'S, OR THE AMERICAN DISABILITIES ACT ADA.

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CONSTRUCTION DOCUMENTS

UAA ANSEP ULA RENOVATION
UNIVERSITY LAKE BUILDING - BUILDING AO 107
UNIVERSITY OF ALASKA ANCHORAGE
CODE ANALYSIS AND LIFE SAFETY PLANS

PROJECT TITLE:
ADDRESS:
OWNER:
SHEET TITLE:

NO	DESCRIPTION	DATE

DATE :	2017.04.07
PROJECT NO :	151065.101
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CHECKED BY :	Checker
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DWG NO:
G002