# CODE SUMMARY

CODE DATA CHART:

| Code Data Chart | | 1997 Standard Building Code | | 1994 ANSI/NFPA 101 Life Safety Code |
|---|---|---|---|---|
| Code Section | Section | Standard Building Code Notes: | Section | Life Safety Notes: |
| Occupancy Classification | Chapter 3 | Group B – BUSINESS (Principal intended use)<br>Group A-2 Small Assembly (Large class only) | 26 | New Business |
| Construction Type | 606 | Type IV<br>Un-Protected<br>Fully Sprinklered | NA | NA |
| Gross Building Area | Table 500 | Maximum Area = 34,000 s.f. per floor<br>1st Floor ..... 14,915 G.S.F.<br>2nd Floor ..... 16,270 G.S.F.<br>3rd Floor ..... 16,270 G.S.F.<br>Total ..... 47,455 G.S.F. | NA | NA |
| Building Height | | Building Height = 42'<br>Max Height 55' | NA | NA |
| Fire Resistance Rating | Table 600 | Roof / Ceiling ..... NC<br>Exterior Non-Bearing Walls And Cable Ends ..... NC,<br>10ft Unprotected Wall Opening<br>Horiz. Separation over 10 Ft. ..NC<br>Interior Non-Bearing Partitions..NC<br>Columns ..... NC<br>Beams ..... NC<br>Floor / Ceiling ..... NC | 26-1.6 | No minimum construction requirements |
| Protection | Table 705.1.2<br><br>Table 704.2.4<br><br><br><br>Table 704.1 | Elevator Shaft :<br>Enclosure walls ..... 1 HR<br>Noncombustible materials<br>Opening Protectives ..... 1 HR<br>Exit Access Corridor:<br>Walls ..... 0 HR<br>Opening Protectants ..... 0 HR<br>Sprinklered<br>Mechanical Shafts, Elevator Eqpt. Rooms:<br>Walls ..... 1 HR<br>Stairways:<br>Walls ..... 1 HR<br>Opening Protectants ..... 1 HR<br>100 sq. in. view panel glass<br>Mixed Occupancy Separation btwn. business and assembly ..... 1 HR | 26-3.6<br><br>5-2.6.2<br><br>5-1.3.2.1 | Exit Corridors ..... 0 HR<br><br>Hazardous Areas:<br>Storage ..... 1 hr & sprinklers<br>Opening Protectants .....3/4 HR<br>Exits :<br>Doors ..... 1 Hr.<br>Walls ..... 1 Hr.<br>Stairways :<br>Walls ..... 1 HR |
| Materials and Finishes | 708.2 | Insulation:<br>Flame Spread ..... 75 Max<br>Smoke Rating ..... 450 Max<br>Materials for fire resistance to comply with chapter requirements.<br>Exits.....C<br>Exit Access.....C<br>Other Spaces .....F<br>Flame Spread ..... FR – 200<br>Smoke Developed..... O – 450<br>Interior Sighns... 20% of Wall Area maximum | 26-3.3-1 | Interior Finish per 6-5:<br>Test Standards per NFPA 255.<br>Exit Corridors ..... Class A or B<br>All other Spaces ..... Class A, B, or C<br>Floors in Corridors..... Class I or II<br>Class A..... Flame Spread ..... 0-25<br>Smoke Developed..... 0-450<br>Class B..... Flame Spread ..... 25-75<br>Smoke Developed..... 0-450<br>Class C..... Flame Spread ..... 70-200<br>Smoke Developed..... 0-450<br>Exception: Exposed structure complying with Type IV Construction per NFPA 220. |
| Fire Alarm System | 905.1<br><br>905.1.5.4<br><br>905.1.5.5 | Manual fire alarm system required.<br>Exception: Fully Sprinkled<br>Audible Alarms: 60 dBA minimum sound pressure.<br>Visible Alarms: every occupied space | 26-3.4.2<br><br>26-3.4.3 | Alarm initiated by operation of sprinklers as<br><br>Notification by live public address or per section 7-6.3 |
| Stairs | 1006.1<br><br>1007.3<br><br>1007.4<br><br>1007.4.3<br><br>1007.5 | Exit stairways separated by 2 HR walls w/ 1-1/2 HR opening protectives per 705.1.2<br>Treads and risers shall be sum of two risers plus one tread equals between twenty-four and twenty-five inches.<br>Landings shall have width not less than stairways.<br>Landings to have guardrails on open side<br>Handrails shall be located on each side, between 34" and 38" above tread.<br>Exception: Handrails which form part of a guard-rail may be 42" high. | <br>5-2.2.2.1<br><br><br><br><br>5-2.2.4 | <br>Max Riser..... 7 inches<br>Max Treads ..... 11 inches<br>Landing Width ..... stair width min.<br><br><br><br>Handrails on both sides within 34" to 38" above tread.<br>Exception: Handrails that form part of guardrail can be 42" high. |

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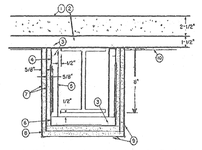
| (Stairs Cont.) | 1007.5.5 | Extend 12" beyond top riser and at bottom extend one treed depth past bottom riser.<br>Intermediate Rails inluded such that a 6-inch sphere can not pass through openings<br>Headroom: minimum clearance 6'-8" a.f.f. | <br>5-2.2.4.6<br>5-1.5 | Handrail:<br>Extend 12" beyond to riser and slope to depth of one treed beyond bottom riser.<br>Guardrails not yet less than 42" high with 4 inch sphere can not pass through intermediate rails.<br>Headroom 6'-8" a.f.f. minimum |
| | | | 5-2.2.6.3 | Outside stairs separated by rated walls to 10 feet above top landing and 10 feet horizontally. |
| Sprinklers | 903 | Sprinkler system shall be provided for buildings without ample fire rescue access. | 26-3.5 | Provide portable fire extinguishers per Section 7-7.4.1 |
| Sprinklers | 1103<br><br>1103<br><br>Table 1104.3<br><br>1106.1<br><br>1106.2<br><br>1106.3<br><br>1012.1.2<br><br>1012.1.7<br><br>1012.2 | Accessible route to connect accessible spaces with an interior path of travel between accessible route to floor levels.<br>50% of building entrances.<br>Parking:<br>For 26 to 50 stalls = 2 accessible stalls<br>Toilet rooms must have minimum of one accessible fixture.<br>All elevators.<br>50% of drinking fountains.<br>Egress swinging door maximum force of 15 lbf to release latch, 30 lbf to set in motion.<br>Exit doors shall open without use of key or special knowledge.<br>Power operated doors shall be manually operable in event of power failure. | 5-1.2<br><br><br><br><br><br><br>5-2.1.4<br><br>5-2.1.5<br><br>5-2.1.9 | Accessible means of egress required to all public ways or areas of refuge.<br><br><br><br><br><br><br>Force to open door in means of egress not to exceed 15 lbf to release latch, 30 lbf to set in action.<br><br>Locks shall not require the use of key or special knowledge.<br><br>Power operated doors shall be manually operable in event of power failure. |
| Exiting Provisions | Table 1003.1<br><br>Table 1004 | Occupancy Load :<br>Business ..... 100 Gross S.F./Person<br>Assembly ..... 1 Fixed seat/person<br>Egress Width :<br>Corridors & Doors: ..... 0.20<br>Stairs ..... 0.30<br>Min. clear opening doors ..... 32" min.<br>Min. corridor width ..... 44" min.<br>Exception: 36 inches if load is less than 50 for corridors and stairs with projections and handrails 3-1/2 inches or less.<br>Max. travel distance to exit ..... 250 feet<br>Max Dead-end corridor ..... 20 feet | 26-1.7<br><br>5-2.2.2 | Business.....100 Gross S.F./Person<br><br>Egress Width:<br>Corridors & Doors.....0.20<br>Stairs.....0.30<br>Min. clear opening doors.....32" min.<br>Min. corridor width.....44" min.<br>Exception: 36 inches if load is less than 50 for corridors and stairs with projections and handrails 3-1/2 inches or less. |
| | | | 26-2.5 | Travel distance.....200 FT Max |
| | | | 26-2.4 | Max Common path of travel distance: 100 FT<br>Max Dead-end corridor: 20 FT |
| | 1004.2 | Minimum Number of Exits:<br>Occupancy Load 1-500 ..... 2 exits | 2-8 | Number of exits:<br>Building shall have at least 2 exits located remotely per section 5-5. |
| | 1004.1.2 | Room with 50 or more occupants require 2 egress doors if travel distance exceeds 75 ft. | 26-2.2.10 | Area of refuge: Not required when Fully Sprinklered building. |
| | 1003.3.2 | Capacity of exit stairways shall be determined by the floor having the highest occupancy load, not the total building occupant load | 5.5.4.4 | Elevator as means of egress if accessed from an accessible area of refuge. Since building is fully sprinklered, elevator does not need to be located in a shaft system. |
| | 1003.3.4 | Required capacity of corridors serving exits at least equal to exit width required. | | |
| | 1004.3.2.1 | Exit stair to be accessible must be 48" clear between handrails with on area of refuge.<br>Exception: Fully Sprinklered Building. | | |
| | 1004.3.5 | Areas of refuge not required to egress, due exception 1004.3.2.1 Fully Sprinklered. | | |
| | 1004.3.3 | One elevator shall serve as one required accessible means of egress.<br>Exception: Fully sprinklered buildings and floors provided with a horizontal exit and located at or above the level of the exit discharge. | | |

FIRE RESISTANCE DIRECTORY (EXRH)

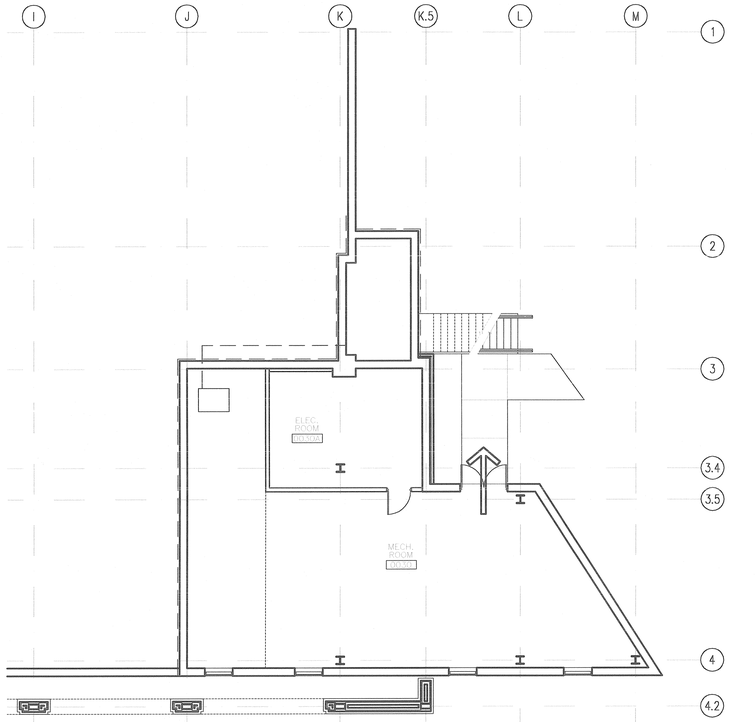
FIRE RESISTANCE RATINGS - ANSI/UL263 (BXUV)—Continued

**Design No. N501**
Restrained Beam Rating—2 Hr.
Unrestrained Beam Rating—2 Hr.

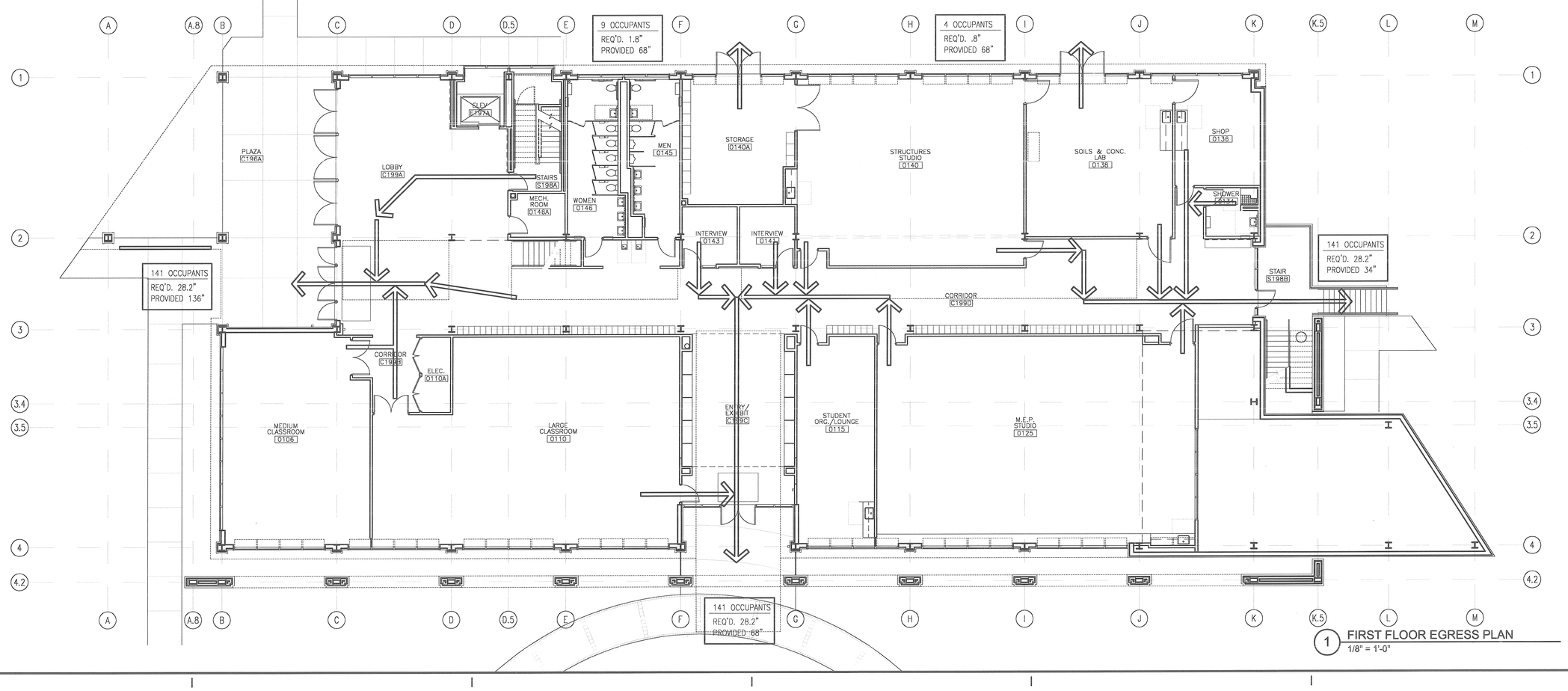



**Steel Beam**—Min size, a W8X24 with outside dimensions of 7-7/8x6-1/2 in. with a flange thickness of 3/8 in., a web thickness of 1/4 in., and a minimum weight of 24 lb/ft.
1. **Normal Weight Concrete**—148 pcf.
2. **Steel Floor and Form Units***—1-1/2 in. fluted type, welded to beam.
3. **Drill Screw**—No.8-18 by 1/2-in. long Phillips pankhead drill screws, self-drilling and self-tapping, made of case-hardened steel.
4. **Runner Angle**—24 MSG galv steel with 1 and 2-in. legs. Fastened to steel deck 12 in. O.C. with Item 3.
5. **Hanger**—Hat channel formed from 25 MSG galv steel, 1-11/16 in. deep with 1-in. legs and spaced 24 in. O.C. fastened to the runner angles with Item 3.
6. **Corner Angle**—Same material as Item 4, fastened to channel brackets with Item 3.
7. **Wallboard, Gypsum***—5/8 in. thick. First layer fastened with 1-1/4 in. long, 0.150 in. diam screws spaced 16 in. O.C. Second layer attached with Item 3 in. long, 0.120 in. diam screws spaced 16 in. O.C. Screws are self-drilling and self-tapping Phillips head made of case-hardened steel.
   **American Gypsum Co.**—Type AG-C.
   **Canadian Gypsum Company**—Type C, IP-X1, IP-X2, SCX, SHX or WRX.
   **Celotex Corp.**—Type C, FRP or SF1.
   **Continental Gypsum Company**—Type CG1-1, CG-1, CG1-3, CG5-5, CG6-6, CG9-9, CG3C-C, CG-C.
   **G-P Gypsum Corp.**—Types S, C, DGG, GYPS1, GYPS6.
   **Jones Handle Gypsum Inc.**—Types Fire X, Max"C".
   **LaFarge Gypsum, A Div. of LaFarge Corp.**—Types LGFC1, LGFC6, LGFC.
   **National Gypsum Co., Charlotte, NC**—Type FSR-G, FSW or FSW-G.
   **National Gypsum Co., Riyadh, Saudi Arabia**—Type FR or WR.
   **Rulon Gypsum, A Div. of Pacific Coast Bldg. Products, Inc.**—Type C, PN-1 or PN-C.
   **Republic Gypsum Co.**—Type RG-1, RG-3 or RG-C.
   **Standard Gypsum Corp.**—Type SG-C, SGC or SGC-C.
   **Temple-Inland Forest Products Corp.**—Type TG-C.
   **United States Gypsum Co.**—Types C, IP-X1, IP-X2, SCX, SHX, WRX.
   **Yeso Panamericano SA de CV**—Types C, IP-X1, IP-X2, SCX, SHX, WRX.
8. **Corner Bead**—Fabricated from 20 MSG galv steel to form an angle with 1-1/4 in. legs. Legs perforated with 1/4 in. diam holes approx 2 in. OC. Attached to wallboard with special crimping tool approx 6 in. OC. As an alternate, the bead may be nailed to the wallboard.
9. **Joint Treatment**—Cover the joints between edges of wallboard from corner beads and fastened out. Paper tape embedded in joint compound over joints with edges of compound feathered-out.
10. **Protective Material—Spray-Applied Fire Resistive Materials*** —Spray applied to the underside of the steel floor units, filling the flutes of the units and providing a smooth ceiling which was 1/4 in. thick as measured from the bottom plane of the floor units.
    **Spray-Applied Fire Resistive Materials** (CHPX) category for Individual Manufacturers
11. **Alternate Joint System**—(Not Shown)—For lath only. A 1/16 in. thickness of gypsum plaster applied to entire exposed surface over either paper tape on joints embedded in cementitious compound or 2 1/2 in. wide glass fiber tape stapled 8 in. O.C. on joints.

*Bearing the UL Classification Marking




2 MECHANICAL LEVEL EGRESS PLAN
1/8" = 1'-0"




1 FIRST FLOOR EGRESS PLAN
1/8" = 1'-0"

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UNIVERSITY OF FLORIDA-GAINESVILLE
PROJECT NO. BR-191


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100% CONSTRUCTION DOCUMENTS

DRAWING NAME
MECHANICAL LEVEL & FIRST FLOOR PLAN EGRESS PLAN

DATE 11/21/01
SCALE 1/8"=1'-0"
DRAWN BY/CHECKED BY MM/JRae
DRAWING NUMBER A107