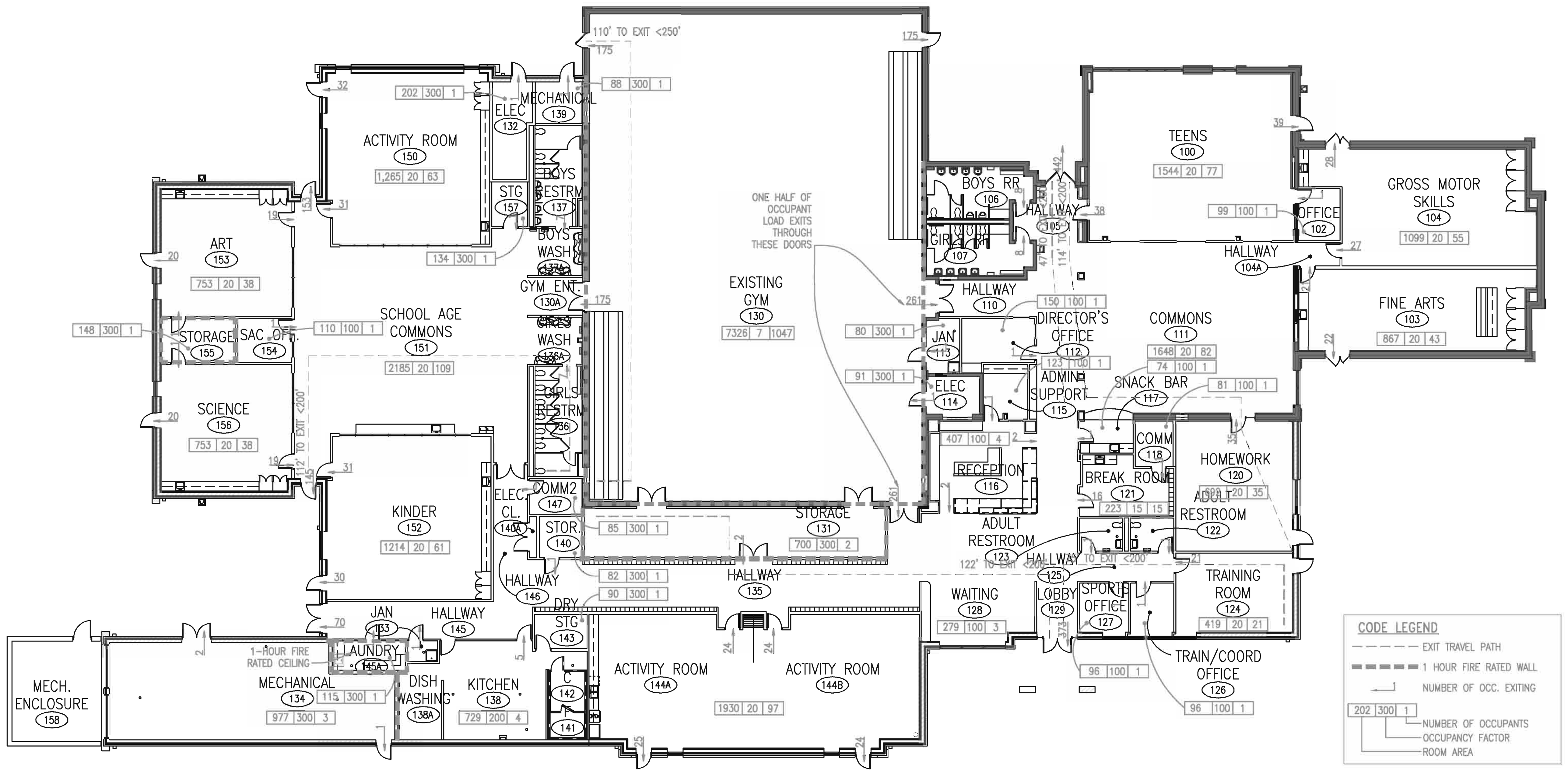
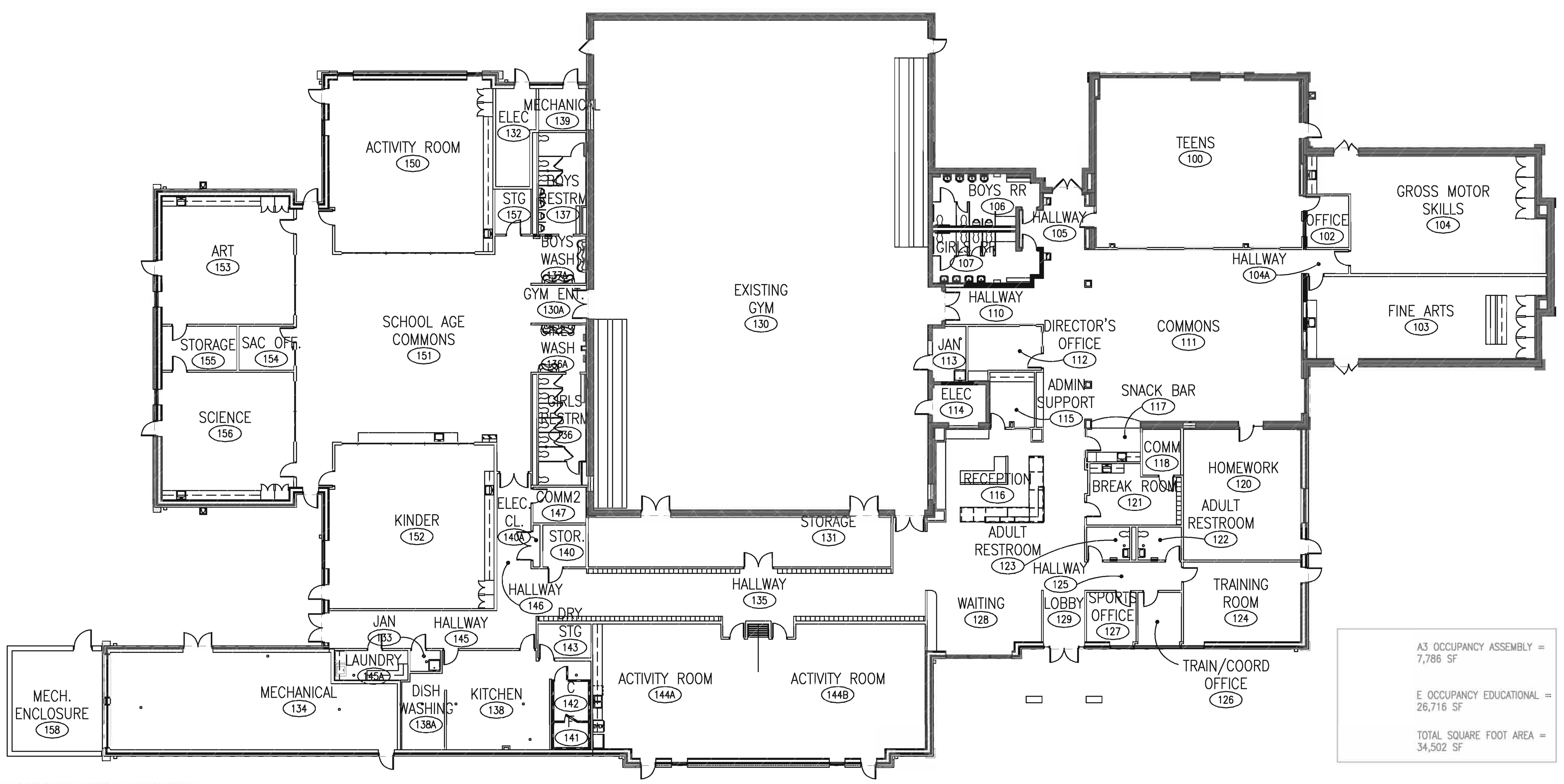


CODE LEGEND

- EXIT TRAVEL PATH
- 1 HOUR FIRE RATED WALL
- NUMBER OF OCC. EXITING

202 | 300 | 1 — NUMBER OF OCCUPANTS / OCCUPANCY FACTOR / ROOM AREA

2 CODE PLAN
AC1.00 SCALE: 1/16" = 1'-0"



A3 OCCUPANCY ASSEMBLY = 7,786 SF

E OCCUPANCY EDUCATIONAL = 26,716 SF

TOTAL SQUARE FOOT AREA = 34,502 SF

1 OCCUPANCY DIAGRAM
AC1.00 SCALE: 1/16" = 1'-0"

BUILDING CODE DATA

A. APPLICABLE BUILDING CODES AND STANDARDS

1) UNIFIED FACILITIES CRITERIA, DESIGN: GENERAL BUILDING REQUIREMENTS
2) UNIFIED FACILITIES CRITERIA (UFC) FOR YOUTH CENTERS
3) INTERNATIONAL BUILDING CODE, 2006 EDITION
4) INTERNATIONAL PLUMBING CODE, 2003 EDITION
5) UNIFORM FEDERAL ACCESSIBILITY STANDARDS
6) AMERICANS WITH DISABILITIES ACT (ANSI 117.1)
7) NFPA 101, LIFE SAFETY CODE, 2003 EDITION
8) NATIONAL ELECTRIC CODE, 2005 EDITION
9) NFPA 96

B. OCCUPANCY CLASSIFICATIONS

1) UNIFIED FACILITIES CRITERIA, DESIGN: GENERAL BUILDING REQUIREMENTS-UFC 1-200-01 CHAPTER 2, 2-3

2) UNIFIED FACILITIES CRITERIA-UFC 4-740-06 (CHAPTER 3-5.3 REFERENCES NFPA 101)
GROUP A - ASSEMBLY, CONCENTRATED USE, WITHOUT FIXED SEATING FOR THE MULTIPURPOSE ROOM
(ORDINARY HAZARD PER NFPA 101)
GROUP E - EDUCATIONAL

3) INTERNATIONAL BUILDING CODE, 2006 EDITION (CHAPTER 3 AND CHAPTER 5)

OCCUPANCY - EDUCATIONAL GROUP E
THE ASSEMBLY OCCUPANCY IS CLASSIFIED AS AN ACCESSORY TO OCCUPANCY GROUP E ACCORDING TO THE EXCEPTION IN PARAGRAPH 508.3.1 AND IS NOT A MIXED-USE OCCUPANCY

***USING THE MORE RESTRICTIVE CODE (NFPA 101), THE BUILDING IS CLASSIFIED AS A SEPARATED OCCUPANCY.

C. OCCUPANCY SEPARATION

1) UNIFIED FACILITIES CRITERIA, DESIGN: GENERAL BUILDING REQUIREMENTS- UFC 1-200-01 CHAPTER 2, 2-3

2) UNIFIED FACILITIES CRITERIA FOR YOUTH CENTERS - UFC4-740-06
PROVIDE ONE-HOUR FIRE-RESISTIVE BARRIER AROUND THE LAUNDRY ROOM AND AT LEAST A 45 MINUTE FIRE-RATED DOOR. (3-5.3.8.2).

3) INTERNATIONAL BUILDING CODE, 2006 EDITION.
AN APPROVED AUTOMATIC FIRE-EXTINGUISHING SYSTEM IS INSTALLED IN THE BUILDING;
THEREFORE, THE MECHANICAL ROOM, LAUNDRY ROOM AND STORAGE ROOMS OVER 100 SF DO NOT NEED A SEPARATION. (IBC TABLE 508.2).
COMMERCIAL KITCHENS NEED NOT BE SEPARATED (PER FOOTNOTE E ON IBC TABLE 508.3.3).

4) NFPA 101
AN APPROVED AUTOMATIC FIRE-EXTINGUISHING SYSTEM IS INSTALLED IN THE BUILDING;
THEREFORE, A ONE HOUR SEPARATION BETWEEN OCCUPANCIES AND E OCCUPANCIES IS REQUIRED PER TABLE 6.1.14.4.1.

***USING THE MORE RESTRICTIVE CODE (NFPA 101), A ONE HOUR SEPARATION BETWEEN OCCUPANCIES A AND E IS PROVIDED.

D. CONSTRUCTION TYPE

1) UNIFIED FACILITIES CRITERIA, DESIGN: GENERAL BUILDING REQUIREMENTS UFC 1-200-01; CHAPTER 2, 2-6.

2) INTERNATIONAL BUILDING CODE (CHAPTER 6, TABLE 601) : TYPE II-B

E. FIRE PROTECTION SYSTEMS

1) UNIFIED FACILITIES CRITERIA, FIRE PROTECTION ENGINEERING FOR FACILITIES 3-600-01; CHAPTER 6, 6-21

2) UNIFIED FACILITIES CRITERIA (UFC 4-740-06);
KITCHEN: PROVIDE A WET CHEMICAL OR WATER SPRAY HOOD DUCT AND COOKING SURFACE FIRE EXTINGUISHING SYSTEM ACCORDING TO NFPA 96 (3-5.3.10).
PROVIDE COMPLETE AUTOMATIC SPRINKLER SYSTEM MEETING THE REQUIREMENTS OF UFC 3-600-01.

3) NFPA 101;
CHAPTER 13 - EXISTING ASSEMBLY OCCUPANCIES
CHAPTER 14 - NEW EDUCATION OCCUPANCIES

AN APPROVED AUTOMATIC FIRE-EXTINGUISHING SYSTEM IS INSTALLED IN THE BUILDING.

F. ALLOWABLE HEIGHT

1) UNIFIED FACILITIES CRITERIA, DESIGN: GENERAL BUILDING REQUIREMENTS- UFC 1-200-01 CHAPTER 2, 2-5

2) INTERNATIONAL BUILDING CODE, 2006 EDITION
CHAPTER 5, TABLE 503, SECTION 504
E = 2 STORIES 55' MAXIMUM HEIGHT
A = 2 STORIES 55' MAXIMUM HEIGHT

THE BUILDING HAS A MAXIMUM HEIGHT OF APPROXIMATELY 30 FEET.

G. ALLOWABLE FLOOR AREA

1) UNIFIED FACILITIES CRITERIA, DESIGN: GENERAL BUILDING REQUIREMENTS- UFC 1-200-01 CHAPTER 2, 2-5

2) INTERNATIONAL BUILDING CODE, 2006 EDITION, CHAPTER 5, TABLE 503, SECTION 506

3) UNIFIED FACILITIES CRITERIA, FIRE PROTECTION ENGINEERING FOR FACILITIES UFC 3-600-01
CHAPTER 2, 2-2 (300% AREA INCREASE WITH INSTALLATION OF APPROVED AUTOMATIC SPRINKLER SYSTEM)

BASE ALLOWABLE:
E OCCUPANCY, TYPE II-B CONSTRUCTION - 14,500 SF
A OCCUPANCY, TYPE II-B CONSTRUCTION - 9,500 SF

FRONTAGE INCREASE:
OPEN FRONTAGE = 1059 FT. PERIMETER (F)
WIDTH OF PUBLIC WAY OR OPEN SPACE = 30 FT. (W)
If = 100 [F/P -.25] W/30
If = 100 [413/413-.25] 30/30
If = 75%

SPRINKLER INCREASE:
Is = 3 = 300%

TOTAL ALLOWABLE AREA - E:
Aa = At + [At If /100] + [At Is /100]
Aa = 14,500 + [14,500 x (75/100)] + [14,500 x (300/100)]
Aa = 68,875 SF

TOTAL PROPOSED AREA - E : 26,737 SF

TOTAL ALLOWABLE AREA - A:
Aa = At + [At If /100] + [At Is /100]
Aa = 9,500 + [9,500 x (75/100)] + [9,500 x (300/100)]
Aa = 45,125 SF

TOTAL PROPOSED AREA - A : 7,765 SF

TOTAL PROPOSED E + A = 34,502 SF

ALLOWABLE AREA (MIXED OCCUPANCY)
(AREA OF E / ALLOWABLE AREA OF E) + (AREA OF A / ALLOWABLE AREA OF A) < OR = 1
(E) 14,500 SF / 68,875 SF + (A) 9,500 / 45,125 SF = .423

H. FIRE RESISTIVE REQUIREMENTS

1) UNIFIED FACILITIES CRITERIA
DESIGN: GENERAL BUILDING REQUIREMENTS- UFC 1-200-01; CHAPTER 2, 2-7

2) UNIFIED FACILITIES CRITERIA (UFC 4-740-06)
A DIRECT EXIT TO THE OUTSIDE FROM EVERY ROOM NORMALLY OCCUPIED BY CHILDREN IS REQUIRED.
A DIRECT EXIT TO THE OUTSIDE FROM EVERY ROOM NORMALLY OCCUPIED BY CHILDREN IS PROVIDED.

3) INTERNATIONAL BUILDING CODE (CHAPTER 6,7) TABLE 601, 602, SECTION 706
STRUCTURAL FRAME, BEARING WALLS, INTERIOR AND EXTERIOR NON-BEARING WALLS, FLOOR AND ROOF CONSTRUCTION: 0-HOUR RATING.

E OCCUPANCY CORRIDORS REQUIRE 0 HOUR RATING WITH SPRINKLER SYSTEM.

I. MAXIMUM TRAVEL DISTANCE

1) UNIFIED FACILITIES CRITERIA
DESIGN: GENERAL BUILDING REQUIREMENTS- UFC 1-200-01; CHAPTER 2, 2-10

2) UNIFIED FACILITIES CRITERIA
FIRE PROTECTION ENGINEERING FOR FACILITIES UFC 3-600-01; CHAPTER 2, 2-1.1
- NFPA 101 CHAPTER 7 (MEANS OF EGRESS),
- CHAPTER 12 A: 250' REQUIRED IF FULLY SPRINKLED: 110' MAX PROVIDED
- CHAPTER 14 E: 200' REQUIRED IF FULLY SPRINKLED: 122' MAX PROVIDED

3) IBC, 2006 EDITION, CHAPTER 10, TABLE 1016.1
E OCCUPANCY : 250' REQUIRED IF FULLY SPRINKLED: 122' MAX PROVIDED
A OCCUPANCY : 250' REQUIRED IF FULLY SPRINKLED: 110' MAX PROVIDED

J. PLUMBING FACILITIES

1) UNIFIED FACILITIES CRITERIA, DESIGN: GENERAL BUILDING REQUIREMENTS- UFC 1-200-01 CHAPTER 2, 2-29
2) INTERNATIONAL BUILDING CODE, 2006 EDITION, CHAPTER 29, TABLE 2902.1
3) INTERNATIONAL PLUMBING CODE
4) UNIFIED FACILITIES CRITERIA, DESIGN: PLUMBING SYSTEMS- UFC 3-420-01, TABLES 403-1 THROUGH 403-5
5) UNIFIED FACILITIES CRITERIA FOR YOUTH CENTERS UFC 4-740-06

SEPARATE MALE / FEMALE TOILETS (CHILD USE ONLY) SHARED BY TEENS AND YOUTH PER TABLE 3-1 (UFC 4-740-06) AND SEPARATE MALE / FEMALE SHARED BY STAFF AND VISITORS (SEPARATE TOILETS PROVIDED).

A - OCCUPANCY : 15 SF / OCCUPANT THUS 7,765 SF / 15 = 518 OCCUPANTS

1 WATER CLOSET / 125 MALE OCCUPANTS = 2 WATER CLOSETS REQUIRED
1 WATER CLOSET / 65 FEMALE OCCUPANTS = 4 WATER CLOSETS REQUIRED

1 LAV REQUIRED / 200 MALE OCCUPANTS = 2 LAVS REQUIRED
1 LAV REQUIRED / 200 FEMALE OCCUPANTS = 2 LAVS REQUIRED

E - OCCUPANCY : SF / OCCUPANT VARIES THUS 26,737 SF = 765 TOTAL OCCUPANTS

1 WATER CLOSET / 50 MALE OCCUPANTS = 8 WATER CLOSETS REQUIRED
1 WATER CLOSET / 50 FEMALE OCCUPANTS = 8 WATER CLOSETS REQUIRED

1 LAV REQUIRED / 50 MALE OCCUPANTS = 8 LAVS REQUIRED
1 LAV REQUIRED / 50 FEMALE OCCUPANTS = 8 LAVS REQUIRED

TOTAL WATER CLOSETS REQUIRED = 10 MALES AND 12 FEMALES

TOTAL LAVS REQUIRED = 10 MALE AND 10 FEMALE

GIRLS REST ROOM 107 = 4 WATER CLOSETS, 4 LAVS
GIRLS REST ROOM 136 = 7 WATER CLOSETS, 2 MULTI-LAV SYSTEM (5 LAVS)
ADULT REST ROOM (WOMEN'S) 123 = 1 WATER CLOSET, 1 LAV

TOTAL FEMALE PROVIDED = 12 WATER CLOSETS AND 10 LAVS

BOYS REST ROOM 106 = 2 WATER CLOSETS, 2 URINALS, 4 LAVS
BOYS REST ROOM 137 = 3 WATER CLOSETS, 4 URINALS, 2 MULTI-LAV SYSTEM (6 LAVS)
ADULT REST ROOM (MEN'S) 122 = 1 WATER CLOSET, 1 LAV

TOTAL MALE PROVIDED = 6 WATER CLOSETS, 6 URINALS, 11 LAVS

DRINKING FOUNTAINS
A OCCUPANCY : 1 / 500 + E OCCUPANCY : 1 / 100
2 REQUIRED; 4 INTERIOR AND 3 EXTERIOR PROVIDED.

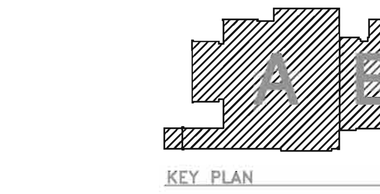
SERVICE SINKS
2 REQUIRED; 2 PROVIDED

K. EXIT WIDTH

1) E OCCUPANCY
26,786 SF / 20 = 1340 OCCUPANTS x .20" = 268" / 32" = 8.375 = 9 DOORS

2) A OCCUPANCY
7,326 SF / 7 = 1047 OCCUPANTS x .20" = 210" / 32" = 6.563 = 7 DOORS

TOTAL EXIT WIDTH : 478" REQUIRED; 704" PROVIDED
TOTAL EXIT DOORS : 16 REQUIRED; 22 PROVIDED



KEY PLAN

Symbol	Description	Date	Approved
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	95% DESIGN – NOT FOR CONSTRUCTION	061308	
	65% DESIGN – NOT FOR CONSTRUCTION	030708	
	35% DESIGN – NOT FOR CONSTRUCTION	011907	

Symbol	Description	Date	Approved
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	NOT FOR CONSTRUCTION		
	NOT FOR CONSTRUCTION		
	NOT FOR CONSTRUCTION		

Designed by: DCL | Date: 082609 | Rev.
Dwn by: GNV | Ckd by: RCJ | Design file no.
Reviewed by: WJD | Drawing code:
Submitted by: | File name: .DWG | Plot date: | Plot scale: 1:1
Chief Engineer

DEPARTMENT OF THE AIR FORCE
AIR COMBAT COMMAND
23 CIVIL ENGINEER SQUADRON
MOODY AIR FORCE BASE, GEORGIA

LEO A DALY
FORMERLY SETTER LEACH & LINDSTROM

MOODY AFB, GEORGIA
YOUTH CENTER ADDITION/ALTERATION
MAFB PROJECT NO. QSEU010145A & B

CODE PLAN

Sheet reference number:
AC1.00

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