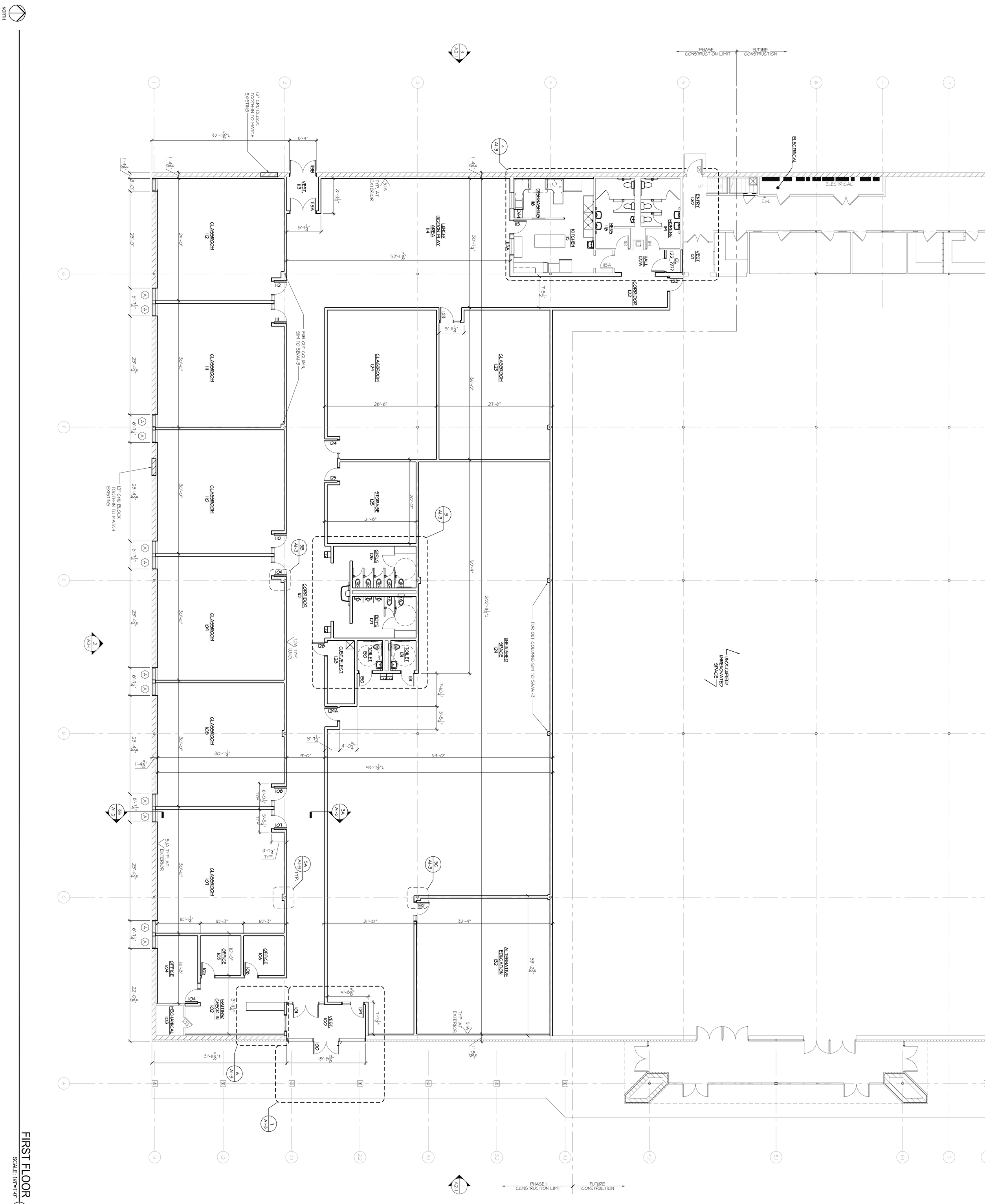


FIRST FLOOR

SCALE: 1/8"=1'-0" (1 / A1-1)

A1-1

10 JULY 2009

BCDM NO. 4682-02

bcdm

OMAHA ■ DES MOINES

CONSTRUCTION DOCUMENT

DAD LEXINGTON SCHOOL SUITE

LEXINGTON, NE

BERINGER CIACCIO DENNELL MABREY - ARCHITECTURE, LANDSCAPE ARCHITECTURE, INTERIOR DESIGN, CONSTRUCTION MANAGEMENT

NOT FOR CONSTRUCTION

REVISIONS			
NO.	DESCRIPTION	BY	DATE

FACILITY NAME
D.A.D. LEXINGTON SCHOOL SUITE

ARCHITECT
BERINGER CIACCIO DENNELL MABREY
100 COURT AVENUE, SUITE 204
DES MOINES, IOWA 50309

APPLICABLE CODES
- 2003 INTERNATIONAL BUILDING CODE
- 2003 INTERNATIONAL MECHANICAL CODE
- 2003 INTERNATIONAL PLUMBING CODE
- 2000 NFPA 101 LIFE SAFETY CODE
- 2005 NATIONAL ELECTRICAL CODE
- 2003 INTERNATIONAL ENERGY CONSERVATION CODE
- ADAAG

ACTIVE FIRE SAFETY FEATURES
- PROTECTED THROUGHOUT WITH AUTOMATIC SPRINKLER SYSTEM.
- PORTABLE FIRE EXTINGUISHERS
- ADDRESSABLE FIRE ALARM SYSTEM WITH BATTERY BACK-UP.
- HEAT DETECTION THROUGHOUT HAZARDOUS AREAS (JANITOR, STORAGE, ETC...), AS REQUIRED.
- AIR HANDLING EQUIPMENT RATED OVER 2000 CFM WILL AUTOMATICALLY SHUT DOWN.
- MANUAL PULL STATION ACTIVATION THROUGHOUT.
- FIRE ALARM HORNS AND VISUALS THROUGHOUT.
- ACTIVATION OF REQUIRED FIRE/SMOKE DAMPERS.

LEGEND:

ONE (1) HOUR RATED WALL
45 MIN. OPENINGS

DESIGNATED FIRE EXIT

PRELIMINARY CODE ANALYSIS:

D.A.D. Lexington School Suite
BCDM PROJECT NO: 4682-02

OCCUPANCY:

- GROUP E (IBC - SECTION 305.1)

TYPE OF CONSTRUCTION:

- TYPE III-B (IBC - SECTION 602.3)

FIRE-PROTECTION SYSTEMS:

- THE BUILDING WILL BE PROTECTED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM. (IBC - SECTION 903)

ALLOWABLE AREA: (IBC - SECTIONS 506.1, 506.2 + 506.3)

- GROUP 'E' OCCUPANCY:

$$AA = 14{,}500 + \frac{(14{,}500 \times 300)}{100} = 58{,}000 \text{ ALLOWABLE S.F.}$$

58,000 ALLOWABLE S.F. > 20,501 S.F. (ACTUAL S.F.)

MEANS OF EGRESS REQUIREMENTS:

- IBC - CHAPTER 10

EDUCATIONAL AREAS:

- OCCUPANT LOAD = 600 (IBC TABLE 1004.1.2)
- 3 EXITS REQUIRED = 3 EXITS PROVIDED (IBC TABLE 1018.1)
- REQUIRED EXIT WIDTH = (600 x 0.15) = 90" (IBC TABLE 1005.1)
- ACTUAL EXIT WIDTH = 2 DOORS @ 68" (EA.) + 1 DOOR @ 42" = 178"
- TOTAL EXIT WIDTH = 178" PROVIDED > 90" REQUIRED

PLUMBING CODE REVIEW INFORMATION:

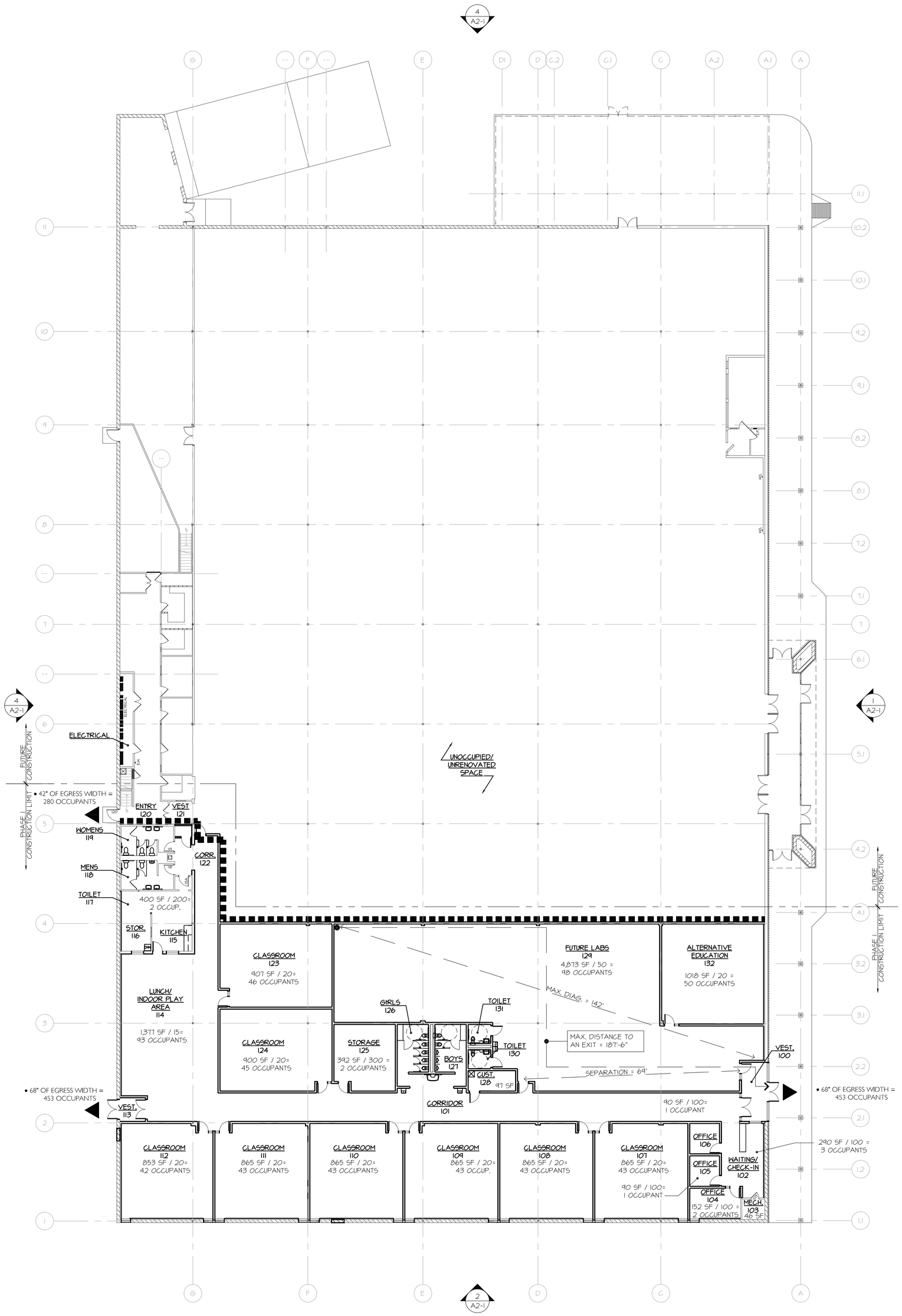
PLUMBING FIXTURE REQUIREMENTS: (TABLE 403.1 - 2003 IPC)

- SCHOOL - OCCUPANT LOAD = 600

BOYS - 300 OCCUPANTS (TABLE 403.1)	GIRLS - 300 OCCUPANTS (TABLE 403.1)	OTHER FIXTURES (TABLE 403.1)
WATER CLOSETS - 1 PER 50	WATER CLOSETS - 1 PER 50	DRINKING FOUNTAINS - 1 PER 100
6 WATER CLOSETS REQUIRED	6 WATER CLOSETS REQUIRED	6 DRINKING FOUNTAINS REQUIRED
URINALS - ≤ ½ REQ'D. W.C.'S	LAVATORIES - 1 PER 50	MOP SINKS - 1
4 URINALS MAX. (SUBSTITUTE FOR W.C.)	6 LAVATORIES REQUIRED	
LAVATORIES - 1 PER 50		
6 LAVATORIES REQUIRED		

- TOTAL FIXTURES PROVIDED

MALE	FEMALE	OTHER FIXTURES
5 WATER CLOSETS PROVIDED	9 WATER CLOSETS PROVIDED	3 DRINKING FOUNTAINS PROVIDED
4 URINALS PROVIDED	6 LAVATORIES PROVIDED	1 MOP SINKS PROVIDED
5 LAVATORIES PROVIDED		1 UNISEX WATER CLOSET PROVIDED
		1 UNISEX LAVATORY PROVIDED



CODE REVIEW AND COMPOSITE PLAN (1 / AC1-1)
SCALE: 1/16"=1'-0"

REVISIONS			
NO.	DESCRIPTION	BY	DATE

NOT FOR CONSTRUCTION

CONSTRUCTION DOCUMENT
D.A.D. LEXINGTON SCHOOL SUITE
LEXINGTON, NE
BERINGER CIACCIO DENNELL MABREY - ARCHITECTURE, LANDSCAPE ARCHITECTURE, INTERIOR DESIGN, CONSTRUCTION MANAGEMENT

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AC1-1
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