

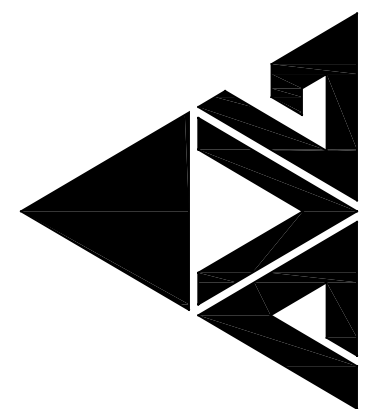
CODE INFORMATION - CONSTRUCTION DRAWINGS

SCOPE OF WORK:	NEW BUILDING	
FIRST FLOOR:		62,616 SQ. FT.
SECOND FLOOR:		28,327 SQ. FT.

AUTOMATIC SPRINKLER SYSTEM / NFPA 13
ENTIRE BUILDING WILL BE COMPLIANT, FULLY SUPPRESSED

CODE REVIEW: 2017 OHIO BUILDING CODE INCLUDING CURRENT REFERENCED CODES						
CHAPTER				CHAPTER		
CODICES OF JURISDICTION				CHAPTER 10 MEANS OF EGRESS	CHAPTER 11 ACCESSIBILITY	SECTION
2017 OHIO BUILDING CODE 2017 OHIO MECHANICAL CODE 2017 OHIO PLUMBING CODE 2017 NATIONAL ELECTRICAL CODE NFPA 70-17 FIRE ALARMA NFPA 72-16 2012 INTERNATIONAL ENERGY CONSERVATION CODE OR ASHRAE 90.1-2010 STANDARDS FOR ACCESSIBLE DESIGN ICC A117.1-09 INTERNATIONAL FUEL GAS CODE IFGC-15 SINKPLERS NFPA131-16				ORC TABLE 1004.1 DESIGN OCCUPANT LOAD DESIGN OCCUPANT LOADS ARE INDICATED ON THE CODE REVIEW PLAN USING THE FOLLOWING ALLOWANCES PER OCCUPANT UNDER ORC TABLE 1004.1.2: STORAGE, MECHANICAL, EQUIPMENT ROOMS: 1 PERSON PER 300 SF GROSS ASSEMBLY WITH FIXED SEATS (GYMNASIUM): ELEACHERS 1 PERSON PER 18" OF SEAT LENGTH PLUS PARTICIPANTS ASSEMBLY WITHOUT FIXED SEATS (CAFETERIA): TABLES AND CHAIRS 1 PERSON PER 15 SF NET*, CHAIRS ONLY 1 PERSON PER 7 SF NET* BUSINESS AND ADMINISTRATION AREAS: 1 PERSON PER 100 SF GROSS CLASSROOMS: 1 PERSON PER 20 SF NET* CHURCHEN: 1 PERSON PER 200 SF GROSS LIBRARY: 1 PERSON PER 50 SF NET* PLATFORMS: 1 PERSON PER 15 NET* GYMNASIUM: 1 PERSON PER 50 SF GROSS LOCKER ROOMS: 1 PERSON PER 50 SF GROSS *WHERE NET AREA IS USED, THE GROSS AREA MULTIPLIED BY .85 IS USED FOR OCCUPANT LOAD THE CALCULATION OF TOTAL OCCUPANT LOAD AND PLUMBING FIXTURES PER ORC 1004.1.2 AND ORC 2902.1 IS 2,208 STUDENTS AND FACILITY. THESE CALCULATIONS INCLUDED SPACES LIKE THE CAFETERIA, AND GYM WHICH OCCUPANTS ARE ACCOUNTED FOR IN CLASSROOMS. GYMNASIUM WILL ONLY HOLD SPORTING EVENTS AFTER SCHOOL HOURS. *REQUIRE TO USE ACTUAL ENROLLMENT AND STAFFING PER SCHOOL: 614 STUDENTS AND 66 STAFF FOR A TOTAL OF 680 OCCUPANTS* SECTION 1003.31 MEANS OF EGRESS SING: ORC 1003.31 STAIRWAYS 0.2 INCH PER OCCUPANT SPRINKLED WITH EMERGENCY VOICE /ALARM COMMUNICATION SYSTEM, THIS WOULD PROVIDE FOR 220 OCCUPANTS PER 44" STAIRWAY. ORC 1003.3.2 OTHER EGRESS COMPONENTS: 0.15 INCH PER OCCUPANT SPRINKLED WITH EMERGENCY VOICE /ALARM COMMUNICATION SYSTEM, THIS WOULD PROVIDE FOR 240 OCCUPANTS PER 36" DOOR LEAF STAIRWAY SERVED BY A CORRIDOR AT LEAST AS WIDE AS THE DOORS SERVED. ORC 1005.7.1 DOOR ENCROACHMENT: DOORS WHEN FULLY OPENED, SHALL NOT REDUCE THE REQUIRED MEANS OF EGRESS WITH MORE THAN 7". DOORS IN ANY POSITION SHALL NOT REDUCE THE REQUIRED WIDTH BY MORE THAN HALF. SECTION 1006 NUMBER OF EXITS AND EXIT ACCESS DOORWAYS ORC 1006.2.1 TWO EXITS SHALL BE PROVIDED WHERE THE DESIGN OCCUPANT LOAD EXCEEDS 49 OR THE COMMON PATH OF TRAVEL EXCEEDS 75 PER TABLE 1006.2.1. ORC 1006.2.1.1. THREE EXITS SHALL BE PROVIDED FOR ANY SPACE WITH AN OCCUPANT LOAD 501 TO 1,000. FOUR EXITS SHALL BE PROVIDED FOR ANY SPACE WITH AN OCCUPANT LOAD GREATER THAN 1,000. SECTION 1010 PANIC AND FIRE EXIT HARDWARE ORC 1010.1.1 DO DOORS SERVING ROOMS OR SPACES WITH AN OCCUPANT LOAD OF 50 OR MORE IN GROUP A OR K SHALL BE PROVIDED WITH A LATCH OR LOCK SHALL HAVE PANIC HARDWARE OR FIRE EXIT HARDWARE. MAIN EXITS OF GROUP A MAY COMPLY WITH ORC 1010.1.3.8 ITEM C (DISTINGUISHABLE DEVICE, POSTED SIGNAGE), ELECTRICAL EQUIPMENT WORKSPACES SHALL BE PROVIDED WITH PANIC HARDWARE OR FIRE EXIT HARDWARE. SECTION 1009 ACCESSIBLE MEANS OF EGRESS. ORC 1009.1.1 ACCESSIBLE SPACES SHALL BE PROVIDED WITH NOT LESS THAN ONE ACCESSIBLE MEANS OF EGRESS, WHERE MORE THAN ONE MEANS OF EGRESS ARE REQUIRED FROM ANY ACCESSIBLE SPACE, EACH ACCESSIBLE PORTION OF THE SPACE SHALL BE SERVED BY NOT LESS THAN TWO ACCESSIBLE MEANS OF EGRESS. ORC 1009.2 CONTINUITY AND COMPONENTS: EACH ACCESSIBLE MEANS OF EGRESS SHALL CONSIST OF ONE OR MORE OF THE NOTED COMPONENTS: 1. ACCESSIBLE ROUTES COMPLYING WITH SECTION 1104. ALL FIRST FLOOR MEANS OF EGRESS COMPLY WITH SECTION 1104. 2. INTERIOR EXIT STAIRWAYS COMPLYING WITH SECTIONS 1029.3 AND 1023. TWO INTERIOR EXIT STAIRWAYS COMPLY WITH 1009.3 AND 1023 AND TWO WAY COMMUNICATION IS PROVIDED AT THE ELEVATOR LANDING. THUS TWO ACCESSIBLE MEANS OF EGRESS ARE PROVIDED FOR THE SECOND FLOOR. 3. AN ELEVATOR COMPLYING WITH 1009.4. THE ELEVATOR WILL COMPLY WITH 1009.4 SECTION 1017 EXIT ACCESS TRAVEL DISTANCE ORC 1017.2 TRAVEL DISTANCE TO AN EXIT SHALL NOT EXCEED 250 FEET WHEN SPRINKLED. EXIT ACCESS TRAVEL DISTANCE DOES NOT EXCEED 180'. SECTION 1019 EXIT ACCESS STAIRWAYS AND RAMPS ORC 1019.3.1 FLOOR OPENINGS CONTAINING EXIT ACCESS STAIRWAYS THAT DO NOT COMPLY WITH THE LISTED CONDITIONS SHALL BE ENCLOSED WITH A SHAFT ENCLOSURE PER ORC 713. STAIRS MAY NOT REQUIRE AN ENCLOSURE IF THEY DO NOT CONNECT MORE THAN 2 STORIES, CAUSE A TRAVEL DISTANCE TO EXCEED ALLOWABLE OF 200', OR SERVE AS AN ACCESSIBLE MEANS OF EGRESS. SEE CODE REVIEW PLANS FOR ANY NOTED EXIT ACCESS STAIRS. SECTION 1020 CORRIDORS. TABLE 1020.1 REQUIRED CORRIDOR FIRE RESISTANCE RATING IS 0 HOURS FOR GROUP E WITH SPRINKLERS. ORC 1020.2 CORRIDOR WIDTH: CORRIDORS SHALL NOT BE LESS THAN 44 INCHES EXCEPT CORRIDORS SERVING A GROUP E WITH AN OCCUPANT LOAD OF 100 OR MORE SHALL BE 72 INCHES MINIMUM. SECTION 1023 EXIT STAIRWAYS ORC 1023.2 EXIT ENCLOSURES SHALL HAVE A FIRE RESISTANCE RATING OF NOT LESS THAN 1 HOUR WHEN CONNECTING LESS THAN FOUR STORIES. 1 HOUR FIRE RESISTANCE RATED ENCLOSURES ARE PROVIDED. ORC 1023.3 EXIT ENCLOSURES SHALL TERMINATE AT AN EXIT DISCHARGE. ORC 1023.4 OPENINGS IN EXIT ENCLOSURES SHALL BE LIMITED TO THOSE NECESSARY FOR EXIT ACCESS TO THE ENCLOSURE FROM NORMALLY OCCUPIED SPACES AND FOR EGRESS FROM THE ENCLOSURE. ORC 1023.5 PENETRATIONS INTO AND OPENINGS THROUGH INTERIOR EXIT STAIRWAYS ARE PROHIBITED EXCEPT FOR REQUIRED INDEPENDENT VENTILATION/PRESSURIZATION EQUIPMENT AND DUCTWORK, SPRINKLER PIPING, STANDPIPS, ELECTRICAL SERVING THE EXIT ENCLOSURE, AND SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 714. SECTION 1026 HORIZONTAL EXITS. ORC 1026.1 HORIZONTAL EXITS SHALL NOT SERVE AS THE ONLY EXIT FROM A BUILDING, NOT MORE THAN HALF OF THE MINIMUM CAPACITY OR REQUIRED WIDTH SHALL BE THROUGH HORIZONTAL EXITS, 1026.2 SEPARATION BETWEEN AREAS IS PROVIDED BY A FIRE BARRIER COMPLYING WITH SECTION 707. THE MINIMUM FIRE RESISTANCE RATING SHALL BE 2 HOURS. OPENING PROTECTIVE SHALL COMPLY WITH SECTION 716. DUCT AND AIR TRANSFER OPENINGS SHALL COMPLY WITH SECTION 717. THE HORIZONTAL SEPARATION INTENTIONALLY NOT CONSIDERED AS A FIRE BARRIER. ORC 1026.3 FIRE DOORS SHALL BE SELF CLOSING OR AUTOMATIC CLOSING WHEN ACTIVATED BY A SMOKE DETECTOR PER 715.4.8.3.	CHAPTER 15 ROOF ASSEMBLY 1505 ROOF ASSEMBLY MEETS CLASS "B" RATING CHAPTER 16, 17, 18 STRUCTURAL DESIGN CHAPTERS 16 STRUCTURAL DESIGN, CHAPTER 17 STRUCTURAL TESTS AND INSPECTIONS, AND CHAPTER 18 SOILS AND FOUNDATIONS. SEE STRUCTURAL DRAWINGS. CHAPTER 27 ELECTRICAL SECTION 2701.1 GENERAL - SCOPE ELECTRICAL COMPONENTS, EQUIPMENT AND SYSTEMS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH NFPA 70. CHAPTER 28 MECHANICAL SYSTEMS SECTION 2801.1 GENERAL - SCOPE MECHANICAL APPLIANCES, EQUIPMENT AND SYSTEMS SHALL BE CONSTRUCTED, INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE MECHANICAL CODE AND THE INTERNATIONAL FUEL AND GAS CODE.	1101.2 BUILDING SHALL BE DESIGNED TO BE ACCESSIBLE IN ACCORDANCE WITH THE ORC AND ANS A117.1. 2009 AS AMENDED, BUILDING HAS BEEN DESIGNED TO COMPLY. 1505 ROOF ASSEMBLY MEETS CLASS "B" RATING CHAPTERS 16 STRUCTURAL DESIGN, CHAPTER 17 STRUCTURAL TESTS AND INSPECTIONS, AND CHAPTER 18 SOILS AND FOUNDATIONS. SEE STRUCTURAL DRAWINGS. SECTION 2701.1 GENERAL - SCOPE ELECTRICAL COMPONENTS, EQUIPMENT AND SYSTEMS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH NFPA 70. SECTION 2801.1 GENERAL - SCOPE MECHANICAL APPLIANCES, EQUIPMENT AND SYSTEMS SHALL BE CONSTRUCTED, INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE MECHANICAL CODE AND THE INTERNATIONAL FUEL AND GAS CODE.
CHAPTER 1 ADMINISTRATION	ORC 106 BUILDING "A" FIRST FLOOR: 37,289 SF BUILDING "B" FIRST FLOOR: 25,391 SF TOTAL FIRST FLOOR: 62,680 SF BUILDING "A" SECOND FLOOR: 28,327 SF GRAND TOTAL BUILDING: 91,007 SF DESIGN OCCUPANT LOADS ARE SHOWN ON THE CODE REVIEW PLANS. SEE STRUCTURAL DRAWINGS FOR STRUCTURAL DESIGN LOADS, SEISMIC DESIGN CATEGORY, AND SITE CLASS.				CHAPTER 7 FIRE-RESISTANCE RATED CONSTRUCTION	ORC 706 FIRE WALLS. ORC 706.1. PORTIONS OF A BUILDING SEPARATED BY FIREWALLS SHALL BE CONSIDERED A SEPARATE BUILDING. ORC 706.4. FIRE WALLS SHALL HAVE A RATING NOT LESS THAN TABLE 706.4. PER TABLE 706.4 NOTE A, GROUP E REQUIRES A 2-HOUR FIRE RESISTANCE RATING IN TYPE I CONSTRUCTION. FIRE WALLS ARE USED TO DEFINE BUILDING AREAS WITHIN THE ALLOWABLE AREA PER ORC 506. ORC 706.5.1 WHERE THE FIREWALL INTERSECTS EXTERIOR WALLS, THE EXTERIOR WALLS WILL BE PROTECTED AS REQUIRED. SEE CODE REVIEW PLAN FOR PROTECTIONS PROVIDED. ORC 706.6 OPENINGS IN FIREWALLS SHALL BE PROTECTED IN ACCORDANCE WITH ORC 716.5. AMOUNT OF OPENINGS IS NOT LIMITED SINCE AUTOMATIC SPRINKLERS ARE INSTALLED IN ALL BUILDING AREAS. ORC 706.9 PENETRATIONS SHALL COMPLY WITH ORC 714. ORC 706.11 DUCT AND AIR TRANSFER OPENINGS SHALL COMPLY WITH ORC 717 AND ARE PERMITTED PER THE EXCEPTION SINCE THE FIREWALLS ARE NOT ON A LOT LINE. ORC SECTION 707 FIRE BARRIERS. ORC 707.3 FIRE-RESISTANCE RATING. ORC 707.3.1 SHUT ENCLOSURES: 1 HOUR FIRE RATING CONNECTING LESS THAN 4 STORIES PER ORC 713.4. PROVIDED FOR ELEVATOR SHAFT. ORC 707.3.2 EXIT ENCLOSURES: 1 HOUR PER 1023.1.1 HOUR FIRE RATING CONNECTING LESS THAN 4 STORIES. PROVIDED FOR INTERIOR EXIT STAIRWAYS. ORC 707.3.3 HORIZONTAL EXIT: 2 HOUR FIRE RATING PER 1026.1. ORC 707.3.7 INCIDENTAL ACCESSORY OCCUPANCIES (LABS): 0 HOURS WITH SPRINKLERS. ORC 707.5.1 SUPPORTING CONSTRUCTION SHALL BE PROTECTED TO AFFORD THE REQUIRED FIRE RESISTANCE RATING. EXCEPTION: SUPPORTING CONSTRUCTION FOR INCIDENTAL USE AREAS IN TABLE 509 OF TYPE IB CONSTRUCTION IS NOT REQUIRED TO BE FIRE RESISTANCE RATED. ORC 707.6. OPENINGS SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 716. OPENINGS SHALL BE LIMITED TO A MAXIMUM AGGREGATE WIDTH OF 20% OF THE LENGTH OF THE WALL, WITH EXCEPTIONS. ORC 707.7 PENETRATIONS SHALL COMPLY WITH ORC 714. PENETRATIONS INTO AN EXIT ENCLOSURE SHALL COMPLY WITH ORC 1019. ORC 1023.SAND ORC 1024.6. ORC 707.8 JOINTS SHALL COMPLY WITH SECTION 715. ORC 707.9 DUCT AND AIR TRANSFER OPENINGS SHALL COMPLY WITH SECTION 717. ORC SECTION 716 OPENING PROTECTIVE ORC 716.5 FIRE DO

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[illegible]CODE
INFORMATION

SCALE: NONE

SHEET NO
G-011