

**2018 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)**
(Reproduce the following data on the building plans sheet 1 or 2.)

Name of Project: **ALDI Inc.**
Address: **1315 Kildaire Farm Rd. Cary, NC** Zip Code **27511**
Owner/Authorized Agent: **Greg Kline** Phone # (336) 403-8107 E-Mail: **greg.kline@aldi.us**
Owned By: City/County Private State
Code Enforcement Jurisdiction: City: **Cary** County: State:

Contact:
DESIGNER: FROM: **ms consultants, inc.** NAME: **Eric Elzondo** LICENSE # **10032** TELEPHONE # **(614) 898-7100** E-MAIL: **elzondo@msconsultants.com**
ARCHITECTURAL: **ms consultants, inc.** CIVIL: **ms consultants, inc.** ELECTRICAL: **ms consultants, inc.** FIRE ALARM: **ms consultants, inc.** PLUMBING: **ms consultants, inc.** MECHANICAL: **ms consultants, inc.** SPrINKLER-StANDPIPE (TBD) STRUCTURAL: **ms consultants, inc.** RETAINING WALLS -S' **N/A** OTHER - Refrigeration

2018 NC BUILDING CODE: New Building Shell Core 1st Time Interior Completions
 Addition Phased Construction - Shell Core
2018 NC Existing Building Code: Prescriptive Alteration Level I Historic Property (check all that apply)
 Repair Alteration Level II Change of Use
 Chapter 14 Alteration Level III

CONSTRUCTED: (date) 1905 **CURRENT OCCUPANCY(S)** (Ch. 3): Mercantile
RENOVATED: (date) 2007 **PROPOSED OCCUPANCY(S)** (Ch. 3): Mercantile
OCCUPANCY CATEGORY (Table 1604.5) Current: **Mercantile** Proposed: **B, M, S, 1**

BASIC BUILDING DATA
(check all that apply)
Construction Type: I-A I-B I-III I-IV V-A V-B
 II-A II-B
Sprinklers: No Partial Yes NFPA 113 NFPA 13R NFPA 13D
Standpipes: No Class I II III Wet Dry
Primary Fire District: No Yes **Flood Hazard Area:** No Yes
Special Inspections Required: No Yes

Gross Building Area Table:

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
2 nd Floor			
Mezzanine			
1 st Floor	24,099	24,392	24,392
Basement			
TOTAL	24,099	24,392	24,392

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**ACCESSIBLE DWELLING UNITS
(SECTION 1107)**

FLOOR	ACCESSIBLE UNITS	TYPE A UNITS	TYPE B UNITS	TYPE C UNITS	TYPE D UNITS	TYPE E UNITS
N/A						

**ACCESSIBLE PARKING
(SECTION 1106)**

TYPE	AREA	EXISTING	NEW	TOTAL
EXISTING - no change				
TOTAL				

**PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)**

FLOOR	TYPE	EXISTING	NEW	TOTAL
NEW	1	1	0	1
EXIST'G	1	1	0	1
TOTAL				

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPL, DBHS, JOC, etc., describe below)

ENERGY REQUIREMENTS SUMMARY

ENERGY REQUIREMENTS:
The following data shall be considered minimum requirements and shall be used to determine if the proposed design meets the energy code shall also be provided. Each Designer shall furnish the energy code requirements in the plan data sheet. If performance method, state the annual energy cost for the proposed design.

Existing building envelope complies with 2018 North Carolina Energy Conservation Code
Exempt Building: _____

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ALLOWABLE AREA

Primary Occupancy Classification(s):
 Assembly A-1 A-2 A-3 A-4 A-5
 Business
 Educational
 Factory F-1 Moderate F-2 Low
 Hazardous H-1 Detonate H-2 Deflagrate H-3 Combust H-4 Health H-5 HPM
 Institutional I-1 I-2 I-3 I-4
 I-1 Condition 1 2
 I-2 Condition 1 2
 I-3 Condition 1 2 3 4 5
 Mercantile
 Residential R-1 R-2 R-3 R-4
 Storage S-1 Moderate S-2 Low High-piled
 Utility and Miscellaneous U High-piled Repair Garage

Accessory Occupancy Classification(s): **N/A**
Incidental Uses (Table 509): **N/A**
This separation is not exempt as a Non-Separated Use (see exceptions).
Special Uses (Chapter 4 - List Code Sections): **N/A**
Mixed Occupancy: Select one Separation: Select one Exception: _____
Select one
Actual Area of Occupancy A **Actual Area of Occupancy B** **NON SEPARATED**
Allowable Area of Occupancy A **Allowable Area of Occupancy B**

FLOOR	PROPOSED OCCUPANCY CATEGORY	MAXIMUM PERMITTED AREA (SQ FT)	MAXIMUM PERMITTED AREA (SQ FT)	MAXIMUM PERMITTED AREA (SQ FT)
1	M/S-1/B	24,392	50,000	4,000
				54,000

¹ Frontage area increases from Section 506.2 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = 354'-1" (P)
b. Total Building Perimeter = 687'-5" (P)
c. Ratio (P/P) = 354'-1" / 687'-5" (P/P)
d. W = Minimum width of public way = 30'-0" (W)
² Unlimited area applicable under conditions of Section 507.
³ Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
⁴ The maximum area of open parking garages must comply with Table 406.5.4. The maximum area of air traffic control towers must comply with Table 412.3.1.
⁵ Frontage increase is based on the upland area in Table 506.2

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ALLOWABLE HEIGHT

ALLOWABLE HEIGHT	ACTUAL HEIGHT	REMARKS
Building Height in Feet (Table 504.3)	75'	28'-8"
Building Height in Stories (Table 504.4)	3	1

Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

FIRE PROTECTION REQUIREMENTS

REQUIRED ELEMENT	FIRE SEPARATION (MINIMUM RATING)	MAXIMUM OPENING (MAXIMUM SIZE)	MINIMUM CLEARANCE (MINIMUM HEIGHT)	MINIMUM CLEARANCE (MINIMUM HEIGHT)	SHEET #	SHEET #
Structural Frame, including columns, girders, trusses	N/A	N/A				
Retaining Walls	N/A	N/A				
North	N/A	N/A			G02	
East	N/A	N/A				
West	N/A	N/A				
South	N/A	N/A			G02	
Roofs	N/A	N/A				
Neighboring Walls and Partitions	N/A	N/A				
Exterior walls						
North	0	1 hr.			G02	
East	> 30" or 1 hr.	N/A				
West	> 30" or 1 hr.	N/A				
South	0	1 hr.			G02	
Interior walls and partitions	N/A	N/A				
Floor Construction						
Including supporting beams and joists	N/A	N/A				
Floor Ceiling Assembly	N/A	N/A				
Common Supporting Floors	N/A	N/A				
Roof Construction, including supporting beams and joists	N/A	N/A				
Roof Ceiling Assembly	N/A	N/A				
Common Supporting Roof	N/A	N/A				
Shed Endwalls - East	N/A	N/A				
Shed Endwalls - West	N/A	N/A				
Shed Endwalls - Other	N/A	N/A				
Corner Separation	N/A	N/A				
Common Wall Separation	N/A	N/A				
Party Wall Separation	N/A	N/A				
Smoke Barrier Separation	N/A	N/A				
Smoke Partition	N/A	N/A				
Traveling Stair	N/A	N/A				
Staircase Enclosure	N/A	N/A				
Escalator Enclosure	N/A	N/A				

* Indicate section number permitting reduction.

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SEISMIC DESIGN CATEGORY

SEISMIC DESIGN CATEGORY: A B C D
Provide the following Seismic Design Parameters:
Occupancy Category (Table 1604.5) I II III IV
Spectral Response Acceleration S_{DS} 7.0 S_{DS} as 7.0 g
Site Classification (ASCE 7, Table 16.5.1) A B C D
Data Source Field Test Presumptive Historical Data
Basic structural system (check one)
 Bearing Wall Dual w/ Special Moment Frame
 Building Frame Dual w/ Intermediate R/C or Special Steel
 Moment Frame Inverted Pendulum
Analysis Procedure: Simplified Equivalent Lateral Force Dynamic
Architectural, Mechanical, Components anchored? Yes No
LATERAL DESIGN CONTROL: Earthquake Wind

SOIL BEARING CAPACITIES

Field Test (provide copy of test report) **N/A**
Presumptive Bearing capacity **1500 pcf**
File size, type, and capacity **N/A**

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
Thermal Zone
winter dry bulb: 23
summer dry bulb: 92
Interior design conditions
winter dry bulb: 68
summer dry bulb: 74
relative humidity: 50%
Building heating load: 270 MBH
Building cooling load: 281 MBH Total / 176 MBH Sens.
Mechanical Spacing Conditioning System
Unitary
Description of unit: **Dehumidification roof top unit**
heating efficiency: 81%
cooling efficiency: 11.3 EER
size category of unit: **>240, <760 MBH**
Boiler
Size category, if oversized, state reason: **N/A**
Chiller
Size category, if oversized, state reason: **N/A**
List Equipment Efficiencies:
N/A

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PERCENTAGE OF WALL OPENING CALCULATIONS

FLOOR	PERCENTAGE OF WALL OPENING	ALLOWABLE AREA (%)	ACTUAL PERCENTAGE (%)
East, >30	N/A		
North, 0	N/A		
South, 0	N/A		
West, >30	N/A		

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: Yes No
Exit Signs: Yes No
Fire Alarm: Yes No
Smoke Detection Systems: Yes No
Carbon Monoxide Detection: Yes No

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet # **G-002, A-601, EP-101** (Supplement fire protection fire alarm by licensed contractor only)
 Fire escape routes and wall locations (Chapter 7)
 Stair and elevator lobby area with respect to discharge to the exterior (705.8)
 Emergency Use Evacuation Areas as it relates to equipment (Table 1604.1.2)
 Exit loads for each exit
 Clear travel paths (1017)
 Clear width of travel paths (Table 1006.2.1 & 1006.3.2(1))
 Door lengths (1020.4)
 Clear heights for each entrance
 Maximum weight and occupant load capacity each exit door can accommodate based on egress width (1005.3)
 Actual occupancy for each exit door
 Separate graphic plan indicating where fire rated floor covering and/or roof structure is provided for purposes of occupancy separation
 Location of doors with panic hardware (1010.1.10)
 Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
 Location of doors equipped with hold-open devices
 Location of emergency escape windows (1050)
 The square footage of each fire area (202)
 The square footage of each smoke compartment for Occupancy Classification I-2 (407.3)
 Note any code exceptions or table notes that may have been utilized regarding the items above

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ELECTRICAL SUMMARY

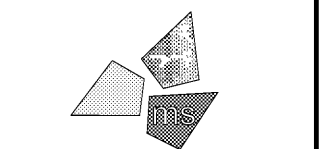
ELECTRICAL SYSTEM AND EQUIPMENT
Method of Compliance:
Energy Code: Prescriptive Performance
ASHERAE 90.1: Prescriptive Performance
Lighting schedule (each fixture type)
Lamp type required in fixture
Number of lamps in fixture
Ballast type used in fixture
Number of ballasts in fixture
Total wattage per fixture
Total interior wattage specified vs. allowed (whole building or space by space)
Total exterior wattage specified vs. allowed
Additional Prescriptive Compliance
 506.2.1 More Efficient Mechanical Equipment
 506.2.2 Reduced Lighting Power Density
 506.2.3 Energy Recovery Ventilation Systems
 506.2.4 Higher Efficiency Service Water Heating
 506.2.5 On-Site Supply of Renewable Energy
 506.2.6 Automatic Daylighting Control Systems

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Issued: _____ Date: _____
A Client Review Set 02/15/19
B Bid Set 03/08/19
C _____
D _____
Revisions: _____ Date: _____
1 _____
2 _____
3 _____
4 _____
5 _____
6 _____
7 _____
8 _____

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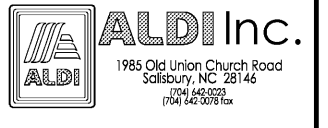


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REVIEWED BY: NAL/CMB

Seal



ALDI Inc. Store #: 59
Cary, NC
1315 Kildaire Farm Rd
Cary, NC 27511
Wake County
Project Name & Location:

NC Appendix "B"

Drawing Name:	Project No.
Prototype Rls.	40452-25
Type: v7.1	G-003
Scale: As Noted	Drawing No.