DOX FORMAT

2018 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)

Name of Project: LAKESIDE SELF-STORAGE BLDG. G
Address: 4271 NEILLS CREEK ROAD, ANGIER NC, Zip Code 27501
Proposed Use: SELF STORAGE FACILITY
Owner or Authorized Agent: JOHN AUTON Telephone 919-369-9872 Email: jauton@ssdinc.com
Owned By: ☒ City/County ☐ Private ☐ State
Code Enforcement Jurisdiction: ☐ City ☐ County ☐ State

LEAD DESIGN PROFESSIONAL

Designer	FIRM	NAME	LICENSE #	TELEPHONE #	EMAIL
Architectural	G. CLEVELAND PATE, PLLC	CLEVE PATE	NC 4895	919 851-0052	PATEARCHITECTURE@GMAIL.COM
Civil	PRIOR APPROVAL OF CIVIL, SEPARATE CONTRACT				
Electrical	SEE DRAWINGS PROVIDED BY BETCO.				

G. CLEVELAND PATE, PLLC ARCHITECTURE-PLANNING
PLLC. ARCHITECTURE SHEETS (SEE BETCO DRAWINGS).

PLAN, ELEV, APPX B, ONLY

Fire Alarm NA
Plumbing NA
Mechanical NA
Sprinkler-Standpipe NA
Structural SEE DRAWINGS PROVIDED BY BETCO.
Retaining Walls > 5' High NA
Pre Eng. Truss NA

2018 NC BUILDING CODE ☒ New Building ☐ Addition ☐ Renovation
☐ 1st Time Interior Completion
☐ Shell/Core-Contact the local inspection jurisdiction for possible additional procedures and requirements
☐ Phased Construction-Shell/Core-Contact the local inspection jurisdiction for possible additional procedures and requirements.

2018 NC EXISTING BUILDING CODE: EXISTING: ☐ Prescriptive ☐ Repair ☐ Chapter 14
Alteration: ☐ Level 1 ☐ Level II ☐ Level III
☐ Historic Proerty ☐ Change of Use

CONSTRUCTED: (date) NA
RENOVATED: (date) NA
CURRENT OCCUPANCIES (CH.3): NA
PROPOSED OCCUPANCIES (CH.3): S1 SELF STORAGE

RISK CATEGORY (TABLE 1604.5): CURRENT ☐ I ☐ II ☐ III ☐ IV
PROPOSED ☐ I ☒ II ☐ III ☐ IV

BASIC BUILDING DATA

Construction Type: (check all that apply) ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A ☐ I-B ☒ II-B ☐ III-B ☐ V-B
Sprinklers: ☒ No ☐ Partial ☐ Yes ☐ NAPA13 ☐ NFPA 13R ☐ NFPA 13D
Standpipes: ☒ No ☐ Yes Class: ☐ I ☐ II ☐ III ☐ Wet ☐ Dry
Fire District: ☒ No ☐ Yes (Primary) Flood Hazard Area: ☒ No ☐ Yes
Special Inspections Req: ☒ No ☐ Yes Contact the local inspection jurisdiction for additional procedures and requirements.

Gross Building Area: (OUT TO OUT OF BEARING WALLS)

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL	TOTAL
BLDG. G	———	4,500	4,500	4,500

ALLOWABLE AREA

PRIMARY OCCUPANCY CLASSIFICATION

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 Conbust ☐ H-4 Health ☐ H-5 HPM
Institutional ☐ I-1 ☐ I-2 ☐ I-3 ☐ I-4
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
☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility and Miscellaneous ☐

ACCESSORY OCCUPANCY CLASSIFICATIONS: NA

INCIDENTAL USES (TABLE 509): NA

SPECIAL USES (CHAPTER 4-LIST CODE SECTIONS): NA

SPECIAL PROVISIONS: (CHAPTER 5-LIST CODE SECTIONS): ———

MIXED OCCUPANCIES: ☒ No ☐ Yes Separation ___ Hr. Exception ———

☐ Incidental Use Seperation (508.2.5)
This separation is not exempt as a Non-Separated Use (see exception)

☐ Non-Separate Use (508.3)
The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined shall apply to the entire building.

☐ Separated Use (508.4)-see below for area calculations
For each story, the area of the occupancy shall be such that the sum of the ratiosn of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

_____ + _____ + ___ = ___ ≤ 1

Story No.	Description And Use	(A) Bldg. Area Per Story (Actual)	(B) Table 506.2 d Area	(C) Area For Frontage Increase[1,2]	(D) Allowable Floor Area Per Unlimit.[3]
BLDG. G	1	S1 STOR.	4,500	17,500	NA DOESN'T EXCEED

1 Frontage area increases from Section 506.2 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet min. width=____ft.(F)
b. Total Building Perimeter =_____ft(P)
c. Ratio (F/P)=___(F/P)
d. W=Minimum with of public way =____ft(W)
e. Percent of frontage increase I_f = 100(F/P-0.25) x W/30 =____(%)
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
5.Frontage increase is based on the unsprinkled area value in Table 506.2

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE [1]
building ht. in feet (table 504.3)2	55'	11'-8"	
building ht. in stories(table 504.4)3	2	1	

1.Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4
2. The maximum height of th air traffic control towers must comply with Table 412.3.1
3.The maximum height of open parking garages must comply with Table 406.5.4

FIRE PROTECTION REQUIREMENTS
THIS SECTION REQUIRED FOR ALL PROJECTS

Life safety Plan Sheet #, If Provided 2A

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	RATING PROVIDED (W/__HR REDUCTION)	DETAIL # AND SHEET#	DESIGN # FOR RATED ASSEM.	DESIGN # FOR RATED PENE.	DESIGN # FOR RATED JOINTS
						SEE PME	SEE UL DETAILS
Structural Frame, Including columns, girders, trusses							
BEARING WALLS (EXT)							
NORTH	NO RATE	0	0				
SOUTH		0	0				
EAST		0	0				
WEST(adj. to other bldg)	5' Imp.PL	1 HR.	1 HR.	U425/A2 →		NONE	SEE DETAIL
Interior Bearing Walls	NA	NA					
NON BEARING WALLS/PARTEXT	NO RATE						
North		0	0				
East		0	0				
West		0	0				
South		0	0				
Interior Non Bearing Walls							
Floor construction Including supporting beams and joists List const. types.							
Floor ceiling assembly							
Columns supporting floors							
roof construction including supporting beams and joists							
Roof Ceiling Assembly							
Columns Supporting Roof							
Shaft Enclosures-Exit							
RATED OTHER:							
Shaft-Elevator							
Shaft-Mech Duct							
Elevator Equip Rm.							
Sprinkler Riser Rm.							
End Wall Adj. to Other Bldg.	5' Imp.P.L.	1 HR		U425/A2 →		NONE	SEE DETAIL
Corridor Separation		NA →		NA			
~~Occupancy~~/Fire barrier sep.							
~~Party~~/fire wall separation	NA						
smoke barrier separation	NA	NA	NA	NA			
Smoke Partition							
Tenant Dwelling Unit/ Sleeping Unit separation							
Incidental Use Separation							

SEE PLAN/ELEV.

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATION

FIRE SEPARATION DISTANCE (FT) FROM PROPERTY LINE	DEGREE OF OPENINGS PROTECTION(705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
NA-EXCEEDS DISTANCE REQ. FOR ALL PROP. LINES. SEE CIVIL			→

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting	☒ No	☐ Yes
Exit Signs:	☒ No	☐ Yes
Fire Alarm:	☒ No	☐ Yes
Smoke Detection Systems:	☒ No	☐ Yes
Carbon Monoxide Detection	☒ No	☐ Yes
Panic Hardware:	☒ No	☐ Yes

LIFE SAFETY PLAN REQUIREMENTS

LIFE SAFETY A5, A6, A7, A8

☒ Fire and/or smoke rated wall locations (Chapter 7)
☐ Assumed and real property line locations NA SEE SITE/CIVIL
☐ Exterior wall opening area with respect to distance to assumed property lines (705.8) NA
☐ Existing Structures within 30' of the proposed building NA
☐ Occupancy Types for each area as it relates to occupant load calculation (Table 1004.1.1) NA
☒ Occupant Load for each area
☒ Exit access travel distances (1016) ALL MEET MIN.
☒ Common Path of travel distances (1014.3 & 1028.8)
☒ Dead End Lengths (1018.4) NONE EXIST
☒ Clear exit widths for each door EXCEEDS MIN. ALL LOC.
☒ Maximum calculated occup load capacity for each exit door can accom based on exit width(1005.1)
☒ Actual occupant load for each exit door MEETS MIN. REQ. LOW OCCUPANCY (ROLL UP ONLY)
☐ A separate schematic plan indicating where the fire rated floor/ceiling and or roof struct is provided for purposes of occupancy separation NA
☐ Location of doors with panic hardware NA
☐ Location of doors with electromagnetic egress locks (1008.1.9.8) NA
☐ Location of doors with hold open devices NA
☐ Location of emergency escape windows (1029) NA
☐ The square footage of each fire area (902) NA
☐ The square footage of each smoke compartment (407.4) NA
☐ Note any code exemptions or table notes that may have been utilized regarding the items above NA

ACCESSIBLE DWELLING UNITS NA
(SECTION 1107)

Total Units	Access. Units Req.	Access, Units Provided	Type A Units Req.	TYPE A Units Provided	Type B Units Provided	Type B Units Req.	Total Accessible Units Provided.
NA							→

ACCESSIBLE PARKING
(SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARK. SPACES		# OF ACCESSIBLE SPACES			TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REG. W/5' ACCESS AISLE	132" ACCESS AISLE	VAN SPACE W/8' ACCESS AISLE	
TOTAL SEE CIVIL	SEE CIVIL					→

PLUMBING FIXTURE REQUIREMENTS

USE		WATER CLOSET			URINALS	LAVS.			SHOWERS & TUBS	DRINKING FOUNTAINS	
NO PLUMBING IN THIS BUILDING		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX		REGULAR	ACCESSIBLE
SPACE	EXISTING										
	NEW										
	REQUIRED								NA	NOT REQ →	
	TOTAL REQ.	SEE ABOVE UNDER USE →									
	TOTAL PROV.										

SPECIAL APPROVALS

Special Approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, ICC, etc. describe below)

SEE STRUCTURAL FOR SPECIAL INSPECTIONS FORM IF REQUIRED

STRUCTURAL DESIGN (SEE STRUCTURAL FOR ADDITIONAL DATA)

DESIGN LOADS

Importance Factor: Wind (Iw) 1.0
Snow(Is) 1.0
Seismic(Ie) 1.0

Live Loads: Roof 20 PSF
Mezzanine NA PSF
Floor NA PSF
Floor 125 PSF

Ground Snow Load: 15 PSF

Wind Load Basic Wind Speed 115 mph (ASCE-7)
Exposure Category C
Wind Base Shears(for MWFRS) Vx= 119KIP Vy= 92KIP

Seismic Design Category: ☐ A ☒ B ☐ C ☐ D

Provide the following Seismic Design Parameters:
Occupancy Category (Table 1604.5) ☐ I ☐ II ☐ III ☐ IV
Special Response Acceleration Ss 15.4 %g S1 2.8 %g
Site Classification (table 1613.5.2) ☐ A ☐ B ☐ C ☒ D ☐ E ☐ F

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 Speical Steel
☐ Moment Frame ☐ Inverted Pendulum

Seismic base shear: Vs= 78.3KIPS Vy= 78.3KIPS
Analysis Procedure: ☐ Simplified ☒ Equiv. Lateral force ☐ Dynamic

Architectural, Mechanical, Components Anchored? ☒ Yes ☐ No

Lateral Design Control: ☐ Earthquake ☒ Wind

Soil Bearing Capacities:
Field Test(provide copy of test report) SEE SOIL REPORT PSF
Presumptive Bearing Capacity → PSF SEE STRUCTURAL AND ANY SOIL REPORTS
Pile Size, type and capacity ———

Special Inspections Required: ☐ Yes ☒ No TBD

ENERGY SUMMARY

ENERGY REQUIREMENTS:

The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed project.

Existing building envelope complies with code: (This is a new building) ☐ No ☐ Yes the remainder of this section is N/A

Exempt Building: ☐ No ☒ Yes(Provide code or statutory reference): ENERGY CODE 101.12 SENATE BILL 131

S OCCUPANCY DOES NOT REQUIRE INSULATION BUT THE OWNER RESERVES THE RIGHT TO INSULATE. PER NOTES ON THESE DRAWINGS WALL SECTIONS.

CLIMATE ZONE: ☐ 3A ☒ 4 ☐ 4A ☐ 5

METHOD OF COMPLIANCE:
☒ Prescriptive (Energy Code) ☐ Performance (Energy Code)
☐ Prescriptive (ASHRAE 90.1) ☐ Performance (ASHRAE 90.1)
(If "Other" specify source here) ———

THERMAL ENVELOPE

ROOF/CEILING ASSEMBLY (EACH ASSEMBLY)
Description of Assembly LIGHT FRAMING, METAL ROOF, FIBERGLASS INSU BATTS WITH THERMAL BLOCKS (INSU OWN.OPT)
U-Value of total assembly .029
R-Value of insulation R33.5
Skylights in each assembly
U-Value of skylight NA
Total square footage of skylights in each assembly NA

EXTERIOR WALLS (EACH ASSEMBLY) (ALL INSULATION IS OWNER OPTION-SEE ABOVE)
Description of Assembly 6" STL STUDS, WP DENSGLASS SHEATHING, INTERIOR MTL PNL., R19 FIBERGLASS INSU BATTS, (EXT. BRICK/EIFS/MTL. PNL.
U-Value of total assembly VARIES U.047 TO U.04
R-Value of insulation R19
Openings (windows or doors with glazing)
U-Value of assembly .064
Solar Heat Gain Coeff. .25
Projection factor LESS THAN 25
Low-e required, if applicable YES OR SOLAR TINT
Door R-Values R15

OPTIONAL ON S1-SEE ABOVE

WALLS BELOW GRADE (EACH ASSEMBLY)
Description of assembly NA
U-Value of total assembly NA
R-Value of insulation NA

FLOORS OVER UNCONDITIONED SPACE (EACH ASSEMBLY)
Description of assembly NA

FLOORS OVER UNCONDITIONED SPACE (EACH ASSEMBLY)
Description of assembly NA
U-Value of total assembly
R-Value of insulation

FLOORS SLAB ON GRADE (EACH ASSEMBLY)
Description of assembly CONC SLAB ON STONE BASE (SEE STRUCTURAL AND ARCHT. SECTIONS)
U-Value of total assembly
R-Value of insulation NO
Horizontal/Vertical requirement NO
Slab heated NO

OPTIONAL ON S1-SEE ABOVE

MECHANICAL SUMMARY
MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

THERMAL ZONE
Winter dry bulb NA
Summer dry bulb
INTERIOR DESIGN CONDITIONS
Winter dry bulb
Summer dry bulb
Relative humidity
BUILDING HEATING LOAD
BUILDING COOLING LOAD
MECHANICAL SPACING CONDITIONING SYSTEM
Unitary
Description of unit
Heating efficiency
Cooling efficiency
Size Category of unit
Boiler
Size Category. If oversized, state reason:
Chiller
Size Category. If oversized, state reason:
LIST EQUIPMENT EFFICIENCIES

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT NA

Method of Compliance:
Energy Code: ☐ Prescriptive ☐ Performance
ASHRAE 90.1: ☐ Prescriptive ☐ Performance

Lighting schedule (each fixture type)
lamp type required in fixture
number of lamps in fixture
ballast type used in the fixture
number of ballasts in fixture
total wattage per fixture
total interior wattage specified vs. allowed (whole build. or space by space)
total exterior wattage specified vs. allowed

Additional Prescriptive Compliance
☐ C406.2 MOREE EFFICIENT HVAC EQUIP. PERFORM.
☐ C406.3 REDUCED LIGHTING POWER DENSITY
☐ C406.4 ENHANCED DIGITAL LIGHTING CONTROLS
☐ C406.5 ON SITE RENEWABLE ENERGY
☐ C406.6 DEDICATED OUTDOOR AIR SYSTEM
☐ C406.7 REDUCED ENERGY USE IN SERVICE WATER HTG.

LAKESIDE SELF-STORAGE

HARNETT COUNTY
NORTH CAROLINA

BLDG. G

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GENERAL NOTES:

REV. DATE:	REVISION DESCRIPTION

G. CLEVELAND PATE, PLLC
Architecture • Planning
6013 Fordland Drive, Raleigh, NC 27606
919-851-0052

SEALS:

GROVER CLEVELAND PATE III REGISTERED ARCHITECT 4895 NORTH CAROLINA CARY, N.C.

7/26

APPENDIX B

GCP	GCP	SHEET:
DESIGNED BY:	DRAWN BY:	APXB
GCP	GCP	
CHECKED BY:	APPROVED BY:	OF:
FREEWAY1	FREEWAY1A	7/20/26
CAD FILE NAME:	PROJECT #	DATE: