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: Self Storage Facility Address: 937 East Haggard Ave Building 2 Owner/Authorized Agent: DJ Thomas Phon Owned By:Store Space CAP Elon LLP X City/ Code Enforcement Jurisdiction: City_	Zip Code 27244 E-Mail DThomas@storespace.com State State		
CONTACT:			
DESIGNER FIRM Architectural Mark Dean Architect Civil NA	Mark A. Dean 13389	TELEPHONE # E-MAIL (716)651-0381 markd@dean	architects.com
Electrical J. Schreur Consulting Fire Alarm J. Schreur Consulting Plumbing J. Schreur Consulting	Vasilios Artemiou 052180 Vasilios Artemiou 052180 Vasilios Artemiou 052180	(201)675-7080 jschreur.cons (201)675-7080 jschreur.cons (201)675-7080 jschreur.cons	ulting@gmail.com
Mechanical J. Schreur Consulting Sprinkler-Standpipe J. Schreur Consulting Structural Mark Dean Architect	Vasilios Artemiou 052180 Vasilios Artemiou 052180 Mark A. Dean 13389	(201)675-7080 jschreur.cons (201)675-7080 jschreur.cons (716)651-0381 markd@dean	ulting@gmail.com ulting@gmail.com
Retaining Walls >5' High NA Other ("Other" should include firms and individuals	s such as truss, precast, pre-engineer	red, interior designers, etc.)	
Shell/Coprocedu Phased opossible 2018 NC EXISTING BUILDING CODE: 1	Enterior Completion ore - Contact the local inspection juring and requirements Construction - Shell/Core- Contact to additional procedures and requirements EXISTING: Prescriptive Alteration: Level I Historic Property	he local inspection jurisdiction tents Repair Chapter 14 Level II X Level III Change of Use	<u>for</u>
CONSTRUCTED: (date) RENOVATED: (date)		(S) (Ch. 3): S-1 Moderate H Y(S) (Ch. 3): S-1 Moderate H	
RISK CATEGORY (Table 1604.5):	Current: I X II III Proposed: I X II III	☐ IV ☐ IV	_
Sprinklers: □ No □ Partial X Yes Standpipes: X No □ Yes Class		☐ Dry ☐ Yes urisdiction for additional	

		Gross Building Area Table	
FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
3 rd Floor			
2 nd Floor			
Mezzanine			
1 st Floor	14,025 SF		
Basement			
TOTAL	14,025 SF		
		ALLOWABLE AREA	
Primary Occupa	ancy Classification(s):		
Assembly	□ A-1 □ A-2 □ A	A-3	
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 Condition ☐ 1	\square 2	
	☐ I-2 Condition ☐ 1	<u> </u>	
	☐ I-3 Condition ☐ 1		5
	☐ I-4		
Mercantile		_	
Residential	\square R-1 \square R-2 \square 1	_	
Storage		S-2 Low High-piled	
		Open 🗌 Enclosed 🔲 Repair Ga	arage
•	Miscellaneous		
	•	NA	
Incidental Uses	, , , , , , , , , , , , , , , , , , , ,		
Special Uses (Cl	hapter 4 – List Code Sec	tions): NA	
Special Provisio	ns: (Chapter 5 – List Co	ode Sections):	
Mixed Occupan	cy: X No Y	es Separation: Hr.	Exception:
☐ Non-	-Separated Use (508.3) -	The required type of construction applying the height and area limit occupancies to the entire building construction, so determined, shall	
☐ Sepa	be su		h story, the area of the occupancy shall e actual floor area of each use divided by hall not exceed 1.
	al Area of Occupancy A ble Area of Occupancy A	+ <u>Actual Area of Occupant</u> Allowable Area of Occupan	
		+	+ = <u>< 1.00</u>

STORY	DESCRIPTION AND	(A)	(B)	(C)	(D)
NO.	USE	BLDG AREA PER	TABLE 506.2^4	AREA FOR FRONTAGE	ALLOWABLE AREA PER
		STORY (ACTUAL)	AREA	INCREASE ^{1,5}	STORY OR UNLIMITED ^{2,3}
1	S-1 Moderate Hazard Stora	ge 14,025 SF	70,000 SF	NA	70,000 SF

¹ Frontage area increases from Section 506.3 are computed thus:

- a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (F)
- b. Total Building Perimeter = _____(P)
- c. Ratio (F/P) = _____ (F/P)
- d. W = Minimum width of public way = _____(W)
- e. Percent of frontage increase $I_f = 100[F/P 0.25] \times W/30 =$ _____(%)
- ² Unlimited area applicable under conditions of Section 507.
- ³ Maximum Building Area = total number of stories in the building x D (maximum3 stories) (506.2).
- ⁴ The maximum area of open parking garages must comply with Table 406.5.4.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE 1
Building Height in Feet (Table 504.3) ²	75'-0"	20'-0"	
Building Height in Stories (Table 504.4) ³	4	1	

¹ Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

⁵ Frontage increase is based on the unsprinklered area value in Table 506.2.

² The maximum height of 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

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQ'D	RATING PROVIDED (W/* REDUCTION)	DETAIL # AND SHEET #	DESIGN# FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses							
Bearing Walls		0	0				
Exterior		0	0				
North		0	0				
East		0	0				
West		0	0				
South		0	0				
Interior		0	0				
Nonbearing Walls and Partitions			_				
Exterior walls		0	0				
North		0	0				
East		0	0				
West		0	0				
South		0	0				
Interior walls and partitions		0	0				
Floor Construction Including supporting beams and joists		0					
,		0	0				
Floor Ceiling Assembly		0	0				
Columns Supporting Floors		V	0				
Roof Construction, including supporting beams and joists		0	0				
Roof Ceiling Assembly		0	0				
Columns Supporting Roof		0	0				
Shaft Enclosures - Exit		NA					
Shaft Enclosures - Other		NA					
Corridor Separation		0	0				
Occupancy/Fire Barrier Separat	ion	NA					
Party/Fire Wall Separation		NA					
Smoke Barrier Separation		NA					
Smoke Partition		NA					
Tenant/Dwelling Unit/ Sleeping Unit Separation		NA					
Incidental Use Separation		NA					

^{*} Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	Degree of openings Protection (Table 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
All Sides Greater than 30'			

Exi Fire Smo	LIFE SAFETY SYSTEM REQUIREMENTS ergency Lighting: No X Yes t Signs: No X Yes e Alarm: No X Yes oke Detection Systems: No X Yes Partial bon Monoxide Detection: No X Yes
	LIFE SAFETY PLAN REQUIREMENTS
Life S	Safety Plan Sheet #:TS1.0
	Fire and/or smoke rated wall locations (Chapter 7) Assumed and real property line locations (if not on the site plan) Exterior wall opening area with respect to distance to assumed property lines (705.8) Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2) Occupant loads for each area Exit sign locations (1013) Exit access travel distances (1017) Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1)) Dead end lengths (1020.4) Clear exit widths for each exit door Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3) Actual occupant load for each exit door A separate schematic plan indicating where fire rated floor/ceiling 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 with electromagnetic egress locks (1010.1.9.9) Location of doors equipped with hold-open devices Location of emergency escape windows (1030) The square footage of each fire area (202)
	The square footage of each smoke compartment for Occupancy Classification I-2 (407.5) Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS

(SECTION 1107)

Unit	TOTAL	ACCESSIBLE	ACCESSIBLE	TYPE A	TYPE A	Type B	Түре В	TOTAL
CLASSIFICATION	Units	Units	Units	Units	Units	Units	Units	ACCESSIBLE
		REQUIRED	Provided	REQUIRED	Provided	REQUIRED	PROVIDED	Units
								PROVIDED
NA								

ACCESSIBLE PARKING

(SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE S	PACES PROVIDED	TOTAL # ACCESSIBLE
	REQUIRED	PROVIDED	96" SPACES	132" SPACES	PROVIDED
Existing					
TOTAL					

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE WATER CLOSETS		URINALS		LAVATORIES		SHOWERS	DRINKING FOUNTAINS				
		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX	/TUBS	REGULAR	ACCESSIBLE
SPACE	EXIST'G			1	0			1			
	NEW			1				1			1
	REQ'D			2				2			1

SPECIAL APPROVALS

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

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 design.

cisting building envelope complies with code: No X Yes (The remainder of this section is not applicable)
rempt Building: X No Yes (Provide code or statutory reference):
Climate Zone: 3A X 4A 5A
Method of Compliance: Energy Code
HERMAL ENVELOPE (Prescriptive method only)
Roof/ceiling Assembly (each assembly) Description of assembly: U-Value of total assembly: R-Value of insulation: Skylights in each assembly: U-Value of skylight: total square footage of skylights in each assembly:
Exterior Walls (each assembly) Description of assembly: U-Value of total assembly: R-Value of insulation: Openings (windows or doors with glazing) U-Value of assembly: Solar heat gain coefficient: projection factor: Door R-Values:
Walls below grade (each assembly) Description of assembly: U-Value of total assembly: R-Value of insulation:
Floors over unconditioned space (each assembly) Description of assembly: U-Value of total assembly: R-Value of insulation:
Floors slab on grade Description of assembly: U-Value of total assembly: R-Value of insulation: Horizontal/vertical requirement: slab heated:

2018 APPENDIX B

BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

STRUCTURAL DESIGN

$(PROVIDE\ ON\ THE\ STRUCTURAL\ SHEETS\ IF\ APPLICABLE)$

DESIGN LOADS:

-	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
M	oof psf ezzanine psf oor psf
Ground Snow Load:	psf
	te Wind Speed mph (ASCE-7) are Category
SEISMIC DESIGN CATEGORY:	□ A □ B □ C □ D
Provide the following Seismic Design Risk Category (Table 1604.: Spectral Response Accelera	5) 🗌 I 🔠 III 🔲 IV
Site Classification (ASCE 7) Data Source	
Basic structural system	☐ Bearing Wall ☐ Dual w/Special Moment Frame ☐ Building Frame ☐ Dual w/Intermediate R/C or Special Steel ☐ Moment Frame ☐ Inverted Pendulum
Analysis Procedure:	X Simplified
Architectural, Mechanical,	Components anchored?
LATERAL DESIGN CONTROL:	Earthquake Wind Wind
	est report) psf y psf

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

MECHANICAL DESIGN (PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone				
winter dry bulb: 17.1 summer dry bulb: 89.9				
Interior design conditions				
winter dry bulb: 72 summer dry bulb: 75 relative humidity: 50 - 60%				
Building heating load: 312 MBH				
Building cooling load: 20 Tons				
Mechanical Spacing Conditioning System				
Free Special S				
Unitary description of unit: heating efficiency: cooling efficiency: size category of unit: Boiler Condensing Gas Furnace 96.5 AFUE % 14.0 SEER				
Unitary description of unit: heating efficiency: cooling efficiency: size category of unit: Condensing Gas Furnace 96.5 AFUE % 14.0 SEER				
Unitary description of unit: heating efficiency: cooling efficiency: size category of unit: Boiler Size category. If oversized, state reason.: Condensing Gas Furnace 96.5 AFUE % 14.0 SEER				

2018 APPENDIX B

BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

ELECTRICAL DESIGN (PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Energy Code X Pe ASHRAE 90.1 ☐ Pe	erformance [erformance [Prescriptive Prescriptive	
Lighting schedule (each fixture type) Refer to Lighting Fixture Schedule on Sheet E1.0			
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. allo total exterior wattage specified vs. allo	,	g or space by space)	
Additional Efficiency Package Options (When using the 2018 NCECC; not required for ASHRAE 90.1)			
☐ C406.2 More Efficient HVAC Equal X C406.3 Reduced Lighting Power I ☐ C406.4 Enhanced Digital Lighting ☐ C406.5 On-Site Renewable Energi ☐ C406.6 Dedicated Outdoor Air Sy ☐ C406.7 Reduced Energy Use in Second	Density Controls stem		