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 and Police Street or Principles of the Oct.	and the second s				
Address: 452 Proposed Use: Owner or Author Owned By:		, NC 283 Congrete P verete Pipe o City/County	Roduction Precast LLC Phon D. Private	e# <u>(804)999</u> - □ si Itarnett	
		11.12	1 11		(May) 753 1227
LEAD DESIGN F	PROFESSIONAL:	Andrew Di	chwald		(804) 752-1333
DESIGNER	FIRM		NAME	LICENSE #	TELEPHONE #
Architectural Civil	Lancrate Don	e Paret	Anla , Rul , 11		_ ()
Electrical	Concrete Pipe	le Douget	Andrew Buchwald		(<u>904) 752-1333</u> (<u>904) 752-1333</u>
Fire Alarm			THE POPULA		()
Plumbing	Concrete Pipe &	2 Precast	Andrew Buchwald		(604) 752-1333
Mechanical					
Sprinkler-Standpi		77- 1	1101-21-11		(
Structural	Concrete Pipe &	recast	Horaw Buchvald		_ (801) 752-1333
Retaining Walls > Other	-5 filgii				
BUILDING DATA Construction Typ	oe:	☐ I-B ☐ V-A	☐ II-A ☐ II-B	☐ III-A	☐ III-B
		nstruction:	□ No □ Yes Type		
Sprinklers:	☐ No ☐ Yes		PA 13 NFPA 13R	2725-222	
Standpipes:	☐ No ☐ Yes	Class I		Vet Dry	
Fire District:	☐ No ☐ Yes				
Building Height:		_ Number of Sto	ories Unlimited per		
Mezzanine:	☐ No ☐ Yes				
High Rise:		Central Referen	ace Sheet # (if provided)		
Gross Building A		`	N ()	0	
FLOOR 6 th Floor	EXISTING (SQ	FT)	NEW (SQ FT)	SUB	-TOTAL
5 th Floor					
4 th Floor					
3 rd Floor		1.30	100		
2 nd Floor			#S		
Mezzanine					
1 st Floor					
Basement					

		ALLOWA	BLE AREA			
Primary Occupancy: Assembly A-1 A-2 A-3 A-4 A-5 Business Educational Factory-Industrial F-1 F-2 High-Hazard H-1 H-2 H-3 H-4 Institutional I-1 I-2 I-3 I-4 I-3 Use Condition I 2 3 4 5 Mercantile Residential R-1 R-2 R-3 R-4 Storage S-1 S-2 High-piled Utility and Miscellaneous Parking Garage Open Enclosed Repair						
Secondary Occupancy:						(200 pm46 (45)
Special Occupancy:	A CONTRACTOR OF THE PROPERTY O	508.3		508.6		508.8
limitations for construction, Separated Mix For each story	If Mixed Occupantype of construction each of the apples of determined, slowed Occupancy (2), the area of the wided by the allowed Occupancy A	ncy (302.3.2) ion for the build licable occupan hall apply to the 302.3.3) - See l occupancy sha wable floor are + Actual	cies to the entire e entire building below for area c Il be such that the	termined by ape building. The sum of the reall not exceed	oplying the heig e most restrictive atios of the actual	ght and area we type of
STORY NO. DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 503 ⁵ AREA	(C) AREA FOR OPEN SPACE INCREASE 1	(D) AREA FOR SPRINKLER INCREASE ²	(E) ALLOWABLE AREA OR UNLIMITED ³	(F) MAXIMUM BUILDING AREA ⁴
Open space area increases from Section 506.2 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] x W/30 =(%) The sprinkler increase per Section 506.3 is as follows: a. Multi-story building I _s = 200 percent b. Single story building I _s = 300 percent 3 Unlimited area applicable under conditions of Sections Group B, F, M, S, A-4 (507.1, 507.2, 507.3, 507.5); Group A motion picture (507.8); Malls (402.6); and H-2 aircraft paint hangers (507.6). 4 Maximum Building Area = total number of stories in the building x E but not greater than 3 x E. 5 The maximum area of parking garages must comply with 406.3.5. The maximum area of air traffic control towers must comply with 412.1.2.						

ALLOWABLE HEIGHT

	ALLOWABLE (TABLE 503)	INCREASE FOR SPRINKLERS	SHOWN ON PLANS	CODE REFERENCE
Type of Construction	Type		Туре	
Building Height in Feet	Feet	Feet = H + 20' =		
Building Height in Stories	Stories	Stories + 1 =	Stories	

FIRE PROTECTION REQUIREMENTS

Life Safety Plan Sheet #, if Provided _____

BUILDING ELEMENT	FIRE		RATING	DETAIL#	DESIGN#	DESIGN# FOR	DESIGN#
	SEPARATION DISTANCE (FEET)	REQ'D	PROVIDED (W/* REDUCTION)	AND SHEET#	FOR RATED ASSEMBLY	RATED PENETRATION	FOR RATED JOINTS
Structural frame, including columns, girders, trusses							
Bearing walls							
Exterior						3 (40)	
North							
East							
West							
South							
Interior							
Nonbearing walls and partitions Exterior				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
North							
East							
West							
South							
Interior							
Floor construction Including supporting beams and joists							
Roof construction Including supporting beams and joists							
Shafts - Exit	3 3 3 3						
Shafts - Other							
Corridor Separation							
Occupancy Separation							
Party/Fire Wall Separation			*				
Smoke Barrier Separation							
Tenant Separation							

^{*} Indicate section number permitting reduction

LIFE SAFETY SYSTEM REQUIREMENTS

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

EXIT REQUIREMENTS

NUMBER AND ARRANGEMENT OF EXITS

FLOOR, ROOM OR SPACE DESIGNATION	MINIMUM ² NUMBER OF EXITS		TRAVEL DISTA	ARRANGEMENT MEANS OF EGRESS ^{1,3} (SECTION 1004.1)		
	REQUIRED	SHOWN ON PLANS	ALLOWABLE TRAVEL DISTANCE (TABLE 1004.2.4)	ACTUAL TRAVEL DISTANCE SHOWN ON PLANS	REQUIRED DISTANCE BETWEEN EXIT DOORS	ACTUAL DISTANCE SHOWN ON PLANS

Corridor dead ends (Section 1004.3.2.3)
Single exits (Table 1005.2.2)

EXIT WIDTH

USE GROUP	(a) (b)		(a) (b) (c)		EXIT WIDTH $(in)^{2,3,4,5,6}$			
OR SPACE DESCRIPTION AREA sq. ft.	sq. ft.	AREA ¹ PER OCCUPANT	EGRESS WIDTH PER OCCUPANT (TABLE 1003.2.3)		REQUIRED WIDTH (SECTION 1003.2.3) (a+b) x c		ACTUAL WIDTH SHOWN ON PLANS	
	(TABLE 1003.2.2.2)	STAIR	LEVEL	STAIR	LEVEL	STAIR	LEVEI	
	G-W							

¹ See Table 1003.2.2.2 to determine whether net or gross area is applicable.

Minimum width of exit passageway (Section 1005.3.3)

See Section 1003.2.2.7 for converging exits.

³ Common Path of Travel (Section 1004.2.5)

See definition "Area, Gross" and "Area, Net" (Section 1002)

Minimum stairway width (Section 1003.3.3); min. corridor width (Section 1004.3.2.2); min. door width (Section 1003.3.1)

⁵ The loss of one means of egress shall not reduce the available capacity to less than 50 percent of the total required (Section 1003.2.3)

⁶ Assembly occupancies (Section 1008)

STRUCTURAL DESIGN

DESIGN LOADS:			SIRU	CIUNALI	DESIGN			
Importan	ce Factors:	Snov	$v (I_s)$		-			
Live Load	ds:	Roof Mezz Floor	zanine _		psf			
Snow Loa	d:	-	psf					
Wind Loa	d:	Exposure	nd Speed Category se Shears (fo		mph (A		Vy =	
SEISMIC DESIGN Compliance with S			☐ Yes	I	☐ No			
SEISMIC DESIGN								
Provide the following Seismic U		Design Par	ameters:					
Spectral l	Response A	cceleration	1 S _{MS}	%	g S _M	1	%g	
Site Class	sification actural syst	em (check	one)					
				ual w/Spe	cial Momen	t Frame		
_	Buildi	ing Frame		oual w/Inte	rmediate R	t Frame C or Special S	Steel	
_	Mome	ent Frame	1	nverted Pe	ndulum			
Seismic b	ase shear	$V_X = $		$V_Y = $			rce	2 2 2 2
Analysis	Procedure ural Mache	nical Con	Simplif iponents and	tied horod?	Equival	ent Lateral Fo	rce	Modal
Arcintect	urai, iviecna	anicai, Con	iponents and	moreu				
LATERAL DESIG	N CONTRO	L:	Earthqu	ake	Wi	nd		
SOIL BEARING C	APACITIES	S:						
Field Test	(provide co	opy of test	report)			psf		
Presumpt	ive Bearing	g capacity				psf		
Pile size,	type, and ca	pacity		-X			_	
		PLU	JMBING FIX	KTURE RE	Q UIREME	NTS		
OCCUPANCY	WATERO	CLOSETS	URINALS	LAVA	TORIES	SHOWERS/	DRINKING	FOUNTAINS
	MALE	FEMALE		MALE	FEMALE	TUBS	REGULAR	ACCESSIBLE
		22.5						
			ACCES	SIBLE PA	RKING		<u> </u>	
LOT OR PARKING	TOTAL	# OF PARKI	ING SPACES		F OF ACCESSI	BLE SPACES PRO	OVIDED	TOTAL#
AREA	REQUIRI		PROVIDED	REC	ULAR WITH 5	VAN SPAC	ES WITH 8'	ACCESSIBLE
				A	CCESS AISLE	ACCES	S AISLE	PROVIDED

TOTAL

SPECIAL APPROVALS					
Special approval: (Local Jurisdiction, Department of Insurance, SBCCI, ICC, 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 energy cost budget method, state the annual energy cost budget vs allowable annual energy cost budget.					
THERMAL ENVELOPE					
Method of Compliance:					
Prescriptive Performance Energy Cost Budget					
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					
shading coefficient					
projection factor					
low e required, if applicable					
Door R-Values					
Walls adjacent to unconditioned space (each assembly)					
Description of assembly					
U-Value of total assembly					
R-Value of insulation Openings (windows or doors with glazing)					
U-Value of assembly					
Low e required, if applicable					
Door R-Values					
Walls below grade (each assembly)					

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

ELECTRICAL SUMV	IADV

	ELECTRICA	AL SUMMANI				
ELECTRICAL SYSTEM AND EQUIPMENT						
Method of Compliance	e:	_				
☐ Prescriptive	☐ Performance	☐ Energy Cost Budget				
Lighting schedule						
number of lan ballast type u number of ba total wattage total interior	quired in fixture mps in fixture used in the fixture allasts in fixture per fixture wattage specified vs allow wattage specified vs allow					
Equipment schedules with motors (not used for mechanical systems)						
motor horser number of pl						
minimum eff						
motor type						
# of poles						

MECHANICAL SUMMARY

CHANIC	L SYSTEMS, SERVICE SYSTEMS AND EQUI
Me	od of Compliance Prescriptive Energy Cost Budget
The	mal Zone
	winter dry bulb summer dry bulb
Inte	ior 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

heat output of unit

cooling output of unit

Boiler

total boiler output. If oversized, state reason.

Chiller

total chiller capacity. If oversized, state reason.

List equipment efficiencies

Equipment schedules with motors (mechanical systems)

motor horsepower number of phases minimum efficiency motor type # of poles