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 Address: 452 Proposed Use: _ Owner or Author Owned By: Códe Enforcement	Webb Industrized Ager	Road, hial - nt: <u>(on</u> e □ Ci	NC 283 Congrete crete Pipe ty/County	Production & Precast, L	C Phone # Private County Ho	_ [19-22] State	78
DESIGNER Architectural Civil Electrical Fire Alarm Plumbing Mechanical Sprinkler-Standp Structural Retaining Walls Other	Concretion Concretion	te Pipe le Pipe e Pipe B	l Precast	NAME ANDREW BUR ANDREW BUR ANDREW BUR ANDREW BUR ANDREW BUR	hwald hwald	LICENSE #	TE (4	Ot) 752-1333 (Ot) 752-1333 (Ot) 752-1333 (Ot) 752-1333 (Ot) 752-1333 (Ot) 752-1333
YEAR EDITION Nev BUILDING DAT Construction Ty	v Construc		_	(Existing Bldg)	☐ Upfit	☐ <i>A</i>	Alteration	ш-в
Sprinklers: Standpipes: Fire District: Building Height: Mezzanine: High Rise: Gross Building A	 No No No F No No 	☐ Yes	Class I I Number of S	FPA 13 🔲	limited per _	□ NFPA t □ Dry	13D	
FLOOR 6 th Floor 5 th Floor 4 th Floor 2 rd Floor 2 nd Floor Mezzanine 1 st Floor		TING (SQ	FT)	NEW (SQ FT))		SUB-TOT	AL
Basement								

ALLOWABLE 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 H-5 Institutional I-1 I-2 I-3 I-4 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:								
Special Occupancy:		508.3		_	_	508.8		
Mixed Occupancy:								
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 are a 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	Туре		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	REQ D	PROVIDED	AND	FOR	RATED	FOR-
1	DISTANCE		. (w/*	SHEET#	RATED	PENETRATION	RATED
	_ (FEET)	'	REDUCTION)		ASSEMBLY		JOINTS
Structural frame,							
including columns, girders,							
trusses						l	
Bearing walls							
Exterior							
North							
East							
West		_		<u> </u>			
South							
Interior							
Nonbearing walls and							
partitions			'	1			
Exterior							ļ
North							
East							
West							
South							
Interior							
Floor construction							
Including supporting beams			[
and joists			ļ				
Roof construction	·	<u> </u>					
Including supporting beams		•		,	1		
and joists		ŀ			1		
Shafts - Exit							
Shafts - Other				<u> </u>			
Corridor Separation						<u> </u>	
Occupancy Separation						1	
Party/Fire Wall Separation							
Smoke Barrier Separation				<u> </u>			
Tenant Separation			1				

^{*} 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)		
T.	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

¹ Corridor dead ends (Section 1004.3.2.3)

EXIT WIDTH

USE GROUP	(a)	(b)	(c)		EXIT WIDTH (in) ^{2,3,4,5,6}				
OR SPACE DESCRIPTION	AREA ¹ 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	LËVEL	STAIR	LEVEL	
]								
			_ - -						

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

² Single exits (Table 1005.2.2)

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)

Minimum width of exit passageway (Section 1005.3.3)
 See Section 1003.2.2.7 for converging exits.
 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:			billet			201011			
Importan	ce Factors:	Wind Snow Seism	_ <u>``</u> ;'' -						
Live Load	ls:	Roof Mezz Floor	anine			psf			
Snow Loa	d:		_psf						
Wind Loa	d:	Exposure	nd Speed Category e Shears (fo				SCE-7-98)	Vy =	
SEISMIC DESIGN Compliance with S			☐ Yes] No			
SEISMIC DESIGN	CATEGOI	RY B, C, & 1	D						
Provide the following Seismic I	ng Seismic Ise Group	Design Para	ameters:						
Spectral l Site Class Basic stro	Response A sification actural syst	em (check	one)				1 t Frame	_	
-	Build	ing Frame		Dual w	/Inter	mediate R/	t Frame C or Special	Steel	
Seismic b Analysis Architect	ase shear Procedure ural, Mech	V _X =	Simpli	V _Y = fied		Equivale	ent Lateral Fo	orce	_ Modal
LATERAL DESIG	N CONTRO	L:	Earthqu	ıake _		Wi	nd		
Field Tes Presumpt	SOIL BEARING CAPACITIES: Field Test (provide copy of test report) psf Presumptive Bearing capacity psf Pile size, type, and capacity								
	PLUMBING FIXTURE REQUIREMENTS								
OCCUPANCY		CLOSETS	URINALS	36	LAVAT	·	SHOWERS/ TUBS		NG FOUNTAINS
	MALE	FEMALE		M/	ALE	FEMALE:	ហេត្តខ	REGULAR	ACCESSIBLE
						· · · · · ·			
			<u>.</u>						<u> </u>
					_				
ACCESSIBLE PARKING									
LOT OR PARKING		# OF PARK					IBLE SPACES PR		TOTAL#
AREA	REQUIR	ED [PROVIDED	·		JLAR WITH S CESS AISLE		CES: WITH 8' SS AISLE:	ACCESSIBLE PROVIDED

NC Administration and Enforcement

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

Meth	od of Compliance:		
	☐ Prescriptive	Performance	☐ Energy Cost Budget
Roof	ceiling Assembly (e	ach assembly)	
	Description of as	ssembly	
	U-Value of total	assembly	
	R-Value of insula	ation	
	Skylights in each	ı assembly	
	U-Valu	e of skylight	
	total sq	uare footage of sky	lights 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)

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 SUMMARY							
ELECTRICAL SYSTEM AND EQUIPMENT							
pliance:							
Performance	☐ Energy Cost Budget						
ale							
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 total exterior wattage specified vs allowed							
dules with motors (not used for	r mechanical systems)						
r of phases ım efficiency type							
of the state of th	AND EQUIPMENT pliance: Performance ule ype required in fixture r of lamps in fixture type used in the fixture r of ballasts in fixture attage per fixture tterior wattage specified vs allo						

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Method of Compliance Prescriptive	☐ Energy Cost Budget
Thermal Zone winter dry bulb	
summer dry bulb	.

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.
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List equipment efficiencies

Equipment schedules with motors (mechanical systems)

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