2012 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: Hoa Van Le	
	Zip Code 28326
Address: 2664 1-104 24-87 Proposed Use: Bussians	
Owner/Authorized Agent: Ower Phone # (919)) 903 - 1237 E-Mail
	. 7
Owned By: City/County	Private
Code Enforcement Jurisdiction: City	County State
	·
LEAD DESIGN PROFESSIONAL:	
DESIGNER FIRM NAME	LICENSE# TELEPHONE# E-MAIL
Architectural	EICENSE II TELEI HONE II E-MAIE
Civil	
Electrical	
Fire Alarm	()
Plumbing	
Mechanical	
Sprinkler-StandpipeStructural	
Retaining Walls >5' High	
Other	
RENOVATED: (date) CURRENT US	☐ Repair ☐ Renovation SE(S) (Ch. 3):
DACKO DVIII DVIIC DATA	
BASIC BUILDING DATA Construction Type:	□ III-A □ IV □ V-A
(check all that apply)	☐ III-B ☐ V-B
	PA 13 NFPA 13R NFPA 13D
	☐ III ☐ Wet ☐ Dry
	Hazard Area: No Yes .
Building Height: (feet)	
Gross Building Area:	•
	(SQ FT) SUB-TOTAL
6 th Floor	
5 th Floor	
4th Floor	
3rd Floor	
2 nd Floor	
Mezzanine 1st Floor	
Basement	
TOTAL	

ALLOWABLE AREA

occupancy.
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-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 Occupancies:
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-3 Condition
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
Incidental Uses (Table 508.2.5):
☐ Furnace room where any piece of equipment is over 400,000 Btu per hour input
Rooms with boilers where the largest piece of equipment is over 15 psi and 10 horsepower
Refrigerant machine room
Hydrogen cutoff rooms, not classified as Group H
☐ Incinerator rooms
Paint shops, not classified as Group H, located in occupancies other than Group F
☐ Laboratories and vocational shops, not classified as Group H. located in a Group E or I-2 occupancy
Laundry rooms over 100 square feet
Group I-3 cells equipped with padded surfaces
Group I-2 waste and linen collection rooms
☐ Waste and linen collection rooms over 100 square feet
Stationary storage battery systems having a liquid electrolyte capacity of more than 50 gallons, or a lithium-ion capacity of 1,000 pounds used for facility standby power, emergency power or uninterrupted power
supplies
Rooms containing fire pumps
Group I-2 storage rooms over 100 square feet
Group I-2 commercial kitchens
Group I-2 laundries equal to or less than 100 square feet
Group I-2 rooms or spaces that contain fuel-fired heating equipment
Special Uses: 402 403 404 405 405 406 407 408 409 410 411 412
Special Provisions: 509.2 509.3 509.4 509.5 509.6 509.7 509.8 509.9
Mixed Occupancy: No Yes Separation: Hr. Exception:
☐ Incidental Use Separation (508.2.5)

This separation is not exempt as a Non-Separated Use (see exceptions). Non-Separated 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 ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1. Actual Area of Occupancy A Allowable Area of Occupancy B Allowable Area of Occupancy B Allowable Area of Occupancy B								
_		·	+		+	= <u> </u>	≤ 1.00	
_								
STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 503 ⁵ AREA	(C), AREA FOR FRONTAGE INCREASE!	(D) AREA FOR SPRINKLER INCREASE ²	(E) ALLOWABLE AREA OR UNLIMITED ³	(F) MAXIMUM BUILDING AREA ⁴	
N .			_		- ,	 	-	
·							<u> </u>	
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 =(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 Unlimited area applicable under conditions of Section 507. Maximum Building Area = total number of stories in the building x E (506.4). The maximum area of open parking garages must comply with Table 406.3.5. The maximum area of air traffic control towers must comply with Table 412.1.2.								
	ALLOWABLE HEIGHT							
	•	ALLOW (TABLE		INCREASE FOR SPRIN	NKLERS SHO	OWN ON PLANS	CODE REFERENCE	
Type of Cons	struction		Туре	·	Туре		-	
Building Hei	ght in Feet	T		Feet = H + 20' =			:	

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

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	" Fire		RATÍNG	DETAIL#	DESIGN#	DESIGN# FOR	DESIGN#
	SEPARATION	REQ'D	PROVIDED	AND	FOR	RATED	FOR
	DISTANCE (FEET)	. '	(W/* REDUCTION)	SHEET#	RATED	PENETRATION	RATED
Structural Frame,	(FEE1)	.		.:. = _	ASSEMBLY	<u> </u>	JOINTS:
including columns, girders,							
trusses					-		
Bearing Walls							
Exterior			-				
North '							
East							
West			•				
South	_						
Interior	•						
Nonbearing Walls and Partitions							
Exterior walls			2				
North	•						
East		·					
West	•						
South							,
Interior walls and partitions							
Floor Construction						_	
Including supporting beams							
and joists		_					
Roof Construction				·	-		
Including supporting beams							
and joists							
Shaft Enclosures - Exit	,				_		
Shaft Enclosures - Other	;						
Corridor Separation							
Occupancy Separation							
Party/Fire Wall Separation							
Smoke Barrier Separation							
Tenant Separation					_		
Incidental Use Separation				=		4	
* Indicate section number per	mitting reduction	n					

	LIFE SAFETY SYSTEM REQUIREMENTS
Emergency Lighting: Exit Signs: Fire Alarm: Smoke Detection Systems: Panic Hardware:	□ No □ Yes
	LIFE SAFETY PLAN REQUIREMENTS
Life Safety Plan Sheet #:	·
Fire and/or smoke rated v Assumed and real property	, and the second

Bo Oo Oo Oo Oo Oo Oo Oo	ccupancy ccupant le kit access ommon pead end le lear exit versit accurate occurate occuration of occation of the square the square	types bads for travel ath of engths widths calcul upant scheme door door door foota foota	es within for each a for each a l distance travel dis for each ated occu- load for e natic plan pancy se s with pa- s with de s equippe rgency es ge of each ge of each	30' o area rea rea s (10 stance) exit o apant each e indicoaratinic had ayed ectroned with cape th fire th smooth	f the propas it related to the propas it related to the propagation of	acity e ere fire 1008. ecks a egress oen de (1029) artme	building occupant load occupan	or can accomm r/ceiling and/o nt of delay (10 3.1.9.8)	(Table 1004.1.	n egi	
					ACCES		LE DWELL	ING UNITS			
TOTAL	Access	IBLE:	Access	BLE	Туре		Түре А	ТүреВ	ТуреВ		TOTAL
Units	Unit Requi		Unit Provid		Unit Requii		Units Provided	Units Required	Units Provided		ACCESSIBLE UNITS PROVIDED
					<u> </u>						-
-			1		AC		SIBLE PA				,
LOT OR I	PARKING		AL# OF PA			n r c	10	CESSIBLE SPACES PROVIDED VAN SPACES WITH			TOTAL# ACCESSIBLE
AREA		REC	QUIRED	· YPK	OVIDED .	l	ULAR WITH ACCESS	132" ACCESS		S.	PROVIDED
ţ							AISLE	AISLE	AISLE		<u> </u>
							_		_		
TOTAL						ļ		<u> </u>			
DESIG	N LOAD:	S:			ST	TRUC	CTURAL D	ESIGN	-	•	<u> </u>
	Importa	nce F	'actors:	Sı	ind (Indexision) inow (Indexision)	s) _					
Live Loads: Roof psf Mezzanine psf Floor psf							,				
	Ground	Snow	v Load:	_		psf					

	Wind Load:		Basic Wind							
	Exposure Category Wind Base Shears (for				MWFRS)	Vx =	:	Vy=		
					,			,		
SEISMI	C DESIGN (CATEGO	RY:	·	A]в 🗆 с	с □р			
Provide	the following					- — 1 — -				
	Occupancy O Spectral Res				∐ I]II 🔲 II Sl	II ∐IV %g			
	Site Classific	ation (Ta	ble 1613.5.	.2) 🔲 A	В	□c [D DE	\square F		
	Basic structu		ta Source:		d Test	Presum	ptive His	torical Data		
	□I	Bearing W	all	Dual v	w/Special I	Moment Fra	me			
		Building F	rame	Dual y	w/Intermed	liate R/C or	Special Steel	•		
	Seismic base			Invert	ed Penduli V _Y =	ım				
	Analysis Pro	cedure:		Simplified	☐ Eq	uivalent La		Dynam	ic	
	Architectura	l, Mecha	nical, Com	ponents an	ichored? [Yes	No No			
LATER	AL DESIGN	CONTR	OL:	Earthqual	ke 🗌	Wind']			
	EARING CA									
	Field Test (pr Presumptive	ovide cop	y of test re	port)		ps:	f			
	Presumptive Pile size, type	Bearing c	apacity acity			psi			•	
			_	_						
SPECIA	L INSPECT	IONS RE	QUIRED:	l	Yes _] No				
				117						
			PLUMI			QUIREME	ENTS	•		
				· (TAI	BLE 2902.	1)				
	USE	WATER	CLOSETS	URINALS	LAVA	TORIES	SHOWERS/	DRINKING	FOUNTAINS	
<u> </u>		MALE	FEM ALE_		MALE	FEMALE	TUBS	REGULAR	Accessible	
SPACE	EXISTING NEW		_							
	REQUIRED									
	• •				·	' "	<u> </u>	1 :		
•••			·,							
				SPECIA	L APPRO	VALS	•			
Special:	approval: (Lo	cal Jurisd	iction Den	nartment of	Insurance	OSC DPI	DHHS ICC	etc describe	helow)	
Special .	-PP-V-IIII (2)				, , , , , , , , , , , , , , , , , , ,	050, 211,	D11110, 100,	0.0., 0.001100	001011)	
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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.

Climate Zone: 3 4 5	
Method of Compliance:	· .
Prescriptive (Energy Code)	
Performance (Energy Code)	
Prescriptive (ASHRAE 90.1)	
Performance (ASHRAE 90.1)	
THERMAL ENVELOPE	
Roof/ceiling Assembly (each assembly)	•
Description of assembly: U-Value of total assembly:	<u> </u>
R-Value of insulation: Skylights in each assembly: U-Value of skylight:	
total square footage of skylights in each assembly:	<u> </u>
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:	<u>'</u>
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:	

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone	FIRC MUSICUL
winter dry bulb:	2 10/0/1
summer dry bulb:	Banks Wall
Y	000 003.75
Interior design conditions	410.00
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.:	<u> </u>
Chiller	
Size category. If oversized, state reason.:	
List equipment efficiencies: .	
ELECTRICAL SUMM	IARY
ELECTRICAL SYSTEM AND EQUIPMENT	
Matha A. Colombana	
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	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	
506.2.2 Reduced Lighting Power Density 506.2.3 Energy Recovery Ventilation Systems	
506.2.4 Higher Efficiency Service Water Heat	
506.2.5 On-Site Supply of Renewable Energy	- -
506.2.6 Automatic Daylighting Control System	ns
_ ,, ,	