### APPENDIX C

### SEISMIC SCREENING FORM

### SEISMIC SCREENING INVENTORY FORM

2020 Labieux - Public Works Purchasing and Stores Bldg. City of Nanaimo. Bldg No. B25

## Comments:

- Load bearing reinforced masonry walls typical exterior walls to main bldg.
- 3. light wood frame additions to main building
  - 900 Dp wood trusses @ 600 mm % Dear on exterior walls complete with Tie down clips:
    - 2 Interior, wood, full height, partition walls (drywall finish)

							n 1 of 2	ITEM No.:	000		
SEISMIC SCREENING FORM							p. 1 of 2	<u> </u>	<u> 825  </u>		
Address: 20	Labreux Rd	Postal Code: Y9T6J9 m² Year Built: 1985				Bldg. Name: Purchasing Design NBC: 1980					
No. of storeys	: 17	2 Total Floor Area: 575		1	ar Built:				, -		
Primary use (s	see l			19·C,		Hemage	Designatio				
Inspector:	G	K Date: Ap	ril/	13/	2012		Checked	uy.			
Se	oe.	attached				See	atta	ched			
TYPE OF STRUCTU	URE (	circle appropriate descriptors) see 4.3.2	S	ketch BUI	LDING IRF			opriate descriptors			
Wood W	LF PB	Wood Light Frame Wood, Post and Beam	90	1. Vert	tical gularity	(e.g. setba	ack or buildin				
Steel SE	LF CW	Steel Moment Frame Steel Braced Frame Steel Light Frame Steel Frame with Concrete Shear Walls Steel Frame with Infill Masonry	90	2. Horizontal Irregularity (Torsion) 3. Short Concrete Columns		eccentric one side of Short coluwalls (stru	gular building shapes such as "L", "V", "E", "T", entric stiffness in plan (e.g. shear wall on only side of building)  rt columns restrained by partial storey height s (structural or infill) or deep spandrels				
CS CI PC	MF SW IW CF CW	Shear Walls  Concrete Moment Frame Concrete Shear Walls Concrete Frame with Infill Masonry Shear Walls Precast Concrete Frame Precast Concrete Walls	85	4. Soft Storey  5. Pounding  6. Major  Modifications		discontinu Separatio 20 Z <sub>v</sub> x no	Severe reduction of stiffness caused by discontinuous shear walls, openings, etc.  Separation between buildings less than 20 Z <sub>v</sub> x no. of storeys (in mm)  Any change in function, use or addition which results in significant increase in loading or weight				
Masonry RI	MC RM	Reinforced Masonry Bearing Walls with Wood or Metal Deck Floors or Roofs Reinforced Masonry Bearing Walls with Concrete Diaphragms Unreinforced Masonry Bearing Wall Building	90	7. Deterioration  8. None		building is steel, rott None of t	s apparent (o ed wood, po	re damaged, poo corroded reinforce or concrete or ma ties listed above i	ement or asonry)		

F<sub>1</sub> Falling Hazards to Life:

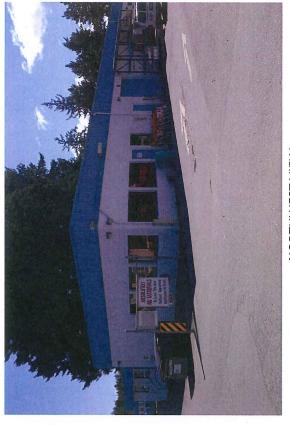
Exterior: Masonry chimneys, parapets, veneer or stone / precast panels, non-safety glass, or canopies over exits and walkways
Interior: Heavy components; masonry partitions; non-safety glass in egress areas storage shelves which may collapse onto areas of human occupancy

F<sub>2</sub> Hazards to Continuous Operation of Special Buildings: Equipment or Ilielines required for continuous operation of special facilities. The owner or authority should provide a list of critical items needed for continuing operations.

	SEISMIC S						***************************************				p. 2	7		√ No.: F	1
	SEISMIC PRIO	RITY INDEX:	Circle appi	ropriate								risk (	(*) with	uncertair	values
		Design			Ef		Seisn	nic Zone	_	rZv+	$1 \text{ if } Z_a > Z_v)$	-			
		NBC	2			3			4)		5		6	; 	4.10
A	Seismicity	Pre - 65	1.0	1.5			2.0			3.0		4.0		A=1.3	
		65 - 84 Post - 85	1.0			1.0		1.3			1.5 1.0		2.0 1.0		
$\dashv$		FUST - 00	1.0   1.0					Soil Category							
	-	Design NBC							Unk	nown					
В	Soil Conditions		Rock or Stiff Soil	500 DECEMBER 100			> 15 m		l	Liquefiable Soil		Soil		B = /	
	Conditions	Pre - 65 Post - 65	1.0 1.0		1.3			1.5 1.0			2.0 1.5		1.5 1.5		
				Construction Type and Symbol (see p. 1)											
		Design NBC	Wood	Steel Co		Co	ncrete Prec		cast	ast Masonry Infill		Masonry			
С	Type of	N.BO	WLF WPB	SLF SI	MF SB	F SCW	CMF	csw	PCF	PCW	SIW, CIW	RM	L, RMC	URM	C = /-5
	Structure	Pre - 70	1.2 2.0	1.0 1	.2 1.	5 2.0 5 1.5	2.5	2.0	2.5	2.0	3.0		2.5 1.5	3.5	]
	(BM = Benchmark year, see p.1)	70 - BM Post - BM	11.2   2.0	1.0   1 1.0   1	.211.	5 1.5 0 1.0	1.5 1.0	1.5	1.8	1.5 1.0	2.0	1	1.5	3,5	a
_			1.0 1.0	1		3. Sho			T		C Modifi	7 1	Dete-	0.11	D = product
	Building	Design NBC	1. Vertical	2. Ho		Concre Columr		4 .Soft Storey		5. nding	6. Modifi-		ation	8. None	of circled
D	D Irregularities	Pre - 70	1.3	1.5		1.5		2.0	1	.3	1.3		1.3	1.0	Numbers (Max of 4.0) =
		Post - 70	1.3 1.		. 1			1.5		.3	1.0	1.3		1.0	1
		Design	Low Occup	nancy	Normal			Scho	ool, or	F	ost Disaster,	Disaster, or		ecial	
	Building Importance	uilding NBC		0	Occupancy N = 10 - 30		00	High Occupancy N = 301 - 3000		cy   V 10	Very High Occup. N > 3000		Operational Requirements		E= 1
				.7 1.0			1.5			2.0		3	.0		
Е		Post - 70	0.7 (1.0)					1.2			1.5 2.0				
L	N = Occupied	Area x Occup					*= .	. 5.7.5	X .	i i i i	./x3			28.8	
	Primary Use:		- 00	ccupano Perso	ns / m <sup>2</sup>	Sity	A	verage W of Human	Occup	ancy	*				ual to the s of human
	Assembly Mercantile, Pe	rsonal service			1				- 50 - 80			OCC	aye we upancy	divided b	y 100, not
	Offices, Institu Residential	tional, Manufa	ecturing	0.	.1 05			1	- 60 00			grea	ter tha	n 1.0	
	Storage			0.01	- 0.02	******		1	00			00000000	60000 T		
S	STRUCT	URALIN	DEX =	A٠B	·C	D.								SI = /	.95
	NON - STRUC	TURAL HA	ZARDS	De	scripti	on (se	e p. 1				None	Yes		Yes *	F = max (F <sub>1</sub> , F <sub>2</sub>
F	F <sub>1</sub> Falling Haz	ards to Life	storage shell				luce	Pre - 70 NBC Post - 70 NBC			1.0	3.0		6.0 3.0	
1		Vital Operati							(1.0)	3.0		6.0	= 2		
	* applies only if o	ne or more of	the following	descri	ptors c	n page	1 are	circled: S	MF, CN	IF, sof	t storey, torsio	n			
N	NON - S	FRUCTU	RALIND	EX :	в	· E • I							<u> </u>	NSI =	2
SI	SEISMIC	PRIORIT	ry inde	X =	SI +	NSI							5	SPI =	3.95
Comments: /ow Priority															
Comments: Low Priority															
-															
											112			MARKETON	

SEISMIC SCREENING INVENTORY FORM Attach asterisks (*) to uncertain values								
Address and/or Name of Building	Structural Index	NSI Non- Structural Index	SPI Seismic Priority Index	Priority for Evaluation	Comments			
	·							
					' .			
			N <sub>es</sub>					
					N			
			-					
	Address and/or Name of Building	Address and/or Name of Building  SI Structural Index	Address and/or Name of Building SI Structural Index Non-structural Index	Address and/or Name of Building SI Structural Index Structural Index Structural Index Sismic Priority Index Index Index Structural Index Sismic Priority Index Ind	Address and/or Name of Building SI Structural Index Struc			

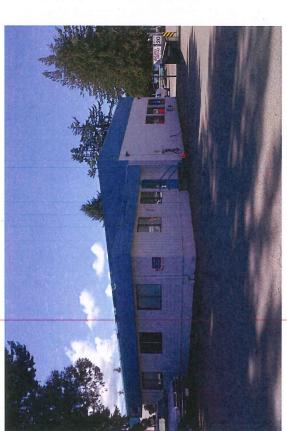
From: Manual for Screening of Existing Buildings for Seismic Investigation, IRC / NRC, Canada, Ottawa, September 1992



**NORTHWEST VIEW** 



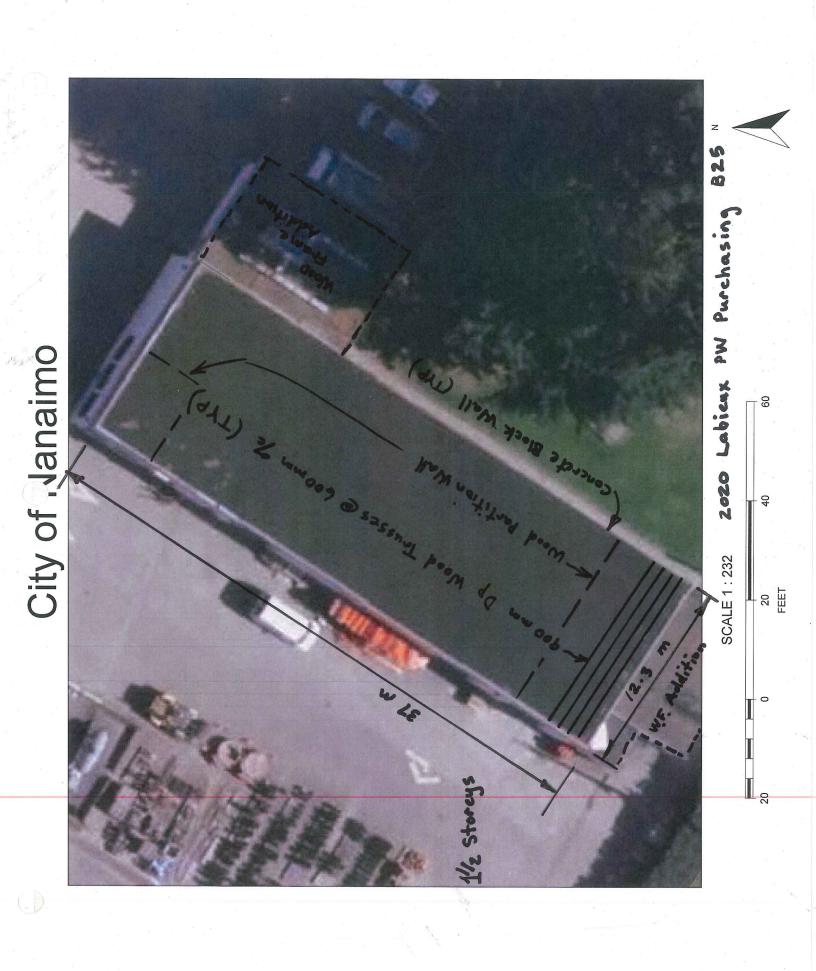
SOUTHWEST VIEW



NORTHEAST VIEW



SOUTHEAST VIEW



# APPENDIX "G" BUILDING COST ANALYSIS CITY OF NANAIMO PURCHASING & STORES BUILDING 2020 LABIEUX ROAD



APPRAISAL BUILDING #: GROSS FLOOR AREA:

**ELEVATORS:** 

**ADDITIONAL CONSTRUCTION:** 

B25 6,186 FT<sup>2</sup>

CLASS: C & D

EFFECTIVE DATE: YEAR(S) BUILT:

FEBRUARY 8, 2008 CIRCA 1985

BELOW GRADE ASSETS		CRN	CRNLD					
EXCAVATION, BACKFILL AND SITE PI	REPARATION:	17,000	11,400					
FOUNDATIONS:		23,900	16,000					
ARCHITECTURAL OR ENGINEERING	3,400	2,300						
TOTAL BELOW GRADE ASSETS:	A CONTRACTOR OF THE CONTRACTOR	44,300	29,700					
ABOVE GRADE ASSETS		T						
BUILDING FRAMING:		15,300	10,200					
FLOOR STRUCTURE:	20 (22)	42,700	28,700					
INTERIOR CONSTRUCTION, MEZZA	NINES, STAIRS:	53,000	35,600					
FLOOR AND CEILING FINISHES:		13,600	9,100					
PLUMBING SYSTEM, FIXTURES, AND	SEWERAGE:	17,000	11,400					
HEATING, VENTILATION AND AIR CO		10,200	6,900					
ELECTRICAL AND LIGHTING:		27,300	18,300					
EXTERIOR WALL CONSTRUCTION, BA	ALCONIES:	210,200	140,900					
ROOF STRUCTURE, ROOF COVERING	G, AND CANOPIES:	80,200	53,800					
FIRE PROTECTION:	A 4	-	14					
ELEVATORS:								
ADDITIONAL CONSTRUCTION:			19					
ARCHITECTURAL OR ENGINEERING	FEES:	32,500	21,800					
TOTAL ABOVE GRADE ASSETS:		502,000	336,700					
TOTAL BELOW AND ABOVE GRA	DE ASSETS:	546,300	366,400					
BUILDING CODES & BYLAWS		2 .						
PARKING SPACES	MEETS CODE							
SPECIAL NEEDS ACCESS	MEETS CODE		- :-					
FIRE PROTECTION	MEETS CODE	-						
TOTAL BUILDING CODES & BYLAY	WS:	-						
TOTAL VARR MARROWELLES		07.000	07.000					
TOTAL YARD IMPROVEMENTS:	*	27,300	27,300					
TOTAL CRN COST:		573,600	393,700					
FOUNDATIONS:	REINFORCED CONCRETE FOUNDATIONS							
FRAMING:	LOAD BEARING MASONRY & WD FRAME WALLS	S, PART STEEL						
FLOOR STRUCTURE:	REINFORCED CONCRETE SLAB ON GRADE							
INTERIOR CONSTRUCTION:	FRME & DRYWALL PARTITIONS, CARPET, HARDENER & SEALER							
PLUMBING SYSTEM:	STANDARD FIXTURES & TYPICAL SERVICE FOR OCCUPANCY							
H.V.A.C.:	ELECTRIC BASEBOARD WITH PART AIR CONDITIONING							
ELECTRICAL AND LIGHTING:	STANDARD FIXTURES & TYPICAL SERVICE FOR OCCUPANCY							
EXTERIOR WALLS:	PAINTED CONC. BLOCK, WOOD & VINYL SIDE O	ALCOHOL STATE OF THE STATE OF T						
ROOF:	WOOD JOIST & WOOD DECK WITH BUILT-UP RO							
FIRE PROTECTION:								
FIRE PROTECTION:  NO SPRINKLER SYSTEM - STANDARD FIRE DETECTION IN ELECTRICAL								

NIL

NIL