

**Initial Evaluation Procedure (IEP) Assessment - Completed for Hutt City Council**

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Street Number & Name:	<b>2 Myrtle Street</b>	Job No.:	<b>5-C3957.00</b>
AKA:		By:	<b>GSF</b>
Name of building:	<b>Gibbes Watson Conservatory</b>	Date:	<b>10/12/2019</b>
City:	<b>Hutt Central City</b>	Revision No.:	<b>0</b>

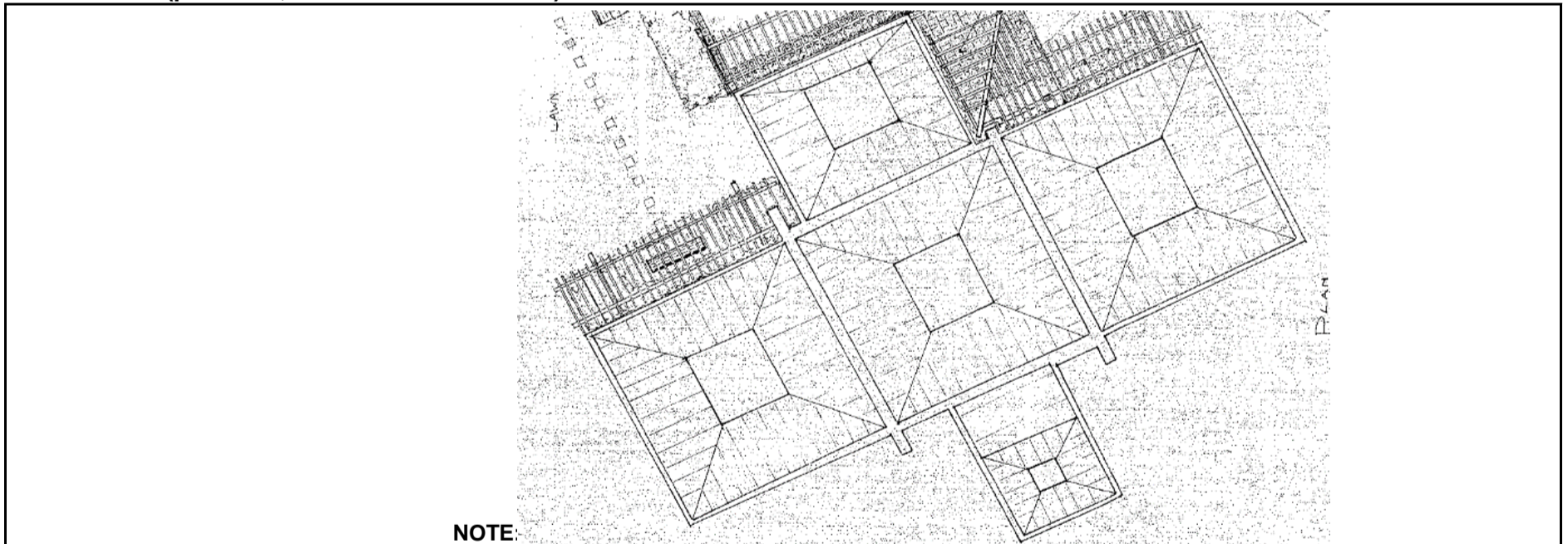
**Table IEP-1 Initial Evaluation Procedure Step 1**

**Step 1 - General Information**

**1.1 Photos (attach sufficient to describe building)**



**1.2 Sketches (plans etc, show items of interest)**



**1.3 List relevant features (Note: only 10 lines of text will print in this box. If further text required use Page 1a)**

Structure: Steel frames with cross braced walls and braced roof frames.  
 Foundations: Front - concrete slab on grade  
 Roof: Steel frames with glass panel cladding  
 Subsoil: D soft or deep soils - NZS1170.5:2004 Site Subsoil Classification of Lower Hutt  
 Construction Date: 1967 - minor works 1993

**1.4 Note information sources**

Tick as appropriate

Visual Inspection of Exterior    
 Visual Inspection of Interior    
 Drawings (note type)

Specifications    
 Geotechnical Reports    
 Other (list)

Information Reviewed: 1967 Specifications and calculations, 1993 plan drawings

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**Table IEP-2 Initial Evaluation Procedure Step 2**

**Step 2 - Determination of (%NBS)<sub>b</sub>**

(Baseline (%NBS) for particular building - refer Section B5 )

**2.1 Determine nominal (%NBS) = (%NBS)<sub>nom</sub>**

**a) Building Strengthening Data**

Tick if building is known to have been strengthened in this direction

If strengthened, enter percentage of code the building has been strengthened to

Longitudinal

Transverse



N/A

N/A

**b) Year of Design/Strengthening, Building Type and Seismic Zone**

- Pre 1935
- 1935-1965
- 1965-1976
- 1976-1984
- 1984-1992
- 1992-2004
- 2004-2011
- Post Aug 2011

- Pre 1935
- 1935-1965
- 1965-1976
- 1976-1984
- 1984-1992
- 1992-2004
- 2004-2011
- Post Aug 2011

Building Type: Others

Building Type: Others

Seismic Zone: Zone A

Seismic Zone: Zone A

**c) Soil Type**

From NZS1170.5:2004, CI 3.1.3 :

D Soft Soil

D Soft Soil

From NZS4203:1992, CI 4.6.2.2 :  
(for 1992 to 2004 and only if known)

Not applicable

Not applicable

**d) Estimate Period, T**

Comment:

h<sub>n</sub> = 6  
A<sub>c</sub> = 1.00

6 m  
1.00 m<sup>2</sup>

- Moment Resisting Concrete Frames:  $T = \max(0.09h_n^{0.75}, 0.4)$
- Moment Resisting Steel Frames:  $T = \max(0.14h_n^{0.75}, 0.4)$
- Eccentrically Braced Steel Frames:  $T = \max(0.08h_n^{0.75}, 0.4)$
- All Other Frame Structures:  $T = \max(0.06h_n^{0.75}, 0.4)$
- Concrete Shear Walls:  $T = \max(0.09h_n^{0.75}/A_c^{0.5}, 0.4)$
- Masonry Shear Walls:  $T \leq 0.4\text{sec}$
- User Defined (input Period):

Where h<sub>n</sub> = height in metres from the base of the structure to the uppermost seismic weight or mass.

T: 0.54

0.54

**e) Factor A:** Strengthening factor determined using result from (a) above (set to 1.0 if not strengthened)

Factor A: 1.00

1.00

**f) Factor B:** Determined from NZSEE Guidelines Figure 3A.1 using results (a) to (e) above

Factor B: 0.06

0.06

**g) Factor C:** For reinforced concrete buildings designed between 1976-84 Factor C = 1.2, otherwise take as 1.0.

Factor C: 1.00

1.00

**h) Factor D:** For buildings designed prior to 1935 Factor D = 0.8 except for Wellington and Napier (1931-1935) where Factor D may be taken as 1.0, otherwise take as 1.0.

Factor D: 1.00

1.00

(%NBS)<sub>nom</sub> = AxBxCxD

(%NBS)<sub>nom</sub> 6%

6%

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**Table IEP-2 Initial Evaluation Procedure Step 2 continued**

**2.2 Near Fault Scaling Factor, Factor E**

If  $T \leq 1.5\text{sec}$ , Factor E = 1

a) Near Fault Factor,  $N(T,D)$

(from NZS1170.5:2004, Cl 3.1.6)

Longitudinal

N(T,D):

Transverse

b) Factor E

=  $1/N(T,D)$

Factor E:

**2.3 Hazard Scaling Factor, Factor F**

a) Hazard Factor, Z, for site

Location:  Refer right for user-defined locations

Z =  (from NZS1170.5:2004, Table 3.3)

Z<sub>1992</sub> =  (NZS4203:1992 Zone Factor from accompanying Figure 3.5(b))

Z<sub>2004</sub> =  (from NZS1170.5:2004, Table 3.3)

b) Factor F

For pre 1992

=  $1/Z$

For 1992-2011

=  $Z_{1992}/Z$

For post 2011

=  $Z_{2004}/Z$

Factor F:

**2.4 Return Period Scaling Factor, Factor G**

a) Design Importance Level, I

(Set to 1 if not known. For buildings designed prior to 1965 and known to be designed as a public building set to 1.25. For buildings designed 1965-1976 and known to be designed as a public building set to 1.33 for Zone A or 1.2 for Zone B. For 1976-1984 set I value.)

I =

b) Design Risk Factor, R<sub>o</sub>

(set to 1.0 if other than 1976-2004, or not known)

R<sub>o</sub> =

c) Return Period Factor, R

(from NZS1170.0:2004 Building Importance Level)

Choose Importance Level

1  2  3  4

1  2  3  4

R =

d) Factor G

=  $IR_o/R$

Factor G:

**2.5 Ductility Scaling Factor, Factor H**

a) Available Displacement Ductility Within Existing Structure

Comment:

Steel braced frames

$\mu$  =

b) Factor H

For pre 1976 (maximum of 2)  
For 1976 onwards

=  $k_\mu$   
= 1.38  
= 1

$k_\mu$   
1.38  
1

Factor H:

(where  $k_\mu$  is NZS1170.5:2004 Inelastic Spectrum Scaling Factor, from accompanying Table 3.3)

**2.6 Structural Performance Scaling Factor, Factor I**

a) Structural Performance Factor, S<sub>p</sub>

(from accompanying Figure 3.4)

Tick if light timber-framed construction in this direction

S<sub>p</sub> =

b) Structural Performance Scaling Factor

=  $1/S_p$

Factor I:

Note Factor B values for 1992 to 2004 have been multiplied by 0.67 to account for S<sub>p</sub> in this period

**2.7 Baseline %NBS for Building, (%NBS)<sub>b</sub>**

(equals (%NBS)<sub>nom</sub> x E x F x G x H x I )

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**Table IEP-3 Initial Evaluation Procedure Step 3**

**Step 3 - Assessment of Performance Achievement Ratio (PAR)**

(Refer Appendix B - Section B3.2)

**a) Longitudinal Direction**

potential CSWs	Effect on Structural Performance (Choose a value - Do not interpolate)	Factors
<b>3.1 Plan Irregularity</b> Effect on Structural Performance <input type="radio"/> Severe <input type="radio"/> Significant <input checked="" type="radio"/> Insignificant Comment: No impact on performance		Factor A 1.0
<b>3.2 Vertical Irregularity</b> Effect on Structural Performance <input type="radio"/> Severe <input type="radio"/> Significant <input checked="" type="radio"/> Insignificant Comment: Nil		Factor B 1.0
<b>3.3 Short Columns</b> Effect on Structural Performance <input type="radio"/> Severe <input type="radio"/> Significant <input checked="" type="radio"/> Insignificant Comment: Nil		Factor C 1.0
<b>3.4 Pounding Potential</b> (Estimate D1 and D2 and set D = the lower of the two, or 1.0 if no potential for pounding, or consequences are considered to be minimal)		

**a) Factor D1: - Pounding Effect**

**Note:**  
 Values given assume the building has a frame structure. For stiff buildings (eg shear walls), the effect of pounding may be reduced by taking the coefficient to the right of the value applicable to frame buildings.

**Factor D1 For Longitudinal Direction:** 1.0

Table for Selection of Factor D1	Severe 0<Sep<.005H	Significant .005<Sep<.01H	Insignificant Sep>.01H
Alignment of Floors within 20% of Storey Height	<input type="radio"/> 1	<input type="radio"/> 1	<input checked="" type="radio"/> 1
Alignment of Floors not within 20% of Storey Height	<input type="radio"/> 0.4	<input type="radio"/> 0.7	<input type="radio"/> 0.8

Comment: Nil

**b) Factor D2: - Height Difference Effect**

**Factor D2 For Longitudinal Direction:** 1.0

Table for Selection of Factor D2	Severe 0<Sep<.005H	Significant .005<Sep<.01H	Insignificant Sep>.01H
Height Difference > 4 Storeys	<input type="radio"/> 0.4	<input type="radio"/> 0.7	<input checked="" type="radio"/> 1
Height Difference 2 to 4 Storeys	<input type="radio"/> 0.7	<input type="radio"/> 0.9	<input type="radio"/> 1
Height Difference < 2 Storeys	<input type="radio"/> 1	<input type="radio"/> 1	<input type="radio"/> 1

Comment: Nil

**Factor D** 1.0

**3.5 Site Characteristics - Stability, landslide threat, liquefaction etc as it affects the structural performance from a life-safety perspective**

Effect on Structural Performance <input type="radio"/> Severe <input type="radio"/> Significant <input checked="" type="radio"/> Insignificant	Factor E	1.0
--	----------	-----

Comment: Potential for liquifaction, insignificant on performance

**3.6 Other Factors - for allowance of all other relevant characteristics of the building**

For ≤ 3 storeys - Maximum value 2.5  
 otherwise - Maximum value 1.5.  
 No minimum.

**Factor F** 2.0

**Record rationale for choice of Factor F:**

Comment: Braced steel frames. Cross bracing at wall level and braced roof frames.

**3.7 Performance Achievement Ratio (PAR)**

(equals A x B x C x D x E x F)

**PAR**  
**Longitudinal** 2.00

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**Table IEP-3 Initial Evaluation Procedure Step 3**

**Step 3 - Assessment of Performance Achievement Ratio (PAR)**

(Refer Appendix B - Section B3.2)

**b) Transverse Direction**

potential CSWs	Effect on Structural Performance (Choose a value - Do not interpolate)	Factors
<b>3.1 Plan Irregularity</b> Effect on Structural Performance <input type="radio"/> Severe <input type="radio"/> Significant <input checked="" type="radio"/> Insignificant Comment: Nil		<b>Factor A</b> 1.0
<b>3.2 Vertical Irregularity</b> Effect on Structural Performance <input type="radio"/> Severe <input type="radio"/> Significant <input checked="" type="radio"/> Insignificant Comment: Nil		<b>Factor B</b> 1.0
<b>3.3 Short Columns</b> Effect on Structural Performance <input type="radio"/> Severe <input type="radio"/> Significant <input checked="" type="radio"/> Insignificant Comment: Nil		<b>Factor C</b> 1.0
<b>3.4 Pounding Potential</b> (Estimate D1 and D2 and set D = the lower of the two, or 1.0 if no potential for pounding, or consequences are considered to be minimal)		

**a) Factor D1: - Pounding Effect**

**Note:**  
 Values given assume the building has a frame structure. For stiff buildings (eg shear walls), the effect of pounding may be reduced by taking the coefficient to the right of the value applicable to frame buildings.

**Factor D1 For Transverse Direction:** 1.0

Table for Selection of Factor D1	Severe	Significant	Insignificant
Separation	0<Sep<.005H	.005<Sep<.01H	Sep>.01H
Alignment of Floors within 20% of Storey Height	<input type="radio"/> 1	<input type="radio"/> 1	<input checked="" type="radio"/> 1
Alignment of Floors not within 20% of Storey Height	<input type="radio"/> 0.4	<input type="radio"/> 0.7	<input type="radio"/> 0.8

Comment: Nil

**b) Factor D2: - Height Difference Effect**

**Factor D2 For Transverse Direction:** 1.0

Table for Selection of Factor D2	Severe	Significant	Insignificant
	0<Sep<.005H	.005<Sep<.01H	Sep>.01H
Height Difference > 4 Storeys	<input type="radio"/> 0.4	<input type="radio"/> 0.7	<input checked="" type="radio"/> 1
Height Difference 2 to 4 Storeys	<input type="radio"/> 0.7	<input type="radio"/> 0.9	<input type="radio"/> 1
Height Difference < 2 Storeys	<input type="radio"/> 1	<input type="radio"/> 1	<input type="radio"/> 1

Comment: Nil

**Factor D** 1.0

**3.5 Site Characteristics - Stability, landslide threat, liquefaction etc as it affects the structural performance from a life-safety perspective**

Effect on Structural Performance <input type="radio"/> Severe <input type="radio"/> Significant <input checked="" type="radio"/> Insignificant	<b>Factor E</b> 1.0
Comment: Potential for liquifaction, insignificant on performance	

**3.6 Other Factors - for allowance of all other relevant characteristics of the building**

For ≤ 3 storeys - Maximum value 2.5  
 otherwise - Maximum value 1.5.  
 No minimum.

**Factor F** 2.00

**Record rationale for choice of Factor F:**  
 Comment: Braced steel frames. Cross bracing at wall level and braced roof frames.

**3.7 Performance Achievement Ratio (PAR)**  
 (equals A x B x C x D x E x F)

**PAR**  
**Transverse** 2.00

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**Table IEP-4 Initial Evaluation Procedure Steps 4, 5, 6 and 7**

**Step 4 - Percentage of New Building Standard (%NBS)**

	Longitudinal	Transverse
4.1 Assessed Baseline %NBS (%NBS) <sub>b</sub> (from Table IEP - 1)	25%	25%
4.2 Performance Achievement Ratio (PAR) (from Table IEP - 2)	2.00	2.00
4.3 PAR x Baseline (%NBS) <sub>b</sub>	50%	50%
4.4 Percentage New Building Standard (%NBS) - Seismic Rating (Use lower of two values from Step 4.3)		50%

**Step 5 - Is %NBS < 34?**

NO

**Step 6 - Potentially Earthquake Risk (is %NBS < 67)?**

YES

**Step 7 - Provisional Grading for Seismic Risk based on IEP**

Seismic Grade **C**

**Additional Comments (items of note affecting IEP based seismic rating)**

Comment: None

**Relationship between Grade and %NBS:**

Grade:	A+	A	B	C	D	E
%NBS:	> 100	100 to 80	79 to 67	66 to 34	< 34 to 20	< 20

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**Table IEP-5 Initial Evaluation Procedure Step 8**

**Step 8 - Identification of potential Severe Structural Weaknesses (SSWs) that could result in significant risk to a significant number of occupants**

- 8.1 Number of storeys above ground level 1
- 8.2 Presence of heavy concrete floors and/or concrete roof? (Y/N) N

**Potential Severe Structural Weaknesses (SSWs):**

Note: Options that are greyed out are not applicable and need not be considered.

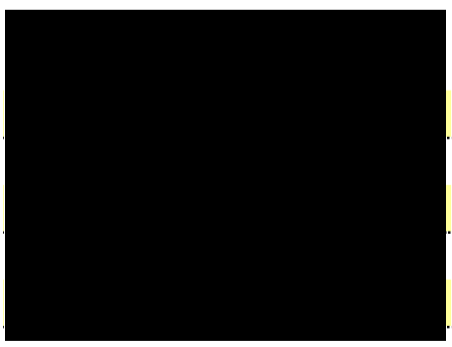
**Occupancy not considered to be significant - no further consideration required**

**Risk not considered to be significant - no further consideration required**

The following potential Severe Structural Weaknesses (SSWs) have been identified in the building that could result in significant risk to a significant number of occupants:

1. None identified
2. Weak or soft storey (except top storey)
3. Brittle columns and/or beam-column joints the deformations of which are not constrained by other structural elements
4. Flat slab buildings with lateral capacity reliant on low ductility slab-to-column connections
5. No identifiable connection between primary structure and diaphragms
6. Ledge and gap stairs

**IEP Assessment Confirmed by**



**Signature**

**Name**

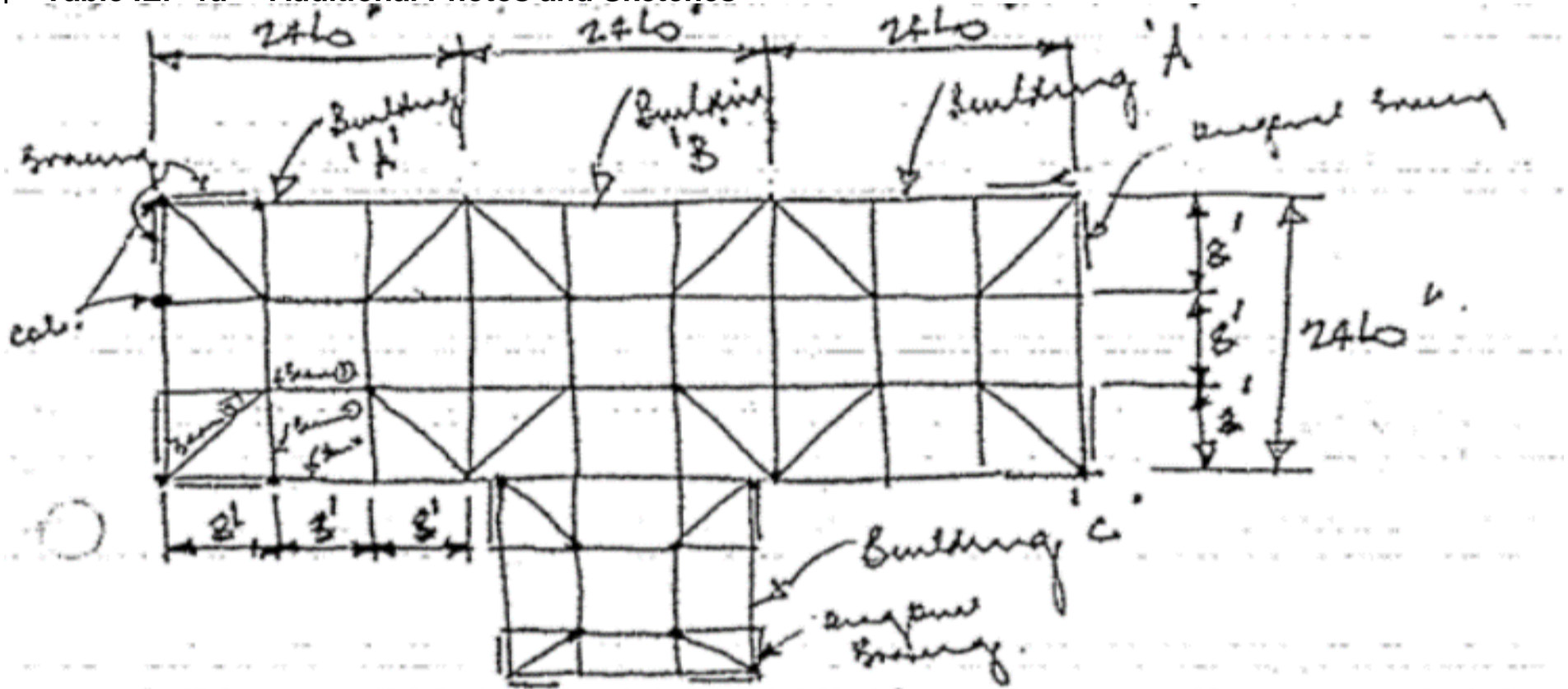
**CPEng. No**

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**Table IEP-1a Additional Photos and Sketches**



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<b>1. Building Information</b>	
Building Name/ Description	Gibbes Watson Conservatory
Street Address	2 Myrtle Street, Central Hutt City
Territorial Authority	Hutt City Council
No. of Storeys	1
Area of Typical Floor (approx.)	250 sqm
Year of Design (approx.)	1967
NZ Standards designed to	NZSS 1900, Chapter 8: 1965
Structural System including Foundations	<b>Structure:</b> Steel framed structure with cross braced frames and glass cladding panels <b>Foundations:</b> Concrete slab on grade. <b>Roof:</b> Steel frame with glass panels
Does the building comprise a shared structural form or shares structural elements with any other adjacent titles?	No
Key features of ground profile and identified geohazards	Flat even ground profile, subsoil D with potential for liquefaction.
Previous strengthening and/ or significant alteration	Minor alterations with little impact on performance of the building
Heritage Issues/ Status	Nil
Other Relevant Information	None

2. Assessment Information	
Consulting Practice	WSP New Zealand Ltd
CPEng Responsible, including: <ul style="list-style-type: none"> <li>Name</li> <li>CPEng number</li> <li>A statement of suitable skills and experience in the seismic assessment of existing buildings<sup>1</sup></li> </ul>	<p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p>
Documentation reviewed, including: <ul style="list-style-type: none"> <li>date/ version of drawings/ calculations<sup>2</sup></li> <li>previous seismic assessments</li> </ul>	<p>1967 calculations and specifications by Structon Group</p> <p>1993 minor addition of pergola to the exterior – drawings and details</p>
Geotechnical Report(s)	NA – assumed based on local knowledge refer to section 3
Date(s) Building Inspected and extent of inspection	6 December 2019
Description of any structural testing undertaken and results summary	None
Previous Assessment Reports	NA
Other Relevant Information	Nil

<sup>1</sup> This should include reference to the engineer's Practice Field being in Structural Engineering, and commentary on experience in seismic assessment and recent relevant training

<sup>2</sup> Or justification of assumptions if no drawings were able to be obtained

<b>3. Summary of Engineering Assessment Methodology and Key Parameters Used</b>	
Occupancy Type(s) and Importance Level	Importance Level 2
Site Subsoil Class	D assumed based on local knowledge and <i>NZS1170.5:2004 Site Subsoil Classification of Lower Hutt</i> <a href="http://nzsee.org.nz/db/2011/013.pdf">http://nzsee.org.nz/db/2011/013.pdf</a>
<b>For an ISA:</b>	
Summary of how Part B was applied, including: <ul style="list-style-type: none"> <li>• Key parameters such as <math>\mu</math>, <math>S_p</math> and F factors</li> <li>• Any supplementary specific calculations</li> </ul>	Ductility – 1.50 Steel cross-braced frames Sp Factor – 0.85 F Factor – 2.0 both directions, Braced steel frames. Cross bracing at wall level and braced roof frames.
<b>For a DSA:</b>	
Summary of how Part C was applied, including: <ul style="list-style-type: none"> <li>• the analysis methodology(s) used from C2</li> <li>• other sections of Part C applied</li> </ul>	NA
Other Relevant Information	NA

<b>4. Assessment Outcomes</b>		
Assessment Status (Draft or Final)	Final	
Assessed %NBS Rating	50%NBS IL2	
Seismic Grade and Relative Risk (from Table A3.1)	C - 5 – 10 times greater	
<b>For an ISA:</b>		
Describe the Potential Critical Structural Weaknesses	None identified	
Does the result reflect the building's expected behaviour, or is more information/ analysis required?	Yes – the ISA is sufficient	
If the results of this ISA are being used for earthquake prone decision purposes, <u>and</u> elements rating <34%NBS have been identified:	<b>Engineering Statement of Structural Weaknesses and Location</b>  NA	<b>Mode of Failure and Physical Consequence Statement(s)</b>  NA
<b>For a DSA:</b>		
Comment on the nature of Secondary Structural and Non-structural elements/ parts identified and assessed		
Describe the Governing Critical Structural Weakness		
If the results of this DSA are being used for earthquake prone decision purposes, <u>and</u> elements rating <34%NBS have been identified (including Parts) <sup>3</sup> :	<b>Engineering Statement of Structural Weaknesses and Location</b>	<b>Mode of Failure and Physical Consequence Statement(s)</b>
Recommendations (optional for EPB purposes)		

<sup>3</sup> If a building comprises a shared structural form or shares structural elements with other adjacent titles, information about the extent to which the low scoring elements affect, or do not affect the structure.