### Initial Evaluation Procedure (IEP) Assessment

Page 1

WARNING!! This initial evaluation has been carried out solely as an initial seismic assessment of the building following the procedure set out in the New Zealand Society for Earthquake Engineering document "Assessment and Improvement of the Structural Performance of Buildings in Earthquakes, June 2006". This spreadsheet must be read in conjunction with the limitations set out in the accompanying report, and should not be relied on by any party for any other purpose. Detailed inspections and engineering calculations, or engineering judgements based on them, have not been undertaken, and these may lead to a different result orseismic grade.

Street Number & Name:	55 Coote Road	Job No.:	2-63649.00
AKA:	Napier Prison	Ву:	[ s 9(2)(a) ]
Name of building:	Building 1 - Tenants Dwelling	Date:	7/06/2016
City:	Napier	Revision No.:	0

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

#### Step 1 - General Information

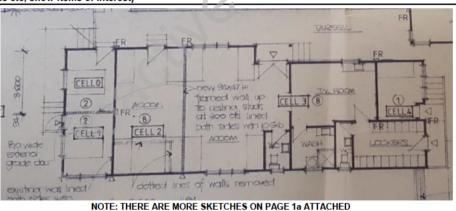
1.1 Photos (attach sufficient to describe building)





NOTE: THERE ARE MORE PHOTOS ON PAGE 1a ATTACHED

#### 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)

Built: 1802
Use: Former recreation hall. Now used as the tenants dwelling area.
Structural bracing system: Timber framed walls in the longitudinal and transverse direction.
Roof: Iron sheet roof on timber purlins.
Foundation system: Assumed to be concrete piles that support suspended timber floors.
Structure is assumed to be internally lined and externally lined with timber heard cladding

Note information sources	Tick as appropriate		
Visual Inspection of Exterior Visual Inspection of Interior Drawings (note type)	<b>V</b>	Specifications Geotechnical Reports Other (list)	
n layouts from local council archiv	res		

Street Number & I AKA:		55 Coote Road Napier Prison		Job No.: By:	[ s 9(2)(a) ]	
Name of building	:	Building 1 - Tenants Dwelling		Date:	7/06/2016	
City:		Napier		Revision	No.: 0	
Table IEP-2	Initial Evalu	ation Procedure Step 2				
Step 2 - Determi	•					
		g - refer Section B5 )		1	_	
2.1 Determine nor	minai (%NBS) =	(%NBS) <sub>nom</sub>	<u>Longitudinal</u>	.	<u>Transverse</u>	
a) Building Strer	ngthening Data					
Tick if building	g is known to have	been strengthened in this direction				
If strengthene	ed, enter percentag	e of code the building has been strengthe	ned to N/A		N/A	
_						
h) Voer of Dosign	/Strongthoning F	Building Type and Sciemic Zone				
Djiear Or Design	r sa engalening, t	Building Type and Seismic Zone	Pre 1935 ⊙		Pre 1935 <b>⊙</b>	
			1935-1965 🔘		1935-1965 🔘	
			1965-1976 🔘		1965-1976 🔘	
			1976-1984 🔘		1976-1984 🔘	
			1984-1992		1984-1992 🔘	
			1992-2004 🔘		1992-2004 🔘	
			2004-2011		2004-2011	
			Post Aug 2011		Post Aug 2011 O	
			1 55t7 tag 2517 E		10517109 2011 6	
		Building Ty	Public Buildings		Public Buildings	•
		building Ty	pe.	=		_
		Seismic Zo	ne:	▼		
c) Soil Type				_	D 0-8 0-ii	
Fre	om NZ\$1170.5:20	04, CI 3.1.3 :	D Soft Soil	-	D Soft Soil	_
	om NZS4203:1992 or 1992 to 2004 an		Flexible	-	Flexible	v
d) Estimate Peri		. 0	)			
Comment:	ou, r		h <sub>n</sub> = 4		4 m	
Comment.						
			A <sub>c</sub> = 1.00	l	1.00 m <sup>2</sup>	
Managet Dagie	tine Community Fran	nes: $T = \max\{0.09h_n^{0.75}, 0.4\}$	. 0		_	
	sting Concrete Fran sting Steel Frames:	$T = \max\{0.09n_n^{-1}, 0.4\}$ $T = \max\{0.14h_n^{-0.75}, 0.4\}$	ŏ	-	00	
	Braced Steel Frame		_		ŏ	
All Other Fram		$T = \max\{0.08h_n^{0.75}, 0.4\}$	õ		õ	
Concrete Shea		$T = \max\{0.09h_n^{0.75}/A_c^{0.5}\}$	.0.4}	-	õ	
Masonry Shea	r Walls:	<i>T</i> ≤ 0.4sec	0		00	
User Defined	(input Period):		0		0	
	Where $h_n = heightarrow heig$	tht in metres from the base of the structure to the		. 1		
	uppermost seisr	nic weight or mass.	T: 0.40	l l	0.40	
	_					
a) Easter A: -	leanthache &	aminad union month from (2) about 1 1 1 2	Engler A	.	4.00	
	trengthening factor dete not strengthened)	rmined using result from (a) above (set to 1.0	Factor A: 1.00	•	1.00	
	etermined from NZSEE sults (a) to (e) above	Guidelines Figure 3A.1 using	Factor B: 0.03		0.03	
g) Factor C: Fo		uildings designed between 1976-84 Factor	Factor C: 1.00		1.00	
		is 1.u.	Factor D: 0.80	.	0.80	
w		aken as 1, otherwise take as 1.0.	1 actor D. 0.00	<b>'</b>	0.00	
				.		
(%NBS) nom = A	xBxCxD		(%NBS) <sub>nom</sub> 2%	l I	2%	

Initial Evaluation Procedure (IEP) Assessment Page 3					
Street Number & Name:	55 Coote Road	Job No.			
AKA:	Napier Prison	By:	[ s 9(2)(a) ]		
Name of building:	Building 1 - Tenants Dwelling	Date:	7/06/2016		
City:	Napier	Revision	n No.: 0		
Table IEP-2 Initial Eva	luation Procedure Step 2 cont	inued			
2.2 Near Fault Scaling Factor, F	actor E				
If <i>T</i> ≤ 1.5sec, Factor E = 1		<u>Longitudinal</u>	<u>Transverse</u>		
a) Near Fault Factor, N(T,D)		N(T,D): 1	1		
(from NZS1170.5:2004, CI 3.1.6) b) Factor E	= 1/N(T,D)	Factor E: 1.00	1.00		
2, - 2222 2	(.,_/		1.32		
2.3 Hazard Scaling Factor, Fact a) Hazard Factor, Z, for site	or F				
Location	. Napier   ▼				
Z	= 0.38 (from NZS1170.5:2004, Ta	able 3.3)			
Z <sub>1992</sub>		tor from accompanying Figure 3.5(b))			
Z <sub>2004</sub>	= 0.38 (from NZS1170.5:2004, Ta	able 3.3)	P.		
b) Factor F For pre 1992	= 1/Z				
For 1992-2011	= Z <sub>1992</sub> /Z				
For post 2011	$= Z_{2004}/Z$	5	2.02		
		Factor F: 2.63	2.63		
0 4 B - 4 B i - 4 B ii B 4	<b>-</b>				
2.4 Return Period Scaling Factor a) Design Importance Level, I	or, Factor G				
(Set to 1 if not known. For buildings des public building set to 1.25. For buildings	signed prior to 1985 and known to be designed as a s designed 1985-1976 and known to be designed as a	1= 1.25	1.25		
	1.2 for Zone B. For 1976-1984 set I value.)				
b) Design Risk Factor, R <sub>o</sub> (set to 1.0 if other than 1976-2004, or	not known)	<u> </u>			
	.(/)	$R_0 = 1$	1		
c) Return Period Factor, R	*.		2 12 2 12		
(from NZS1170.0:2004 Building Impor	tance Level) Choose Importance I	<u>Level</u> ○1	01 @2 03 04		
		R = 1.0	1.0		
d) Factor G	= IR <sub>d</sub> /R				
		Factor G: 1.25	1.25		
2.5 Ductility Scaling Factor, Fac a) Available Displacement Ductil					
Comment:	my Widin Existing Structure	$\mu = 2.00$	2.00		
Timber framed structure in both	h longitudinal and transverse direction.				
b) Factor H	For pre 1976 (maximum of 2)	k <sub>μ</sub> = 1.57	k <sub>μ</sub> 1.57		
	For 1976 onwards	= 1.37	1.57		
		Factor H: 1.57	1.57		
(where kµ is N251170.5.2004 inelastic	c Spectrum Scaling Factor, from accompanying Table 3.3	5)			
2.6 Structural Performance Sca	_				
<ul> <li>a) Structural Performance Facto         (from accompanying Figure 3.4)     </li> </ul>		_	_		
Tick if light timber-framed constr	ruction in this direction	$S_p = \boxed{0.50}$	0.50		
		Op - 0.50	0.30		
b) Structural Performance Scalin	ng Factor = $1/S_p$	Factor I: 2.00	2.00		
Note Factor B values for 1992 to 2004	4 have been multiplied by 0.87 to account for Sp in this p	eriod			
2.7 Baseline %NBS for Building	g, (%NBS) <sub>b</sub>	24%	24%		
(equals (%NBS) <sub>nom</sub> x E x F x	GxHxI)	Z4/0	2470		

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treet Number & Name:	55 Coote Road				ob No.:	2-63649.00 c 0(2)(a) 1
(A:	Napier Prison Building 1 - Ten	ante Dwelling			By: Date:	s 9(2)(a) ]
ame of building: ty:	Napier	ants Dwening			Revision No.:	0
	valuation Procedu	re Step 3		·		
ep 3 - Assessment of Pe						
efer Appendix B - Section B3.2)	)					
Longitudinal Direction potential CSWs		Effect on Structu	ural Performs	nce		Facto
Plan Irregularity		(Choose a value - I				1 4010
Effect on Structural Perform	ance C Severe	⊜ SĄ	ignificant		⊙ Insignificant	Factor A 1.0
Vertical Irregularity     Effect on Structural Perform     None	nance C Severe	C SA	ignificant		⊙ Insignificant	Factor B 1.0
3 Short Columns	C Smm	0.81	gnificant		() Insignificant	Factor C 10
Effect on Structural Perform  None	ance C Severe	C 34	gm n.com			Factor C 1.0
Pounding Potential						
(Estimate D1 and D2 and s  a) Factor D1: - Pounding Efform  Note: Values given assume the			20			
Table for Selection	on of Factor D1 Alignment of Floors within	Separation	Severe 0 <sep<.005h< th=""><th>Significant .005<sep<.01h< th=""><th>Insignificant</th><th></th></sep<.01h<></th></sep<.005h<>	Significant .005 <sep<.01h< th=""><th>Insignificant</th><th></th></sep<.01h<>	Insignificant	
Alig	gnment of Floors not within	20% of Storey Height	0.4	0.7	0.8	
None						
b) Factor D2: - Heigl	ht Difference Effect					
Table for Selection	on of Factor D2	Facto	Severe	ngitudinal Dir Significant	ection: 1.0 Insignificant	
Table for Selection			0 <sep<.005h< td=""><td>.005<sep<.01h< td=""><td>Sep&gt;.01H</td><td></td></sep<.01h<></td></sep<.005h<>	.005 <sep<.01h< td=""><td>Sep&gt;.01H</td><td></td></sep<.01h<>	Sep>.01H	
					0.1	
	_	fference > 4 Storeys ference 2 to 4 Storeys	0.4	0.09	01 01	
None	Height Diff			_	_	
None	Height Diff	Ference 2 to 4 Storeys	0.7	<b>0</b> 9	<b>0</b> 1	Factor D 1.0
	Height Diff Height D	ference 2 to 4 Storeys Difference < 2 Storeys	01	0 a 9 0 1	○1 ⊙1	
Site Characteristics - Sta	Height Diff Height	ference 2 to 4 Storeys Difference < 2 Storeys	01	0 a 9 0 1	○1 ⊙1	
Site Characteristics - Sta	Height Diff Height	ference 2 to 4 Storeys Difference < 2 Storeys	ar	0 a 9 0 1	□ 1 □ 1 m a life-safety persp	pective
Site Characteristics - Sta  Effect on Structural Perform  None  Other Factors - for allowar	Height Diff Height E ability, landslide threat, lique mance Sewere	ference 2 to 4 Storeys Difference < 2 Storeys  efaction etc as it affects	0.7 0.1 the structural p	oerformance from	☐ 1	pective
Site Characteristics - Sta  Effect on Structural Perform  None  Other Factors - for allowal  Record rationale for ch	Height Diff Height E ability, landslide threat, lique mance Sewere	ference 2 to 4 Storeys Difference < 2 Storeys	the structural p	oerformance from	☐ 1 ☐ 1 ☐ 1 m a life-safety persp ☐ Insignificant eximum value 2.5	pective  Factor E 1.0
Effect on Structural Perform None  Other Factors - for allowal Record rationale for ch	Height Diff Height I  ability, landslide threat, lique mance Sewere  nce of all other relevant cha	ference 2 to 4 Storeys Difference < 2 Storeys	the structural p	oerformance from	☐ 1	pective  Factor E 1.0

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reet Number & Name:	55 Coote Road			lob No.:	2-63649.00 c 0/2)/a) 1
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me of building: y:	Building 1 - Tenants Napier	s Dwelling		Date: Revision No.:	7/06/2016
	/aluation Procedure	Step 3		CEVISION NO	Ü
ep 3 - Assessment of Per fer Appendix B - Section B3.2)	formance Achievement	Ratio (PAR)			
Transverse Direction					
potential CSWs		Effect on Structural Perf (Choose a value - Do not int			Fact
Plan Irregularity		(onecos a raido Donecimo	or polato,		
Effect on Structural Performa	ance C Severe	☐ Significant		⊙ Insignificant	Factor A 1.0
Vertical Irregularity	onco O Severe	☐ Significant		() Insignificant	-
Effect on Structural Performa None	ance C Severe	C Significan		C Disignation	Factor B 1.0
Short Columns					
Effect on Structural Performa	ance Severe	Significant		<ul> <li>Insignificant</li> </ul>	Factor C 1.0
None					
					-
(Estimate D1 and D2 and se	et D = the lower of the two, o	r 1.0 if no potential for pound	ling, or conseque	ences are conside	red to be minimal)
. F . D4 D !! Eff					
Note: Values given assume the	building has a frame structu	ure. For stiff buildings (eg she		ect of pounding	]
Note: Values given assume the	building has a frame struct g the coefficient to the right	of the value applicable to fran Factor D1 For Severe	Transverse Dir	rection: 1.0	
Note: Values given assume the may be reduced by taking	building has a frame struct g the coefficient to the right	Factor D1 For Severe Separation 0 <sep<.005< td=""><td>ne buildings. Transverse Dir</td><td>rection: 1.0</td><td></td></sep<.005<>	ne buildings. Transverse Dir	rection: 1.0	
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Note: Values given assume the may be reduced by taking	building has a frame struct g the coefficient to the right n of Factor D1	Factor D1 For Severe Separation 0 <sep<.005 1<="" height="" of="" storey="" td=""><td>Transverse Dir Significant H .005<sep<.01h< td=""><td>rection: 1.0 Insignificant Sep&gt;.01H</td><td></td></sep<.01h<></td></sep<.005>	Transverse Dir Significant H .005 <sep<.01h< td=""><td>rection: 1.0 Insignificant Sep&gt;.01H</td><td></td></sep<.01h<>	rection: 1.0 Insignificant Sep>.01H	
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Note: Values given assume the may be reduced by taking  Table for Selection  Align  None  b) Factor D2: - Height	building has a frame structing the coefficient to the right of Factor D1  Alignment of Floors within 20% of Floors not within 20% of Floors not within 20% of Factor D2	Factor D1 For Separation 0 <sep<.005 0.4="" 0<sep<.005<="" d2="" factor="" for="" height="" of="" severe="" storey="" td=""><td>Transverse Dir Significant H .005<sep<.01h .005<sep<.01h<="" 0="" 0.7="" dir="" h="" significant="" td="" transverse=""><td>rection: 1.0 Insignificant Sep&gt;.01H  1 0.8  rection: 1.0 Insignificant Sep&gt;.01H</td><td></td></sep<.01h></td></sep<.005>	Transverse Dir Significant H .005 <sep<.01h .005<sep<.01h<="" 0="" 0.7="" dir="" h="" significant="" td="" transverse=""><td>rection: 1.0 Insignificant Sep&gt;.01H  1 0.8  rection: 1.0 Insignificant Sep&gt;.01H</td><td></td></sep<.01h>	rection: 1.0 Insignificant Sep>.01H  1 0.8  rection: 1.0 Insignificant Sep>.01H	
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Note: Values given assume the may be reduced by taking  Table for Selection  Align  None  b) Factor D2: - Height  Table for Selection	building has a frame structing the coefficient to the right of Factor D1  Alignment of Floors within 20% of Factor D2  Height Different Height Different Height Different Height Different Height Different Height Different	Factor D1 For Separation 0 <sep<.005 0.4="" 0.7="" 0.7<="" 0<sep<.005="" d2="" factor="" for="" height="" o="" of="" osep<.005="" severe="" storey="" td=""><td>Transverse Dir Significant H .005<sep<.01h .005<sep="" 0.7="" dir="" h="" significant="" transverse="">.01H 0.7  1 0.7  1 0.7  1 0.9 0.9 0.1</sep<.01h></td><td>Insignificant Sep&gt;.01H</td><td> Factor D 1.0</td></sep<.005>	Transverse Dir Significant H .005 <sep<.01h .005<sep="" 0.7="" dir="" h="" significant="" transverse="">.01H 0.7  1 0.7  1 0.7  1 0.9 0.9 0.1</sep<.01h>	Insignificant Sep>.01H	 Factor D 1.0
Note: Values given assume the may be reduced by taking  Table for Selection  Align  None  b) Factor D2: - Height  Table for Selection	building has a frame structing the coefficient to the right of Factor D1  Alignment of Floors within 20% of Factor D2  Height Different Height Different Height Different Height Different Height Different Height Different	Factor D1 For Severe Separation OSep<.005 of Storey Height O4  Factor D2 For Severe OSep<.005 OSep<.005 O4  Factor D2 For Severe OSep<.005 Once > 4 Storeys Oce 2 to 4 Storeys Oce 2 to 4 Storeys	Transverse Dir Significant H .005 <sep<.01h .005<sep="" 0.7="" dir="" h="" significant="" transverse="">.01H 0.7  1 0.7  1 0.7  1 0.9 0.9 0.1</sep<.01h>	Insignificant Sep>.01H	 Factor D 1.0
Note: Values given assume the may be reduced by taking  Table for Selection  Align  None  b) Factor D2: - Height  Table for Selection	building has a frame structs g the coefficient to the right n of Factor D1  Alignment of Floors within 20% nment of Floors not within 20% t Difference Effect Height Differen Height Differen Height Differen Height Differen	Factor D1 For Separation 0 <sep<.005 0.4="" 0.7="" 0.7<="" 0<sep<.005="" d2="" factor="" for="" height="" o="" of="" osep<.005="" severe="" storey="" td=""><td>Transverse Dir Significant H .005<sep<.01h .005<sep="" 0.7="" dir="" h="" significant="" transverse="">.01H 0.7  1 0.7  1 0.7  1 0.9 0.9 0.1</sep<.01h></td><td>Insignificant Sep&gt;.01H</td><td>Factor D 1.0</td></sep<.005>	Transverse Dir Significant H .005 <sep<.01h .005<sep="" 0.7="" dir="" h="" significant="" transverse="">.01H 0.7  1 0.7  1 0.7  1 0.9 0.9 0.1</sep<.01h>	Insignificant Sep>.01H	Factor D 1.0
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Initial Evalua	ation Procedu	re (IEP) Ass	essment					Page 6
Street Number of AKA: Name of buildir City:		55 Coote Ro Napier Priso Building 1 - Napier	n	lling		By: Date	No.: e: ision No.:	2-63649.00 [ s 9(2)(a) ] 7/06/2016 0
Table IEP-4	Initial Evalu	ation Proce	edure Steps	s 4, 5, 6 an	d 7			
Step 4 - Perce	ntage of New Bu		_			jitudinal		Transverse
	Baseline <i>%NBS(</i> ble IEP - 1)	%NBS) <sub>b</sub>				24%		24%
	nce Achievement I ble IEP - 2)	Ratio (PAR)				2.00		2.00
4.3 PAR x Bas	seline (%NBS) <sub>b</sub>					45%		45%
	ge New Building So wer of two values fron		s)					45%
Step 5 - Poten	tially Earthquake	Prone? (Mark as approp	riate)			%	NBS <u>&lt;</u> 34	NO
Step 6 - Poten	tially Earthquake	Risk? (Mark as approp	riate)			<b>%</b>	NBS < 67	YES
Step 7 - Provis	sional Grading fo	or Seismic Ris	sk based on I	EP	6,	Seisr	nic Grade	С
Additional	Comments (items of	f note affecting	IEP score)					
				10				
			s 9(2)(a	) ]				
	Evaluation	Confirmed		, 1	Sig	ınature		
		"O			Na	me		
	Q			1003026	СР	Eng. No		
Relation	nship between	Grade and	%NBS:					
	Grade:	A+	Α	В	С	D	E	7
	%NBS:	> 100	100 to 80	79 to 67	66 to 34	33 to 20	< 20	

ililida Evaluation Froced	dure (IEP) Assessment		Page 7
treet Number & Name:	55 Coote Road	Job No.:	2-63649.00 [ s 9(2)(a) ]
NKA: lame of building:	Napier Prison Building 1 - Tenants Dwelling	By: Date:	7/06/2016
ity:	Napier	Revision No.:	0
	ential Severe Critical Structural Weaknesses that significant number of occupants	could result in	1
	ete floors and/or concrete roof? (Y/N)		N
	ered to be significant - no further consideration re be significant - no further consideration required		

# Initial Evaluation Procedure (IEP) Assessment

Page 1a

Street Number & Name:	55 Coote Road	Job No.:	2-63649.00
AKA:	Napier Prison	Ву:	s 9(2)(a) ]
Name of building:	Building 1 - Tenants Dwelling	Date:	7/06/2016
City:	Napier	Revision No.:	0

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

Add any additional photographs, notes or sketches required below:









