# 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:	[\$ 9(2)(a) ]
Name of building:	Building 5 - Dining Hall and TV room	Date:	7/06/2016
City:	Napier	Revision No.:	0

## Table IEP-1 Initial Evaluation Procedure Step 1

### Step 1 - General Information

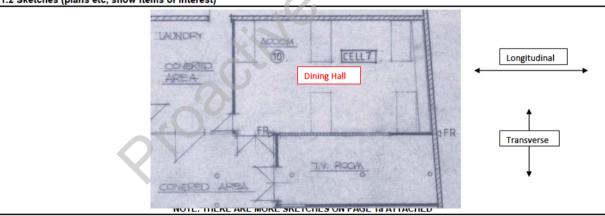
1.1 Photos (attach sufficient to describe building)





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: 1862

Use: Dining Hall and TV Room.

Structural bracing system: Timber framed structure in the longitudinal and transverse direction.

Roof: Iron sheet roof on timber purlins.

Foundation system: Assumed to be concrete slab on grade.

From the 2003 plans, it appears that the wall diving the Dining hall and TV room used to have a glazed joinery sliding door and has been framed up and lined with Gib board.

1.4 Note information sources	Tick as appropriate		
Visual Inspection of Exterior	<b>4</b>	Specifications	
Visual Inspection of Interior Drawings (note type)	✓	Geotechnical Reports Other (list)	

Plan layouts from local council archives.

c) Soil Type From  Goment:  Moment Resistin Moment Resistin Moment Resistin Masseline (%NBS) for p.2.1 Determine nomin a) Building Strengt Tick if building is If strengthened,  b) Year of Design/S  c) Soil Type From From (for 1)  d) Estimate Period, Comment:	particular building - refer Section B5 ) inal (%NBS) = (%NBS) <sub>nom</sub> thening Data is known to have been strengthened in this direction , enter percentage of code the building has been stre  Strengthening, Building Type and Seismic Zone  Buildi Seism	<u>Longitudinal</u>	Pre 1935 (1935-1965) (1976-1984) (1984-1992)	© ○ ○ ○ ○ ○ ○ ○
city:  Table IEP-2 I  Step 2 - Determina Baseline (%NBS) for p 2.1 Determine nomin  a) Building Strengt Tick if building is If strengthened, b) Year of Design/S  c) Soil Type From From (for 1  d) Estimate Period, Comment:  Moment Resistin Moment Resistin	Napier  Initial Evaluation Procedure Step 2  ation of (%NBS) b particular building - refer Section B5 ) inal (%NBS) = (%NBS) nom  thening Data is known to have been strengthened in this direction , enter percentage of code the building has been stre  Strengthening, Building Type and Seismic Zone  Building Seism	Longitudinal  Pre 1935   1935-1965   1935-1976   1976-1984   1984-1992   1992-2004   2004-2011   Post Aug 2011   ing Type: Public Buildings	Transvers  N/A  Pre 1935 ( 1935-1965 ( 1965-1976 ( 1976-1984 ( 1984-1992 ( 1992-2004 ( 2004-2011 ( Post Aug 2011 (	@0000000
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c) Soil Type From From (for 1  d) Estimate Period, Comment:  Moment Resistin Moment Resistin	s known to have been strengthened in this direction, enter percentage of code the building has been strengthening, Building Type and Seismic Zone  Building Type and Seismic Zone	Pre 1935	Pre 1935 (1935-1965) (1935-1965) (1965-1976) (1976-1984) (1984-1992) (1992-2004) (2004-2011) (1984-201	0000000
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c) Soil Type From From (for 1  d) Estimate Period, Comment:  Moment Resistin Moment Resistin	Strengthening, Building Type and Seismic Zone Buildi Seism	Pre 1935	Pre 1935 ( 1935-1965 ( 1965-1976 ( 1976-1984 ( 1984-1992 ( 1992-2004 ( 2004-2011 ( Post Aug 2011 (	0000000
c) Soil Type From From (for 1  d) Estimate Period, Comment:  Moment Resistin Moment Resistin	Buildi Seism	1935-1965	1935-1965 ( 1965-1976 ( 1976-1984 ( 1984-1992 ( 1992-2004 ( 2004-2011 ( Post Aug 2011 (	0000000
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d) Estimate Period, Comment:  Moment Resistin Moment Resistin	n NZ\$1170.5:2004, CI 3.1.3 :	) B con con		_
Comment:  Moment Resistin Moment Resistin	n NZS4203:1992, CI 4.6.2.2 : 1992 to 2004 and only if known)	Flexible	Flexible	-
Comment:  Moment Resistin Moment Resistin	1.7	<b>/</b> )		
Moment Resistin		h <sub>n</sub> = 3.6	3.6	m
Moment Resistin		A <sub>c</sub> = 1.00	1.00	m²
Moment Resistin	ng Concrete Frames: $T = \max\{0.09h_n^{0.1}\}$	75, 0.4}	0	
			ŏ	
LCCellulcally Dia	aced Steel Frames: $T = \max\{0.08h_n^{0.1}\}$	_	ŏ	
All Other Frame	Structures: $T = \max\{0.08h_n^{0.3}\}$	75 . 0.4}	•	
Concrete Shear \		<sup>75</sup> / A <sub>c</sub> <sup>0.5</sup> , 0.4}	00	
Masonry Shear V		00	00	
User Defined (inp	put Period): Where $h_n = height in metres from the base of the structure to$		0	
	uppermost seismic weight or mass.	T: 0.40	0.40	
	ngthening factor determined using result from (a) above (set to 1.0 t strengthened)	Factor A: 1.00	1.00	
	ermined from NZSEE Guidelines Figure 3A.1 using Its (a) to (e) above	Factor B: 0.03	0.03	
	reinforced concrete buildings designed between 1978-84 Factor 1.2, otherwise take as 1.0.	Factor C: 1.00	1.00	
	buildings designed prior to 1935 Factor D = $0.8$ except for Welling re Factor D may be taken as 1, otherwise take as 1.0.	ton Factor D: 0.80	0.80	
			,	_
(%NBS) <sub>nom</sub> = AxB	BXCXD	(%NBS) <sub>nom</sub> 2%	2%	

Initial Evaluation Procedure (IEP) Assessment Page 3						
Street Number & Name:	55 Coote Road	Job N				
AKA:	Napier Prison	By:	[ s 9(2)(a) ]			
Name of building:	Building 5 - Dining Hall and TV re	Date:	7/06/2016			
City:	Napier	Revisi	on No.: 0			
Table IEP-2 Initial Eva	luation Procedure Step 2 cont	tinued				
2.2 Near Fault Scaling Factor, F	actor E					
If <i>T</i> <u>&lt;</u> 1.5sec, Factor E = 1		<u>Longitudinal</u>	<u>Transverse</u>			
<ul> <li>a) Near Fault Factor, N(T,D)</li> <li>(from NZS1170.5:2004, Cl 3.1.8)</li> </ul>		N(T,D): 1	1			
b) Factor E	= 1/N(T,D)	Factor E: 1.00	1.00			
2.3 Hazard Scaling Factor, Factor a) Hazard Factor, Z, for site	or F					
Location:	Napier					
Z	= 0.38 (from NZS1170.5:2004, T	able 3.3)				
Z <sub>1992</sub> :		ctor from accompanying Figure 3.5(b))				
Z <sub>2004</sub> : b) Factor F	= 0.38 (from NZS1170.5:2004, T	able 3.3)	<b>7</b> 1			
For pre 1992	= 1/Z	C				
For 1992-2011	= Z <sub>1992</sub> /Z		)			
For post 2011	$= Z_{2004}/Z$	5	2.52			
		Factor F: 2.63	2.63			
2.4 Return Period Scaling Facto	or, Factor G					
a) Design Importance Level, I			_			
public building set to 1.25. For buildings	igned prior to 1985 and known to be designed as a designed 1985-1976 and known to be designed as a 1.2 for Zone B. For 1976-1984 set I value.)	I = 1.25	1.25			
b) Design Risk Factor, R <sub>o</sub>		_	_			
(set to 1.0 if other than 1976-2004, or r	not known)	R <sub>o</sub> = 1	1			
c) Return Period Factor, R (from NZS1170.0:2004 Building Import	tance Level) Choose Importance	Level ○1	01 ⊚2 03 04			
, <b>.</b>			10			
		R = 1.0	1.0			
d) Factor G	= IR <sub>e</sub> /R					
		Factor G: 1.25	1.25			
2.5 Ductility Scaling Factor, Fac						
a) Available Displacement Ductil Comment:	ity Within Existing Structure	$\mu = 2.00$	2.00			
	longitudinal and transverse direction.	F				
		_				
b) Factor H		$k_{\mu}$	k <sub>μ</sub>			
	For pre 1976 (maximum of 2) For 1976 onwards	= 1.57 = 1	1.57			
		Factor H: 1.57	1.57			
(where kμ is NZS1170.5:2004 Inelastic	Spectrum Scaling Factor, from accompanying Table 3.	3)				
2.6 Structural Performance Scal a) Structural Performance Factor	_					
(from accompanying Figure 3.4) Tick if light timber-framed constr	ruction in this direction	V	<b>▼</b>			
Tiek ii iigiik diffuel-framed Whati	addon in the direction	$S_p = 0.50$	0.50			
b) Structural Performance Scalin	ng Factor = 1/S <sub>p</sub>	Factor I: 2.00	2.00			
•	thave been multiplied by 0.87 to account for Sp in this p		2.00			
2.7 Baseline %NBS for Building	J, (%NBS) b		0451			
(equals (%NBS) <sub>nom</sub> x E x F x		24%	24%			

Initi	ial Evaluation Procedu	re (IEP) Assessm	nent				Page 4
AKA	e of building:	55 Coote Road Napier Prison Building 5 - Dining Napier	Hall and TV roo	om	E	ob No.: By: [S Date: Revision No.:	2-63649.00 9(2)(a)] 7/06/2016
Tab	ole IEP-3 Initial Eval	uation Procedure	Sten 3				•
Step	o 3 - Assessment of Perfor er Appendix B - Section B3.2)						
a) L	ongitudinal Direction						
	potential CSWs		Effect on Structu (Choose a value - I				Factors
3.1	Plan Irregularity  Effect on Structural Performance  None	☐ Severe	Q SA	gnificant		<ul> <li>Insignificant</li> </ul>	Factor A 1.0
3.2	Vertical Irregularity						
	Effect on Structural Performance  None	☐ Severe	O Si	gnificant		⊙ Insignificant	Factor B 1.0
3.3	Short Columns Effect on Structural Performance	○ Severe	O Si	gnificant		⊙ Insignificant	Factor C 1.0
	None	Cocket		g-11/0.2 X			ractor c 1.0
3.4	Pounding Potential (Estimate D1 and D2 and set D	= the lower of the two,	or 1.0 if no potentia	al for pounding	g, or conseque	ences are consider	ed to be minimal)
a)	Factor D1: - Pounding Effect			-0			
	Note: Values given assume the but may be reduced by taking th					ect of pounding	
	L		0.				
	Table for Selection of	Factor D1	Facto	Severe	ngitudinal Dir Significant	rection: 1.0 Insignificant	
	Aligi	nment of Floors within 20	Separation % of Storey Height	0 <sep<.005h< td=""><td>.005<sep<.01h< td=""><td>-</td><td></td></sep<.01h<></td></sep<.005h<>	.005 <sep<.01h< td=""><td>-</td><td></td></sep<.01h<>	-	
	Alignme	ent of Floors not within 20	% of Storey Height	0.4	0.7	0.8	
	None						
	b) Factor D2: - Height Dit	fference Effect					
	Table for Selection of	Factor D2	Facto	Severe	ngitudinal Dir Significant	ection: 1.0 Insignificant	
		Height Differ	ence > 4 Storeys	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	
		Height Differe	nce 2 to 4 Storeys	01	0.9	01	
	None	неідпі Отте	erence < 2 Storeys	01	01	<b>⊙</b> 1	
							Factor D 1.0
3.5	Site Characteristics - Stability	r, landslide threat, liquefac	ction etc as it affects	the structural µ	performance fro	m a life-safety persp	pective
	Effect on Structural Performance None	e 🔘 Sewere	Q si	ignificant		⊙ Insignificant	Factor E 1.0
3.6	Other Factors - for allowance o		cterstics of the buildi	ng For	otherwise - Ma	oximum value 2.5 oximum value 1.5.	Factor F 1.5
	Detailing unknown on southern of		ll due to lack of struc	ctural drawings.		, manimum.	
							PAR
3.7	Performance Achievement R (equals A x B x C x D x E x F					Loi	ngitudinal 1.50
WAF	RNING!! This initial evaluation has bee	n carried out solely as an initia	l seismic assessment of t	he building follow	ing the procedure	set out in the New Zeala	nd Society for Earthquake

reet Number & Name:	55 Coote Road				ob No.:	2-63649.00 s 9(2)(a) ]
A:	Napier Prison	na Hall and TV na			· ·	
me of building:		ing Hall and TV ro	om		ate:	7/06/2016
y:	Napier			R	levision No.:	0
ble IEP-3 Initial Ev	valuation Procedu	ıre Step 3				
ep 3 - Assessment of Pel fer Appendix B - Section B3.2)		nent Ratio (PAR)				
Transverse Direction						Face
potential CSWs		Effect on Stru (Choose a value				Fac
Plan Irregularity	nance C Severe	0	Significant		!nsignificant	Footon A 1
Effect on Structural Perform None	nance Goode	- C	oganean.		e magamoun	Factor A 1.
Vertical Irregularity  Effect on Structural Perform	Severe		Significant		() Insignificant	Factor B 1.
None None	lance C = ====					Factor B 1.
Short Columns						
Effect on Structural Perform	nance Severe	a	Significant		<ul> <li>Insignificant</li> </ul>	Factor C 1.0
None						
						-
Note:						1
Values given assume the may be reduced by taking					ect of pounding	
		ight of the value appli	cable to frame	buildings.		1
	g the coefficient to the ri	ight of the value appli	cable to frame			
may be reduced by taking	g the coefficient to the ri	ight of the value appli Fac Separation	cable to frame	buildings. ransverse Dir	ection: 1.0	
may be reduced by taking	ng the coefficient to the ri	Fac Separation 20% of Storey Height	ctor D1 For Tr Severe 0 <sep<.005h< td=""><td>ransverse Dir Significant .005<sep<.01h< td=""><td>ection: 1.0 Insignificant Sep&gt;.01H</td><td></td></sep<.01h<></td></sep<.005h<>	ransverse Dir Significant .005 <sep<.01h< td=""><td>ection: 1.0 Insignificant Sep&gt;.01H</td><td></td></sep<.01h<>	ection: 1.0 Insignificant Sep>.01H	
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Table for Selection  Alig  None  b) Factor D2: - Heigh	on of Factor D1  Alignment of Floors within anment of Floors not within an Difference Effect	Fac Separation 20% of Storey Height 20% of Storey Height	ctor D1 For TI Severe 0 <sep<.005h 0.4<="" 1="" td=""><td>ransverse Dir Significant .005<sep<.01h Q 1</sep<.01h </td><td>ection: 1.0 Insignificant Sep&gt;.01H  1 0.8  ection: 1.0</td><td></td></sep<.005h>	ransverse Dir Significant .005 <sep<.01h Q 1</sep<.01h 	ection: 1.0 Insignificant Sep>.01H  1 0.8  ection: 1.0	
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Init	ial Evaluat	ion Procedu	re (IEP) Ass	essment					Page 6
AKA	e of building		55 Coote Ro Napier Priso Building 5 - I Napier	n	nd TV room		By: Date	No.: e: ision No.:	2-63649.00 [ s 9(2)(a) ]
Tab	ole IEP-4	Initial Evalu	uation Proce	edure Step	s 4, 5, 6 an	d 7			
Step	o 4 - Percent	age of New Bu	ilding Standa	rd (%NBS)		Long	itudinal		Transverse
4.1	Assessed B (from Table	aseline <i>%NBS (</i> e IEP - 1)	(%NBS) <sub>b</sub>			7	24%		24%
4.2	Performanc (from Table	e Achievement   e IEP - 2)	Ratio (PAR)			1	1.50		1.50
4.3	PAR x Base	line (%NBS) <sub>b</sub>				3	35%		35%
4.4		New Building S r of two values from		s)					35%
Step	o 5 - Potentia	ally Earthquake	e Prone? (Mark as approp	riate)			%	SNBS <u>&lt;</u> 34	NO
Step	o 6 - Potentia	ally Earthquake	e Risk? (Mark as approp	riate)		16	<b>30</b> %	NBS < 67	YES
Step	o 7 - Provisio	onal Grading fo	or Seismic Ris	sk based on l	IEP C	(O)	Seisr	nic Grade	С
	Additional Co	omments (items o	f note affecting	IEP score)					
					10				
				[c 0/2)/a)	1				
		Evaluation	Confirmed	[ s 9(2)(a)	1	Sig	nature		
			(0)			Nar	ne		
					1003026	CP	Eng. No		
	Relations	hip between	Grade and	%NBS:					
		Grade:	A+	Α	В	С	D	E	
		%NBS:	> 100	100 to 80	79 to 67	66 to 34	33 to 20	< 20	

nitial Evaluation Proc	edure (IEP) Assessment		Page 7
treet Number & Name: kKA: lame of building: lity:	55 Coote Road  Napier Prison  Building 5 - Dining Hall and TV room  Napier	Job No.:  By: Date: Revision No.:	2-63649.00 s 9(2)(a) ] 7/06/2016
Step 8 - Identification of p	valuation Procedure Step 8 otential Severe Critical Structural Weaknesses that o a significant number of occupants	could result in	
.1 Number of storeys abo	ove ground level		1 N
Occupancy not cons	idered to be significant - no further consideration re		
	2 to acitive Pe		

# 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 5 - Dining Hall and TV room	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:

Note: print this page separately







