

ENTERED

Statement of Claim Checklist

CLM/2010/092033

Date: 24/11/10Author: GEORGE ALEXANDERS BATES
39 MARRIOTT'S ROAD
NORTH NEW BRIGHTON
CHRISTCHURCH 8083

H:

W:

M:

LA: GEORGE ALEXANDEREstimator: TONY SMITH

Room	Damage	Walls	Ceiling	Floor	Description of Damage	
	Y/N	✓	✓	✓		
Lounge	Y	Y	}			
Dining Room	Y	Y				
Kitchen	Y	Y				
Family Room	N/A					
Bedroom 1	Y	Y				Entire house is finished in board and bat style trim panelling.
En Suite	N/A					Shake has caused shuffling and re-alignment of panels and bats.
Bedroom 2	Y	Y				Some boards have cracked at nail-points. Remediation will require filling, sanding, revarnishing.
Bedroom 3	Y	Y				
Bedroom 4	N/A					Refer enclosed DVD for illustration of internal structure.
Bathroom	Y	Y				The original section of this dwelling
Toilet 1	Y	Y				
Toilet 2	N/A					
Office/Study	N/A					
Rumpus	N/A					
Entry/Hall(s)	Y	Y				
Stairwell	N/A					
Laundry	N					
Other	N					

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2010/092033

Item		Event Damage	Description of Damage	Appoint Engineer
		Y/N		Y/N
Roof		Y		
External Walls	North	N		
	South	N		
	East	N		
	West	N		
Decks		N		
Chimney	Base	N		
	Ceiling Cavity	N		
	Above Roof	Y	1.5m chimney partly collapsed and since dismantled to roof line	
	Fireplace	N		
Foundations				
Piling				
Services		Y	Sewage blockage persisting - requires investigation by plumber/drainier.	
Other Dwelling Items				
Outbuildings				
Land & Retaining Walls		Y	Crack in concrete retaining wall	
(Discuss with Supervisor)				

I confirm the rooms and areas listed above have been inspected by an EQC representative.

Damage caused by the event has been noted and to my knowledge there are no other areas of damage resulting from the event.

Claimant not present.

Signature of Claimant: _____ Dated: 24/11/10

Scope of Works



Completed by: D. Berry

Date: 1/2/13 Page: 1 of 1
dd / mm / yy

CLM / 2010 / 0920331

39 ON MARRIOTS LTD
 39 MARRIOTS ROAD
 NORTH NEW BRIGHTON
 CHRISTCHURCH

H: & W:
 M:

Description: **Damage to Land**

Repair Strategy: Removal and/or import materials and labour to repair land 10 m²

Description – Removal of Debris/Minor Works	Units	Length	Breadth	Depth	Quantity	Rate	Cost
Transporter- machine	each					\$160.00	
Machine Hire	hrs					\$110.00	
Truck Hire	hrs					\$100.00	
Labour	hrs					\$45.00	
Contaminated Spoil Removal	m ³					\$100.00	
Spoil Removal/Tip Fees (clean)	m ³					\$20.00	
Skip (4m ³)	each					\$190.00	
Materials	each						

NB A Small/Minor Works cost may only be applied when the total area of land damage is under 15m² and no debris removal is required. 250

Description	Units	Length	Breadth	Depth	Quantity	Rate	Cost
Land Under Residential Buildings (Type 'A') - Supply and Level Hard fill	m ²					\$12.00	
Land Under Access way (Type 'B') - Supply and Level Hard fill	m ²					\$12.00	
Land Under Paved/Patio + Concrete Area (Type 'C') - Supply and Level Hard fill C1	m ²	10	1		10	\$12.00	120
Undulating Lawn Areas (Type 'C') - Level and Seed	m ²					\$10.00	
Lateral Spread Cracks under 10mm but greater than 5mm	Lm					\$25.00	
Lateral Spread Cracks greater than 10mm	Lm					\$90.00	

* Unit categories to be used as follows: Each, Sheet, Kilogram, Linear metre, Square metre, Cubic metre, Per hour, Per day, Per week. Cubic metre calculations must include length, breadth and depth figures. Square metre calculations must include length and breadth figures.	Sub-total	370
	P&G, Margin & GST Figure x 1.3662	135.49
	Total	505.49



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Scope of Works



Completed by: S O'Malley

Date: 24/1/13 Page: 1 of 1
dd / mm / yy



CLM / 2010 / 092033

39 ON MARRIOTS LTD
 39 MARRIOTS ROAD
 NORTH NEW BRIGHTON
 CHRISTCHURCH
 H: & W:
 M:

Description: **Damage to Retaining Wall** RTW 01 ← Insert 2 digit n° as recorded on Mud Map eg 01

Construction Type Concrete block Gabion Crib Poled Diamond Pro Gravity Dry Stack or Mortared Stone
INSITU CONCRETE

Remove old wall and create back-cut	Units	Length	Breadth	Depth	Quantity	Rate	Cost
Transporter- machine	each				1	\$160.00	160
Machine Hire	hrs				4	\$110.00	440
Truck Hire	hrs					\$100.00	
Labour	hrs					\$45.00	
Contaminated Spoil Removal	m ³	13	0.5	0.5	3.25	\$100.00	325
Skip (4m ³)	each				1	\$190.00	190

Balance of Evacuation - Supply fill	m ²					\$12.00	
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Unit categories to be used as follows: Each, Sheet, Kilogram, Linear metre, Square metre, Cubic metre, Per hour, Per day, Per week. Cubic metre calculations must include length, breadth and depth figures. Square metre calculations must include length and breadth figures.	Sub-total	1,115
	P&G, Margin & GST Figure x 1.3662	408.31
	Sub-Total	1,523.31

NEW WALL	Units	Length	Breadth	DFA	Rate Table (includes GST, margin and P&G)	
					Rate	Cost
Structure dimensions	m ²	13	0.5	6.5	715	4647.50
Total						6170.81

Comments *Easy access, engineer recommended replacing insitu concrete RTW with 200 series concrete block.*



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Scope of Works



Completed by: David Berry



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39 ON MARRIOTS LTD
39 MARRIOTS ROAD
NORTH NEW BRIGHTON
CHRISTCHURCH
H: & W:
M:

Date: 24/1/13 Page: 1 of 1
dd / mm / yy

Description: **Damage to Retaining Wall** **RTW** 03 ← Insert 2 digit n° as recorded on Mud Map eg 01

In situ concrete

Construction Type Concrete block Gabion Crib Poled Diamond Pro Gravity Dry Stack or Mortared Stone

Remove old wall and create back-cut	Units	Length	Breadth	Depth	Quantity	Rate	Cost
Transporter- machine	each				1	\$160.00	\$ 160
Machine Hire	hrs				4	\$110.00	\$ 440
Truck Hire	hrs					\$100.00	
Labour	hrs				4	\$45.00	\$ 180
Contaminated Spoil Removal	m ³	6	0.7	0.7	2.94	\$100.00	\$ 294
Skip (4m ³)	each				1	\$190.00	\$ 190

Balance of Evacuation - Supply fill	m ²					\$12.00	
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Unit categories to be used as follows:

Each, Sheet, Kilogram, Linear metre, Square metre, Cubic metre, Per hour, Per day, Per week.

Cubic metre calculations must include length, breadth and depth figures.

Square metre calculations must include length and breadth figures.

Sub-total	\$1264
P&G, Margin & GST Figure x 1.3662	\$ 462.87
Sub-Total	\$ 1726.87

NEW WALL	Units	Length	Breadth	DFA	Rate Table(includes GST, margin and P&G)	
					Rate	Cost
Structure dimensions	m ²	6	0.7	4.2	\$715	\$ 3003
Total						\$ 4729.87

Comments

Earth ramp required to access wall.



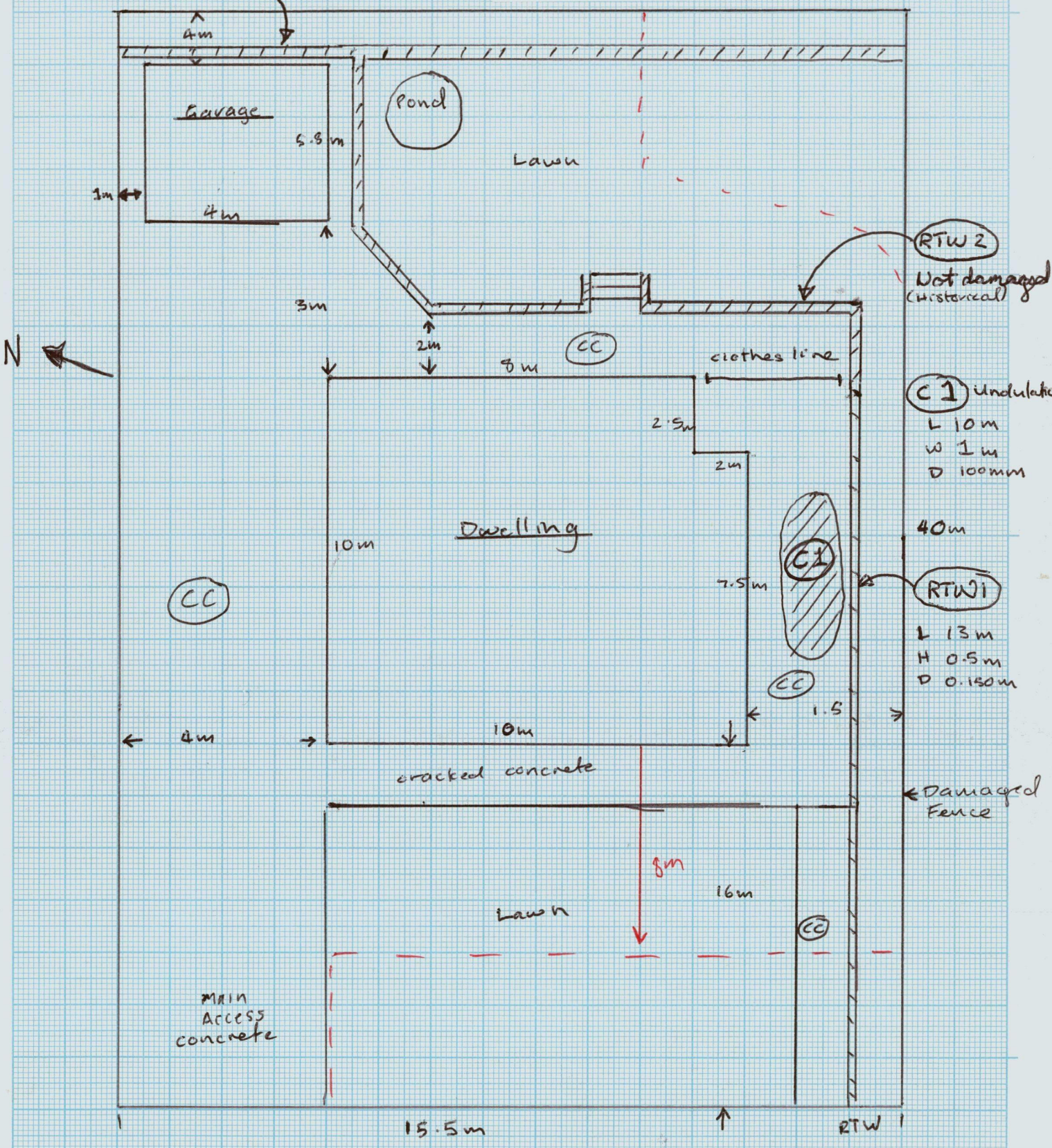
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Estimator: David Berry
Assessor: Steve O'Malley

39 ON MARRIOTS LTD
39 MARRIOTS ROAD
NORTH NEW BRIGHTON
CHRISTCHURCH
H: & W:
M:

RTW 3
L 6m
H 0.7m
W 0.2m



CC = cracked concrete

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EARTHQUAKE COMMISSION
Kōmihano Rūwhenua

Land Assessment – Legend Sheet Complex Flat Land Claims

Claim N°: 2010/092033 Claimant: Sue Bates

Date: 24/1/13

Situation of Loss: 39 Manuotū Road

Author: S. Mally

Item N°	Description/Construction	Length	Height/Width	Depth	Damage	Damaged Area	Evacuated m ²	Inundated m ²	Debris m ³	Access	
										E	D
C1	Concrete Path	10	1	0.1	undulation	10m ²	10	—	—	E	
RTW 1	Painted Insitu Concrete	13	0.5		Cracked & rotated	DFA 6.5					
RTW 3	Insitu Concrete	6	0.7		Cracked & rotated	DFA 4.2					

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1257554 2011 CHCH EQ - LAND ENGINEERING REPORT



LM

EQC Claim Number:	New: 201_/	Significant Risk to Safety:	YES <input checked="" type="radio"/> NO
	Old: 201_/	Engineer's Names:	<i>C. Mars</i> <i>T. Henderson</i>
Claimant Name:		Engineers E-mail:	NOT REQ'D
Claimants Address:	<i>39 Marriotts Rd</i> <i>North New Brighton</i>	Date:	<i>27/10</i> /2011 Team no: <i>2</i>

Was an EQC Engineering Land Assessment undertaken following the Darfield Earthquake (4 September 2010) and prior to 22 February 2011: YES NO

GENERAL

Type of Damage	<u>Earthquake</u>	Landslip	Storm/Flood	Other
EQC Priority of claims	1 - Home/Land seriously damaged and uninhabitable	2 - Home/Land seriously damaged but habitable		
	<u>3 - Home/Land moderately damaged & Habitable</u>	4 - All other damage		
Is this natural Disaster Damage?	<u>YES</u>	NO		
Is there an Imminent Risk of Loss?	YES	<u>NO</u>	(If 'YES' - Fill in Summary Information Table and Imminent Loss Checklist)	

INSPECTION DATA & DISCUSSION WITH CLAIMANT(S)

Discussion with Claimant/Occupier?	<u>YES</u>	NO
What happened? Claimant's story	<i>Sand mainly at front of property, undulating lawns & paths have settled & been pushed up in places. pile movement, house tilting at on corner, garage creaked. chimney fell down in Feb but was damaged in Sept.</i>	

SITE DESCRIPTION (Refer Site Plan and/or Cross Section)

General:	<i>Flat land - Feature wall at back and low back lawn rises up by 1.0m to rear of section.</i>
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LAND - (DAMAGED ACCESS, LAND, & DESTROYED LAND, & RETAINING WALLS, BRIDGES, CULVERTS)

None

LIQUEFACTION/Flat land damage	None	Sand boils	Lateral spreading	Settlement	Remediation Rqd (TBC in office)		
					Yes	No	Notes
Land damage observed:							
(i) Lateral Spreading	<u>Not Observed</u>	Spreading <100mm over property Spreading >100mm over property	Tilt > 5 degrees Vertical offset > 50 mm			<input checked="" type="checkbox"/>	
(ii) Crust Thinning (TBC in office)							
(iii) Cracks	<u>Not Observed</u>	Distribution: Crack Width: >100mm <100mm <5mm	Single crack >100mm <100mm <5mm	Multiple cracks >100mm <100mm <5mm			<input checked="" type="checkbox"/>
(iv) Undulating land	<u>Not Observed</u>	Resulting from: Lawn: > 50 mm high Lawn < 50 mm high	Lateral spreading Lawn steeper than 1 in 20 slope Lawn shallower than 1 in 20 slope	Liquefaction Patio/Paths >10 mm high Patio/Paths <10 mm high	Ground oscillation Patio/Paths steeper than 1 in 100 Patio/Paths shallower than 1 in 100	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
(v) Flood risk (TBC in office)		Above 50yfl pre 4 Sept Below 50yfl pre 4 Sept	Above 50yfl pre 22 Feb Below 50yfl pre 22 Feb	Above 50yfl post 22 Feb Below 50yfl post 22 Feb	No Increased Flood Risk Increased Flood Risk		
(vi) Local Ponding	<u>Not Observed</u>	Observed within EQC covered land				<input checked="" type="checkbox"/>	
(vii) Localised settlement causing drainage issues	<u>Not Observed</u>	Property no longer draining to road/public services					<input checked="" type="checkbox"/>
(viii) New Groundwater Springs	<u>Not Observed</u>	Observed					<input checked="" type="checkbox"/>
(ix) Inundation of land with sand to silt	<u>Not Observed</u>	Observed	Already Removed			<input checked="" type="checkbox"/>	

Refer to the Potential Remedial Works page of this report

LAND - (DAMAGED ACCESS, LAND, & DESTROYED LAND, & RETAINING WALLS, BRIDGES, CULVERTS) Continued

LIQUEFACTION/Flat land damage comments: Sand/silt observed, undulating lawn > 50mm, undulating paths > 10mm, undulating accessways.
 ↗ rear lawn (front ok)

OTHER Flat land damage	<input checked="" type="radio"/> None	Settlement resulting from:	Ground Oscillation	
			Consolidation of fill	
	Other (specify).....			

LANDSLIDE/SLOPING LAND & RETAINING WALL DAMAGE None Landslip Rockfall Retaining wall damage Other

Geological situation (fill/loess/bedrock etc):					Imminent risk (Y/N)	Remediation (TBC in office)
Groundwater situation (seepage/runoff etc):						
Landslip:	Tension Cracks	Toe-bulge	Erosion	Surface slump		Refer to the Potential Remedial Works page of this report
Description:	Rotational Slip	Translational Slip	Ridge-venting	Other.....		
Rockfall:	Source:	Upslope	Within property boundary			
Description:		Downslope	Beyond property boundary			
Are multiple properties affected:	Yes	No				
If Yes, list affected properties:					

Comments:

RETAINING WALL DAMAGE

Retaining wall damaged?	<input checked="" type="radio"/> None	No. of walls damaged <u>2</u>	Imminent risk (Y/N)	Remediation (TBC in office)
Description:	Concrete retaining walls			
Type of damage to retaining wall(s):	<input checked="" type="radio"/> Cracks	<input checked="" type="radio"/> Rotated/leaning	<input type="radio"/> Slid	<input checked="" type="radio"/> Bulging
Location of retaining wall(s):	<input checked="" type="radio"/> Settlement	Within 8m of building		
		Within 60m & needed to protect/support land comprising accessway		
Are multiple properties affected:	<input checked="" type="radio"/> Yes	No		
If Yes, list affected properties:			

Comments:
 SE boarder slopes from 500mm high to 200mm high, 13m long, from this point onwards it turns into a feature wall & is not support anything.
 Behind garage wall - concrete wall 200mm high & 6m long (cracked only)

LAND - (DAMAGED ACCESS, LAND, & DESTROYED LAND, & RETAINING WALLS, BRIDGES, CULVERTS) Continued

LAND DAMAGE AREAS (see table on page 6 for more details)			
Areas of land Damage	Entire Site	Portion of Site	None
Land beneath Main access way damaged?	No-N/A	Within 60m of building	Other.....

PRELIMINARY LAND REMEDIAL OPTION & COST (Refer Site Plan and Cross Section)

Land Remedial option	Drainage	Retaining Wall	Palisade Wall	Soil Nail/Rock Bolt	Earthworks
	Debris Wall/Catch Fence	Remove rock hazard	Other	Combination of Above	None
Estimated Land Remedial Cost	TBC - (To be confirmed by Cost Estimator)				

DWELLING DESCRIPTION (Refer Site Plan and Cross Section)

General : (eg. Single level, roof type, foundations, cladding etc)	Single level, weatherboard iron roof, partial pilos + part concrete slab, concrete drive with grass centre strip, No footing
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BUILDING DAMAGE - GENERAL

Has the building been Damaged?	YES	NO	
Is the Dwelling at Imminent Risk?	YES	NO	
Estimated Remedial Value?	TBC - (To be confirmed by Cost Estimator)		
Have any Appurtenant structures been damaged?	YES	NO	
Are any appurtenant structures at Imminent Risk?	YES	NO	(Does not include Patios/Paving)
Have any services within 60 m of dwelling been damaged?	YES	NO	
Are any services within 60 m of dwelling at Imminent Risk?	YES	NO	

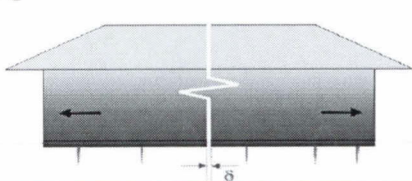


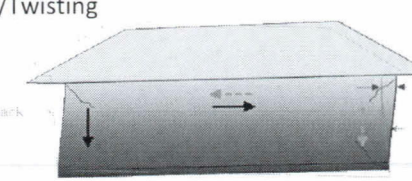
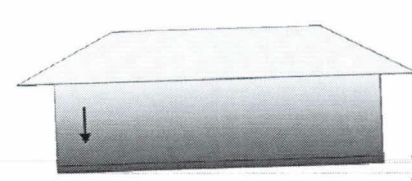
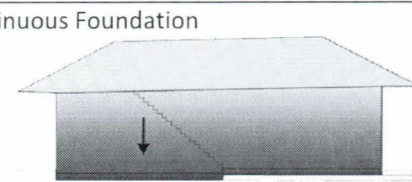
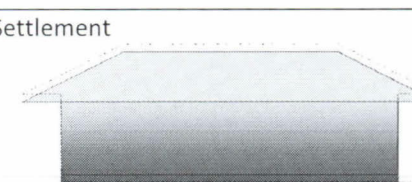
DAMAGED DWELLING, APPURTENANT STRUCTURES, & SERVICES (Refer Site Plan and Cross Section)

Dwelling : features damaged :	None Window glass Other:	External walls Steps	Internal walls Foundation/slab	Ceiling Roof	Door/window frames Chimney
Type of damage to Dwelling:	Cracks (walls) Racking/sagging	Cracks (ceiling) Walls etc out of vertical	Cracks (window glass) Crack in slab	Cracks (chimney) Crack in footing	Floor sloping Other:
Appurtenant structure(s) damaged :	None	Garage/shed	Carport	Deck	Other:
What services have been damaged?	Water Telephone	Sewer Service structures	Drainage Don't Know	Gas Other:	Electrical None

GENERAL :

House racked + tilting at a rear corner, garage is racked. North

Floors and Foundations	Roof Cladding	Wall Cladding
✓ Timber floor on piles <i>1/2 house</i>	✓ Light: Iron roof	✓ Light: weatherboard/plywood/stucco etc
✓ Timber on internal piles with perimeter concrete footing	Heavy: concrete tiles/clay tiles/slate etc	Heavy: brick veneer/stone/solid plaster
✓ Concrete slab on grade <i>1/2 house</i>		

Damage to Dwelling predominantly from:	Shaking		Land damage
	Severity		
	Minor	Moderate	Major
Stretching 	0 to 5mm	5 to 30mm	>30mm
Hogging 	0 to 20mm	20 to 50mm	>50mm
Dishing 	0 to 20mm	20 to 50mm	>50mm
Racking/Twisting 	0 to 10mm	10 to 30mm	>30mm
Tilting 	0 to 20mm	20 to 50mm	>50mm
Discontinuous Foundation 	0 to 10mm	10 to 20mm	>20mm
Global Settlement 	0 to 50mm	50 to 100mm	>100mm

Potential Remedial Works

The works described below are to repair or protect insured land (i.e. within the property boundary, on or supporting the main access within 60m of the dwelling, or within 8m of a residential building) and the structure(s) that has/have been damaged or is/are at imminent risk as a direct result of the natural disaster that has occurred.

A solution that reinstates the damaged land and removes the imminent risk threat would comprise the following works:

- ① remove ejected sand or silt
- ② locally repair undulations by trimming top of undulations or filling depressions.
- ③ replace both retaining walls with Type 1, 140mm block retaining walls (without surcharge), 1000mm max height, Footing width = 450mm, Key depth = 100mm. (See attached)

Additional information for cost estimation:

<u>Construction Issues</u>	<u>Easy</u>	<u>Moderate</u>	<u>Hard</u>	<u>N/A</u>
• Construction Access	✓			
• Drilling				✓
• Reinstatement	✓			

This preliminary design is for the purposes of costing for the claim settlement process only, it is not for construction. There may be a solution that is more cost effective and/or appropriate. Even if this concept is considered to be appropriate, further subsurface investigation, detailed design and consenting may be required prior to construction.

We estimate the cost (excluding GST) to construct the proposed solution will be as follows:

Engineering investigation, design and drawings	\$ 5,000
Construction Observations and PS4	\$ 1,000
Survey (if required)	\$ -
Building/Resource consents (if required)	\$ -
Project Management	\$ 2,000 300
Construction of(as detailed above)	
(Cost to be determined by cost estimator)	\$ TBC
TOTAL non construction Costs (Excluding GST)	\$ 6,300

The total construction cost estimates should be confirmed by a contractor or estimator.

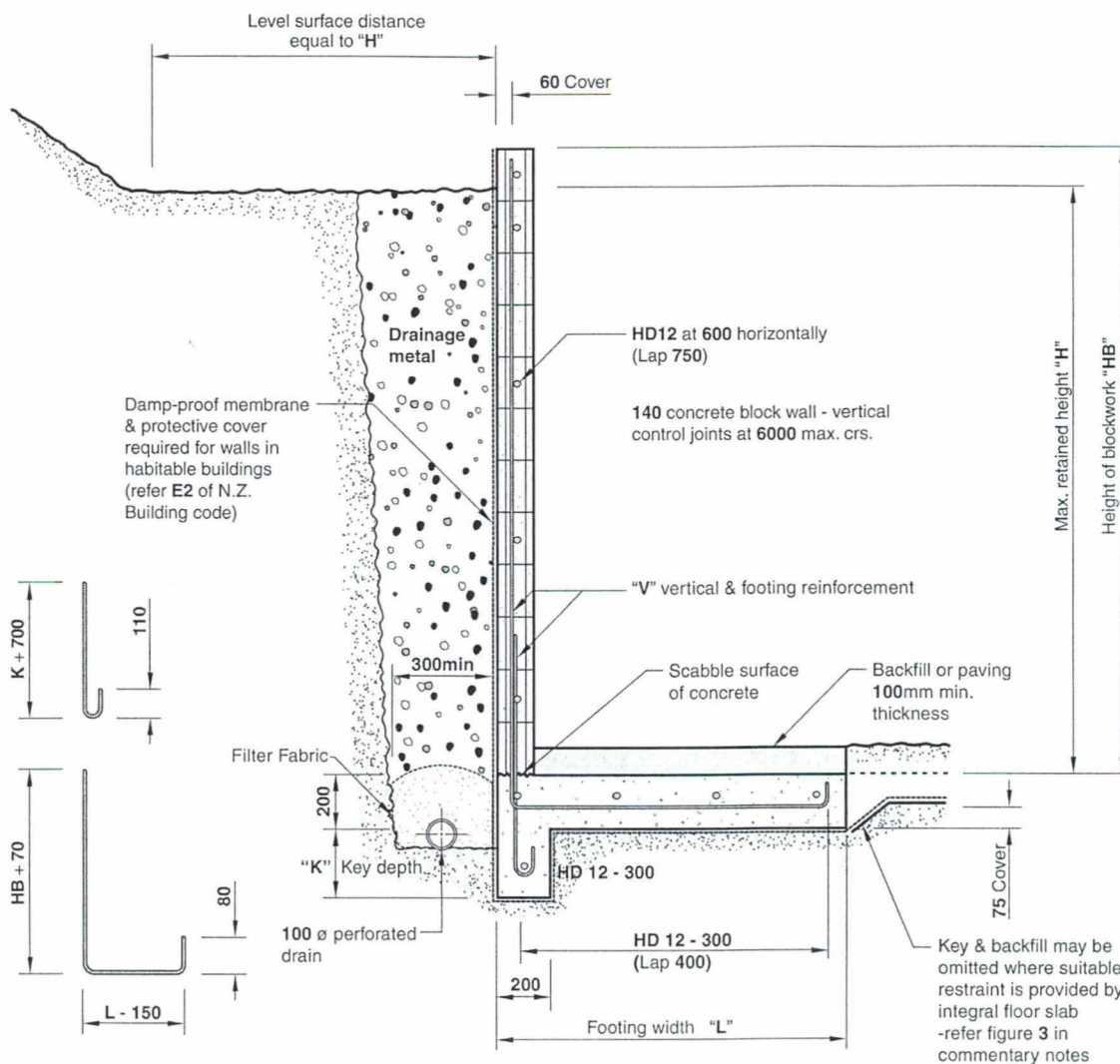
Preliminary Summary Information (all costs excl GST)

Is this Natural Disaster damage?	Yes
Land within 8m of dwelling or appurtenant structures	
Area of Land damaged Evacuated: Inundated:	484m ² —
Area of Land at imminent risk Evacuation: Inundation:	—
Main access way within 60m of dwelling (or an appurtenant structure)	
Area of Land damaged on accessway or supporting accessway: Evacuated: Inundated:	21m ² —
Additional Area of Land at imminent risk on accessway or supporting accessway: Evacuation: Inundation:	—
Retaining Walls (covered by EQC)	
Description.....(list and describe each affected wall)..... Damaged: (face area - m2); 6m ² + 4m ² At imminent risk: (face area - m2); —	Yes 10m ²
Dwelling & Appurtenant Structures	
Has dwelling or appurtenant structure been damaged as a result of the natural disaster? Description..... <i>Shaking & Land damage</i>	Yes
Cost to repair damage:	TBC
Is dwelling (or appurtenant structure) at imminent risk as a result of the natural disaster: Description.....	No
Cost to remove imminent loss threat to dwelling (or appurtenant structure):	TBC
Value of imminent risk damage to dwelling (or appurtenant structures) :	—
Services within 60m of Dwelling or Appurtenant Structure	
Services damaged (list) Services at imminent risk (list)	unknown
Remedial Option: (describe briefly and state what the remedial option/s will repair) <i>Earthworks & retaining wall</i>	TBC (excluding GST)

TBC – To be calculated & confirmed by cost estimator

Maximum EQC incurred
Area 505 m²

TYPE I. 140mm RETAINING WALL – WITHOUT SURCHARGE



BAR BENDING DIMENSIONS

CROSS-SECTION OF RETAINING WALL

NOTES

- Masonry designed to NZS4230 PART 1.
- Concrete foundation and grout infill strengths 20MPa at 28 days.
- Reinforcement is deformed 500 grade.
- Ultimate bearing pressure for footing taken as 300kPa.
- Drainage shall be a layer of suitable granular material with perforated pipe to an open end.
- Compaction forces from machinery are not included in the design.

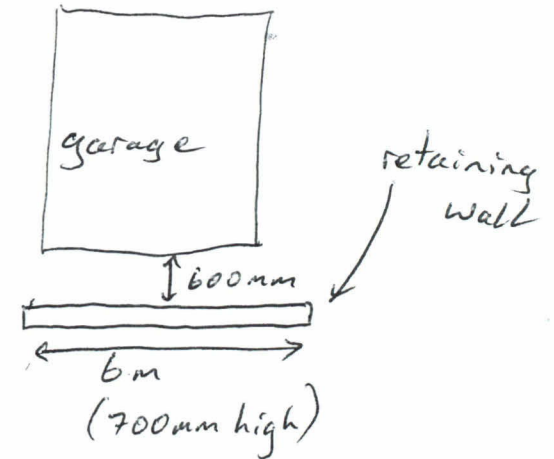
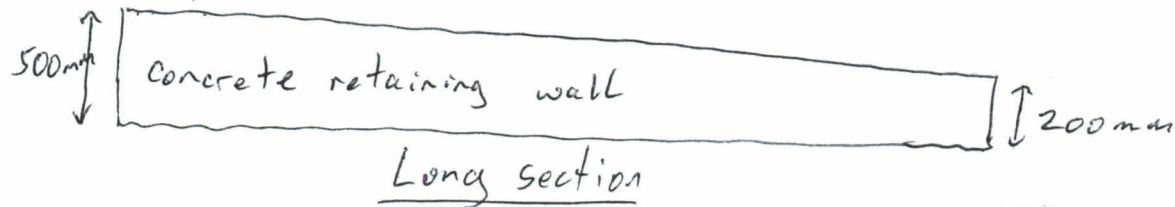
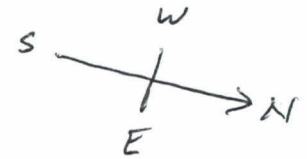
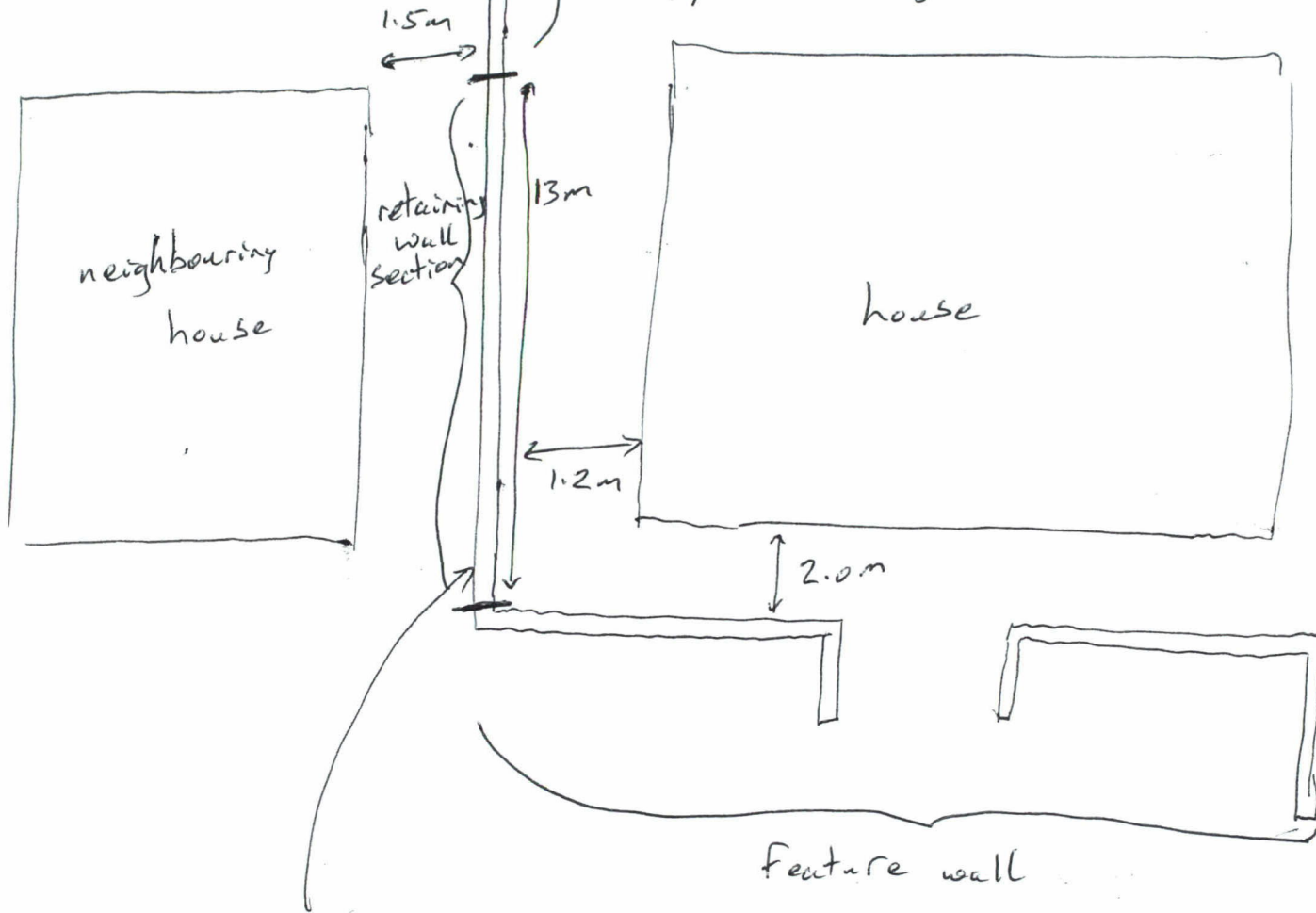
	γ kN/m ³	ϕ
7. Soil A includes	Dense Gravel	19.6 30
Soil B includes	Loose Gravel	16.7 30
	Gravelly Sand	16.7 35
	Pumice Soil	12.7 35
Soil C includes	Weak Clay	16.7 25

Vertical and Footing Reinforcement	SOIL A		SOIL B		SOIL C	
	Maximum height "H"	Maximum height "H"	Maximum height "H"	Maximum height "H"	Maximum height "H"	Maximum height "H"
"V"	"L"	"K"	"L"	"K"	"L"	"K"
HD10-600	1000	100	1000	100	1000	200
HD10-600	500	100	450	100	850	200
HD10-600	1300		1400		1100	
HD10-600	650	200	650	200	950	250
HD10-400	1500		1600		1200	
HD10-400	800	250	800	200	1050	300
HD12-600	1500		1550		1200	
HD12-600	800	250	750	250	1050	300
HD12-400	1650		1750		1400	
HD12-400	900	300	900	300	1300	350

DESIGN DIMENSIONS

Retaining wall plan

Feature wall < 200mm high & not supporting anything





Path: L:\52000\Working\Map\GIS\Map\Doc\Field_AKL_C120_NorthNewBrighton.mxd Date: 19/05/2011 Time: 5:37:47 p.m.

Lot 6 DP 8450

Notes:

- = sand
- = garden feature wall
- = undulations
- = Damaged retaining wall
- = No EQC Area = 102m²
- = Damaged Accessway = 21m²

A4 SCALE 1:250

Drawn by:
T. Henderson
Date:
27/10/11

EQC
EARTHQUAKE COMMISSION
KŌIHĀNA RŪWHENUA
www.eqc.govt.nz

22 FEB 2011 - EARTHQUAKE
NORTH NEW BRIGHTON, CHRISTCHURCH
(C120-091841) - 39 Marriotts Road

EQC Claim No: 201_/_