	GFDRR GFDRR Godal Facility for Disaster Reduction and Recovery	Universidad de Ios Andes	≜U,	CL	
			Date: VRS Code:	10/4/2018 II	
VULNERABILIT	Y REDUCTION	SOLUTIONS	Author: Sheet:	UNIANDES 1 OF 1	
	REINFORCED CONC	CRETE BUILDINGS			
GENERAL INFORMATION					
Strengthening Intervention:		Infills Isolation			
Applicable Building Types:					
1. Main structural system:	RC1	$\begin{array}{c} RC2 \\ \hline \\ RC3 \\ \hline \\$	X RC4 X	RC5	
2. Height range:		Low (LR) X	Medium (MR) X	$\begin{array}{c c} High (HR) \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	
3. Seismic design level	$\frac{1}{2} \operatorname{Poor}\left(\mathrm{PD}\right) X$		Medium (MD) X	$\operatorname{Hign}(\operatorname{HD})[X]$	
EXISTING STRUCTURAL DEFICIENCI	ES				
-Soft story; -Captive column. STRUCTURAL IMPROVEMENTS AFTH	ER STRENGTHENING				
- Fragile collapse mechanism avoided.					
STRENGTHENING INTERVENTION DI	ESCRIPTION				
This type of intervention improves the seismic structural masonry walls from the structure. <i>A</i>	c behavior of the building avoidi fter that, the remaining infill wa	ing the short column collapse me all needs to be retrofitted in order	chanism. The first ste	p is to isolate non- of plane failure.	
			πL		
		✓ VER DETALL	£5 ×	INTERNAL REBAR STEEL	
				ISOLATION ELEMENT	
		d d d		NEW CONFINING ELEMENT	
			EPOXIC ANCHORAGE		
		EXISTING COLUMN			
		WATERPROOF FLEXIBLE		- INFILL MASONRY WALL	



Notes

The proposed intervention options are for illustration purposes only.All dimensions, details and material specification has to be specifically designed for each application case.

Any actual reinforcement solution requires the participation of a structural engineer.The authors do not assume any responsibility for the use of the proposed reinforcement options.

1

D7_RC_Infills_Isolation_V3