7.5 Outline Schedule of Proposed Works - Existing Buildings

NEW DUBLIN CENTRAL LIBRARY - PARNELL SQUARE CULTURAL QUARTER: OUTLINE SCOPE OF WORKS FOR EXISTING BUILDINGS/PROTECTED STRUCTURES

EXTERNAL W	ORKS								
		No 20	No 21	No 23	No 24	No 25	No 26	No 27	No 28
ROOFS REFER TO ROOF MAPPING SCHEDULE	Chimneys	Allow for dismantling and rebuilding chimneys using lime mortars with brick (imperial) replacement where reuse of historic is not feasible. Allow for taking chimneys down to eaves level. Localised repairs required to chimney bases throughout (12-15 courses) This will require taking out brick and replacing with matching size, colour and texture (or as close as feasible). Where chimneys are rendered, render to be removed — anticipate that there will be brick replacement required under render (due to damage) and	As per 20	As per 20	As per 20	As per 20 Chimney between 26 and 25 is to be re- rendered – lime render (nearly full length of party wall)	As per 20 Chimney between 26	No 27 As per 20	As per 20
REFER TO ROOF MAPPING SCHEDULE	Roof	localised brick repair All chimney tops to be flaunched Assume requirement to replace 50 No chimney pots with matching (salvage or new) Propose stainless steel lining of 30 No flues Strip existing roof and renew with natural slate with lead/copper gutters and lead/copper flashings. Intact sound natural slate will be reused. Insulate roof at ceiling level and provide through ventilation to roof void. Lift, clean and reinstate parapet coping stones throughout. Repair/renew cast iron rain water goods. Replace existing velux rooflights with new conservation type rooflights. Provide Automatic opening vents over stairs.	As per 20	Careful stripping of roofs and salvage of all sound natural (Welsh) natural slate; replacement of timber battens and re-slating using sound salvage slate with new natural Welsh slate (matching sizes) for replacements Reinstatement of clay ridge tiles. Provision of Tyvek type breather	As per 23	Replace existing flat roof with new, stepped, flat roof, with stone paved finish or suitable for public access. Metal guardrail set back from front parapet. Planters,	stone paved	Replace existing north light/saw tooth roof structure. New roof to partially retain profile of existing north light roof, with new slate finish (small size slate with natural slate to southern most/visible slope and Tegral type	As per 20 Propose full roof renewal comprising removal of asbestos slates; all timberwork and leadwork with complete replacement with traditional timber roof and natural (Welsh) slating

				necessary, ensuring adequate falls. Allow for new valley and gutter boards throughout (ref typical roof details) With splice repairs to decayed rafter ends and doubling up of remainder of rafters, Replace decayed sections of wall plate – splice repairs and straps.			
	Rooflights	Allow for 'conservation style' rooflights 1m x 1.5 as per drgs;	As per 20	As per 20	As per 20		As per 20
	AOV's	Allow for AOV's AT 1M X 1M SQ (free	air) above all stair	s. AOVs will be glazed roofligl	hts. These are require	d for fire strategy	•
	Roof access	Through proprietary fold down attic stairs and through rooflight hatch	As per 20	As per 20	As per 20		Repair existing timber stairs to roof and form access hatch in roof (dormer type)
	Fall Arrest system	This is a health & safety at work requi	rement. Post syste	m for fall restraint to be prov	ided which will not be	readily discernible at street lev	
	Roof Void Crawl way	Yes	Yes	Yes	Yes		Yes
Rainwater Disposal	,						
	Front	General note – Allow for repair/rener	wal with cast iron r	ainwater goods	1	1	1
	Rear	Allow for repair/renewal with cast iro					
	West	As per front façade					

		No 20	No 21	No 23	No 24	No 25	No 26	No 27	No 28
EXTERNAL WALLS	REFER T	O FAÇADE REPAIRS SCHED	ULE						
Front (South Facade	Brick areas	Renew existing brick façade pointing (wigging as per attached spec); Replace decayed brick with salvage or new brick to best match historic in size, colour and texture Lift and reset existing parapet cappings, repoint with lime mortars. Any damaged/broken parapet stones to be replaced in matching, Leinster, granite. Window heads to window in Nos 2 No 23 a number of lintels have been Allow for rebuilding of window rev	en replaced and v	will be replaced with new	lintels	As 20	As 20	As 20	Allow for rebuilding up to 50% of perimeter of parapets in brick matching main façade (thickness range 1 brick to 1½ brick); new granite coping will be required (Leinster granite to match existing).

Stone string course	Window heads are generally not expected to require rebuilding except potentially in No 28 and rear of 20 & 21 Stitching of internal party wall to external walls using helifix at each level Internal wall stitching – anticipate this to be localised – where cracks occur over door heads, etc. External stitching to No 28 as per façade repairs schedule Stitching of vertical crack in gable of 23 Stitching of corner of gable and external wall in 21									
Stone string course		Clean stone string course Provide Lead weather flashing Allow for splicing in of indents to approx. 50% of length	Clean stone string course Provide Lead weather flashing String course at high level is Portland stone and will require removal of cement render over coat with repair with stone mortar repair							
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Render and stone areas ground level	Stone facing added in 1950s. Localised repairs.	Granite ashlar finish at ground level is modern. While it may be desirable to reinstate the historic arrangement (based on evidence at No 23 and Hugh Lane gallery), the unified ground floor facades of 20 & 21 would require alterations also to No 20. Therefore, proposed to retain and localised repairs to existing stonework.	Remove existing cement render and repair underlying facing stone. Note: original rusticated stone substrate was identified under render during investigative works but is in very poor condition. Propose full repair and reinstatement to match original rusticated presentation, based on surviving stone dimensions, profiles and using a compatible matching stone to original for any repairs/replacement. Informed by presentation seen on Malton print and informed by adjacent Hugh Lane Gallery, flanking walls.							
Stone Facing Ground Level	Allow for cleaning – ref outline spec further on in this schedule of works	As 20								
Render areas basement level	Remove from all facades and enclosing walls of basement area. Allow for some making good masonry behind and, either present masonry without decorative finish/render coat or as per two options below 1. apply 3 coat lime (NHL 3.5) render, lined. Allow for vapour permeable silica paint finish	Presently basement area is covered over. Proposal to open up. Where render survives on enclosing walls, procedure as per No 20	As 20	As 20	As 20	As 20	As 20	As 20		

Cills West Façade (No Bric 28)	apply vapour permeable silica paint finish, or breathable lime-based paint finish direct to masonry Clean off paint from stone cills as possible to match existing/historic Allow for replacement of stone cills.	– geological type, col	our, texture, dimensions & pro	files. A nun	nber of dam	naged and broke	n cills were evide	nt from hoist survey Nov 2015	•
Rear (North) Facade	Existing areas of cementitious render finish to be removed. Depending on the condition of the underlying brickwork, it may be feasible and desirable to repair and present the brick. Alternatively, the condition of brick may be so damaged by the cement render, that it is not feasible to repair it is proposed to re-render using lime plasters. Therefore there are three options proposed for rear façade renewal: 1. Brick repairs and re-render with lime render and apply 3-coat vapour permeable silica paint/lime-based paint finish 2. Brick repairs and apply 3-coat vapour permeable silica paint/lime-based finish directly to brick masonry. 3. Repair existing brick finish, retaining the diverse mix of bricks which display the layered history of the buildings, rake out joint, repoint with lime mortars and ruled finish, or where joint condition is very poor a wigged finish may be preferable Most window heads require to rebuilt; allow for c30% brick replacement, raking out joints and repointing – ruled finish.	As per 20	As 20	As 20	As 20	As 20	As 20	façade repairs to No. 20 As west façade (brickwork to front façade No 20)	

	Window surrounds:	Allow for repairs to all brick reveals and feathered lime mortar reveals.					
Gables to Nos 21 & 23	Brickwork/Render		Remove existing render – allow for brick repairs. Two options proposed: 1. Re-render using lime-based render 2. Carry out brick repairs and repointing (wigging) to present as per historic condition	As per 21			

		No 20	No 21	No 23	No 24	No 25	No 26	No 27	No 28
Windows	General Note	Many of the existing windows are not façade with new windows which will relevation, in particular as the historical windows. Where window opes are being will be retained and repaird. The exist sills/bottom sash rails; re-puttying; refallow for cleaning. Rear (north façade) – remove window and repair steel windows inserted by stit timber/metal framed glazed fire so surrounds. Structural repairs: Allow for replacement External windows to Nos 20, 21, 23 and remaining houses does not require the sustain.	einstate the historic, fenestration survives ing enlarged to allowing 20 th century stee nanging; new ironmonand new) to be mades where new bridge school in 1930s; replacement of decayed or strict d 28 to be made auto e windows to be ope	/original fenestration pattern as es at Nos 18, 19 and Charlemont How for the interconnection with the law indows inserted by the school ongery; stripping off all paintwork le fully operational as up and down connections being made to new eace modern timber sashes with new repaired/replaced windows as independent of the company of the	evidenced in ouse. To the new, rear, li will also be in and repaint on sash winds extension; reew, matchin licated on draw precast lintactuators fit ow for future	the Malton pring rear and in the value of party building, to retained and repairs. All windows ows, with consectation and repairs of g historic fenest awings. Note the els; Allow for take ted to sash winds e installation of party	t. This approa west façade of he existing sa- raired. Timbe to be fitted we reation type of historic window ration arrangeses screens we king down dealows and link	ach allows for recovery of No 28, there are a mix ash windows will be removed in the remover window repairs to allowith perimeter brush serestrictors provided in a cows where they survive, ements. Fill be placed on exterior corative architraves; spled to BMS system. While	of the unity of the Palace Row exture of historic and 20 th century noved. All other historic windows w for replacement of timber al system using timber stop beads. ddition to conservation hinges to including any historic glass; retain a face to avoid alteration to interior ice repairs to same and reinstating. The the ventilation strategy for the
	Glazing	system. These will only be installed when Allow for secondary glazing system (be resetting position of architrave, where Allow for 'slimlite', or matching, narro Apply UV film ref Sun-X MT90 Clear Ul	espoke timber or sline they survive, and in w dimension double	n type proprietary aluminium sys stroducing additional timber mem glazed units in all new external s	tem) to first ber to achie ash windows	floor windows (3 ve sufficient dep s throughout (no	oth between so te this syster	sash and shutter box to m is designed for histori	fix secondary glazing panel.
Windows	Front (south)	New windows basement (six over six timber) Repair existing gf windows: New timber sash windows (traditional style; fine glazing bar profile) New 9 over 6 first floor windows New 6 over six second floor New 3 over 3 third floor Note new large inset window opening at ground floor will be a special item	As No 20, except basement level (No windows)	New timber sash windows in basement, ground, first, second and third floors	As 23	As 23 for gf, ff, sf & tf New timber/metal frame window in large opening at basement.	As 23	As 23	As 23
	Rear (north)	Repair existing historic, or where modern replacements, provide new traditional sash type window – six over six at all floor levels GF – reformed window openings at ground floor to have contemporary timber/metal framed sashes with similar detail for basement windows	As No 20	Surviving sound historic windows to be retained and repaired, unless removed for bridge access to new build; new traditional sash windows to match historic fenestration; all sash windows to be openable; New metal/timber framed glazed fire screens over windows onto stairs.	As 23	As 23; also existing metal windows at upper levels to be retained and repaired	As 25	As 23	As 23 – note all windows are external, so no fire screens required.
	Gable (west) No 28			OVEL WINDOWS OILU STAILS.					Repair existing historic windows where they survive and replace modern with new matching— allow for replacement of timber sill/frame and bottom rail of all windows; rehanging; re-puttying;

	Cills		Clean off paintwork from all sills; allow concrete cills to rear windows (25, 26		sills ff level (and to No. 28 west	façade) where	e iron balcony	fixings has ca	used damage (up to 19 N	o cills); Allow for replacement of
	REVEALS	Front / Side	Replace all existing patent reveals with lime plaster reveals (feathered) or, where evidence exists that the historic reveals were brick (as indicated on Malton print), brick reveals to be presented.	Repair/reinstate all reveals to match existing profiles. Clean paint off stone surrounds – depending on condition of underlying stonework it may be necessary to apply protective finish.	As 21	As 20	As 20	As 20	As 20	As 20
		Rear	As front	As front No 20	Painted reveal (ref facades repair schedule)	As 23	As 23	As 23	As front 20	As front 20
Doors & Doorcases	Main Entr Doors		Ref outline spec for cleaning and repairing principal door surrounds; New timber doors	New timber door within enlarged door opening. Proposed extension of door opening to pavement level to allow for universal access entrance with associated removal of entrance steps.	New front door to match historic original	As 20; repair existing door	No front door	AS 20; As 24	New main entrance door – contemporary insertion in timber/metal. Existing opening to be extended to ground level with associated removal of front entrance steps. New stone/architectural concrete surround to incorporate name sign for library with metal/stone lettering and integrated lighting (source to be concealed)	As per 24
	Other extended doors	ernal	New door at basement level to front area; New rear door to rear basement area	New door to front basement area	New door and ope to front basement; area	New door to front basement area	As 23	As 23	As 23	As 23

		No 20	No 21	No 23	No 24	No 25	No 26	No 27	No 28	
Front railings, plinths, entrance steps & basement area zone (ref marked up drawings and public realm on GF and Basement plans)	Plinth and railings Ironworks: General note for all existing railings and plinths to be retained: Railings to be removed, cleaned of surface application and repaired/ altered as required for new gates; painted with zinc rich primer 2 coat paint finish Reset railings in lead. Plinth: Clean and point stone plinth alter stone plinth for new gates as required Repair decayed stone	Repair existing ironworks, including existing external steps from street to basement area (ref outline spec below); remove concrete plinth and replace with stone to match No. 19 adjacent	Remove existing stone steps. Reinstate granite plinth and railings to reinstated basement area – material, details, profiles to match adjacent historic.	Existing to be altered to facilitate reinstatement of front steps and entrance door – to match historic design; dimensions; profiles; materials. Repair existing ironworks and granite plinth	Repair existing ironworks and granite plinth; New gate in railings; new external access steps (fire)	Repair existing ironworks and granite plinth; New gate in railings; new external access steps (fire)	Repair existing ironworks and granite plinth;	Remove existing stone steps and repair flanking stone plinth and railings to either side where steps removed — exposed face to be repaired using stone, plaster, or masonry graft to articulate outline of removed steps. Repair retained granite plinth and railings as per general note.	Repair existing ironworks and granite plinth; New gate in railings; new external access steps (fire) and new hoist lift serving street level and basement area – this is to facilitate servicing of library café/restaurant use in ground and basement floors of No 28.	
	Existing steps (repairs to all existing stone) Existing/New stairs from basement areas to pavement	repair existing stone steps Repair existing stairs from basement to ground	Remove existing steps	New steps	Repair existing steps Remove existing and provide new metal and stone stairs providing emergency exit from basement.	No steps As per 24	Repair existing steps Remove existing	Remove existing steps Remove existing ramp	Repair existing steps Remove existing and provide new metal and stone steps and platform lift	
	New universal ramps (excluding principal public realm plinth)		Ground level adjusted to provide ramped access/entry through enlarged door opening; new Leinster granite paving to ground		TOTT BUSCINCITE.			Ground level adjusted to provide ramped access/entry through enlarged door opening; new Leinster granite paving to ground		
BALCONIES	General Note re repairs to ironwork balconies to be retained: Works generally consist of cleaning down, removing loose flaking paint work, treatment of corrosion with appropriate rust converter, filling of water traps, augmentation and/or repair of junction. Trial cleaning will be carried out to determine the most appropriate cleaning	Front balcony is not original, late 19 th /early 20 th addition. crudely altered in 1950s with fixings. To be removed and be good.	research indicates Significantly and n steel base and	Repairs to FF 3 No balconies: As per general note; fixing appears to be to window sills – allow for new fixings and repairs to windows	Repairs to FF 3 No balconies: As per general note; fixing appears to be to window sills – allow for new fixings and repairs to windows	Repairs to FF 3 No balconies: as per general note; fixing appears to be to window sills – allow for new fixings and repairs to windows. Remove balconies to second floor	Repairs to FF 3 No balconies: As per general note; fixing appears to be to window sills – allow for new fixings and repairs to windows		Remove existing balconies from second floor windows to front and west facades (7 No total) and make good. Remove steel window bars to ground and basement windows and make good	

regime. Ironwork will be painted to selected colour. Missing embellishments (casting)will be reinstated to match existing detail. Allow for new fixings to brickwork and brickwork repair					windows (3no) & make good sills & reveals				
MEMORIAL	Miami Showband memorial to This process is being carried Council Commemorative Paraprotocols and in conjunction parties. Preliminary consultation with the relevant parties in a submitting this EIAR applicat	out by Dublin City lel in line with with related tion has been held dvance of							
FABRIC REMOVAL / DEMOLITIONS	REF MARKED UP FABRIC REM openings formed in walls/cei these services. Also repairs to removed throughout 23-28.	lings, etc., including ceilings following r	damage to decor emoval of light fit	ative cornices, join ttings (especially No	ery, etc. Allow for o's 20 & 21). Note	consequential rep school partitions a	airs/making good fol and suspended ceiling	lowing careful removal of	
CELLARS – UNDER PAVEMENTS	Allow for opening up and clearing out of debris and obsolete plant, tanks, etc. Apply restoration plaster to walls and vault for waterproofing. Cellars to be used for plant, stores, watertanks. Allow for localised repairs to brickwork and stonework. Allow for new concrete floor and repairs to existing stone setts/paving; Structural augmentation to require concrete/steel beams. New metal/timber gates and doors to cellars	As 20	As 20	As 20	As 20	As 20	As 20		
SIGNAGE	NATIONAL BALLROOM sign hadismantled and currently in sproposed to reinstate within Library	storage. It is not		 gn to be incorporate age will be require				to the enlarged entrance at	No 27.

INTERNAL WORK	'S								
		No 20	No 21	No 23	No 24	No 25	No 26	No 27	No 28
	S - FLOORS ARE ADDRESSED HOUSE S BASED ON HOUSE BY HOUSE AND	BY HOUSE		1		1			
REPAIRS AS PER	SOCIATED WITH OPENING UP SELECT WALL SPECELSEWHERE AND ALLOW ERTION OF VENTILATION DUCT. Whereplace opening.	V FOR LOCALISED RESTORATION	ON OF DECORATIVE CO	ORNICES AND F	RIEZE WHERE CHIM	NEY BREAST OPENED	UP. EXISTING FIRE	PLACES TO BE TAK	EN OUT AND REINSTATED
FLOORS	General Note	All floors above basement an Structural Strategies set out low, subject to structural engavoid central fireplaces – siz steel spanbreaker strategy was All works to floors will be calworks). In addition to streng wiring and pipework (combine rear external wall and serve trades and skilled labour inp	in Appendix B. These d gineer confirmation); (s ed to be contained with vill be the primary solut rried out from above by thening, floor void will nation of notching and room via linear floor gr	letails are base spliced repairs hin floor void). tion implemen y lifting existing accommodate drilling within	ed on floor strengther to decayed joist end It is anticipated, to reted. g boards – to retain, e fire protections/sou Part A Structure limi	ning by combination of s) or steel spanbreaked meet the relevant state where surviving, historical insulation batts (altations). Ventilations	of doubling up joist ers inserted within utory loadings asso pric ceiling plaster b llow for additional strategy for rear ro	s (small span rooms the floor void (gene ociated with the nev pelow (allow for tem resilient strips for so oms in No's 23-26 w	or where loading levels rally 2No per room to vibrary use, that the apporary propping during bund insulation); services vill bring air into floor at
	BASEMENT FLOORS	All existing basement floors retained and reused where shardcore; tanking (cavity dra areas; tiles in wet areas; times	to be removed and refo sound); Note marked u ain type) concrete slab;	p drawings for insulation laye	new floor levels (sor er with underfloor he	me floor levels reduce eating pipes in screed	d). Allow for c. 800 and floor finish (po	mm build up for ne lished concrete/sto	w floors to include for
	FLOORS – RAISED FLOOR ELEMENTS: Raised timber floors on existing floor structure to accommodate level variations and allow for ramped provision of universal access through the houses. Avoidance of platform lift solutions for level difference in houses is a requirement of the brief arising from consultation with disability groups. Planning drawings indicated where it is proposed to raise existing floor levels.	c. 300 mm raised floor proposed at third floor to enable level access between 20 & 21	First floor front room to be raised by 70mm, altering existing timber floor structure to align with No 20 GF entrance hall floor altered to allow for universal access entry to houses. Requires lowering of existing floor level with ramped and part-stepped arrangement full depth of house. New stone/ terrazzo / polished concrete floor finish			Existing third floor level raised to facilitate level/universal access connection with Nos 24 and 26.	Existing first, second and third floor levels raised to facilitate level/universal access connection with Nos 25 & 27	GF entrance hall floor altered to allow for universal access entry to houses. Requires lowering of existing floor level with ramped arrangement full depth of house New stone/terrazzo/polished concrete floor finish	
	FLOOR FINISHES	Allow for existing historic flo except basements and third sound historic boards in the finish or carpet/rug overlay i finish); except stone entrance	floor boards to be reused floor of No 27). It is an primary rooms, i.e. at g in library rooms (excep	ticipated that t ground and firs t wet areas to	there will be significated the significated the side will be significated the side will be sided. The side will be sided to side will be significated to side will be si	int percentage of exist Nos 20, 21, 23, 24 & culation areas – timbe	ting boards which v 28, as a priority. Fl ers. All ground floo	will not be reusable. oor finishes to be til r and first floors to b	Strategy is to reuse mber with either self- be timber finish (oil
THIRD FLOOR									

CEILINGS	New ceilings throughout – fireline board – note most rooms have coved sections (all plain plaster)	As 2O	AS 20	As 20		w profile of new roofs – all rade ply or plaster finish	ow for curved	New lath and plaster ceilings throughout to follow existing profiles
WALLS - FINISHES	Allow for new lime plaster w	all finish (1:2 with hair r	oinforcoment)	throughout with no	int finish			
WALLS - PINISHES WALLS - OPENINGS		'				stornal walls. Allow for now	u timbor linings in	ononings, Allow for
WALLS - OPENINGS	Ref Marked up plans which s filling in existing window ope in No's 23 & 24. Allow for rep	enings in walls onto cent	ral circulation	hall in No's 20 & 21	and removal and	d make good wall (fire rate	ed); above door far	lights to internal doors
STAIRCASES REF STAIRCASE AUGMENTATION STRATEGY set out in Appendix B	Repair and augment timber stairs from second to third floor.	Repair, strengthen and augment existing stairs from second floor to third floor	Repair, strengthen and augment existing stairs from second floor to third floor	It is proposed to remove this stairs to facilitate circulation / connection between houses	Repair, strengthen and augment existing timber stairs as per main stairs No 20. Add step at top of stairs to facilitate new raised floor level.	No stairs – remove existing and install new passenger lift (evacuation standard) with large services risers.	New stairs – as first floor	Existing stone cantilevered stairs – structural augmentation required; repairs to metal handrail; new steel handrail fixed to outer wall.
INTERNAL DOORS REF JOINERY MAPPING SCHEDULE Where historic doors survive in sound condition these will be retained and repaired	Upgrade 2 No existing 6 panel doors for Fire; 2No new Fire doors to match; Repair 1 No internal door between rooms	Allow for repairs to 1 No 6 panel mahogany door. All other doors will be new. Take for matching existing and fire rate onto all fire escape routes.	Allow for repair and fire upgrade to 3 No doors. All new doors elsewhere	New doors throughout	All new doors	All new doors	All new doors	3 No 5 panel doors to be retained, repaired and upgraded for fire. All new doors elsewhere – match existing 5 panel doors.
INTERNAL JOINERY REF JOINERY MAPPING SCHEDULE Where historic joinery survives in sound condition this will be retained and repaired	New skirtings to match existing; Repair existing window surrounds & shutters (all windows)	Allow for new to match existing where missing or damaged and make good existing door and window surrounds (all lugged)	New joinery throughout, skirtings, architraves and underwindow panels	As No 23	As No 23	As no 23	As no 23	Repair window surround joinery to main front and back rooms (4 windows); New joinery elsewhere
NEW RAMPS	N/A	N/A	N/A	New ramp - timber ramp with integrated furniture/seat as guardrail	New ramp from 25 to 24 front rooms – timber ramp with integrated furniture/seat as guardrail	N/A	N/A	N/A
FIREPLACES REF FIREPLACE MAPPING SCHEDULE	Repair existing fireplaces – 3No rooms. New grates	Clean back timberwork and repair and repaint; New grates	All new fireplace surrounds – simple timber and infill grate	As No 23 (1No fireplace remains)	No fireplaces	No fireplaces	No fireplaces	Allow for new fireplace in octagon room (to replace existing); No other fireplaces
	1	1		1				

		No 20		No 21		No 23	No 2	4	No 25		No 26	No 27	No 28	
SECOND FLOOR	CEILINGS	Retain & augment la plaster ceilings; (ss washer fixed to ceil allow for augmenta on a 300 x 300 grid. Allow for filling of ceilings and cornice filler) Clean (removal of h build by specialist) & ceiling rose; Apply reversible pai	wire and ing joists): ition based racks in es (tourpret leavy paint back paint to	plaster and wa ceiling augme 300 x 3 Apply (finish Allow to	& augment lath & r ceilings; (ss wire asher fixed to joists): allow for entation based on a 800 grid. reversible paint throughout for filling of cracks ngs and cornices ret filler)	As per No 21	As p	er No 21	As per f	No 21	As per No 21	As per No 21	As per No 21	
	CORNICES REF CEILING MAPPING SCHEDULE	Clean back loose pa apply gentle chemic application (as per t samples); repair dan sections of cornice to historic profiles, cle for length of repeat either side of repair repair matches orig	cal trial maged to match eaning back pattern on r to ensure	As 20		As 20	As 2	0	As 20		As 20	As 20	As 20	
	WALLS	Retain sound lime p	plaster where mited cleaning	g of pair	ntwork from areas of	retained plaster	is to be	carried out	to provid	e sound	and even finish	to take new pa		
	WALLS - OPENINGS	articulate contempo				ed new openings	ın exte	ernal and inte	ernal wall	s. New t	imber linings to	be provided in	openings – detailed to	
	STAIRCASES REF STAIRCASE AUGMENTATION STRATEGY				See third and first floor	Stairs to thir floor to be removed. Se first floor for main stairs v	e	Repair, stre and augme existing tim stairs as per stairs No 20	nt Iber r main	existing new particular (evacual standa	g and install assenger lift	New stairs – as first floor	Existing stone cantilevered stairs – structural augmentation required; repairs to metal handrail; new steel handrail fixed to outer wall.	
	INTERNAL DOORS REF JOINERY MAPPING SCHEDULE Where historic doors survive in sound condition these will be retained and repaired	Repair existing 5 panel doors – make good glazed panel insert and upgrade for fire. New fire door to match historic	Repair existi panel doors to be upgrad fire, includin with inserte viewing pan be removed made good) new fire doo match histor	(2No ded for ng 1No d glass el to and . 1 no or to	New timber doors throughout	As 23		As 23		historic salvage 23 & 24 reused upgrad	feasible c doors ed from Nos 4 to be here and led for fire. mber doors iere.	As 23	3 No existing 6 panel doors for repair and fire upgrade. All new elsewhere to match.	

INTERNAL JOINERY REF JOINERY MAPPING SCHEDULE Where historic joinery survives in sound condition this will be retained and repaired	Repair existing joinery which is substantially intact. Match existing profiles where replacement sections required	As 20	Window surrounds – mostly intact but some replacement / repair needed. Otherwise all new joinery. Repairs to dado panelling in staircase and decorative joinery/plasterwork in stairhall	As 23	All new joinery – plain and contemporary design to express new library layer	As 25	As 25	Existing joinery is generally in poor condition – repair sound and replace damaged/missing with new to match historic.
NEW RAMPS	N/A	N/A	N/A	New timber ramp with integrated furniture/seat as guardrail		New ramp from 26 to 25 front rooms – timber ramp with integrated furniture/seat as guardrail		N/A
FIREPLACES REF FIREPLACE MAPPING SCHEDULE	Repair 2No existing	2 No in fair condition	New fireplaces – 3No;	As per 23	No fireplaces	No fireplaces	No fireplaces	As per 3 rd floor No 28

		No 20	No 21	No 23	No 24	No 25	No 26	No 27	No 28
FIRST FLOOR									
	CEILINGS	Retain & augment lath &	As 20	Retain & augment lath &	As 23	As 23	As 23	As 23	As No 20
	REF CEILING	plaster ceilings; (ss wire and		plaster ceilings; (ss wire					
	MAPPING	washer fixed to ceiling joists):		and washer fixed to ceiling					
	SCHEDULE	allow for 40% augmentation		joists): allow for 40%					
		based on a 300 x 300 grid.		augmentation based on a					
		Allow for filling of cracks in		300 x 300 grid.					
		ceilings and cornices (tourpret							
		filler)		Repair damaged sections of					
		Apply reversible paint finish		cornice to match historic					
		throughout;		profiles, cleaning back for					
		Repair damaged sections of		length of repeat pattern on					
		cornice to match historic		either side of repair to					
		profiles, cleaning back for		ensure repair matches					
		length of repeat pattern on		original profile					
		either side of repair to ensure							
		repair matches original profile							
		Two options for general		Allow for filling of cracks in					
		cleaning of decorative		ceilings and cornices					
		plasterwork:		(tourpret filler)					
		1. Preliminary clean to		Apply reversible paint					
		remove loose material		finish throughout					
		2. Full cleaning back paint							
		layers(removal of heavy							
		paint build by specialist)							
		to original decorative							
		ceilings and cornices							

WALLS – FINISHES	Retain sound lime plaster where Limited cleaning of paintwork fr stairhall arches to No's 20, 21, 2	om areas of retaine 3 & 24. Allow for m	ed plaster is to be taking good areas	carried out to provide damaged by services	sound and even finisl routes.	n to take new paint finis	shes. Localised repa	airs decorative plast
WALLS -	Ref Marked up plans which show	w approx size and lo	ocation of propos	ed new openings in ex	ternal and internal wa	lls. New timber linings	to be provided in o	penings – detailed t
OPENINGS	contemporary opening and new		.					T
INTERNAL DOORS REF JOINERY MAPPING SCHEDULE Where historic doors survive in sound condition these will be retained and repaired	All fine mahogany doors – retain, repairs and upgrade for fire Remove inner/modern set of folding doors between front and rear rooms, retaining historic doors	All fine mahogany doors – retain, repair and upgrade for fire. Allow for some alteration where floor level of front room raised	Existing 6 panel mahogany door for fire upgrade. All new doors elsewhere	All new doors	All intact mahogany 6 panel/double doors – retain, repair and upgrade for fire	New doors throughout	Historic 8 panel mahogany door – retain, repair and upgrade for fire. All new doors elsewhere	Existing mahogany 6 panel doors (all need repair with replacement panels and upgrade for fire). New doors elsewhere
STAIRCASES REF STAIRCASE AUGMENTATION STRATEGY	Repair existing timber stairs – strengthen (ref Schedule) with steel/timber within undercarriage void (involves removing and reinstating lath and plaster soffits); Allow for strengthening existing balusters and raising same with light metal bar. Provide new secondary metal/timber handrail fixed to wall.	Repair, strengthen and augment existing stairs from first to second floor as main stairs No 20	Repair, strengthen and augment existing stairs from first to second floor as main stairs No 20	Repair, strengthen and augment existing stairs from first to second floor as main stairs No 20	Repair, strengthen and augment existing stairs from first to second floor as main stairs No 20	No stairs – remove existing and install new passenger lift (evacuation standard) with large services risers.	New feature stairs (stone/concrete steps with steel /architectural bronze handrail) in new void in floor between ground and basement	Front cantilevered stone stairs as second & third floors. Main stairs – repair Portland stone stairs and iron balustrade, will require augmentation
INTERNAL JOINERY REF JOINERY MAPPING SCHEDULE Where historic joinery survives in sound condition this will be retained and repaired	Generally good condition – allow for replacement shutters to 2No front windows	Generally intact; allow for alteration where floor raised and repair where services removed	Allow for some replacement to match existing where damaged, otherwise repair existing	Generally poor condition – will require substantial new joinery, to match historic	Generally limited. Retain/repair existing historic with new elsewhere	As 25	Existing is poor condition and quality propose full replacement of plain joinery	Existing in poor condition – retain/repair sound historic and provide replacement to match
NEW RAMPS	N/A	N/A	N/A	New timber ramp with integrated furniture/seat as guardrail	New timber ramp with integrated furniture/seat as guardrail	New timber ramp with integrated furniture/seat as guardrail	N/A	N/A
FIREPLACES REF FIREPLACE MAPPING SCHEDULE	Generally sound – allow for some localized stone repairs and cleaning (some areas of missing stone from front fireplace)	Generally sound – allow for some localized stone repairs and	Allow for new fireplaces in front and rear rooms.	Remove existing tiled fireplaces and provide 2No new fireplaces	No fireplaces	No fireplaces – take for 2No new fireplaces to main rooms	Allow for 1 No in front room	Allow for 2 No new in front and rear main rooms;

		No 20	No 21	No 23	No 24	No 25		No 26	No 27	No 28	
GROUND FLOOR											
GROUND FLOOR	CEILINGS REF CEILING MAPPING SCHEDULE	Retain & augment lath & plaster ceilings; (ss wire and washer fixed to ceiling joists): allow for 40% augmentation based on a 300 x 300 grid. Allow for filling of cracks in ceilings and cornices (tourpret filler) Apply reversible paint finish throughout; Repair damaged sections of cornice to match historic profiles, cleaning back for length of repeat pattern on either side of repair to ensure repair matches original profile Two options for general cleaning of decorative plasterwork: 3. Preliminary clean to remove loose material 4. Full cleaning back paint layers(removal of heavy		As 20	As 20	plaster ceilin washer fixed allow for 40% based on a 3 Allow for filli ceilings and of filler) Apply revers throughout; Repair dama cornice to m profiles, clea length of repeither side or repair match Two options cleaning of diplasterwork: 5. Preliminaremove 6. Full clean layers (re	Apply reversible paint finish			As per No 20	
		paint build by specialist) to original decorative ceilings				paint build by specialist) to original decorative ceilings					
		and cornices				and cornices					
WALLS - FINISHES Retain sound lime plaster where sound and repair damaged areas of system finish to all walls. Limited cleaning of paintwork from areas (Note 23 & 24 are quite damaged from water ingress). Allow for sor areas damaged by services routes. Front room No 23 existing wallpaper of the protected. Alternative may be to apply new, reversible, overpaper of the protection of the pr						er is to be carried asterwork repair i ned further and, v paper, and paint	out to provide soun in stairhall arches to where deemed of hi	id and even fin No's 20, 21, 2 storic significa	ish to take new 3 & 24. Allow fo nce to be retain	paint finishes. r making good ed, conserved and	
	WALLS – OPENINGS	Ref Marked up plans which she detailed to articulate contemp		•				•	•		
	STAIRCASES	· ·		, , ,	As FIRST FLOOR	AS FIRST	No Stairs – remove		feature stairs	As First Floor	
	REF STAIRCASE AUGMENTATION STRATEGY	remo				FLOOR			ne/concrete s with steel nitectural ze handrail) in void in floor veen ground basement		
	INTERNAL DOORS REF JOINERY MAPPING SCHEDULE	mahogany in good exist condition – upgrade for fire; remove elsev	ing with new th	ew doors nroughout - to natch first floor	Retain/Repair existing doors and upgrade (fire). Otherwise	Retain/ repair and upgrade for fire existing doors	Retain/repair exist mahogany 6 panel upgrade for fire No required elsewher	exist ew 8 pa	in/repair ing mahogany nel need repair fire upgrade.	Retain/repair existing 7 panel plus complex folding doors (all mahogany).	

		No 20	No 21	No 23	No 24	No 25	No 26	No 27	No 28			
BASEMENT												
FLOOR	CEILINGS	Remove all plaster finishes and replaster using lime (NHL) plaster. Allow for silica paint finishes										
	WALLS	Allow for removal of all wall plaster and reapplying lime (NHL with animal hair) plaster throughout. Allow for silica paint finish and tiled finishes in wet areas/kitchens and stores.										
	INTERNAL DOORS	Take for all new doors at basement lever										
	STAIRCASES	Provide new stairs	Stairs has been	Remove	Provide new	Remove existing	No stairs - – remove	New stairs as	As per third floor No			
		from ground to	removed	existing stairs	stairs from	stairs	existing and install	described at	28.			
		basement	previously		ground to		new passenger lift	ground level No				
					basement		(evacuation	27				
							standard) with large					
							services risers.					
	INTERNAL JOINERY- Repair existing where Allow for new joinery throughout											
		sound and provide										
		new matching										
		elsewhere										
	NEW RAMPS	N/A										
	INTERNAL DOORS	Allow for new doors throughout										
LIFTS		Propose to install new	N/A	N/A	N/A	N/A	New passenger lift		Install platform lift in			
		8 person lift in existing					(evacuation) to be		external basement			
		shaft in No 21 to serve					installed in stairwell		area. To be used to			
		basement to second					following removal of		service library			
		floor levels					existing modern		restaurant/café in			
							terrazzo stairs. Lift to		No 28			
							serve basement to					
							third floor (all floors)					
Ironmongery	While desirable to retain historic door ironmongery where functioning, additional/new ironmongery may be required to meet universal access standards in addition to Part M. Also, all fire doors will require											
	appropriate ironmon	gery to ensure complianc	e with Part B. Hold o	pen fixings to be fit	ted to doors linke	d to fire alarm system	١					

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grafton architects / Shaffrey Architects

JUNE 2018

Works to Brick Facades

Facade Renewal Works 20-21 & 23-28 Parnell Square

The original front facades of No.5 to no.8 Hume street are hand-made brick built in Flemish bond pattern bedded in lime mortar. The upper second and third level of No. 5, No. 6 and No.7 and upper parapet of No. 8 have been refaced with a machine brick. Window heads in are also reconstructed using machine brick. The brickwork is pointed with a white coloured mortar using a strap pointing style, a later pointing renewal likely coeval with the facade refacing work at upper level. A colour wash was applied to provide a homogenous appearance

Window reveals are lined with cement patent reveal and painted. Cills in granite have been over painted A granite string course separates the upper brickwork from rendered stone masonry at basement level. The granite parapet coping has been covered over with a metal cover flashing as part of recent roof renewal works.

The façade contains areas of sound pointing of a condition that would not normally be considered for renewal however the loss of brick facing is observed throughout with no clear discernible pattern indicating that brick is acting in sacrificial manner to the pointing. The impervious nature of cement based pointing mortar traps moisture leaving brick vulnerable to frost and the resulting breakdown of the masonry. Soiling is also observed particularly at downpipes location. A more appropriate pointing would be a lime based pointing which is more vapour permeable and will act in sacrificial manner to the brick. The visual inconsistency arising from the hand made and machine brick requires a pointing technique that will provide a homogenous visual appearance. Traditionally a tuck pointing technique is used to improve the visual appearance of brickwork to achieve a desirable aesthetic appearance.

Arising from the visual examination and desire to achieve a homogenous appearance it is concluded that full re-pointing of the façade is to be undertaken. To date earlier pointing technique has not been identified

Methodology

All methods and applications will be subject to on site trials and tests to determine their appropriateness and effectiveness.

Brickwork Joint Preparation

It is envisaged that preparation of joint will be executed in two operations.

Operation 1 – Removal of pointing Operation 2 – Raking out of bedding joint

Works to Door Surrounds & External doors

General:

Stonework

Removal of painted surface application using methodology based on sample test removal. Paint removal in accordance with best conservation practice. Where previous repairs uncovered which are detrimental to condition of stone these will be renewed with either plastic mortar repair or stone indent. Damaged areas of stone surface will be repaired. Cleaned surface will be assessed for visual uniformity. Where stone is inconsistent in appearance a vapour permeable translucent wash (Lasur) will be applied to the stone to blend in repair.

Fanlights:

Cleaning and removal of surface paint applications.

Repair of damaged cames using best practice conservation

Technique. Paint renewal with stone colour to match door surround

Door:

Care out repair to panelled timber door. Repair to door using best practice Conservation technique with spliced indent repair techniques. Paint renewal to door to selected colour

Cleaning Testing Regime

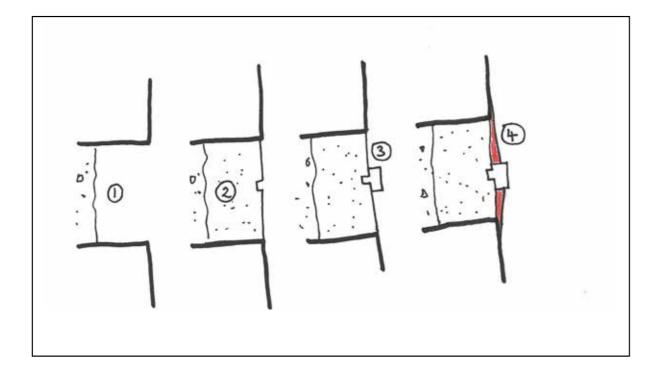
Sample testing will be required to determine appropriate method of removal and to determine parameters acceptable to carry out cleaning.

Criteria for tests and assessment:

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Façade appearance after cleaning

Cleaning process is to be pre-tested on materials and deposits representative of the whole in unobtrusive location feasible. Written records for each trial area, covering cleaning methods and conditions, to enable repetition of results elsewhere.



- 1. Joint raked out
- 2. Joint pointed with white stopping mortar
- 3. White ribbon inserted and formed
- 4 Wigging (coloured mortar) applied to joint face to overlap with brick

Tests removal shall determine appropriate method and tools for removal of pointing to prevent damage to brick. Test will demonstrate proficiency with joint raking tools and ability to not cause significant damage to brick units with either hand or power tools. A certain amount of chipping of brick edge will occur but adhering to agreed methodology will minimise loss Generally pointing removal will be using of masons fl at headed quirks or similarly appropriate tools. Where pointing is of a hard dense nature a power tool shall be used to cut a centre groove to allow removal of remainder using careful action and with prior sample approved by Architect.

The bed joint will be raked out using quirks to depth of 25mm to provide a square face. Loose dirt and debris shall be removed using a stiff bristle brush or blowing the joints clean with low-pressure compressed air (40-60 psi). Thoroughly flush out joint with clean, Clearwater.

Brickwork cleaning

Cleaning of brickwork has two objectives

- 1. Removal of soiling
- 2. Removal of graffiti

1. Removal of soiling

A light clean will be given to the overall brick work to remove soiling. In area of heavy soiling such as downpipe location a proprietary chemical cleaner will be used (low concentrate hydrofluoric acid)

2. Removal of graffiti

A proprietary chemical cleaning agent for removal of aerosol spray paints will be applied in accordance with manufacturers specification.

Pointing Renewal

The brickwork will be rinsed down in advance of pointing, so that by the time of mortar application, it is damp rather than wet. Pointing will be carried out in suitable weather conditions. Appropriate protection will be in put in place as necessary to ensure suitable condition areas maintained to ensure sufficient time is allowed for pointing curing process to take place.

Quality Control Sample:

A control sample be approved by the Conservation Architect which will act as an exemplar for

Wigged Tuck Pointing:

(using bastard tuck pointing technique)

The pointing technique is carried out in a number of steps. Pointing mortar are lime based:

Step 1.

Insert white stopping mortar and fill flush with joint

Step 2

Groove stopping mortar

Step 3

Insert and form white ribbon in stopping mortar while stopping mortar is still green to form compound joint:

Step 4

Applied colour wigging mortar to brick joint face

95

IRONWORKS REPAIRS TO FRONT RAILINGS AND PLINTHS

Works will consist of cleaning down, removing loose flaking paint work, treatment of corrosion with appropriate rust converter, filling of water traps, augmentation and/or repair of junction. Trial cleaning will be carried out to determine the most appropriate cleaning regime. Ironwork will be painted to selected colour. Missing embellishments (castings) will be reinstated to match existing detail. New gates will be provided at location of new step or where original altered and steps to be retained/reinstated.

REPAIRS TO GRANITE PLINTHS

Works will consist of cleaning down, removing loose flaking paint work, treatment of corrosion with appropriate rust converter, filling of water traps, augmentation and/or repair of junction. Trial cleaning will be carried out to determine the most appropriate cleaning regime. Ironwork will be painted, to selected colour. Missing embellishments (casting) will be reinstated to match existing detail. A new gate will be provided at location of original steps.

Entrance Paving

Paving will be cleaned down to remove heavy soiling. Cementious pointing removed. Pointing will be renewed with hydraulic lime-based mortars. It may be necessary to left and replace granite paving to allow for services and level interface with adjacent new paving finishes. Historic paving, kerbs and coal hole covers to be retained.

BASEMENT AREAS MASONRY CONSOLIDATION AND REPAIR General

The enclosing masonry walls to the light well areas are in various degrees of deterioration particularly the outer wail to the pavement cellars. The vaulted cellar are current structurally sound with no significant distress observed. Masonry has begun unravelling in the outer wall face is loose and undermining stability of railing above. Opening in the outer cellar wall have been structurally undermined by loss and deterioration of timber lintels.

It is proposed to consolidate and reconstruct all loose masonry and reform missing section of masonry to match exciting. Modern infill materials will be removed.

New concrete lintel will be provided to opening in-lieu of missing timber lintels.

Masonry work will be carried out using a combination of stone and brick using hydraulic lime mortar to match existing construction.

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7.4 Fire Safety Design Strategy

Modern buildings are designed from the outset to allow occupants to leave quickly, easily and safely in the event of a fire, adapting an historic building can be more difficult. The primary factors considered are the protection of persons in the building and the building fabric and contents.

A range of fire safety engineering design solutions have been developed by Specialist Fire Engineering consultants based on risk assessment of the building and development of a strategic approach to fire safety measures has been adopted to minimise impact on the buildings, important fabric and elements of the protected structures to lead to a more sympathetic solution. These solutions have been developed in collaboration with the architects/ conservation architects and design team. Compensating measures will be proposed where appropriate and allowed to enhance fire safety.

Generally in Ireland buildings are designed to Technical Guidance Document B (Irish building regulations). An alternative to this is that the building is is designed to BS 9999 (British Standards). The recommendations in BS 9999 differ from TGD-B, but generally allow greater flexibility in design, particularly in compartmentation and stair capacity.

The fire safety design is based on utilising the existing stairs for vertical escape and providing suitable life safety systems throughout to increase travel distance and omit lobbying to stairs. Smoke control provision in existing stairs will be via automatic opening vents at roof level achieved utilising rooflights.

The design includes an atrium which requires fire and smoke safety performance standards to be met by the rear façade of Nos 23-28, including the window openings. This requires enclosure of openings at second and third floors with smoke retarding construction (e.g. toughened glazing) as it is not possible to provide a smoke reservoir of equivalent volume above the top floor window head. Windows where openable onto the atrium will require to be on actuators. Actuators will be incorporated into the sash boxes. Windows

onto the stairs – which will provide vertical fire escape routes – will require fire rated screens. These will be fitted to the external face of the rear façade, thus avoiding interventions to the historic window surrounds, sashes and frames which are to be retained and repaired. Fire doors on automatic hold open systems connected to the fire safety system will maintain the fire protection standards and will be provided to the openings between the new building and the protected structures. In a small number of locations it is proposed to provide integrated fire curtains, including the large opening at basement level between the new building and the basements to Nos 25 and 26 and at the connections between the new building and No 27.

It is also necessary to improve the fire safety standard of the building incorporating improvement of the fire resistance of the building fabric; improvements to the fire protection of escape routes including upgrading of doors, lighting, services installation, signage, fire detection and alarm and other proprietary life safety systems. The upgrading of floors will use proprietary fire barrier systems that allow for the retention of historic ceilings. The installation of the necessary services associated with these life safety systems will be integrated within the vertical and horizontal services routes indicated on the drawings and in the Arup MEP workbook reports included in Appendix C.

In summary, the fire safety design strategy uses both active and passive fire prevention measures. The active systems such as fire detection and system will have physical visual manifestations, detectors, alarm, signage and lighting etc. with distribution such cabling/pipes concealed within the building fabric or floor voids. The fire safety installation will be integrated into the building in accordance with the general service installation strategy. The passive fire protection is an integral component of the components of structural fire protection and fire safety in the building through use of fire-resistant walls, floors, and doors etc. Where elements have insufficient fire resistance, proprietary upgrading system will be used, such as fire barriers concealed within floor voids, upgrade treatment system to doors etc. In most instances upgrading of building fabric, will be implemented in an unobtrusive non-noticeable manner, where this is not readily achievable, secondary elements such as independent fire rated glazed screens will be used. Interventions will in accordance with overall approach taken with alteration and intervention in the existing buildings.

7.5 Accessibility Strategy

A significant objective for the new library is to provide for universal design standards and to facilitate maximum accessibility to all people irrespective of ability, age, ethnicity, etc. Consultation has informed design approaches, priorities and solutions.

Everybody is different and there is no 'average' person. As a result universal accessibility will benefit all because people with long term or temporary disabilities, people of small or tall stature, older people, parents with buggies, delivery persons and so forth will have greater access to the built and external environments.

Accessibility of the built environment in Ireland for people with disabilities is controlled by Part M of the Building Regulations entitled "Access for People with Disabilities". The underlying philosophy of Part M is to ensure that as far as is reasonable and practicable, buildings should be usable by people with disabilities.

In developing detail design solutions regard, has been had to the heritage value of the buildings together with the requirements of Part M of the Building Regulations and the Disability Act 2005 DoAHG Advice Guide on Improving Accessibility to Historic Buildings and Places. I

The accessibility strategy is based on a best practice approach, drawing on up-to-date international best practice; guidelines and standards; guidance by the National Disability Authority where practicable; and extends beyond disability access matters to incorporate a universal design approach.

Principal design interventions to improve accessibility within the protected structures:

- Modify entrances at Nos 21 and 27 to provide principal accessible entrance for all. Alter existing ground floors to facilitate ramped entrances and access within Nos 21 and 27, including localised removal of basement vaulting in No 27
- 2. Provide new evacuation lift within the existing stairwell in No 26, requiring the removal of the existing 20th century terrazzo stairs and insertion of steel structure.
- 3. Forming new openings within party walls between houses and providing Part M compliant ramps to allow for universal access between the houses
- Localised raising of existing floor levels to assist in the overcoming of level differences between houses

- 5. New and enlarged openings in the rear facade to facilitate bridge links to connect the existing houses with the new rear library building.
- 6. Provision of new toilet, nursing and changing facilities within the protected structures.
- 7. Subject to future detail design and specification, finishes and wayfinding to meet universal design standards

In addition the design of the public realm has been developed in consideration of universal design and wayfinding principles.