Rick Mather Architects Honourable Society of Lincoln's Inn LINCOLN'S INN - GREAT HALL & LIBRARY

Q10 KERBS/EDGINGS/CHANNELS/PAVING ACCESSORIES

To be read with Preliminaries/General conditions and sections AA31 and AA90.

TYPES OF KERBS/EDGINGS/CHANNELS

- STONE CHANNELS, EDGINGS, KERBS 120
- **REV C4** Drawing reference: Architect's 17000 series drawings. Landscape Consultants drawings / . Standard: To BS EN 1343.
 - Supplier: Contractor's choice.

 - Types: To match existing granite edging and kerbs.
 - Tolerances on batter: N/A.
- Stone type: Granite. **REV C6**
 - Size (width x height): Varies. Wide, to match existing as Architect's 17000 series Landscape drawings.
 - Tolerances on overall width and height (nominal): Class 2.
 - Freeze/ Thaw resistance: No requirement.
 - Special shapes:
 - External radius kerbs.
 - _ Internal radius kerbs.
 - Transition kerbs.
 - Finish: Flamed or coarse textured.
 - Arrises: None.
 - Bedding: As drawings.
 - Joints generally: Narrow mortar to match existing.
 - Sealant movement joints: At 6m (maximum) centres.
 - Accessories: None.
- **REV C6** 121 NEW, EXISTING, AND RECLAIMED STONE/ GRANITE KERBS FOR ALL EXTERNAL AREAS: Note: All existing granite edging and kerbs to be re-used where possible. new additions to match existing, samples to be provided for approval in all instances channels, edges, kerbs
- Drawing reference: **REV C6** 597-17010 & Architect's 17000 series drawings. **REV C4**
 - Landscape Consultants drawings
 - Standard: To BS EN 1343.
 - Supplier: Contractor's choice.
 - Types: To match existing granite edging and kerbs.
 - Tolerances on batter: N/A.
 - Stone type: Granite.
- Size (width x height): Varies. Flush/ raised to match existing as Architect's 17000 series **REV C6** cape drawings. Lands
 - Tolerances on overall width and height (nominal): Class 2.
 - Freeze/ Thaw resistance: No requirement.
 - Special shapes:
 - External radius kerbs.
 - Internal radius kerbs.
 - Transition kerbs.
 - Finish: Flamed or coarse textured.
 - Arrises: To match existing.
 - Bedding: Cement mortar.
 - Joints generally: Narrow mortar or to match existing.
 - Sealant movement joints: Not required.
 - Accessories: Some kerbs/edging to be laid in conjunction with metal edging (as Q10/123).

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_		able Society of Lincoln's Inn	CONSTRUCTION SPECIFICATION		
	LINCO	LN'S INN - GREAT HALL & LIBRARY	02/02 2018 – C6		
	123	METAL EDGING:			
REV C4	-	Drawing reference:	Architect's 17000 series drawings for areas and extent and method of fixing. Landscape Consultants drawings		
	_	Supplier and reference:	Kinley Systems Ltd (01580 830688)		
	-	Supplier and reference.	http://kinleysystems.com		
			AluExcel - Aluminium Edge Restraint		
	-	Types: AE 150 FM and 150 RM	to work with granite edging kerbs in lawn areas.		
			as road jointing and above below-ground Library Extension slab.		
REV C6			E 75 (flush transition) to work with Yorkstone and bonded chippings.		
	- Finish and colour: Polyester powder coated - RAL colour to be confirmed.				
	175				
REV CO	5 175 DRAINAGE CHANNEL SYSTEM WITH LINEAR SLOT GRATING TO PAVED AREAS - EA TERRACE				
	-		597-17011, 17012, 4 1005 17100, 17101 & 51115.		
	1.1		rrace): ET-SD-01 (a, b & c), ET-SD-02 (a & b), ET-SD-03,		
		ET-SD-04, ET-SD-05, ET-SD-07			
	-		ACO Technologies Plc (01462 816666)		
			www.aco.co.uk		
		0	AS 1010 Brickslot Channel		
	-		Omm minimum depth with 105 mm grating depth to suit stone		
			e channel schedule 597-51115. at: 10 mm (heel-safe aperture).		
			n: Offset to drainage channel as Architect's details.		
	-	Finish/colour: Stainless steel (gr			
	-		all or channel set to falls as noted on drainage channel		
		schedule 597-51115.	Ŭ		
	-	Joints: As manufacturer's recom			
	-	Bedding: Concrete haunching/for			
	-	 Loading grade: C250 B125 to BS EN 124. Accessories: Inline or junction outfall units to suit drain connections, as Drainage Engineer's drawings. End caps to suit. Brickslot Access Unit (500 mm) - Stainless Steel to suit paving finish. Linear Slot Drain Access Panel/ Cover: 			
	-				
		 Manufacturer: ACO (as dr 			
		- Access Panel Chamber:			
			Omm typically. Refer to slot drain access panel schedule		
		51116 for individual siz			
		and slot drain access	e terrace build-up – refer to slot drain schedule 597-51115		
		- Finish/colour: Stainles			
			oncrete pads to suit as Q10/530.		
		- Access Panel Cover:			
			Omm typically. Refer to slot drain access panel schedule		
		51116 for individual size			
			fill: To be as adjacent paving surface, refer to 51116 and		
			11 & 17012. Note, depth of reclaimed stone infills to be		
		- Finish/colour: Stainles	surements. Note, paving infill is NOT slotted.		
		- Other Regs.:	a sicei (giaue Juy).		
			S/S) to form flush junction with adjacent paving.		
			s slot drain schedule 597-51115 and slot drain access panel		
		schedule 51116.			
		- Loading grade: B125 to B	S EN 124.		
	-	Other requirements:			
	ed at change of paving materials as drawings.				

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	Honour	urable Society of Lincoln's Inn CONSTRUCTION SPECIFIC/ DLN'S INN - GREAT HALL & LIBRARY 02/02 2011	
		- Channel throat to be located on paving joint line as per Architect's plans.	
REV C1	176	ACO CHANNEL DRAIN WITH GRATING TO WEST WALL OF SUBSTATION	
	-	Drawing reference: 597-15001, 15002, 41003.	
	-	Manufacturer and reference: ACO Technologies Plc (01462 816666)	
		www.aco.co.uk	
		MultiDrain - M100D \$	
REV C3	-	Size: 135 mm wide channel x 150mm depth with 21 mm grating depth. Gratings: Slotted galvanised steel (Product Codes 132885DL / 132886DL 12614/ 12615,	
REV C3	-	lengths to suit overall run as per Architects details.	1
	_	Type of fall: Pre sloped invert.	
REV C2	-		
		1. Endcap, closing piece	
		2. Endcap, inlet/ outlet	
		3. Sump Unit (Product Code 24410)	
	-	Joints: As manufacturer's recommendations.	
	-	Bedding: Concrete haunching/foundation to suit as Q10/530. Loading grade: C250 to BS EN 1433.	
	_		
REV C4	177	DRAINAGE CHANNEL SYSTEM WITH LINEAR SLOT TO SOUTHERN TERRACE	
	-	Location: Southern Terrace	
	-	Drawing references: 597-17060, 17061, 17360, 17361, and details 41005, 41023 & 41025	
	-	Manufacturer and reference: ACO Technologies Plc (01462 816666)	
		www.aco.co.uk AS 1010 Brickslot Channel	
		Size: 120 mm wide x 100mm deep (Min.) channel. Note: Depth of channel increases in	line
		with fall to channel as Architect's details.	inte
		- Width of slot/ channel throat: 10 mm (heel-safe aperture).	
		- Slot/ channel throat position: Central to drainage channel as Architect's details.	
	-	Finish/colour: Stainless steel (grade 304).	
	-	·) po or tani integral contacta can e integral and gradient	
		Accessories:	
		 Inline or junction outfall units to suit drain connections, as Drainage Engineer's drawings. 	
		2. End caps to suit.	
		3. Linear Slot Drain Access Panel:	
		- Manufacturer: ACO (as drainage channel)	
		- Access Panel Chamber:	
		- Size: 300 x 300mm. Depth to suit available terrace build-up –	
		refer to Architect's details.	
		 Finish/colour: Stainless steel (grade 304). Bedding: Hit-&-Miss concrete pads to suit as Q10/530. 	
		- Access Panel Cover:	
		- Size: To suit chamber below.	
		- Infill: Infill to be existing yorkstone as Q25/310C. Depth of stone to be confir	med
		on site	
		- Finish/colour: Stainless steel (grade 304).	
		- Other Reqs.: Finish Infill Tray (S/S) to form flush junction with adjacent paving.	
		 Drainage connections: Brickslot Channel to feed into access panel, drainage connection out of access panel to Drainage Engineer's design & specification. 	
		- Loading grade: B125 to BS EN 124.	
	_	Other requirements:	
		Observations of the base of a discretion is introduced and the second Architecture states	

- Channel throat to be located on paving joint line as per Architect's plans.

REV C4 178 SINGLE PLY MEMBRANE DRAINAGE GULLY ACCESS CHAMBER TO SOUTHERN TERRACE

597-6000-Q10

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- Manufacturer: ACO Technologies Plc (1462 66)

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- Size: 300 x 300mm, depth to suit available terrace build-up refer to Architect's details.
- Finish/colour: Stainless steel (grade 304).
- Bedding: Hit-&-Miss concrete pads to suit as Q10/530.
- Cover: Finish Infill Tray (S/S) to form flush junction with adjacent paving. Infill to be existing yorkstone as Q25/310C. Depth of stone to be confirmed on site.
- Base: Aperture in base to be formed to allow inspection of gulley in Single Ply Membrane below as per Architect's details.
- Drainage connections: Brickslot Channel to feed into access panel, drainage connection out of access panel to Drainage Engineer's design & specification.
- Loading grade: B125 to BS EN 124.

REV C5 179 DRAINAGE CHANNEL ACCESS CHAMBERS TO EAST TERRACE

Manufacturer: ACO Technologies Plc

(1463 66)

www.acó.co.uk

- Size: Varies 300 x 300mm typically. Refer to slot drain access panel schedule 51116 for individual sizes.
- Depth: To suit available terrace build-up refer to access panel schedule 597-51116.
- Finish/colour: Stainless steel (grade 304).
- Bedding: Hit-&-Miss concrete pads to suit as Q10/530.

- Access Panel Cover:

- Size: Varies 300 x 300mm typically. Refer to slot drain access panel schedule 51116 for individual sizes.
- Finish Infill Tray: Stainless steel (grade 304). Tray to form flush junction with adjacent paving.
- Paving Infill: To be as adjacent paving surface, refer to 51116 and paving layouts 597-17011 & 17012. Note, depth of reclaimed stone infills to be confirmed by site measurements. Note, paving to be slotted to provide overflow function and visual indication of a blockage within the chamber.
- Drainage connections: As access panel schedule 15116.
- Loading grade: B125 to BS EN 124.
- Other requirements:
 - Setting out of access panels to be either centered on a given paving stone, or centrally aligned to one of the edges of a given paving stone unless noted otherwise. Refer to 597-17011 & 17012.

REV C5 180 GREAT HALL DOWNPIPE ACCESS CHAMBERS TO EAST TERRACE

Manufacturer: ACO Technologies Plc

(1464 66)

www.aco.co.uk

- Size: 400 x 200mm, refer to slot drain access panel schedule.
- Depth: To suit available terrace build-up refer to access panel schedule 597-51116.
- Finish/colour: Stainless steel (grade 304).
- Bedding: Hit-&-Miss concrete pads to suit as Q10/530.
- Access Panel Covers:
 - Size: 200 x 200mm, refer to slot drain access panel schedule 51116.
 - Finish Infill Tray: Stainless steel (grade 304). Tray to form flush junction with adjacent paving.
 - Paving Infill: To be as adjacent paving surface, refer to 51116 and paving layouts 597-17011 & 17012. Note, depth of reclaimed stone infills to be confirmed by site measurements.
 - NOTE: Two infill panels are required per chamber,

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- One with a solid paving infill with a single hole to accept the Great Hall downpipe (to be measured on site)
- One with a slotted paving infill to provide overflow function and visual indication of a blockage within the chamber.
- Drainage connections: As access panel schedule 15116.
- Loading grade: B125 to BS EN 124.
- Other requirements:
 - Setting out of access panels to suit position of existing downpipes, refer to Architect's details and 597-17011 & 17012.

REV C6 185 DRAINAGE CHANNEL SYSTEM WITH LINEAR SLOT TO LIBRARY THRESHOLDS

- Location: Library Extension
- Drawing references: 597-17250, 597-17013 and details 597-41206, 597-41231, 597-41261, and Schedules: 597-51115, 597-51116
- Slot Drain References: LE-SD-02-A, LE-SD-06A
- Manufacturer and reference: ACO Technologies Plc (01462 816666)
 - www.aco.co.uk

MultiDrain M100DS Brickslot Channel

- Size: 135mm wide x 200mm deep overall
- Width of slot/ channel throat: 10mm (heel-safe aperture)
- Grating: Stainless steel Brickslot grating in lengths to suit drawings.
- Loading grade: C250 to BS EN 1433
- Joints: as manufacturer's recommendations.
- Bedding: Concrete haunching / foundation to suit as Q10/530. Refer to details and manufacturers recomendations.
- Other Requirements:
 - Stainless steel edge rails
 - Integral sloping invert fall, see drawings / schedule.
 - Stainless steel brickslot access cover: 500(I)x123(w)x105(d) on 0.5m constant depth M100DS unit, with closing end cap to enable pipe connection into access chamber / drainage run, see drawings.
 - Finish infill tray with Yorkstone as Q25/310A, finished flush with adjacent paving.
 - Channel throat to be located on paving joint line as per Architect's plans

REV C6 186 DRAINAGE CHANNEL SYSTEM WITH LINEAR SLOT TO LIBRARY LANDSCAPE

- Location: Library Extension
- Drawing references: 597-17250, 597-17013, 597-17014 and details and Schedules: 597-51115, 597-51116
- Slot Drain References: LE-SD-09-A, LE-SD-09B
 - Manufacturer and reference: ACO Technologies Plc (01462 816666)

www.aco.co.uk

MultiDrain M100DS Brickslot Channel

- Size: 135mm wide x 200mm deep overall
- Width of slot/ channel throat: 10mm (heel-safe aperture)
- Grating: Stainless steel Brickslot grating in lengths to suit drawings.
- Loading grade: D400 to BS EN 1433
- Joints: as manufacturer's recommendations.
- Bedding: Concrete haunching / foundation to suit as Q10/530. Refer to details and manufacturers recommendations.
 - i. Slot drain to be bed against granite edge. Refer to Landscape details.
- Other Requirements:
 - Stainless steel edge rails
 - Integral sloping invert fall & constant depth, see drawings / schedule.

	rable Society of Lincoln's Inn LN'S INN - GREAT HALL & LIBRARY	CONSTRUCTION SPECIFICATION 02/02 2018 – C6			
LINCO					
	 Stainless steel brickslot access cover: 500(l)x123 unit, with closing end cap to enable pipe connection drawings. 				
	 Finish infill tray with Bonded Chippings landscaping. 	as Q23/181, finished flush with adjacent			
	- Channel throat to be located on granite joint line a	as per Architect's plans			
EV C6 188	DRAINAGE CHANNEL ACCESS CHAMBERS TO L Location: Library Extension	IBRARY EXTENSION			
-	Drawing references: 597-17250, and Schedules: 597	-51116 and 597-51115			
-	Manufacturer and reference: ACO Technologies I www.aco.co.uk				
-	Size: Varies - 300 x 300mm typically. Refer to slot dr. 51116 for individual sizes.	ain access panel schedule			
-	Depth: To suit available terrace build-up – refer to acc Finish/colour: Stainless steel (grade 304).	cess panel schedule 597-51116.			
-	Bedding: Encased in concrete, refer to drawings.				

Access Panel Cover:

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- Size: Varies 300 x 300mm typically. Refer to slot drain access panel schedule 51116 for individual sizes.
- Finish Infill Tray: Stainless steel (grade 304). Tray to form flush junction with adjacent paving.
- Paving Infill: To be as adjacent paving surface, refer to 51116 and paving layouts 597-17013 & 17014. Note, paving to be slotted to provide overflow function and visual indication of a blockage within the chamber.
- Drainage connections: As access panel schedule 15116.
- Loading grade: B125 to BS EN 124.
- Other requirements:
 - Refer to 17250 for setting out of access panels.

EXISTING LIBRARY DOWNPIPE ACCESS CHAMBERS TO LIBRARY EXTENSION REV C6 189

Location: Library Extension

- Drawing references: 597-17250, and details 597-40222, 597-41258, 597-41251, 597-41252, and Schedules: 597-51115, and 597-51116
- Manufacturer and reference: ACO Technologies Plc (01462 816666)

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- Size: Varies 510x375mm & 575x165mm. Refer to slot drain access panel schedule 51116 for individual sizes.
- Depth: To suit available lightwell build-up refer to access panel schedule 597-51116, and details.
- Chamber to be fixed to lightwell infill roof structure, as H71/255
- Finish/colour: Stainless steel (grade 304).
- Access Panel Covers:
 - Size: 365x155, refer to slot drain access panel schedule 51116.
 - Infill Tray: Stainless steel (grade 304).
- NOTE: Two infill panels are required per chamber;
 - One with a solid lead infill as H71/255 with one or two holes to accept the existing Library lead downpipe(s) (to be measured on site)
 - One with a slotted stainless steel; infill to provide overflow function and visual indication of a blockage within the chamber.
- Drainage connections: As access panel schedule 15116.
- Loading grade: B125 to BS EN 124.
- Other requirements:

Setting out of access panels to suit position of existing downpipes, refer to Architect's details and 597-17013 & 17014

250 MATERIAL SAMPLES

- Samples representative of colour and appearance of designated materials: Submit before placing orders.
- Designated materials: all products to be used.

ROADS/PAVING ACCESSORIES/MARKING/DEMARCATION

- 415 DEMARCATION UNITS TO DISABLED PARKING BAYS IN NEW SQUARE AND GARDEN FRONT
 - Manufacturer: Contractor's choice.
 - Product reference: Demarcation studs to match existing.
 - Material/ Standard: Steel.
 - Recycled content: Contractor's choice.
 - Shape: Circular.
 - Size (width x height x length): To match existing.
 - Finish: to match existing.
 - Colour: to match existing.
 - Bedding: fixed in ground using resin -to manufacturers recommendations.
 - Joints generally: N/A.
 - Sealant movement joints: N/A.

LAYING

- 510 LAYING KERBS, EDGINGS AND CHANNELS
 - Cutting: Neat, accurate and without spalling. Form neat junctions.
 - Long units (450 mm and over) minimum length after cutting: 300 mm.
 - Short units minimum length after cutting: The lower of one third of their original length or 50 mm.
 - Bedding of units: Positioned true to line and levelled along top and front faces, in a mortar bed on accurately cast foundations or on a race of fresh concrete.
 - Securing of units: After bedding has set, secured with a continuous haunching of concrete or on a race of fresh concrete with backing concrete cast monolithically.
- 520 ADVERSE WEATHER
 - Conditions: Do not construct if the temperature is below 3°C on a falling thermometer or 1°C on a rising thermometer. Adequately protect foundations, bedding and haunching against frost and rapid drying by sun and wind.
- 530 CONCRETE FOR FOUNDATIONS, RACES AND HAUNCHING
 - Standard: To BS 8500-2.
 - Designated mix: Not less than GEN0 or Standard mix ST1.
 - Workability: Very low.

540 CEMENT MORTAR BEDDING

- General: To section Z21.
 - Mix (Portland cement:sand): 1:3.
 - Portland cement: Class CEM I 42.5 to BS EN 197-1.
 - Sand: to BS EN 12620, grade 0/4 or 0/2 (MP).
- Bed thickness: 12-40 mm.
- 570 CHANNELS
 - Installation: To an even gradient, without ponding or backfall.
 - Lowest points of channels: 6 mm above drainage outlets.
- 580 DRAINAGE CHANNEL SYSTEMS

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- Installation: To an even gradient, without ponding or backfall. Commence laying from outlets.
 - Silt and debris: Removed from entire system immediately before handover.
- Washing and detritus: Safely disposed without discharging into sewers or watercourses.

590 DRAINAGE CHANNEL SYSTEMS WITH BUILT IN FALL

- Installation: Top of channels level, installed in correct sequence to form an even gradient without ponding or backfall. Commence laying from outlets.
- Silt and debris: Removed from entire system immediately before handover.
- Washings and detritus: Safely disposed without discharging into sewers or watercourses.

600 RADIUS KERBS/ CHANNELS

- Usage: Radii of 15 m or less.

610 ANGLE KERBS

- Usage: Internal and external 90° changes of direction.
- Cutting of mitres: Not permitted.

620 ACCURACY

- Deviations (maximum):
- Level: ± 6 mm.
- Horizontal and vertical alignment: 3 mm in 3 m.

625 REGULARITY OF PAVED SURFACES

- Maximum undulation of (non-tactile) paving surface: 3 mm.
 - Method of measurement: Under a 1 m straight edge placed anywhere on the surface (where appropriate in relation to the geometry of the surface).
- Difference in level between adjacent units (maximum):
- Joints flush with the surface: Twice the joint width (with 5 mm max difference in level).
 - Recessed, filled joints: 2 mm.
 - Recess depth (maximum): 5 mm.
 - Unfilled joints: 2 mm.
- Sudden irregularities: Not permitted.

630 NARROW MORTAR JOINTS

- Jointing: Ends of units buttered with bedding mortar as laying proceeds. Joints completely filled, tightly butted and surplus mortar removed immediately.
 - Joint width: 6 mm.

640 TOOLED MORTAR JOINTS

- Jointing: Ends of units buttered with bedding mortar as laying proceeds. Joints completely filled and tooled to a neat flush profile.
 - Joint width: 6 mm.

650 SEALANT MOVEMENT JOINTS:

- Joint filler: Compressible cellular rubber or plastics compatible with specified sealant.
- Filler installation: Build in as work proceeds, extending through haunching and foundation.
- Position filler accurately to fully support sealant at the recommended depth below exposed faces of units.
- Joint width 10 mm.
 - Sealant: Adshead Ratcliffe & Co Ltd (01773 826661) http://www.arbo.co.uk Arbokol AK2

Colour: Grey.

- Sealant application: As section Z22.