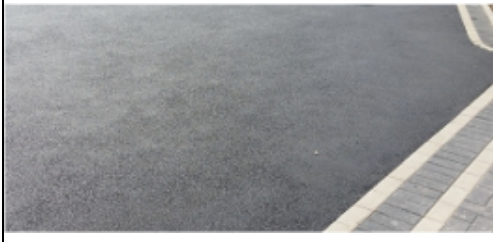

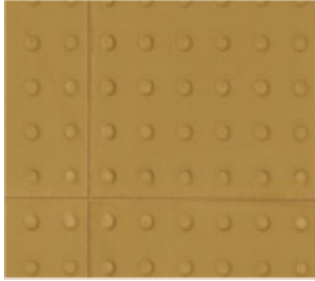





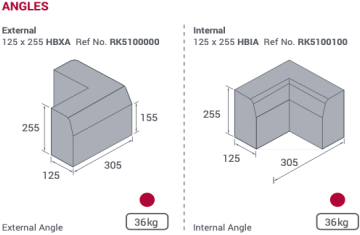
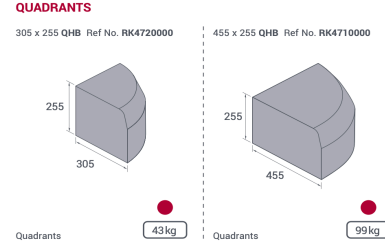
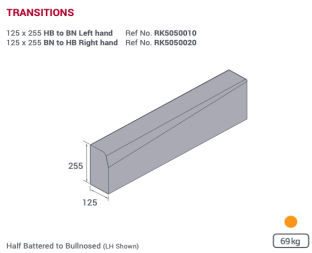
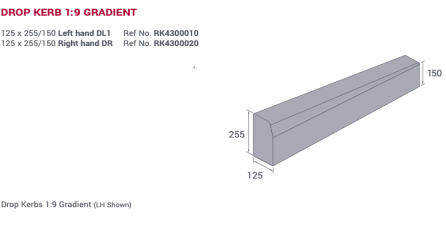




EXTERNAL MATERIALS SCHEDULE:






CAT.	REFERENCE	TYPE/ FINISH	LOCATION	SUPPLIER	PRODUCT REF	DESCRIPTION	LINK	IMAGE
SURFACING	P1	Pedestrian Asphalt to all pedestrian footpath/ S278 works	Standard Pedestrian Asphalt Surfacing. Buildup: (to infrequent light vehicle load standard) 25mm AC6surface over 60mm AC20binder above 150mm Type1 sub-base- To Engineers Specifications. (above 215mm capping)	Contractors Proposals- Standard Blacktop Asphalt- laid to falls away from building.	N/A	To include precast 50mm width pin kerb edging to soft landscape and interfaces/ junctions and 125mm width HB2 road kerbs to roadside edges (with dropper kerbs)		
	T1	Tarmac Vehicle grade to car park	Standard Vehicular Asphalt Surfacing. Buildup: (to heavy vehicle loading standards) 30mm AC10 surface, over 60mm AC20 Binder above 100mm AC32 base course above 400mm Type1 Sub-base. To Engineers Specifications.	Contractors Proposals- Standard Blacktop Asphalt- laid to falls away from building and to car park drainage	N/A	To include precast 125mm width HB2 road kerbs and pin kerbs as shown on Hardworks drawing and combined drainage kerbs (with associated radius' and dropper kerbs at crossing points). And thermoplastic line markings to car park bays and traffic marking necessary.		
	H	Blister / Tactile Paving	Crossing points	Marshalls or similar approved	Tactile Blister Paving Colour - Buff	Size: 400mmx400mmx50mm+5mm	https://www.marshalls.co.uk/commercial/product/tactile-blister-paving	
	HZ	Corduroy Hazard warning	Top Stairs and bottom of stairs	Marshalls or similar approved	Hazard Warning Corduroy, colour Charcoal	Size: 400mmx400mmx50mm+5mm	https://www.marshalls.co.uk/landscaping/commercial-paving/products/tactile-hazard-warning-paving	
	CSP	Concrete Slab Paving	Pedestrian area	Marshalls or similar approved	Standard Pimple paving, Colour -Natural	Size - 450 x 450x 50mm,	https://www.marshalls.co.uk/commercial/product/standard-pimple-paving	
	GR	Gravel	As shown in Landscape hardworks 1004 drawing	Contractor's choice	Submit proposals	Decorative Gravel-Crushed angular, Yorkshire Cream gravel 20mm size	Contractor's choice	




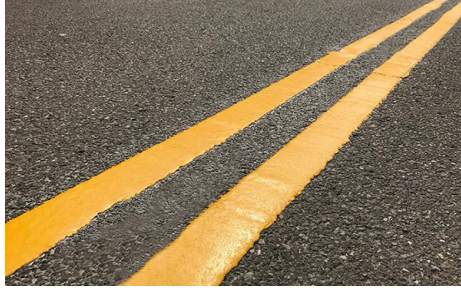
CAT.	REFERENCE	TYPE/ FINISH	LOCATION	SUPPLIER	PRODUCT REF	DESCRIPTION	LINK	IMAGE
	ST	Concrete Stairs with handrails	In-situ concrete stair	To Engineer design and specifications	To Engineer design and specifications	High contrast visibility strips to nosing of each step in accordance with Approved Document M and BS 8300-2:2018 Structure To Engineer design and specifications. Hazard warning corduroy paving to top and bottom as detail drawing 7007	Contractor's choice	
	C	Concrete slab finish	Jet wash area & Bin store	Contractor's choice	structure and loading To engineers detail	Trowel edges and brushed finish	Contractor's choice	
KERBING AND EDGING	A	Angles	90 degree joints in kerbs	Marshalls or similar approved	Finish: As cast Colour: Grey- Suitable to be used with HB2 kerbs	LH / RH as applicable 125x 255x 305mm		<p>ANGLES</p> <p>External 125 x 255 HBXA Ref No. RK5100000</p> <p>Internal 125 x 255 HBIA Ref No. RK5100100</p> 
	Q1 & Q2	Quadrants	Curved radius corners and edges, Radar kerbed island to gates	Marshalls or similar approved	Finish: As cast Colour: Grey, Suitable to be used with HB2 kerbs	Q1-305 x255mm & Q2- 455x 255mm		<p>QUADRANTS</p> <p>305 x 255 QHB Ref No. RK4720000</p> <p>455 x 255 QHB Ref No. RK4710000</p> 
	DK/TK	Dropped and transition kerbs	As shown in Landscape hardworks 1004 drawing	Marshalls or similar approved	Finish: As cast Colour: Grey, Suitable to be used with HB2 kerbs	LH / RH as applicable 125x 255x 150mm		<p>TRANSITIONS</p> <p>125 x 255 HB to BN Left hand Ref No. RK5050010 125 x 255 BN to HB Right hand Ref No. RK5050020</p>  <p>DROP KERB 1:9 GRADIENT</p> <p>125 x 255/150 Left hand DL1 Ref No. RK4300010 125 x 255/150 Right hand DR Ref No. RK4300020</p> 
	PK	Precast concrete edging Laid flush	Proprietary precast concrete edging to surface transition and pedestrian areas	Contractor's choice	Finish: As cast Colour: Grey	50 x 914 x 150mm	https://www.marshalls.co.uk/landscaping/kerb/products/standard-channel-and-edgings	
	BSK, DK	HB2 Kerb, half battered,	Proprietary precast concrete kerbs to macadam road and pavement areas	Marshalls or similar approved	Finish: As cast Colour: Grey	Standard: To BS EN 1340 Size (width x height x length): HB2 Kerb (ref. as K1): 125 x 255 x 915 mm Special shapes: Dropper Kerbs - HBIA 125 mm width x 255mm/150mm height left hand Ref No. RK4350010 Dropper Kerbs - HBIA 125 mm width x 255mm/150mm height right hand Ref No. RK4350020 Centre Kerb - HBXA 125mm	https://media.marshalls.co.uk/image/upload/v1518179477/Marshalls-PS-40--Kerb-9601.pdf	

CAT.	REFERENCE	TYPE/ FINISH	LOCATION	SUPPLIER	PRODUCT REF	DESCRIPTION	LINK	IMAGE
	TF	Trief kerb	As shown in Landscape hardworks 1004 drawing	To BWB Engineers Specification and detail	To BWB Engineers Specification and detail	To BWB Engineers Specification and detail	To BWB Engineers Specification and detail	
FENCING, GUARDING AND BOUNDARY TREATMENT	B1	HVM Crash tested Static Bollard 7.5 tonnes at 50mph	Building perimeter	frontierpitts or similar approved	PAS 68 Static Terra Jupiter Bollards or similar approved- to engineer's specification and detail	To engineer's specification and detail	https://www.frontierpitts.com/products/bollards/hvm-static-bollards/pas68-jupiter-7550/	
	B2	HVM Crash tested Rising Bollard 7.5 tonnes at 50mph	Side entrance Pedestrian gate	frontierpitts or similar	Rising PAS 68 Terra Saturn Bollard or similar approved-	To engineer's specification and detail	https://www.frontierpitts.com/products/bollards/hvm-rising-bollards/pas68-rising-bollard-7550/	

CAT.	REFERENCE	TYPE/ FINISH	LOCATION	SUPPLIER	PRODUCT REF	DESCRIPTION	LINK	IMAGE
	B3	HVM Crash tested Static Bollard 7.5tonnes at 30mph	Building perimeter	frontierpitts or similar approved	PAS 68 Static Terra Venus Bollards or similar approved- to engineer's specification and detail	To engineer's specification and detail	https://www.frontierpitts.com/products/bollards/hvm-static-bollards/pas68-jupiter-7550/	
	B4	HVM Crash tested Static Bollard 7.5tonnes at 40mph	Building perimeter	frontierpitts or similar approved	PAS 68 Static Terra Mars Bollards or similar approved- to engineer's specification and detail	To engineer's specification and detail	https://www.frontierpitts.com/products/bollards/hvm-static-bollards/pas68-jupiter-7550/	
	F1	LPS 1175 Secure SR3 rated Fence line mesh to be installed on top of the Existing wall where applicable	Boundary Treatment	Jackson's Fencing or Similar approved	UHS Extreme Mesh (SR3) Security Rated Fencing Height overall 3m high, where applicable to be fixed on top of existing boundary perimeter wall or use or cranked post foundation to manufacturer specifications	Mesh:- Secruifor 358 as basic standard Where vulnerable areas require enhanced anti-climb or security treatment1. Securifor 2D or2. Securifor 358 Double Skin 3. or similar approved - design to meet or exceed BS 1722 Part 14All mesh to be CCTV friendly Posts. LPS 1175 & CPNI approved standard. Set with minimum 1/3rd planted root or greater where necessary to achieve adequate support set in mass concrete not less than GEN1 or ST2 in accordance with BS 8500-1 Finish Finish: all components galvanised to BS EN 1461 with PPC RAL finish to BS 6496 Cranked posts to be utilised where fence foundations are within 300mm of adjacent structures or site boundaries	https://www.jacksons-security.co.uk/sr3-fencing-systems/uhs-extreme-mesh-sr3-fencing	

CAT.	REFERENCE	TYPE/ FINISH	LOCATION	SUPPLIER	PRODUCT REF	DESCRIPTION	LINK	IMAGE
	G1	Pedestrian Gate	Building perimeter Pedestrian gate	Jackson's Fencing or Similar approved	UHS Extreme Mesh SR3 Height 3m to match fence F1. 1.2m wide single leaf. Overall to line through with fence to maintain perimeter security - over panel may be required	<p>LPS 1175 SR3 Approved</p> <ul style="list-style-type: none"> Secured by Design Preferred Specification Double skinned - providing a high level of security <ul style="list-style-type: none"> Designed to be used in high security applications <ul style="list-style-type: none"> Anti-climb design Stainless steel fixings are to be powder coated the same colour as the fence. Double 50 x 30mm mesh - creating a smaller aperture FINISHES <ul style="list-style-type: none"> Hot dip galvanised to BS EN ISO 1461 as standard Hot dip galvanised and powder coated to BS EN 13438 Marine coat for installations within 500m of salt water or an estuary POST OPTIONS <ul style="list-style-type: none"> Over length set in concrete as standard Base plated to bolt down onto concrete <p>GATES Matching single leaf gates available JSW 123 Issue 05</p>	https://www.jacksons-security.co.uk/sr3-fencing-systems/uhs-extreme-mesh-sr3-fencing	
	G2	Rising Arm Barrier with traffic lights	Both Site Entrances	Frontierpitts or Similar approved	Terra ultimate (4500mm aperture gate)7.5 tonnes @50mph	To specialist designer specification. Right or left hand opening as per Landscape GAs. To include access controls to both sides to suit ERs.	https://www.frontierpitts.com/products/barriers/hvm-barriers/pas68-ultimate-7550/	
	EL/EV	Protective barrier to EV charger and Light post	Car Park Light post and EV charger	Broxap or similar approved	Electric Vehicle Charger and Lamp Post Protector- BX14 6615.440-EV-RT, Galvanised finish, root fixed	High-quality mild steel hoop, to be 800mm high max from ground and positioned as shown on GA drawings	https://www.broxap.com/ev-charger-and-lamp-post-protector.html	

CAT.	REFERENCE	TYPE/ FINISH	LOCATION	SUPPLIER	PRODUCT REF	DESCRIPTION	LINK	IMAGE
	R	Handrails	Handrails to both side of steps	Contractor Proposal.	Galvanised Balustrade and handrail	Handrails 1000mm above pitch line. 50mm diameter round hollow section rail, galvanised mild steel, epoxy coated in Anthracite, RAL 7016. Foundations to engineers design and specification. . Root fixed stainless steel balustrade system to engineers design and specification.	Contractor Proposal.	
STREET FURNITURE	BS	Bin storage	Bin storage	Falco	FalcoLok-300 Commercial Bin Store.Manufacture's specifications	Manuel locking, double leaf gates, integrated slam plates and drop bolts. Treated hardwood timber vertical slats in hit and miss arrangement. To manufacturer detail.	https://www.falco.co.uk/products/shelters-canopies-and-walkways/storage-shelters/falcolok-300-storage-shelter.html	
	CS	Cycle Shelter with stands for staff	Site Entrance	Broxap or similar approved	2 x 3600mm Wardale shelter with Sheffield cycle stands at 900mm spacing between stands BXMW/GS/SHEFFIELD-STAND. 4 stands in each	4 stands in each,16 Bike Space, 'Sold Secure SS104 Bronze''	https://www.broxap.com/wardale-cycle-shelter.html?opt_3630=20172	
	MS	Motorcycle Shelter for staff (no stands required)	Site Entrance from Lower William Street	Broxap or similar approved	1 x 3600mm and 1x 4100mm Wardale shelter	No cycle stands required- 5 Motorcycles space	https://www.broxap.com/wardale-cycle-shelter.html?opt_3630=20172	
	BS	Sheffield Cycle Stands (visitors)	Near the bin storage	Broxap or similar approved	Contractor's choice	2 Nos. 'Sold secure SS104 Silver' rated - Galvanised steel, root fixed to concrete base- 800 x 715mm Underground Fix Galvanised finish to BS EN ISO 1461 Standards Mild steel construction	https://www.broxap.com/sheffield-cycle-stand.html	

CAT.	REFERENCE	TYPE/ FINISH	LOCATION	SUPPLIER	PRODUCT REF	DESCRIPTION	LINK	IMAGE
	WS	Rubber Parking Stop	To PSU Parking	streetsolutionsuk or similar approved	Contractor's choice	Heavy Duty 1800mm Wheel Stop	Contractor's choice	
	GU	Door Guard	To all the external doors	barriersdirect or similar	Contractor's choice	To manufacture's specification and detail	https://www.barriersdirect.co.uk/barriers-c1157/hoop-barriers-c1012/commercial-door-stops-galvanised-or-stainless-steel-protection-from-swinging-doors-p26893?shopping&ppc_keyword=&gad_source=1&gclid=CjwKCAiAhP67BhAVEiwA2E_9g8RhhnbW_A40UihgId-X9aXzODYOAmvYoibjT2K6kKUZVavFV7BoCNEYQAvD_BwE	
	Ac	Aco channel drain	Bin storage & Refer Drainage Engineer Plan	ACO MultiDrainchannels Refer Drainage Engineer Plan	Contractor's choice	Aco MultiDrain Heelguard Mesh Length 1m Width 123. Finish Galvanised steel-Refer to Engineer specification for connection to gully and manholes	https://www.aco.co.uk/products/multidrain-md	
		Traffic line Marking	Parking bays and traffic flow	Line way UK or similar approved	White marking thermoplastic paint	<p>Thermoplastic Road Markings Specification: All thermoplastic markings to comply with BS EN 1871. Retroreflectivity and colour performance to comply with BS EN 1436.</p> <p>White markings: BS 381C 355. Minimum thickness: 3 mm (±10%), with drop-on glass beads applied while hot. Surface to be dry, clean, and primed where required.</p> <p>Do not apply if surface/air temperature is below 5°C or in damp conditions. Skid resistance ≥ 45 SRV.</p> <p>Apply in accordance with SHW Clause 1212. All materials to be UKCA/CE marked.</p>	https://www.linewayuk.com/product-page/lineway-uk-mma-spray-kit-mma-1-x-25-kgs-and-beads-2-x-20-kgs	

CAT.	REFERENCE	TYPE/ FINISH	LOCATION	SUPPLIER	PRODUCT REF	DESCRIPTION	LINK	IMAGE
		EV logo	EV bay logo, to be marked centrally	Startsafety or similar approved	S65 Electric Car Charging Marking	S65 Electric Car Charging Marking -RAL 5015	https://startsafety.uk/products/s65-electric-vehicle-recharging-point-marking?srsId=AfmBOogC47lCx7ACThpvW_Ssh91_vAqJRe_iagtX3M_kT-02jdNgIY8WQ&option_values=9980227060085%2C9980227158389	