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	SECTION C8 - SPRINKLER INSTALLATION		
	MASTER SPECIFICATION & SCHEDULE OF WORKS		
	For NELSON COURT DRAKE COURT, GRENVILLE COURT AND RODNEY COURT		
	PROJECT ADMIRAL		
	total collection		



	SECTION C – SPRINKLER INSTALLATION	
GENER/	AL NOTES	
A	This schedule of works is to be read in conjunction with all drawings, the Preliminaries located in Section A, Specification Preamble located in Section B and drawings as listed in drawing schedulet.	
В	The work items in this schedule may refer to specification and drawing references. The relevant specification clauses and drawings are deemed to apply whether there is specific reference or not.	
С	Any inconsistencies or contradictions between the specification, schedules or drawings are to be brought to the attention of the Contract Administrator immediately. No work should be carried out until instructions giving clarification are provided.	
D	The Contractor is to be responsible for the programming, sequencing and integration of work to ensure proper execution of the works.	
E	The Contractor is to allow for all making good required as a consequence of the work and removal of all waste and debris from site as work proceeds.	
F	The contractor will be deemed to have included in each item for all work necessary to complete that item of work whether fully described within the item or not.	
G	The Contractor is to allow for all necessary support, protection, plant, equipment and scaffold required for the proper execution of the works.	
Н	Where the Contractor is required to carry out design work or commission specialists, the completed designs / proposals are to be provided for approval by the CA before any placing of orders with suppliers.	
I	The Contractor is to ensure that all works are carried out in accordance with current legislation, regulations and British Standards including but not limited to BS 9251, Building Regulations, IEE Electrical Regulations, and Construction (Design and Management) Regulations etc.	
J	All works are to be carried out by persons qualified to do so. Electrical works are to be carried out by NICEIC Approved Installers to Part P of the Building Regulations and IEE 17th Edition wiring regulations (BS7671). <u>All design and installation</u> works on sprinkler systems are to be undertaken by UKAS certified 3 <sup>rd</sup> party approved designers/installers (i.e. FIRAS).	



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1.0	POTABLE WATER SYSTEMS AS EXISTING		
	The <b>potable water systems</b> as existing in all blocks are mains boosted and all have had new pumps installed recently.		
	New systems		
	The new sprinkler systems that are to be designed and installed (in all blocks) are to be independent of these potable system and are to include new suitably sized holding tanks and automatic pump sets. New risers will need to be installed in each building all in accordance with BS9251. On pricing this specification and submitting the tender, the contractor will have reviewed the system as existing and will have allowed for all necessary inclusions contained with hereunder. This may include, but is not limited to, ensuring there are suitable connection points for any appropriate tees to feed the new sprinkler tanks to meet the requirements of BS9251.		
	The above is to outline the existing systems and to identify the proposed new sprinkler systems		
2.0	DESIGN		
	The contractor (or engaged qualified sprinkler specialist) is to design new sprinkler systems to Nelson Court. This design (as well as the install – see 3.0) is to be undertaken by a UKAS accredited 3 <sup>rd</sup> Party approved designer/installer, details of accreditation are to be provided with the tender submission (PQQ Q1).		
	The contractor is to price here for all design work. The design should be based on the following specification and design standards;		
	<ul> <li>BS9251:2014 – Residential Sprinkler Code of Practice</li> <li>BAFSA Technical Note 1 Design and Installation of Residential. Sprinkler Systems Revision 1: June 2008</li> </ul>		
	The systems are to be designed as Residential Classification 3 System as defined in BS 9251:2014.		
	Ground Floor		
	Contractors are to include for protection to all areas of the ground floor including refuse stores, disabled WC's, warden's offices and communal lounges. The electrical rooms do not need protection and for clarification these rooms have been shown in red hatching on the existing floor plans.		
	Contractors are to design the system identifying a suitable location to position the new sprinkler holding tanks and pump sets to be designed and installed as part of this contract.		
	total collection		



	£	F
The fire pump will be a self-contained unit, skid mounted incorporating all associated controls, devices and pipework all pre-wired and commissioned prior to delivery to site.		
The pump set will automatically operate a self-test cycle at pre-set intervals (there should also be a manual test option for annual testing and other tests etc.). If the test fails then an audible alarm will sound and will be indicated on the remote alarm panel (see 5.0).		
Tanks are to be sized to cater for a run time of 30 minutes; all calculations are to be provided prior to commencement on site.		
Contractors are to install a new connection to an incoming water main to feed these tanks. This connection should have a non-return valve installed as near to the main as possible in compliance with the legionella regulations. An isolation valve should also be installed.		
A sprinkler control valve unit comprising of isolation valve, non-return valve, flow switch, pressure gauge and drain valve will be installed on this level. The flow switch is to be wired back to a control panel for indication of sprinkler activation (see 5.0). All cold areas such as bin store plant rooms and areas that are exposed to freezing conditions will be trace heated and insulated with mineral wool sections and if external will be cladded with aluminium cladding. In communal areas where possible all pipework is to be concealed within existing boxing (see also 4.0). Drawings showing pipe routes and tank/pump locations are to be provided prior to commencement and contractors are to ensure existing boxing is utilised. All designs will be reviewed on site where the client is to sign off proposed routes.		
Flats (other floors)		
The distribution pipework would commence from the new tank / pumps and up within the riser/agreed location to each floor. From this point, contractors are to install a sprinkler control valve unit comprising of isolation valve, non-return valve, flow switch, pressure gauge and drain valve. Where contractor's designs identify pressures that may exceed 6bar, pressure relief valves are also to be included (this includes the ground floor). Protection should then be provided to all communal areas, including cut off sprinklers to stairwells.		
The sprinkler pipework should then enter each dwelling where a lockable stop valve is to be installed and secured open this will allow the sprinkler system to be isolated to the individual flat if required for decorating or refurbishment requirements. Contractors are also to include for protection to any refuse chute rooms.		



	All designs (including pipe work run drawings) are to be submitted for comments prior to commencement on site. Each block is to be installed with a fire brigade breaching inlet connection in case of total pump failure, so that the fire brigade can pump water directly into the sprinkler system if required.	£	р
	The installation pipework and fittings are to be priced using Blaze Master CPVC which is an approved product for fire sprinkler installations and should be installed in accordance with the manufactures design guide by qualified operatives.		
	Exposed sprinkler heads to be priced as Viking VK460 complete with white two-piece rosette. All sprinkler heads will be designed and installed in accordance with the Manufacturers Technical Data Sheet, and in accordance with BS9251:2014.		
	Pumps and tanks are contractor choice but should be approved and compliant to BS9251:2014. Tanks (and systems complete) are to be insulated, tested and commissioned in line with the Legionnaires' disease - the control of legionella bacteria in water systems Approved Code of Practice and guidance (L8).		
3.0	INSTALL		
	The contractor is to price here for the install only of the new sprinkler systems following all design works. In pricing this item and submitting this tender the contractor will have read Section A - Preliminaries and Contract Conditions and Section B – Preambles, reviewed the drawings and have undertaken site visits.		
	All works for the install of the system are to be included and additional claims arising from having not reviewed the tender documents in detail and having not carried out sufficient site surveys will not be entertained.		
4.0	BOXING IN / MAKING GOOD		
	It has been ascertained in 2.0 that pipework is to be hidden (where possible) in <u>existing</u> boxing in communal areas. In many areas this boxing has recently been made good and it is the contractor's responsibility to ensure that this boxing is carefully removed and reinstated in full accordance with The Regulatory Reform Fire Safety Order 2005 and all relevant Building Regulations.		
	Due to the construction (and to limit disturbance to residents), all pipework and sprinklers within residents flats are to be surface mounted and will be required to be boxed in <u>after</u> full testing / commissioning. Within flats contractors are to price here to provide and install Talon Single Pipe Cover to all surface mounted pipework. Contractors are to price here for <u>all</u> making good elements in communal areas <u>and</u> within resident's flats. This is to include replacement of any damaged Superlux and isolated decorations complete.		



	As noted in the preambles (Section B), where pipes and cables for pipework and/or fire alarm works pass through floors and compartment walls (necessary penetrations in the building fabric) they must be <u>fire</u> stopped by a UKAS accredited third party approved installer, a <u>completion certificate will be required.</u>	£	р
	Any intumescent sealants or fire stopping products are to be compatible with the CPVC pipe and the system the contractor has designed.		
5.0	FIRE PANEL		
	Contractors are to design, supply, install and commission an indicator control panel to which the newly installed flow switches on each of the levels can be connected to.		
	The alarm panel is to provide visual and audible indication of which flow switch has been activated.		
	The contractor is to provide an A3 size, printed and framed block plan indicating the zones and isolation point in the system which can be mounted next to the alarm control panel. The alarm control panel is to be located on the ground floor in a location that is agreed with the contract administrator and client.		
	At Market View an Alarm Control Panel is to be installed in the concierge office. This can be in addition to alarm panels installed separately in each of the 3no. buildings, but an audible alarm / relay needs to sound in the concierges office to ensure they are given warning that either the pump has failed a self-test cycle or that a flow switch has been activated <u>and where</u> this is.		
	The contractor is to include for all wiring in association with the wiring of the flow switches and links to the fire alarm. All works undertaken are to be carried out by NICEIC Approved Installers to Part P of the Building Regulations and IEE 17th Edition wiring regulations (BS7671). On complete certification is to be provided to the Contract Administrator and Client. Any new penetrations for wiring works are to be made good / fire stopped – as 4.0.		
	Following all commissioning the contractor will include to educate the client team on the installed Alarm Panels and what the various alarm activations may mean. Contact / call out numbers for the alarm activations will be provided in regards to pump failure.		
6.0	COMMISSIONING / TESTING		
	On completion of each pipework system, the system shall be re-charged with clean water and subjected to a hydraulic test of 1.5 times the working pressure or 12 bar, whichever is the lesser, for a period of 1 hour.		
	total collection		



	Any component of equipment liable to be damaged by the application of these tests shall be isolated.	£	р
	Installations or sections thereof which will be embedded in the structure or concealed in permanently sealed ducts, trenches, roof spaces, etc., shall in addition to the above specified test be individually tested as they are laid and before embedded or concealed. If this is being undertaken consult CA prior to install. Ideally all installations and testing are to be undertaken prior to covering up.		
	All pressure tests as specified above shall be carried out before the application of thermal insulation (see also 7.0).		
	After erection and completion of each system it shall be tested to show that it complies with the Specification to the satisfaction of the Contract Administrator. The tests shall be performed in sections as may be decided by the Contract Administrator. A certificate of all hydraulic tests shall be forwarded to the Contract Administrator. showing:-		
	<ul><li>Test pressure and duration of test</li><li>Location and result of all tests</li></ul>		
	Each certificate shall be signed by the Contractor. The Contractor shall give the Contract Administrator (and UKAS Accredited 3 <sup>rd</sup> party if required) five clear working days' notice of his intention to carry out any test. The Contractor shall remedy all faults, and re-test to the satisfaction of the Employer's Agent. The Contractor shall include for the provision of all necessary instruments, plant, labour and materials for carrying out the required tests. All systems prior to testing and/or handover shall be thoroughly cleaned, both internally and externally.		
	Upon completion of the installation the contractor will place the system in complete operational condition, subject to the approval of the Contract Administrator. All adjustments to the control systems will be made by the Contractor who will be responsible for balancing the systems.		
	The settings that are put on controls and any adjustments that are made during commissioning of the controls the Contractor shall forward to the Contract Administrator along with one copy of the Commissioning Report submitted by the Commissioning Engineers and sign off certification from a UKAS accredited 3 <sup>rd</sup> Party (see also 8.0).		
7.0	INSULATION		
	On completion of the newly installed sprinkler systems including all testing / commissioning, the contractor is to review all pipe runs (in respect of heated and un-heated areas) and ensure that where required pipe runs are thermally insulated.		
	total collection		
Section C8 Sched	ule of Works High Rise Sprinkler Install		

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	All pipework lagging / insulation is to be compliant with BS 5970:2012, BS 5422:2009, the Building Regulations Part L (and generally) and Legionnaires' disease - the control of legionella bacteria in water systems Approved Code of Practice and guidance (L8). The contractor is to include for all works and on completion provide the CA and client with a statement on the methodology applied and where any insulation is location along with the type.	£	р
8.0	CERTIFICATION OF COMPLETION		
	The contractor is to employ a UKAS Accredited 3 <sup>rd</sup> party from the offset to review works progress and <u>provide on completion</u> a certificate of conformity for all its work which is designing and installing in accordance with BS 9251:2014.		
	Please note that this certification is to be provided from a UKAS Accredited 3rd party (i.e. FIRAS) in relation to each individual scheme following <u>actual</u> specific site inspections.		
	For the avoidance of doubt, a certificate confirming that designers / installers are approved by a UKAS Accredited 3rd party is not sufficient.		
	total collection		



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- SECTION C SPRINKLER INSTALLATION		
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