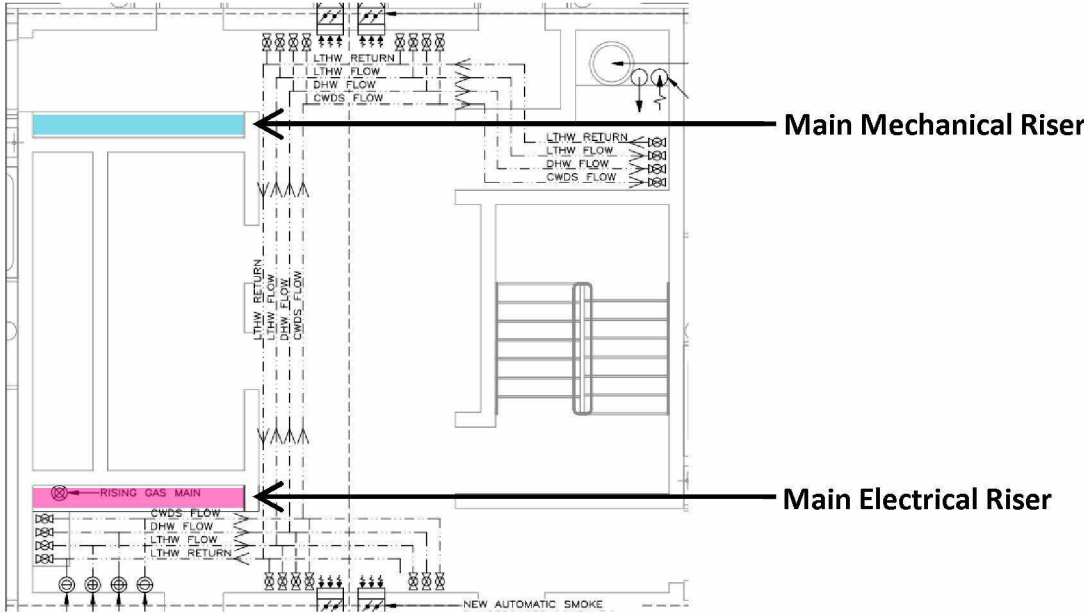


Grenfell Tower

Architect: Studio E
Issue Status: Stage D

TABLE 1 OF 1: PRE TENDER M&E SURVEYS

WORK SECTION	SURVEY TYPE	DESCRIPTION	COMMENTS
A64	General	<p>Full survey of the existing main mechanical and electrical risers from basement to plant room level (location shown below) to identify pipe routes , electrical distribution and other as yet unidentified telecoms or access control wiring within the risers. Further details described below in the individual work sections.</p> 	
R10	Rainwater	Walk route of existing rainwater through podium levels to identify possible clashes with demolition works and proposed works.	Builder/contractor required to assist in removing panels, false ceilings etc for access.
R11	Above Ground Drainage	<p>Walk route of existing foul drainage through podium levels to identify possible clashes with demolition works and proposed works.</p> <p>New connections to be made to existing drainage in basement plant room; survey extent of all existing drainage in the basement area including visual inspection of pipe condition, invert levels, pipe dimensions and layouts.</p> <p>CCTV inspection required in selected areas.</p>	Builder/contractor required to assist in removing panels, false ceilings etc for access.
S10	Water Services	<p>Walk route of water services from basement plant room to roof top plant room.</p> <p>Condition and capacity survey of all water services equipment shown on S(--)01_250 as being retained, including potable water storage in basement plant room (size/capacity, condition and suitability for re-use). Survey existing non-potable storage tank within roof top plant room and non-potable break tank at basement level to ascertain whether it is economical to convert to potable.</p>	Tank specialist required for assessment of conversion from non-potable to potable.

Schedule of M&E Surveys
Dwg #: J4614/A(64)502 Rev *

Grenfell Tower

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WORK SECTION	SURVEY TYPE	DESCRIPTION	COMMENTS
S61	Dry Riser	Survey of the underside of the ground floor slab from inside the plant room along the route of the proposed dry riser extension to see if a location by the main door is feasible. Number of bends required assessed to ensure that it meets requirements. Survey existing system using air-test or similar to check condition, compliance with BS 9990 and conformance to Fire Authority and Statutory requirements.	Input required from Exova on whether a wet riser would now be required rather than adaptation of existing dry riser. Exova to define requirements.
T90	Boiler Flue Boiler Room Ventilation	Survey the spare boiler flue route from the basement plant room to roof level to confirm suitability for re-use for new boiler installation. Survey and measure free area of all basement plant room ventilation to ascertain current and minimum requirements to inform the removal of some systems.	Access tower etc required.
U14	Smoke Extract	Survey existing smoke fresh air supply fans (presumed to be located above the false ceiling in the group medical practice, deck/walkway level) to identify capacity/rating and location of the fans and associated ductwork. Inspect dampers on typical floors – remove grilles. Check smoke extract arrangement is the same at all lift lobbies (podium). Survey existing power supply and back-up power etc. Survey existing smoke extract fans in rooftop plant room, capacity/rating and condition for re-use.	Existing fan manufacturer or Flaktwoods etc to inspect fans. Building Control approval to be confirmed. MF to check BS for controls etc.
V20	Low Voltage supply	Survey all electrical services that are to be retained for existing flats as shown on V(90)01_250. All wiring supplying the podium levels is to be stripped out and replaced – no condition survey required. There is an electrical supply from the main electrical switch room labelled as “British Relay”. It is not known if this power supply is still required and if it could be removed as part of the demolition phase. <i>Note - This is assumed to be a now defunct television service.</i> Existing wiring routes need to be established through the podium levels to ensure coordination with demolition and new layouts. During the survey works, the contractor will tag and label all equipment (including cables, panels etc.) that have to be maintained during the works. Identify and label any live cables that pass through contractor work areas and may present a hazard. Where programming of work areas means that live cables would remain in a given work area the contractor will propose final a programme for diversions of cables/equipment which has to be kept live. If there are any unknown DBs or power supplies at the end of the survey works, the contractor will arrange with the client to carry out pre-arranged shut downs of supplies / DBs / final circuits as required to identify which of these need to be kept live to maintain the operational areas.	All dist. boards are to be identified and an updated distribution diagram provided.
V40	Emergency Lighting	Survey existing emergency lighting to Grenfell Tower common areas to aid redesign of emergency lighting to common areas. Record location, lamp type and type of power supply back-up.	
W10	Telecommunications / data	Walk and record routes of telecommunications cables within podium levels and identify cabling that needs to be retained and kept active throughout the demolition phase.	TMO preferred contractor

Schedule of M&E Surveys
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WORK SECTION	SURVEY TYPE	DESCRIPTION	COMMENTS
W20	CCTV	KCTMO maintenance sub-contractor (Steve Wilkins, steve@swsecurity.co.uk) have offered to provide details of the existing CCTV installation service. Therefore it is not considered necessary to get a survey of the existing CCTV equipment at this time. However, a survey of the existing CCTV wiring routes to ensure coordination with demolition works and proposed layouts is necessary.	SW Security to undertake survey.
W40	Access control and Entry Phone	KCTMO maintenance sub-contractor (John Cossey, Johncossey@entrotec.co.uk) have offered to provide details of the existing access control installation service therefore it is not considered necessary to get a survey of the existing access control equipment at this time. However, a survey of the existing access control wiring routes to ensure coordination with demolition works and proposed layouts is necessary.	TMO preferred contractor
W50	Fire Detection & Alarm	Fire alarm to be replaced as part of the refurbishment works. Recent inspection report from current maintenance company is required. Survey to identify location of existing equipment and routing of existing wiring through podium and vertical risers to help inform the strip out.	Inspection report will give an initial indication of the condition of the equipment. TMO preferred/current maintenance contractor to undertake survey.
W51	Earthing and Bonding	Survey the complete building earthing and bonding system to establish all items that will require a main equipotential bond in the completed installation. Trace all main bonding cables from the existing main earth bars. Provide a clear set of marked-up drawings indicating where these are connected and whether these locations/items will require replacement bonds or alternatively will become redundant in the completed installation.	Copies of recent IEE tests should give an indication of the condition of the earthing equipment, but will probably require further investigation by the contractor.
W52	Lightning Protection	Survey the routes of the lightning protection network to identify possible clashes with the demolition proposals or the new over cladding. Issue a report identifying any defects of the system. -Seek instruction for any works required to rectify defects in the systems performance identified through the testing Specialist to survey existing building fabric and extraneous conductive parts. Specialist to survey and test existing system and provide full system drawings for system on completion.	Copies of recent test certificates / reports required.

Notes

1. To be read in conjunction with MFLLP specifications and all relevant drawings.

Rev	Date	Status	Description	Engineer	Project Leader
A	30/08/2013	For Information		MJS	DC
*	14/01/2013	For Information		AM	MP

Schedule of M&E Surveys
Dwg #: J4614/A(64)502 Rev *