

**Risk Remaining from schemes not prioritised in draft plan 19/20**

**Appendix 4**

	5 Year Plan £000s					Quality improvement rating	Performance improvement rating	Access improvement rating	Finance improvement rating	Total
	2019/20	2020/21	2021/22	2022/23	2023/24					
<b>Other schemes not progressed with a score of 16 and greater for 19/20</b>										
<b>IT</b>										
e-HR	£ 2,078.0	£ 3,606.0	£ 2,406.0	£ 1,809.0	£ 1,083.0	5	5	5	5	20
Cyber Security - ongoing schemes	£ 357.6	£ 357.6	£ 357.6	£ 357.6	£ 357.6	5	5	5	5	20
Nervecentre			£ 500.0	£ 500.0	£ 500.0	5	5	5	5	20
Cyber Security - Windows 10 and equipment replacement including PCs	£ 1,099.2	£ 600.0	£ 600.0	£ 600.0	£ 600.0	5	5	4	2	16
Mobile Kit - individual devices	£ 843.0					4	4	5	0	13
Upgrade or replace the current Trust Bleep/Pager System	£ 230.0					4	3	4	2	13
WebV (eCobs V3 whiteboard and flowboard for A&E) **	£ 55.3					4	4	4	1	13
LAN - Obsolete Core switch upgrades (Lincoln Hospital)	£ 480.0					4	2	2	2	10
Upgrade Trust's Telephone Exchange system as End of Life	£ 400.0					4	2	2	2	10
<b>Total IT</b>	<b>£ 5,543.1</b>	<b>£ 4,563.6</b>	<b>£ 3,863.6</b>	<b>£ 3,266.6</b>	<b>£ 2,540.6</b>					
<b>Medical Equipment</b>										
Emergency Replacements	£ 625.0	£ 625.0	£ 625.0	£ 625.0	£ 625.0	5	5	5	5	20
Digital Fluoroscopy Room - PHB - Out of Service - Broken - Emerg Bid to NHSI	£ 570.0					5	5	5	5	20
Digital Fluoroscopy Room - LCH - 22 Years old High risk of failure - Emerg Bid to NHSI	£ 570.0					5	5	5	5	20
Endoscopy	£ 400.0					5	5	3	5	18
Pan Trust ECG replacement programme	£ 70.0					4	4	5	3	16
5 X Digital X-ray Rooms	£ 660.0	£ 440.0				5	5	4	2	16
<b>Total Medical Equipment</b>	<b>£ 2,895.0</b>	<b>£ 1,065.0</b>	<b>£ 625.0</b>	<b>£ 625.0</b>	<b>£ 625.0</b>					
<b>Estates</b>										
3601 Mechanical Infrastructure at Pilgrim Hospital is in poor condition and needs significant investment to eliminate backlog maintenance, reduce maintenance costs, maintain capacity of the estate to deliver clinical activity.	£ 600.0	£ 600.0	£ 600.0	£ 600.0	£ 600.0	5	5	5	5	20
3602 Potential for Mechanical Infrastructure Breakdowns at LCH due to poor condition of distribution systems.	£ 600.0	£ 600.0	£ 600.0	£ 600.0	£ 600.0	5	5	5	5	20
3532 Potential for disruption to clinical services as a result of Electrical Supply Distribution - Maternity Wing. Switchgear on each floor and sub mains cabling are 45 years old and obsolete. Circuit protection requires upgrading.	£ 500.0	£ 125.0	£ 125.0	£ 125.0	£ 125.0	5	5	5	5	20
3603 Potential for plant failure for Medical oxygen for all sites.	£ 500.0	£ 500.0	£ 500.0	£ -	£ -	5	5	5	5	20
3534 Potential for Mechanical & Electrical Infrastructure Breakdowns at LCH due to poor condition of distribution systems.	£ 400.0	£ 400.0	£ 400.0	£ 400.0	£ 400.0	5	5	5	5	20
3535 Mechanical & electrical Infrastructure at Pilgrim Hospital is in poor condition and needs significant investment to eliminate backlog maintenance, reduce maintenance costs, maintain capacity of the estate to deliver clinical activity	£ 400.0	£ 400.0	£ 400.0	£ 400.0	£ 400.0	5	5	5	5	20
3537 Potential for failure of Electrical Infrastructure at GDH resulting in service interruption, fire and closure of clinical services. The site has an aging electrical infrastructure and some of the switchgear is obsolete and in need of replacing. It does not comply with current IET wiring regulations (BS7671). Area affected are:- Tower Block. Rayrole room. Main Switchgear fed from Transformer no 3 (back of Theatres). Main Switchroom outside of ward 6 including Ward 6 Distribution boards. Various Distribution are obsolete and we unable to obtain spare parts for. A&E Endoscopy X-ray Department Theatres Tower Block Out-Patients Medical Physic Pharmacy Rehabilitation	£ 400.0	£ 400.0	£ 400.0	£ 400.0	£ 400.0	5	5	5	5	20
3542 The LV network within blocks 0A, 0D, 0J, 0W, 0L, 0U, 0T, 0V, 0X and 0Y is full to capacity. The N+1 design capacity of the original installation no longer exists, meaning under HV fault conditions all the hospital load cannot be switched within the LV network to continue supply. There is no capacity for new schemes, etc without investing in extending the HV network and taking some of the load of the existing network and re-supply from extended HV network.	£ 400.0	£ 400.0	£ 400.0	£ 400.0	£ 400.0	5	5	5	5	20
3616 The theatres infrastructure on at least the Lincoln and Pilgrim sites needs to be reviewed in light of primary services: i.e. electrical supply / medical gases / air exchange. As new technology is introduced the loading on individual circuits is closing in on the circuit limits. Air exchange plant is running at its maximum. The provision of medical gases is stretched.	£ 300.0	£ 1,500.0	£ 1,500.0	£ 1,055.0	£ 1,000.0	5	5	5	5	20
3550 Ageing and obsolete nurse call systems in the Maternity Wing are leading to an increase in breakdown and system failure. Similarly, while not currently obsolete, the majority of the nurse call systems in Phase 1 and Phase 2 of the hospital buildings are approaching 30 years old and present similar risks together with difficulties in cleaning them to infection control standards. They are not disabled user friendly. Whole or part system failure impacts on patient care and increases the risk of adverse patient incidents. Johnson Ward at Lincoln is a particular risk.	£ 250.0	£ 250.0	£ -	£ -	£ -	5	5	5	5	20
3577 Approx 1000 bleeps across the Trust. Majority are 10-15 years old. The multi-tone bleep system is coming to the end of production. The company will not be able to support maintenance, as spares are no longer available. This is 1980's technology. Consider new system. This equipment is also installed at Lincoln County Hospital.	£ 200.0	£ 200.0	£ 200.0	£ -	£ -	5	5	5	5	20
3528 Potential for failure of electrical distribution to large area of Pilgrim Hospital due to panel failure.	£ 200.0	£ 200.0	£ 200.0	£ 200.0	£ 200.0	5	5	5	5	20
3529 Weakness of the distribution systems is the change over contactors which connect the electrical load to either the Mains or the standby generators. There are 60 around the LCH site and they cannot be maintained unless the supply is totally disconnected from the electrical supply. These emergency changeover contactors connect the emergency standby generation to the hospital electrical distribution system in the event of mains electrical supply failure. It is not possible to carry out maintenance on these without an interruption to the electrical supply to specific areas of the hospital.	£ 200.0	£ 200.0	£ 200.0	£ 200.0	£ 200.0	5	5	5	5	20
3541 The majority of the electrical switchgear and distribution boards on the Pilgrim Hospital site are over 40 years old. This is in excess of the recommended replacement age found in HTM06-02. Some of the distribution boards are showing signs of overheating and many boards are full to capacity. Distribution boards do not meet any Form 4 manufacturing standards meaning maintenance is difficult without isolation. Equipment is obsolete.	£ 200.0	£ 200.0	£ 200.0	£ 200.0	£ 200.0	5	5	5	5	20
3547 GDH Tower Block Statutory Rewire (BS standards). Back half of the top floor of the tower block is still wired in VIR cable. Which is contrary to IET wiring regulations and the Electricity at work act.	£ 200.0	£ 200.0	£ 100.0	£ -	£ -	5	5	5	5	20
3634 The nurse call system in the Tower Block at Pilgrim is 33 years old. Reports are regularly received about faulty call bells. Estates are starting to run out of solutions to repair / restore the system Some faults are taking up to 48 hours to restore (on occasions this has been up to 4 days) and there is a serious impact on the care of acutely ill patients; the nurses workload; and the ability of Estates staff to maintain the system satisfactorily	£ 120.0	£ 50.0	£ 50.0	£ -	£ -	5	5	5	5	20
3531 The majority of the high voltage switchgear and transformers on all three sites are oil filled. The majority of switchgear is over 40 years old and the majority of switchgear in the East Wing is over 25 years old. Generally in industry these are being replaced with vacuum and SF6 switchgear to reduce fire risks due to oil and maintenance costs.	£ 120.0	£ 120.0	£ 120.0	£ 120.0	£ 120.0	5	5	5	5	20
3551 Ageing and obsolete nurse call systems at GDH leading to an increase in breakdown and system failure. A number of beds do not have nurse call impact on clinical risk and the ability of the Trust to maximise utilisation of these beds. ACU Day Ward Ward 6 Endoscopy A&E (Physiotherapy/Med physics/OT)	£ 100.0	£ 100.0	£ 50.0	£ -	£ -	5	5	5	5	20
3552 All patient bed spaces are served by a single plug socket. Facilities were supposed to have upgraded all the bed spaces to multiple sockets by April 2015, to allow the ward to use the new electronic beds and accommodate the the infusion pumps which are now part of everyday care. Use of bar sockets creates an additional trip hazard.	£ 100.0	£ 100.0	£ 100.0	£ 100.0	£ 100.0	5	5	5	5	20
3479 GDH: Main LV Electrical Switch Gear (Back of Theatres) connected to Transformer Number 3 requires upgrading. Switchgear is fully loaded with no room for future expansion to the southern part of the site.	£ 100.0	£ 100.0	£ -	£ -	£ -	5	5	5	5	20
3481 HV incoming switchgear at GDH is obsolete and requires replacement. Western Distribution have been to site to inspect their side of the switchgear. There is a possibility that in the near future they will be upgrading the incoming HV supply. This will result in the Trust having to replace our side of the switchgear.	£ 100.0	£ 100.0	£ -	£ -	£ -	5	5	5	5	20
3530 Potential for extended standby generator usage & disruption to services due to failure of obsolete LV switchgear at LCH. Switchgear is obsolete and spare parts unobtainable. Some 630A Federal Electric Fuse Switches have failed and spare parts are not available. If a failure of similar units occur large sections of the site would be on the standby generator for a considerable time, as a replacement unit is not readily available.	£ 100.0	£ 100.0	£ 100.0	£ 100.0	£ 100.0	5	5	5	5	20
3536 X Ray Department at GDH: Need to replace existing heater batteries and control panel with new. Controls are obsolete can no longer maintain. Heater batteries are old and starting to fail and need replacement	£ 100.0	£ -	£ -	£ -	£ -	5	5	5	5	20
3538 High Voltage Switchgear (Switching prohibition) EFN 2016 05 - GDH has a Log and Crawford GFE High Voltage Fuse Switch that has a switching prohibition on it. which means we cannot operate it. No contingency if this unit fails other than emergency generator which supplies limited outlets.	£ 100.0	£ 100.0	£ 100.0	£ 100.0	£ 100.0	5	5	5	5	20

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<b>Other schemes not progressed with a score of 16 and greater for 19/20</b>										
3540 Generator 1 and 2 contactor panels and associated switchgear are 40 years old and obsolete. These panels switch the generator supply onto load during a power outage to 90% of all clinical areas including the Tower Block, Theatres and A&E. Open design of the electrical panels means it is unsafe to work in panel unless isolated should a failure occur.	£ 100.0	£ 100.0	£ -	£ -	£ -	5	5	5	5	20
4059 Both CT scanners in the x-ray room at Lincoln Radiology are supplied by the same electrical switch and both cardiac rooms are supplied by another electrical switch. In order for any maintenance on these switches to occur or a failure in either switch would result in loss of power to either both CT scanners or both cardiac rooms at the same time.	£ 100.0	£ 100.0	£ -	£ -	£ -	5	5	5	5	20
3606 Mechanical ventilation (Air Handling Units) within the Maternity Wing at LCH is 45 years old and should be considered for replacement. The ductwork systems within the building have not been internally cleaned since installation due to cost and logistical constraints.	£ 100.0	£ 100.0	£ 100.0	£ 100.0	£ 100.0	5	5	5	5	20
3607 Potential Loss of the medical air to ICU, HDU, Cath Lab 1&2, A&E, Interventional Suite X Ray, Oncology Unit, Cardiac Short Stay at LCH. The current plant does not meet HTM02-01 recommendations, the plant is 12 years old and the manufacturers recommend a service life of 10 to 15 years.	£ 100.0	£ 100.0	£ -	£ -	£ -	5	5	5	5	20
3619 Ambulatory Care at LCH - Heating Calorifier. Only 1 unit installed. There is no means of heating the ward if this fails.	£ 100.0	£ -	£ -	£ -	£ -	5	5	5	5	20
3215 Not all areas of Trust sites are covered by CCTV and CCTV is not monitored across all sites.	£ 60.0	£ 100.0	£ 100.0	£ 40.0	£ -	5	5	5	5	20
3605 Maternity Lifts at Pilgrim are in poor condition and in need of further refurbishment /replacement. Risk of failure whilst in use and unavailability.	£ 50.0	£ 50.0	£ 50.0	£ 50.0	£ -	5	5	5	5	20
3617 Potential for failure of air conditioning plant which affects large parts of the Tower Block at Pilgrim.	£ 50.0	£ 125.0	£ 125.0	£ 125.0	£ 125.0	5	5	5	5	20
3622 Maternity Wing Drains at LCH are susceptible to blockages caused by the condition and capacity of the drains. The drainage system within the Maternity Wing is subject to higher frequencies of blockages due to capacity and condition of the drainage system. In addition users are placing inappropriate items down toilets and the presence of Asbestos Containing Materials (ACM's) present difficulties in accessing large sections of the drainage system.	£ 40.0	£ 50.0	£ 50.0	£ 50.0	£ 50.0	5	5	5	5	20
3576 Old style shower rooms at Pilgrim have one way doors. These only open into the shower room and prevent medical staff gaining access should a patient fall against it. Access is not controlled, space is limited	£ 30.0	£ 30.0	£ 30.0	£ 30.0	£ 30.0	5	5	5	5	20
3574 Many of the roof areas in buildings across all sites have leaks, these cause damage to the building fabric which then incurs additional costs for remedial works. Water on the floor causes a slip hazard and access to roofs affects costs due to the requirement of erecting costly scaffolding in many cases.	£ 25.0	£ 25.0	£ 25.0	£ 25.0	£ 25.0	5	5	5	5	20
3608 Medical Gas alarms at Pilgrim are obsolete and cannot be upgraded.	£ 20.0	£ 20.0	£ 20.0	£ 20.0	£ 20.0	5	5	5	5	20
3618 Obsolete controls to the Ventilation system within Maternity at Lincoln. The Heating and Ventilation system controls are obsolete and functionality limited. Not energy efficient and provide little or no control of temperature within Maternity Wing including Labour Ward Operating Theatre No. 1.	£ 20.0	£ 20.0	£ -	£ -	£ -	5	5	5	5	20
3623 The lifts at Lincoln County may not function correctly. This is caused by out of date components and inadequate control circuit configurations on lifts that are 20 - 25 years old this would lead to an impact/effect on Lift no. 1-6 and Lifts 9-11 in terms of overheating, fire risk and poor reliability.	£ 20.0	£ 20.0	£ 20.0	£ 20.0	£ -	5	5	5	5	20
3609 Potential for a severe leak of heating and hot water service due to the poor condition of plastic pipework at Pilgrim. Plastic Pipework in very poor condition. Severe water leak will cause loss of heating and hot water services. Several leaks have occurred in the past.	£ 10.0	£ 10.0	£ 10.0	£ 10.0	£ 10.0	5	5	5	5	20
3635 Maternity Wing at LCH, 5th Floor Comfort Cooling. Currently no cooling provision. Areas overheated during summer period, adverse effect on patients and staff, in particular in the operating theatres.	£ 250.0	£ 250.0	£ 250.0	£ 250.0	£ 250.0	5	5	5	4	19
3242 LCH: Luminaires; many units over 25 years old and obsolete, resulting in poor lighting and energy performance. Obsolete & Defective Lighting Control System within County Restaurant and East Wing Corridor.	£ 3,000.0	£ -	£ -	£ -	£ -	5	5	3	5	18
3558 Reduced standards if painting & decorating of clinical areas on all sites are not completed. (Identified through PLACE annual inspection).	£ 250.0	£ 250.0	£ 250.0	£ 250.0	£ 250.0	5	5	5	3	18
3561 Floor Coverings across the Trust - Many areas are 45 years old, looks tired and is damaged in areas. Frequently fails environment and PLACE audits. Sub Floor is also damaged in some cases. High risk areas include Maternity at Lincoln, Tower Block at Grantham, Theatre Corridors at Pilgrim.	£ 250.0	£ 250.0	£ 250.0	£ 250.0	£ 250.0	5	5	5	3	18
3512 Trustwide Water Systems - Chlorine Dioxide Dosing System. Scotmas inform that some of the monitors are now obsolete and require replacing. BMS is now linked to Lincoln.	£ 150.0	£ -	£ -	£ -	£ -	5	5	4	4	18
3681 During winter months with the Main Entrance being East facing, any significant cold winds are funnelled into the main entrance foyer through the door lobby. Previous actions by fitting automatic doors have failed to improve the situation. Numerous staff and patient complaints.	£ 150.0	£ -	£ -	£ -	£ -	5	5	5	3	18
3514 The Water Safety Statutory Improvement Programme (directed by site risk assessments) may not complete on time; on going upgrade to sanitary ware, WHB's, Showers etc. to comply with ACOP L8 and HTMs.	£ 100.0	£ 50.0	£ 50.0	£ 50.0	£ 50.0	5	5	4	4	18
3559 The air conditioning unit in Acute Care at Grantham Hospital has been condemned. Impact on patient and staff comfort.	£ 100.0	£ -	£ -	£ -	£ -	5	5	5	3	18
4039 Condition and availability of staff car-parking spaces. Staff arriving late for work and risk of slips, trips and falls and subsequent claims. Health & Safety have collected data on costs.	£ 100.0	£ 100.0	£ 100.0	£ 100.0	£ 100.0	5	5	5	3	18
3513 The Trust may not comply with drinking water guidelines and HTM04-01 at Pilgrim Hospital, because of Chlorine Dioxide dosing impurities due to lack of available maintenance.	£ 75.0	£ -	£ -	£ -	£ -	5	5	4	4	18
3557 Due to lack of investment in the GDH site building fabric the windows, fascia and doors are in very poor state of repair, most of which are now beyond economic repair and require replacing. This causing drafts and water increase into buildings resulting in increased energy and maintenance costs.	£ 38.0	£ 38.0	£ 38.0	£ 38.0	£ 38.0	5	5	5	3	18
3548 Lack of automatic controls on corridor lighting at LCH resulting in excessive energy usage; lighting is virtually all controlled by manual switching.	£ 30.0	£ -	£ -	£ -	£ -	5	5	3	5	18
3567 Flooring expansion joints within LCH corridors and corridor floor covering repairs. Joints are breaking up. In many areas subject to heavy use, the floor coverings are worn and may cause a trip hazard.	£ 20.0	£ -	£ -	£ -	£ -	5	5	5	3	18
<b>Total Estates</b>	<b>£ 11,628.0</b>	<b>£ 8,733.0</b>	<b>£ 7,813.0</b>	<b>£ 6,408.0</b>	<b>£ 6,243.0</b>					
<b>Grand Total</b>	<b>£ 20,066.1</b>	<b>£ 14,361.6</b>	<b>£ 12,301.6</b>	<b>£ 10,299.6</b>	<b>£ 9,408.6</b>					