

## APPENDIX D- Monitoring Strategy

### Monitoring ground movements and adjoining buildings.

1. Conditions surveys to the Thames Water sewers had been carried out as shown on McAllister Group, Plowman Craven – St Pancras Way – dated 30<sup>th</sup>. Jan. 2019 report as shown on Appendix I.
2. A number of vibration monitoring systems are to be installed on the top of the existing CRT RC capping beam.
3. Inclinometers with 3D survey points will be installed following the demolition works, during construction and post construction. The length of time of post construction monitoring is to be agreed with all parties. The monitoring system to be installed will provide live reporting during the construction works together with trigger limits. The positions of the monitoring system are to be placed strategically on the following buildings:
  - Canal Tow Paths RC capping beam monitoring - vibration and 3D EDM targets on the face of the capping beam.
4. Condition surveys will be carried out to the adjacent buildings prior to any works commencing.

Movement	CATEGORY	ACTION
0mm- 5mm	Green	- No action required
5mm-12mm	AMBER	<ul style="list-style-type: none"><li>- Crack Monitoring.</li><li>- Carry out a local structural review.</li><li>- Frequency of the surveying shall increase</li><li>- Preparation for the implementation of remedial measures should be required.</li><li>- implement any additional propping or change in methodology as required</li></ul>
>12mm	RED	<ul style="list-style-type: none"><li>- All works are to stop immediately</li><li>- Crack Monitoring.</li><li>- Implement structural support as required.</li><li>- Cease works with the exception of necessary works for the safety and stability of the structure and personnel.</li><li>- Review monitoring data and implement revised method of works</li></ul>

Preliminary Movement limits between adjacent sets of datum points.