

GOSH CCC Thames Water Ground Movement Assessment

14/07/2023 1226-A2S-XX-XX-RP-Y-0005-03



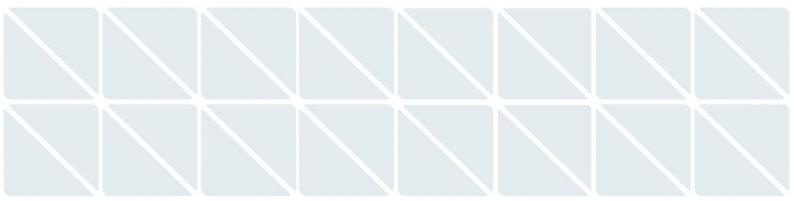




Great Ormond Street Hospital Children's Cancer Centre (GOSHCCC)

Thames Water Ground Movement Assessment

July 2023 1226-A2S-XX-XX-RP-Y-0005-03





Project Name	Great Ormond Street Hospital Children's Cancer Centre (GOSHCCC)
Project Number	1226
Client	Great Ormond Street Hospital for Children NHS Foundation Trust
Document Name	Thames Water Ground Movement Assessment

This document has been prepared for the sole benefit, use and information of Great Ormond Street Hospital for Children NHS Foundation Trust for the purposes set out in the document or instructions commissioning it. The liability of A-squared Studio Engineers Ltd in respect of the information contained in this document is as per the A-squared Terms & Conditions and will not extend to any third party. All concepts and proposals are copyright © July 2023. Issued in commercial confidence.

A-squared Studio Engineers Ltd One Westminster Bridge Rd

London, SE1 7XW

020 7620 2868 contact@a2-studio.com www.a2-studio.com

Prepared by	Checked by	Approved by
Q. Sia MEng(Hons)	P. Smith BEng (Hons), MSc, DIC, CEng, MICE	A. Nikolic BEng(Hons), MSc, DIC, CEng, MICE, MSt(Cantab)
Engineer	Associate	Director

Document Reference	Status	Revision	Issued by	Date
1226-A2S-XX-XX-RP-Y-0005-00	First Issue	00	QS	18.01.2022
1226-A2S-XX-XX-RP-Y-0005-01	Second Issue	01	QS	24.01.2022
1226-A2S-XX-XX-RP-Y-0005-02	Third Issue	02	QS	17.05.2022
1226-A2S-XX-XX-RP-Y-0005-03	Fourth Issue – RIBA 4 VE	03	QS	14.07.2023



Contents

1.	Introduction	. 1
2.	The Site and Development	. 2
3.	Thames Water Utilities	. 6
4.	Ground Model	. 8
5.	Impact Assessment Methodology	. 9
6.	Impact Assessment Results	13
7.	Conclusion and Closing Remarks	17

Appendices

Appendix A: Selected Supporting Information Appendix B: Thames Water Utilities Information Appendix C: Oasys Xdisp Output Appendix D: Oasys Pdisp Input Appendix E: Oasys Xdisp Input



1. Introduction

A-squared Studio Engineers Ltd (A-squared) has been appointed by John Sisk & Son (Holdings) Ltd on behalf of Great Ormond Street Hospital for Children NHS Foundation Trust (the 'Applicant') to undertake a ground movement assessment (GMA) for the proposed Great Ormond Street Hospital Children's Cancer Centre (GOSHCCC) development at the Great Ormond Street Hospital (GOSH) in London.

The A-squared scope comprises an assessment of the potential impact of the proposed development works on the various surrounding Thames Water assets.

1.1. Study Aims & Objectives

A ground movement and impact assessment has been carried out in order to estimate the potential impact of the proposed development works on the Thames Water (TW) assets.

The proposed development comprises redevelopment of the site for a multi-storey hospital building (Children's Cancer Centre). The Redevelopment of the Great Ormond Street Hospital (GOSH) Frontage Building comprising demolition of the existing building and erection of a replacement 8 storey hospital building (Class C2 Use) together with 2 basement floors, roof top, balcony and ground floor landscaped amenity spaces, cycle storage, refuse storage and other ancillary and associated works pursuant to the development.

The assessment encompasses Thames Water surface and wastewater distribution pipes located within the zone of influence of the proposed scheme. The GMA assessment is based on *greenfield* ground movements and unlikely to be exceeded ground movements. The adopted assessment methodology provides a robust and conservative assessment representative of current industry best practice, as detailed in Section 5.

The assessment carried out and described herein aims to:

- Assess the impact on ground movements induced by the proposed works on sewers surrounding the development under consideration.
- Provide performance criteria and inform aspects of substructure construction and design.

This report provides a detailed description of the:

- Site and proposed development.
- Modelling parameters and input.
- Analyses and results.

1.2. References

The following primary reference documents and drawings have been utilised in the development of this GMA.

- Design drawings and loading information provided by BDP Ltd. Key information is included in Appendix A.
- Geotechnical & Geoenvironmental Interpretative Report prepared by A-Squared Studio Ltd, dated May 2022 (ref: 1226-A2-XX-XX-RP-Y-0002-02 included in Appendix A.
- Asset location plans, indicating positions of sewers, provided by John Sisk & Son (Holdings) Ltd, included in Appendix B.

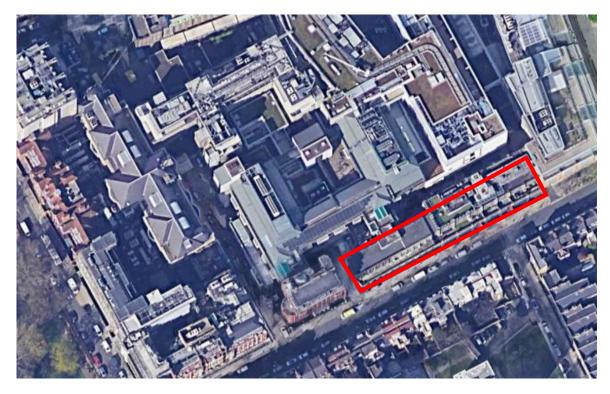


2. The Site and Development

The proposed development site, herein referred to as 'the site', is located at Great Ormond Street, London, WC1N 3JH. The site is bounded by Paul O'Gorman Building to the west, Variety Club Building to the north, Octav Botnar Wing to the east and Great Ormond Street to the south as shown in Figure 2.1. The site is located at approximately grid reference of 530516E, 182024N and falls within the administrative boundaries of the London Borough of Camden (LBC).

The site is relatively flat across the entire footprint, with an approximate ground level of +20mOD at the rear of the Frontage Building at lower ground level. The ground level at Great Ormond Street is approximately +23mOD.

The site covers an area of approximately 0.2 hectares. The existing site comprises part of the GOSH Frontage Building as shown in Figure 2.2 and Figure 2.3. The current land uses surrounding the site are summarised in Table 2.1. The proposed building basement footprint and retaining wall outline are shown in Figure 2.4.



 Approximate site boundary marked in red. Image courtesy of Google.

 Figure 2.1
 Location of the proposed development

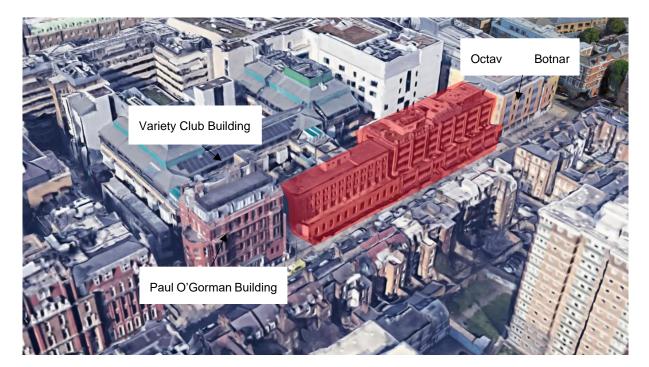


Figure 2.2 Current site condition - Frontage Building



Figure 2.3 View of the current site condition, facing east towards the hospital entrance at Great Ormond Street



Table 2.1 Surrounding land uses summary

Bearing from Site	Features directly adjacent to the site boundary	Identified land uses and key structures
North	GOSH buildings	Russell square underground station located 200m to the northwest of the site.
East	Great Ormond Street with mixed commercial shops and residential terraced properties	GOSH buildings and commercial shops along Lambs Conduit Street. Open park space located 70m to the southeast of the site
South	Great Ormond Street	Terraced houses with gardens located across Great Ormond Street and two blocks of residential flats is located at approximately 70m south. Open park space located 70m to the southeast of the site, adjacent to the residential flats.
West	Paul O'Gorman Building	Queens Square gardens located approximately 90m to the west of the site. Russell Square located 250m to the west of the site.







The Thames Water utilities surrounding the site are shown below in Figure 2.5 and Figure 2.6.

Figure 2.5 Existing main sewer pipes surrounding proposed development

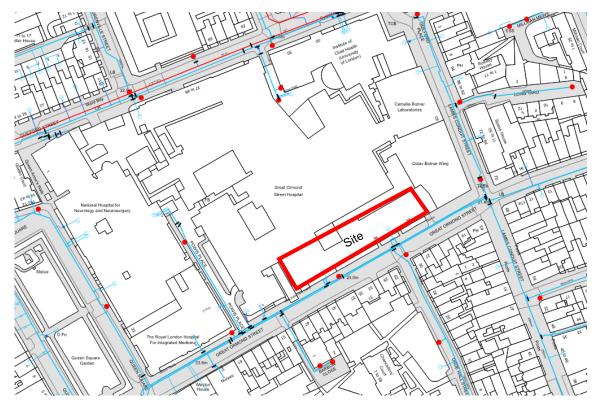


Figure 2.6 Water main pipes surrounding the proposed development



3. Thames Water Utilities

A series of Thames Water utilities are present in proximity of the proposed development site. These utilities comprise sewers of varying size and construction materials under the proposed and neighboring building and pedestrian areas. Details relating to these utilities are shown in Table 3.1. Utility locations and reference names adopted for GMA purposes are presented in Figure 3.1. Water main pipes (HPPE) surrounding the site (i.e. WM.1 and WM.2) are not checked against any assessment criteria in this ground movement analysis, however the greenfield displacements of the pipes are calculated and presented for information.

Reasonable assumptions have been conservatively made for some of the utilities for which no information is available in relation to the material/construction. All sewer pipes are assumed to be circular in cross section. In general, lining thicknesses have been assumed for the utilities where no information is available.

The impact assessment on the Thames Water utilities has been undertaken focusing on the key deformation mechanisms and performance criteria applicable to the utility types noted, including tensile strains (induced by axial elongation and bending mechanisms), joint rotation and pull-out.

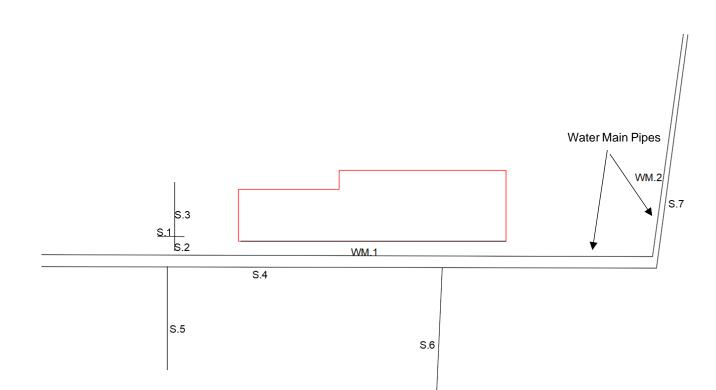
The assessment criteria for the utilities are summarised in Figure 3.2. The criteria defined by Thames Water have been adopted.

The neutral axis position has been positioned at the edge of all utilities under consideration, in order to reflect the limited capacity of the sections in tension, when evaluating tensile strains arising as a result of bending mechanisms. The axial strains that the sewers are subjected to have been factored to 20% to model the soil/pipe interface where relevant.

Table 3.1 T	Thames Wat	er utility	names	and	dimensions
-------------	------------	------------	-------	-----	------------

Asset Name	Туре	Material	Diameter (mm)	Wall Thickness (mm)
S.1	Sewer	Cast Iron	100	12.5*
S.2	Sewer	Vitrified Clay	150	12.5*
S.3	Sewer	Cast Iron	150	12.5*
S.4	Sewer	Brick – Egg shaped	1245x762	200*
S.5	Sewer	Brick – Egg shaped	1245x787	200*
S.6	Sewer	Brick – Egg shaped	1093x610	200*
S.7	Sewer	Brick – Egg shaped	1245x762	200*
WM.1	Water main	HPPE	180	10*
WM.2	Water main	HPPE	250	10*

Note: * Where information is not available, an assumption is made



Basement outline shown in red.

Figure 3.1 Sewer and water main pipes locations

PIPE TYPE	Diameter	Allowable Inc	rease in Strain (με)	Rotation
	(mm)	Tension	Compression	(deg.)
Brick Sewer (red / yellow / blue brick)	N/A	500	25% of the allowable stress	N/A
Cast Iron Lead-yarn joints	N/A	100	1200	0.1
Ductile Iron (Lead-yarn gasket joints)	N/A	500	700	0.5
Ductile Iron (Rubber gasket joints)	N/A	500	700	2.0
Steel	N/A	450	450	1.5
(Lead-yarn gasket joints) Ductile Iron (Rubber gasket joints)	<125 80		400	0.5
	>125	80	400	See Table 2
	<225	20	400	0.5
	225 – 750	40	400	See Table 2
(unreinforced)	>750	60	400	See Table 2
Table 2 - Maximum Rotatio Diameter (mm)	Rot	and Concrete Pipes ation eg.)	5	
< 375	2	2.0		
375 – 750	1	.0		
750 – 1400	0.5			
> 1400	().3		

Extract from Thames Water Utilities Limited guidance for developers.

Figure 3.2 Thames Water assessment criteria



4. Ground Model

Site-specific ground investigation works have been completed at the time of writing. Based on a review of ground investigation data and historical data in the vicinity of the project site, the ground conditions at the site were generally found to comprise the following (in order of succession):

- Made Ground brownish grey to light brown sandy fine to coarse, angular to subangular Gravel.
- Lynch Hill Gravels Medium dense yellowish grey sandy fine to coarse angular to subrounded Gravel.
- London Clay firm to stiff dark grey silty CLAY.
- Lambeth Group stiff to very stiff grey/brown mottled clay.

The above include the strata of engineering interest and significance, taking cognisance of the scale of the proposed development, depth of the proposed basement excavation, and zone of influence.

The ground model adopted for this assessment is presented in Table 4.1. Material strength and stiffness parameters have been derived and assumed from ground investigation data and previous experience in this area of London.

Table 4.1 Ground model and geotechnical parameters adopted for analysis purposes

Stratum	Elevation (mOD)	Thickness (m)	Undrained Young's Modulus, E _u ^[2] (MPa)	Drained Young's Modulus, E' ^[2] (MPa)
Made Ground	+20.00	1.20	-	10.0
Lynch Hill Gravels	+18.80	1.30	-	35.0
London Clay	+17.50	15.00	20.0 + 5.33z ^[4]	16.0 + 4.27z ^[4]
Lambeth Group	+2.50	19.50	115.0 + 3.85z ^[4]	92.0 + 3.08z ^[4]

1. Ground model based on site specific ground investigation data in the vicinity of the site. This data has been interpreted specifically for the scope of the GMA presented herein.

 Stiffness data (E_u and E') has been evaluated empirically from in-situ testing data taking into consideration the nature of the geotechnical/soil-structure interaction mechanisms and level of anticipated strain within the soil mass.

- 3. Rigid boundary was assumed at -17.0mOD / 37mBGL) for analytical purposes.
- 4. z refers to the depth in metres below the top of the London Clay/Lambeth Group formation. Lower bound stiffness values have been adopted for GMA purposes only.



5. Impact Assessment Methodology

The assessment has been undertaken using proprietary spreadsheets and the commercially available software Oasys Pdisp and Xdisp, which consider the three-dimensional ground movement field induced by the proposed development.

Ground movements will arise as a result of various mechanisms which are mobilised as part of the construction works for the proposed scheme. The excavation process to reprofile the site and form the single storey basement will induce ground movements arising from the overburden removal. The permanent condition loading will reinstate the removed overburden and induced further settlements across the foundation system. The induced ground movements will extend over a given zone of influence surrounding the building/excavation footprint.

A series of three-dimensional models of the proposed scheme have been developed in Oasys Xdisp/Pdisp and combined by means of superposition in order to enable ground movement assessments to be carried out representing the various construction stages. The ground movement displacement fields were separated in two groups (A & B) based on the approach followed, as detailed below:

Group A – Unloading/Loading ground movements

A1. Building demolition and basement excavation (short-term).

Group B – CIRIA-based ground movements

- B1. Secant pile wall installation and basement excavation.
- B2. Secant pile wall, basement excavation, and application of the proposed building loading (long-term).

The Group A assessments are based on *greenfield* ground movements evaluated from linear half-space (Pdisp) analyses and focus on vertical ground movements induced by the overburden removal unloading and reloading processes.

Demolition pressures equivalent to 12kPa/storey have been applied over the footprints of the existing site building footprint. A total of 48kPa demolition upward pressure is applied in Pdisp to represent the demolition of existing building on site. Excavation unloading pressures have been modelled at the basement formation levels representing the removal of approximately 6.85m (137kPa) of overburden to form the additional basement level.

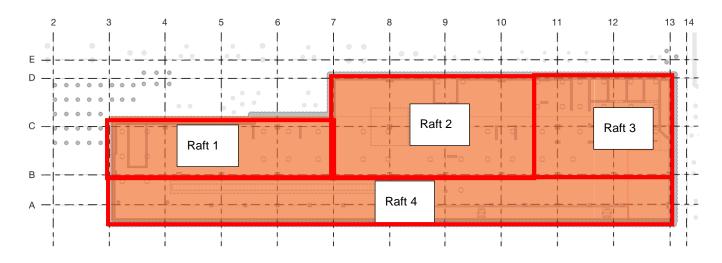
At this stage, it is envisaged that the proposed structures will be supported by a piled raft foundation. Based on a preliminary loading plan provided by BDP Ltd, uniformly distributed loading zones have been modelled at the proposed basement formation level.

Table 5.1 and Figure 5.1 show the modelled loading pressures below the raft foundation for the proposed structures. An uniformly distributed load of 31kPa has been adopted to represent the 1.2m thick Raft Foundation self-weight assuming a 25kN/m³ reinforced concrete unit weight.

Raft Area	Total load from columns (kN)	Area (m ²)	Total Load including raft self- weight (kPa)
1	49215	308	190.0
2	75650	540	171.2
3	79355	333	268.8
4	111020	775.4	174.5

Table 5.1 Proposed building loads modelled in PDisp

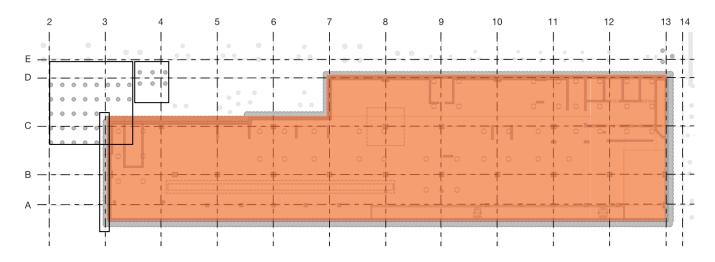




 Source: Sheet SK_S_XXX - LEVEL 0 Loading Plan drawing (June 2023) prepared by BDP Ltd.

 Figure 5.1
 Modelled loading areas in Pdisp

The loadings on the retaining wall and piles from ground floor level are modelled as equivalent raft uniformly distributed loads acting at 2/3 of the embedded wall / pile length (i.e. circa 10.7mOD and 6.7mOD respectively) and assuming a 1:4 (horizontal:vertical) load spread distribution with depth. The retaining walls are assumed to be 10.5m long and the piles under the pile cap at northwest corner of the building are assumed 20m long. The loadings are provided by BDP Ltd and shown below in Figure 5.2. Examples of the loading scenarios applied in Pdisp are shown below in Figure 5.3 and Figure 5.4.





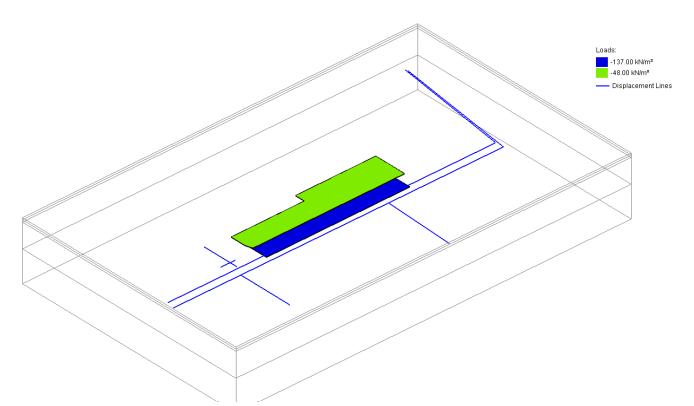


Figure 5.3 Loadings in Pdisp - ST Excavation + Demolition Heave

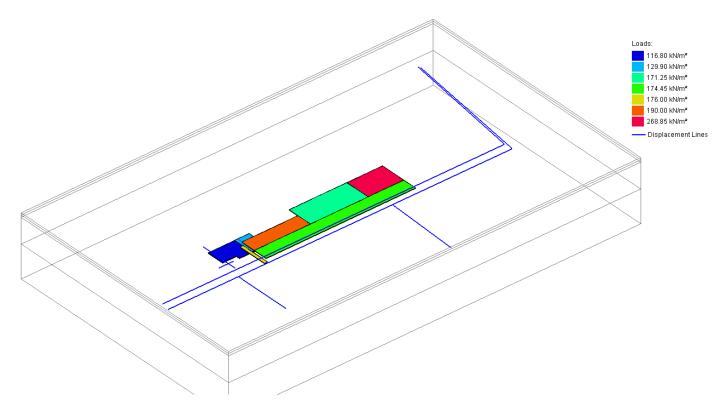


Figure 5.4 Loadings in Pdisp - LT Structural Loadings

Both assessments are based on *greenfield* ground movements evaluated from a linear half-space (Pdisp) analysis and focus on vertical ground movements induced by the unloading and loading processes.

The Group B assessments adopt the normalised ground displacement curves reported in CIRIA C760. In addition to the effects arising from the basement excavation, the ground movement effects associated with the installation of the secant pile wall have been



considered. The following CIRIA C760 normalised ground movement curves were adopted to assess ground movements due to retention system installation and excavation works:

- Secant pile wall: Installation of contiguous bored pile wall in stiff clay.
- Excavation to formation: Excavation in front of a high stiffness wall in stiff clay.

The modelling of the contiguous pile wall curve has been deemed suitable for calculating the installation effects of secant piled walls, contiguous piled walls, and/or sheet pile walls (assuming pre-boring or jetting installation aids, which may be required). For this assessment, the secant piles have been assumed to be 10.5m long (from ground level). Movements from this installation data set have been reduced by 50% based on guidance from a technical paper published by Ball & Langdon (2014). This is considered a reasonably conservative and robust movement allowance for the purpose of this assessment, which makes up a very finite proportion of the total predicted movement. Given the depth of the walls and proximity to sensitive utilities, it is assumed that suitable construction controls and temporary works, including rigorous monitoring methodologies, will be implemented during the wall installation and basement excavation works on site to reduce the overall impact of the development.

In the B2 assessment, the CIRIA ground movements are combined with the long-term settlements induced by the loading redistribution (evaluated in Pdisp). The utilities damage assessment is evaluated in Oasys Xdisp, an illustrative image is shown in Figure 5.5.

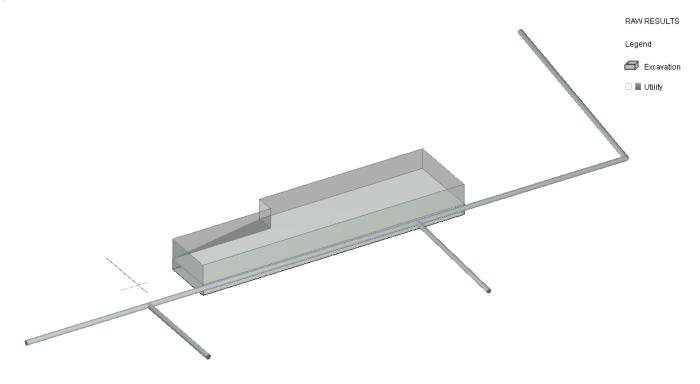


Figure 5.5 XDisp model geometry showing the utilities



6. Impact Assessment Results

Table 6.1 to Table 6.3 below summarise the results of the assessment from each modelled stage. Key potential impact mechanisms are considered, including tensile and compressive strain, rotation. The results indicate that maximum strains and rotations are within the allowable limits for all the utilities considered.

Internal Asset Diameter	Diameter	Maximum Vertical Displacement		Maximum Horizontal Displacement (mm)		Tensile Strain	Maximum Compressive	Compressive Strain Limit	Maximum Rotation (°)	Rotation Limit (°)	Maximum Pull-out	Pull- out Limit
	(mm)	(mm)	Parallel	Perpendicular	Strain (με)	Limit (με)	Strain (με)	(με)	Notation ()	Linin ()	(mm)	(mm)
S.1	100	-0.90	0	0	0.28	100	-0.28	1200	0.000	0.10	0.000	3.0
S.2	150	-0.88	0	0	0.11	80	-0.05	400	-	2.00	-	3.0
S.3	150	-0.88	0	0	0.04	100	-0.04	1200	0.000	0.10	0.000	3.0
S.4	1245x762	-1.35	0	0	5.78	500	-2.89	1200	0.000	2.00	0.016	3.0
S.5	1245x787	-0.78	0	0	0.77	500	-0.38	1200	0.000	2.00	0.002	3.0
S.6	1093x610	-1.68	0	0	61.19	500	-30.58	1200	0.004	2.00	0.111	3.0
S.7	1245x762	-0.39	0	0	0.27	500	-0.14	1200	0.000	2.00	0.000	3.0
WM.1	180	-1.13	0	0	-	-	-	-	-	-	-	-
WM.2	250	-0.42	0	0	-	-	-	-	-	-	-	-

Table 6.1 Unloading Thames Water utility impact assessment summary - A1

Positive vertical displacement values indicate upwards movements.

Table 6.2 CIRIA Curves Thames Water utility impact assessment summary - B1

	Internal Diameter	Maximum Vertical		Vertical		laximum al Displacement (mm)	Maximum Tensile	Tensile Strain Limit	Maximum Compressive	Compressive Strain Limit	Maximum Rotation (°)	Rotation Limit (°)	Maximum Pull-out	Pull- out Limit
	(mm)	(mm)	Parallel	Perpendicular	Strain (με)	(με)	Strain (με)	(με)	Rotation ()	Linin ()	(mm)	(mm)		
S.1	100	4.75	7.53	0.10	62.56	100	-	1200	-	0.10	0.76	3.0		
S.2	150	3.53	0.50	6.70	37.22	80	-41.91	400	0.04	2.00	-	3.0		
S.3	150	4.72	0.30	9.00	50.00	100	-49.69	1200	0.02	0.10	0.13	3.0		
S.4	1245x762	10.32	4.20	4.20	204.22	500	-493.53	1200	-	2.00	0.72	3.0		
S.5	1245x787	1.83	1.42	3.71	226.02	500	-81.92	1200	-	2.00	0.39	3.0		
S.6	1093x610	8.80	12.70	0.60	488.90	500	-	1200	0.01	2.00	1.22	3.0		
S.7	1245x762	0.00	0.00	0.00	-	500	-	1200	-	2.00	0.00	3.0		
WM.1	180	10.00	6.20	17.80	-	-	-	-	-	-	-	-		
WM.2	250	0.00	0.00	0.00	-	-	-	-	-	-	-	-		

Positive vertical displacement values indicate upwards movements.

Table 6.3 Loading and CIRIA curves Thames Water utility impact assessment summary – B2

Asset	Internal Diameter (mm)	Maximum Vertical Displacement (mm)		laximum al Displacement (mm) Perpendicular	Maximum Tensile Strain (με)	Tensile Strain Limit (με)	Maximum Compressive Strain (με)	Compressive Strain Limit (με)	Maximum Rotation (°)	Rotation Limit (°)	Maximum Pull-out (mm)	Pull- out Limit (mm)
S.1	100	5.40	7.53	0.10	63.00	100	-	1200	0.00	0.10	0.76	3.0
S.2	150	3.87	0.50	6.70	37.27	80	-41.93	400	0.00	2.00	0.00	3.0
S.3	150	5.21	0.30	9.00	0.56	100	-27.00	1200	0.04	0.10	0.12	3.0
S.4	1245x762	14.50	4.20	4.20	294.12	500	-465.41	1200	0.03	2.00	0.72	3.0
S.5	1245x787	1.85	1.42	3.71	226.00	500	-81.59	1200	0.00	2.00	0.40	3.0
S.6	1093x610	12.37	12.70	0.60	499.70	500	-0.11	1200	0.01	2.00	1.21	3.0
S.7	1245x762	-0.11	0.00	0.00	0.04	500	-0.01	1200	0.00	2.00	0.00	3.0
WM.1	180	18.00	6.20	17.80	-	-	-	-	-	-	-	-



Asset	Internal Diameter (mm)	Maximum Vertical Displacement	Horizont	faximum al Displacement (mm)	Maximum Tensile Strain (με)	Tensile Strain Limit	Maximum Compressive Strain (με)	Compressive Strain Limit (με)	Maximum Rotation (°)	Rotation Limit (°)	Maximum Pull-out (mm)	Pull- out Limit
		(mm)	Parallel	Perpendicular		(με)					. ,	(mm)
WM.2	250	-0.11	0.00	0.00	-	-	-	-	-	-	-	-
Positivo vo	rtical displace	omont values in	dicato upw	arde movomonte								

Positive vertical displacement values indicate upwards movements.

The horizontal and vertical contour plots resulting from scenario B1 are shown below in Figure 6.3 and Figure 6.4, respectively. The maximum horizontal and vertical movement due to excavation and retaining wall installation are anticipated to be around 18mm and 13mm respectively.

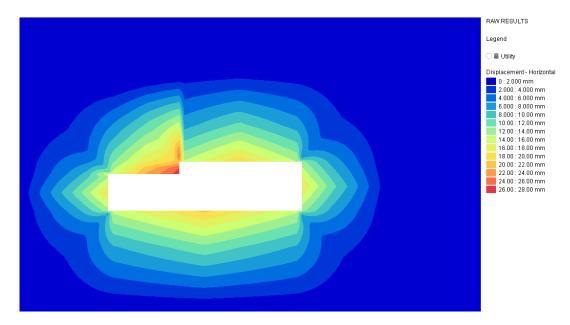


Figure 6.1 Horizontal movement from Scenario B2 - CIRIA curves + LT loadings

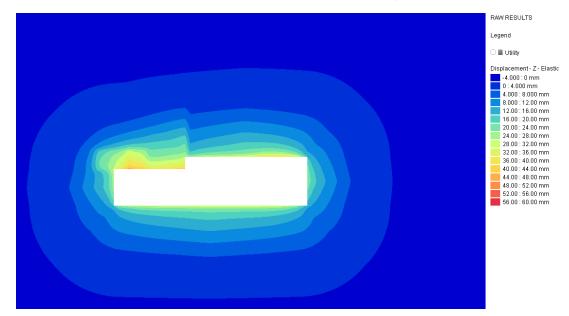


Figure 6.2 Vertical movement from Scenario B2 - CIRIA curves + LT loadings



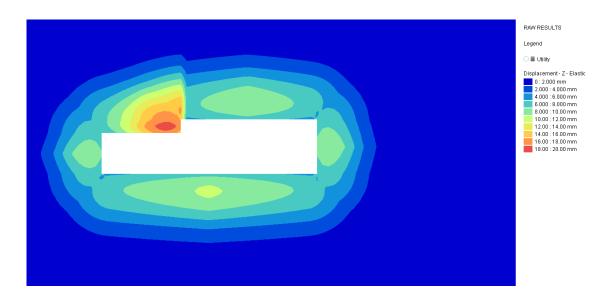


Figure 6.3 Vertical movement from Scenario B1 - CIRIA curves

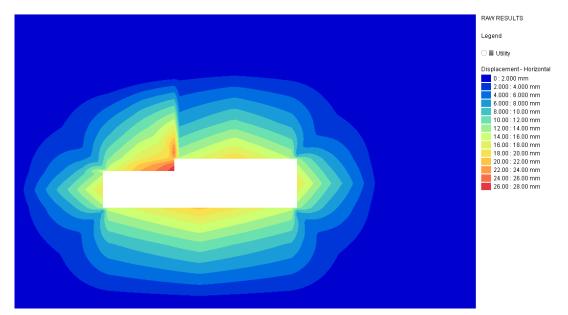


Figure 6.4 Horizontal movement from scenario B1 - CIRIA curves



6.1. Basement Excavation Criteria

The results of this analysis show that all Thames Water assets fall within acceptable damage classifications if the ground movements caused by the proposed development are limited to that predicted by this assessment.

It is recommended that ground movement / earth retention system design and construction movement criteria are developed based on the results presented herein. This will enable the design of the secant walls and any required temporary propping measures to be undertaken in a holistic fashion, ensuring ground movements are limited to no greater than that presented herein.

The predicted retaining wall movements based on CIRIA C760 curves are summarised in Table 6.4 below.

Specific deflection limits and trigger levels may also be developed as part of the scheme monitoring regime. Such limits and trigger levels should be coordinated with the scheme monitoring specification and monitoring action plan / emergency preparedness plan.

Table 6.4 Max horizontal wall deflection during bulk excavation

Scenario	Maximum Horizontal Displacement (mm)
B1	18.0

Note that the above is the proportion of the total lateral deflection associated with excavation. The impact assessment presented herein also makes an allowance for ground movement associated with the installation of piles.



7. Conclusion and Closing Remarks

A-squared Studio Engineers Ltd has been instructed by John Sisk & Son (Holdings) Ltd on behalf of Great Ormond Street Hospital for Children NHS Foundation Trust to undertake a ground movement assessment in order to evaluate the potential impacts of construction works on selected Thames Water assets, located around the proposed development.

The proposed scheme comprises redevelopment of the site for a multi-storey hospital building (Children's Cancer Centre). The Redevelopment of the Great Ormond Street Hospital (GOSH) Frontage Building comprising demolition of the existing building and erection of a replacement 8 storey hospital building (Class C2 Use) together with 2 basement floors, roof top, balcony and ground floor landscaped amenity spaces, cycle storage, refuse storage and other ancillary and associated works pursuant to the development.

A combination of Oasys Pdisp and Xdisp analyses have been carried out to evaluate the ground movement distribution at key stages of construction, namely the short-term condition following site excavation works, demolition of existing frontage building on site and the long-term condition incorporating the proposed building loading.

A *curve smoothing* exercise has been implemented to eliminate any unrealistic discontinuities present in the raw output displacement profiles for selected utilities. The smoothed profiles have been used for the utility damage assessment.

It is concluded that any potential movements, strains and joint pull-out/rotations of utilities surrounding the site that may arise as a result of the proposed redevelopment are within the adopted allowable criteria (based on Thames Water defined deformation and strain limits). The risk to Thames Water assets in proximity to the development due to the ground movements induced by the proposed scheme construction is considered to be low.

It is worth noting that the predicted movement figures are considered to be conservative in view of the *greenfield* nature of the assessment undertaken and the relatively cautious assumptions adopted in relation to ground model and method of analysis.

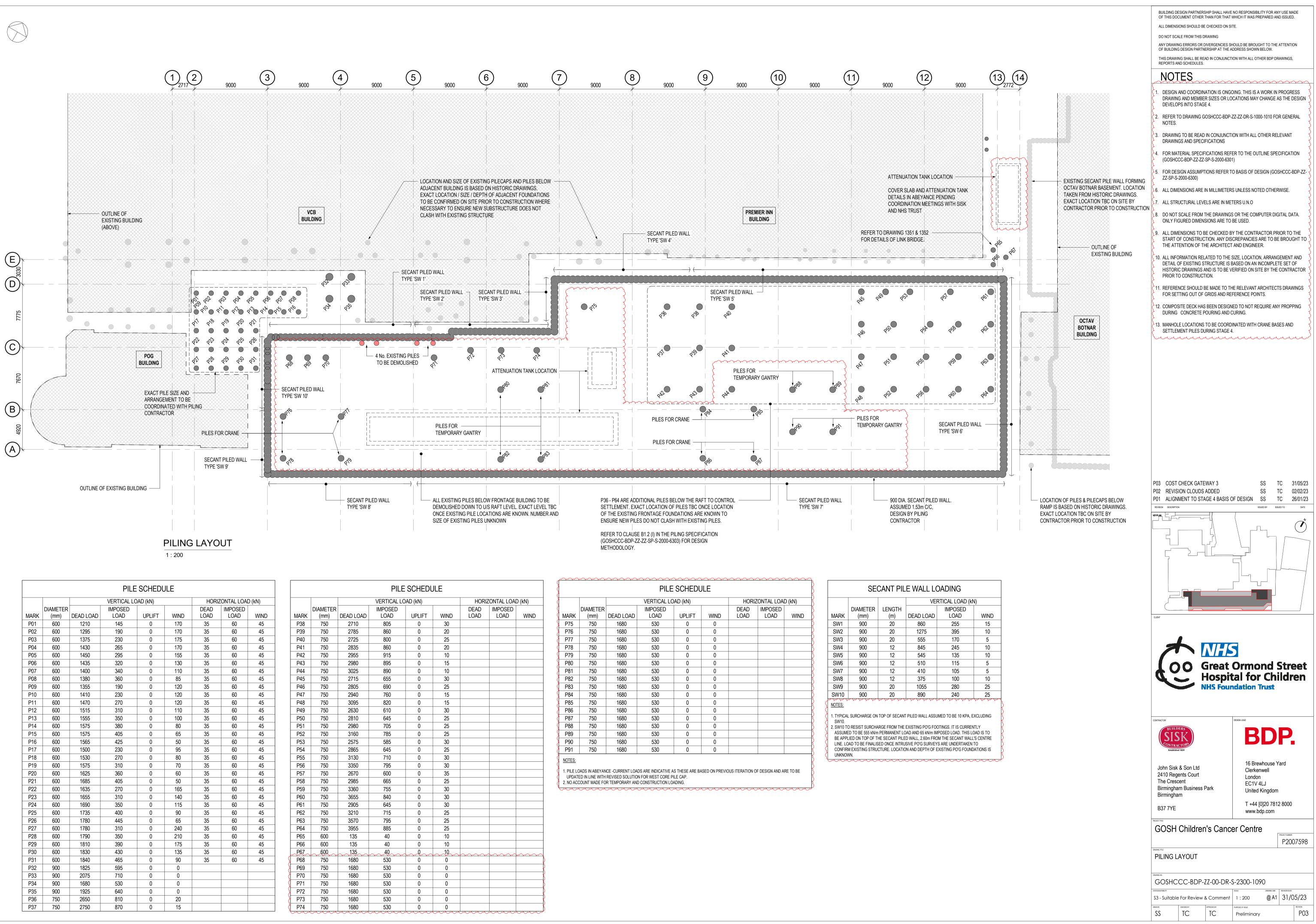
It is also noted that the GMA will be supplemented by a project-specific monitoring regime and Action Plan, which will define lines of responsibility, trigger levels in accordance with those presented in this GMA and appropriate mitigation measures. The assessment presented herein is dependent and reliant on the works being undertaken by an experienced contractor, high quality workmanship and appropriate supervision of construction means and methods by experienced personnel.

It is recommended that this report is reviewed and understood in full by the project team and major stakeholders. Where significant changes are made to items such as construction sequencing, temporary propping arrangements and scheme design, the engineer should thoroughly review the discrepancy and evaluate any potential impacts on ground movements and adjacent utilities. If necessary, the GMA results should be re-evaluated.

It is critical that the permanent and temporary works designs are carried out in a coordinated manner between performance specified elements and substructure contractors, with the aim to ensure that such design elements are in alignment with the assumptions/findings of the GMA and overall design intent.



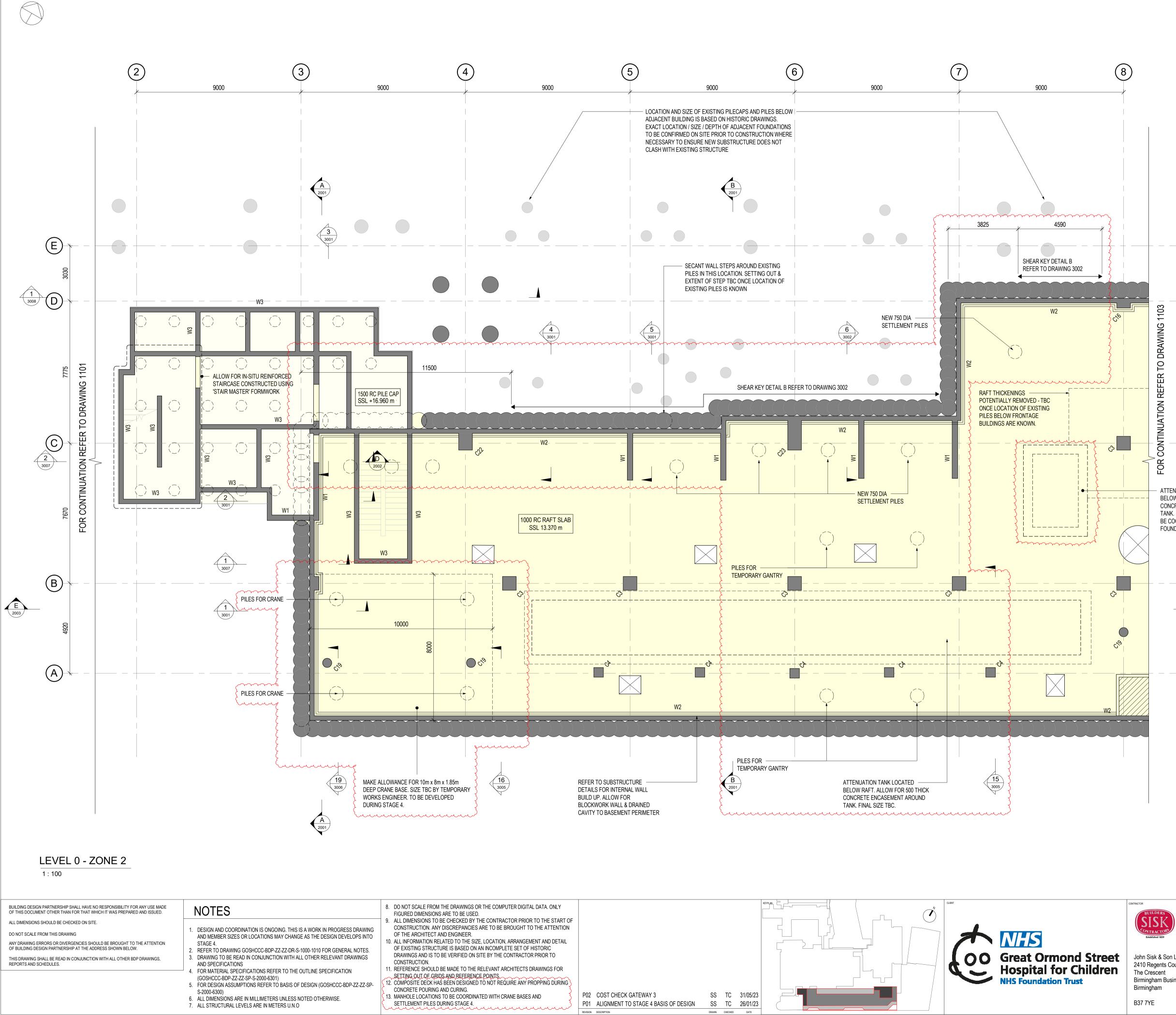
Appendix A: Selected Supporting Information



			VERTICAL LC	DAD (kN)		HORI	ZONTAL LOAD) (kN)
MARK	DIAMETER (mm)	DEAD LOAD	IMPOSED LOAD	UPLIFT	WIND	DEAD LOAD	IMPOSED LOAD	WIND
P01	600	1210	145	01 211 1	170	35	60	45
P01	600	1210	145	0	170	35	60	45
P02	600	1295	230	0	170	35	60	45
P03 P04	600	1375	230	0	175	35	60	45
P04 P05	600	1430	205	0	170	35	60	45 45
				-				
P06	600	1435	320	0	130	35	60	45
P07	600	1400	340	0	110	35	60	45
P08	600	1380	360	0	85	35	60	45
P09	600	1355	190	0	120	35	60	45
P10	600	1410	230	0	120	35	60	45
P11	600	1470	270	0	120	35	60	45
P12	600	1515	310	0	110	35	60	45
P13	600	1555	350	0	100	35	60	45
P14	600	1575	380	0	80	35	60	45
P15	600	1575	405	0	65	35	60	45
P16	600	1565	425	0	50	35	60	45
P17	600	1500	230	0	95	35	60	45
P18	600	1530	270	0	80	35	60	45
P19	600	1575	310	0	70	35	60	45
P20	600	1625	360	0	60	35	60	45
P21	600	1685	405	0	50	35	60	45
P22	600	1635	270	0	165	35	60	45
P23	600	1655	310	0	140	35	60	45
P24	600	1690	350	0	115	35	60	45
P25	600	1735	400	0	90	35	60	45
P26	600	1780	445	0	65	35	60	45
P27	600	1780	310	0	240	35	60	45
P28	600	1790	350	0	210	35	60	45
P29	600	1810	390	0	175	35	60	45
P30	600	1830	430	0	135	35	60	45
P31	600	1840	465	0	90	35	60	45
P32	900	1825	595	0	0			
P33	900	2075	710	0	0			
P34	900	1680	530	0	0			
P35	900	1925	640	0	0			
P36	750	2650	810	0	20			
P37	750	2750	870	0	15			

			PILE	SCHEDU	JLE				PILE SCHEDULE								
			VERTICAL LO	AD (kN)		HORIZONTAL LOAD (kN)		}		VERTICAL LOAD (kN)				HORI	ZONTAL LOAI	D (kN)	
MARK	DIAMETER (mm)	DEAD LOAD	IMPOSED LOAD	UPLIFT	WIND	DEAD LOAD	IMPOSED LOAD	WIND	MARK	DIAMETER	DEAD LOAD	IMPOSED LOAD	UPLIFT	WIND	DEAD LOAD	IMPOSED LOAD	WIND
P38	750	2710	805			LUAD	LUAD	VVIND	P75	(mm) 750	1680	530			LUAD	LUAD	VVIIND
P30 P39	750	2710	860	0	30 20				P75	750	1680	530	0	0			
P39 P40	750	2785	800	0	20				P70	750	1680	530	0	0			
P40	750	2835	860	0	20				P78	750	1680	530	0	0			
P41	750	2055	915	0	10				P79	750	1680	530	0	0			
P42	750	2933	895	0	15				P80	750	1680	530	0	0			
P43	750	3025	890	0	10				P81	750	1680	530	0	0			
P44 P45	750	2715	655	0	30				P82	750	1680	530	0	0			
P45	750	2805	690	0	25				P83	750	1680	530	0	0			
P40 P47	750	2805	760	0	15				P84	750	1680	530	0	0			
P48	750	3095	820	0	15				P85	750	1680	530	0	0			
P40	750	2630	610	0	30				P86	750	1680	530	0	0			
P49 P50	750	2810	645	0	25				P87	750	1680	530	0	0			
P50	750	2980	705	0	25				P88	750	1680	530	0	0			
P52	750	3160	705	0	25				P89	750	1680	530	0	0			
P52	750	2575	585	0	30				P90	750	1680	530	0	0			
P54	750	2865	645	0	25				P90	750	1680	530	0	0			
P55	750	3130	710	0	30				¥	730	1000	550	0	0			
P56	750	3350	710	0	30				NOTES:								
P57	750	2670	600	0	35				1. PILE LC	OADS IN ABEYAN	ICE -CURRENT LOA	DS ARE INDICATIVE	AS THESE ARE BA	ASED ON PREVIO	OUS ITERATION (OF DESIGN AND A	RE TO BE
P58	750	2985	665	0	25							N FOR WEST CORE F					
P59	750	3360	755	0	30				X							<u></u>	
P60	750	3655	840	0	30												
P61	750	2905	645	0	30												
P62	750	3210	715	0	25												
P63	750	3570	715	0	25												
P64	750	3955	885	0	25												
P65	600	135	40	0	10												
	600	135	40	0	10												
Pnn	600	135	40	0	10												
P66 P67	q q q q q q q q q q	1680	530	0	0			h									
P67	750	1000		0	0			5									
P67 P68	750 750	1680	2.30					<u> </u>									
P67 P68 P69	750	1680 1680	530 530		0			t									
P67 P68 P69 P70	750 750	1680	530	0	0												
P67 P68 P69 P70 P71	750 750 750	1680 1680	530 530	0 0	0												
P67 P68 P69	750 750	1680	530	0													

	SECANT PILE WALL LOADING										
			VERTICAL LOAD (kN)								
	DIAMETER	LENGTH		IMPOSED							
MARK	(mm)	(m)	DEAD LOAD	LOAD	WIND						
SW1	900	20	860	255	15						
SW2	900	20	1275	395	10						
SW3	900	20	555	170	5						
SW4	900	12	845	245	10						
SW5	900	12	545	135	10						
SW6	900	12	510	115	5						
SW7	900	12	410	105	5						
SW8	900	12	375	100	10						
SW9	900	20	1055	280	25						
SW10	900	20	890	240	25						
NOTES				a www.www	$\gamma \gamma \gamma \gamma \gamma$						



COLU	MN SCHEDULE
MARK	TYPE
C1	650 x 650
C3	750 x 750
C4	525 x 525
C5	700 x 700
C6	300 x 750
C8	350 x 800
C12	750 DIA.
C15	300 x 650
C16	750x325
C17	450 DIA
C18	250x400
C19	500 DIA
C20	400 x 950
C21	800 DIA.
C22	910 x 750
C23	1610 x 750
C24	300 x 300
SC1	UKC152x152x23
SC3	UC152x152x37
SC4	UKC203x203x60
SC5	SHS 100x100x10
SC6	UC305x305x118
SC7	SHS 200x200x10
SC8	UKC305x305x158
SC9	UKC254x254x132
SC11	UC305x305x198
SC12	UKC305x305x283
SC13	SHS100x100x8
SC14	UC305x305x240
RC W	ALL SCHEDULE
MARK	TYPE
W1	300 RC WALL
W2	250 RC LINER WALL
W1	300 RC WALL

LEGEND
CDM RISK, REFER TO SCHEDULE
EXISTING STRUCTURE IN SECTION
EXISTING STRUCTURE SURFACE
IN SITU CONCRETE IN SECTION
IN SITU CONCRETE SURFACE
STEEL SURFACE
RECESS IN SLAB
 50mm MOVEMENT JOINT
 EXISTING STEEL BEAM
 NEW STEEL BEAM
 MOMENT CONNECTION THERMAL BREAK CONNECTOR (ANCON ISOTEC OR SIMILAR) 160 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK 200 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK 150 COMPOSITE SLAB WITH
1.20mm GAUGE COMFLOR 80 DECK

	BEAM SCHEDULE
MARK	TYPE
B1	UC203x203x46
B2	UKC305x305x198
B4	120x120x12 EA
B5	UKC254x254x89
B6	SHS 80x80x10
B7	100x100x10 EA
B10	UKC152x152x23
B11	UKC305x305x240
B12	UKC203x203x100
B13	UC305x305x118
B14	SHS 150x150x10
B15	UKC203x203x71
B17	UC356x406x393
B18	UKC356x406x551
B20	UKC305x305x283
B21	UB914x305x289
B22	UKC203x203x60
B23	SHS80x80x5
B24	CHS88.9x6.3
B27	UC305x305x97
B29	RHS450x250x16
B30	UB610x305x149
B31	UB533x210x101
B32	UB178x102x19
B33	SHS100x100x10
B34	UB254x146x37
CB1	1300x1300 DEEP CAPPING BEAM
CB4	750x750 DEEP RC DOWNSTAND
CB5	950x1325 DEEP COMPOSITE BEAM
CB6	700x550 DEEP RC DOWNSTAND
CB7	300x600 DEEP RC DOWNSTAND
CB8	300x400 DEEP RC DOWNSTAND
CB9	300x450 DEEP RC DOWNSTAND
CB10	375x375 DEEP RC BEAM
CB11	450x750 DEEP RC BEAM

	0030383058116					
SC7	SHS 200x200x10					
SC8	UKC305x305x158					
SC9	UKC254x254x132					
SC11	UC305x305x198					
SC12	UKC305x305x283					
SC13	SHS100x100x8					
SC14	UC305x305x240					
RC WALL SCHEDULE						
MARK	TYPE					
W1	300 RC WALL					
W1 W2	300 RC WALL 250 RC LINER WALL					
W2	250 RC LINER WALL					
W2 W3	250 RC LINER WALL 250 RC WALL					
W2 W3 W4	250 RC LINER WALL 250 RC WALL 150 RC WALL					

- ATTENUATION TANK LOCATED BELOW RAFT. ALLOW FOR 500 THICK CONCRETE ENCASEMENT AROUND TANK. FINAL SIZE TBC. LOCATION TO BE COORDINATED WITH FOUNDATION LAYOUT.

E E

REF	DESCRIPTION
[1]	INSTALLATION OF NEW STAIR AND LIFT CORES IN CLOSE PROXIMITY TO EXISTING RETAINED STRUCTURES. SURVEY TO BE UNDERTAKEN TO CONFIRM CLEARANCES.
[2]	CREATION OF NEW BASEMENT AND INSTALLATION OF SECANT PILED WALL IN CLOSE PROXIMITY TO EXISTING RETAINED STRUCTURES. SURVEY TO BE UNDERTAKEN TO CONFIRM FOUNDATION SETTING OUT. MONITORING STRATEGY TO BE IN PLACE DURING CONSTRUCTION TO AVOID EXCESSIVE STRAIN IN EXISTING BUILDING.
[3]	DEEP EXCAVATION FOR BASEMENT REQUIRES SUITABLE EDGE PROTECTION TO PREVENT FALLS
[4]	CONSTRUCTION OF NEW FOUNDATIONS IN CLOSE PROXIMITY TO SUBSTRUCTURE O EXISTING ADJACENT BUILDINGS. SURVEY TO BE UNDERTAKEN TO CONFIRM CLEARANCES.
[5]	EXISTING SERVICES TRENCH IN YARD. NEW FOUNDATIONS TO AVOID TRENCH OR SERVICES TO BE DIVERTED PRIOR TO CONSTRUCTION.
[6]	LIFTING OF HEAVY ITEMS INCLUDING TRUSS IN CLOSE PROXIMITY TO EXISTING ADJACENT BUILDINGS.
[7]	INSTALLATION OF NEW STRUCTURE ON EXISTING VCB ROOF. EXISTING STRUCTURE TO BE CHECKED FOR ADDITIONAL LOADING, STRENGTHENING MIGHT BE REQUIRED.
[8]	RISK OF VEHICLE IMPACT TO COLUMNS IN SERVICE YARD SPACE. COLUMNS DESIGNED FOR VEHICLE IMPACT LOAD. CONTRACTOR TO ENSURE TEMPORARY STABILITY AND SAFE ACCESS FOR VEHICLES DURING CONSTRUCTION OF LINK STRUCTURE.
[9]	CREATION OF BASEMENT BELOW WATER TABLE. DESIGN PROPOSALS TO BE DEVELOPED TO ROBUST WATERPROOFING GRADES AS IT CONTAINS CRITICAL PLAN DEWATERING TO BE CONSIDERED DURING THE TEMPORARY CASE.
[10]	SECANT WALL INSTALLED BELOW EXISTING PAVEMENT MIGHT CAUSE CLASH WITH EXISTING SERVICES. SURVEY TO BE CARRIED OUT AND SERVICES TO BE DIVERTED NECESSARY.
[11]	SETTLEMENT PILES TO AVOID EXISTING PILES. LOCATION AND NATURE OF EXISTING BUILDING FOUNDATIONS UNKNOWN. SURVEY TO BE UNDERTAKEN DURING DEMOLITION PROCESS.
[12]	ASBESTOS MIGHT BE FOUND IN EXISTING BUILDING. SURVEY TO BE SCOPED.
[13]	RISK OF VEHICLE IMPACT TO STRUCTURES ON SOUTHERN SIDE. STRUCTURES TO B DESIGNED TO RESIST IMPACT LOAD.
	GOSH Children's Cancer Centre

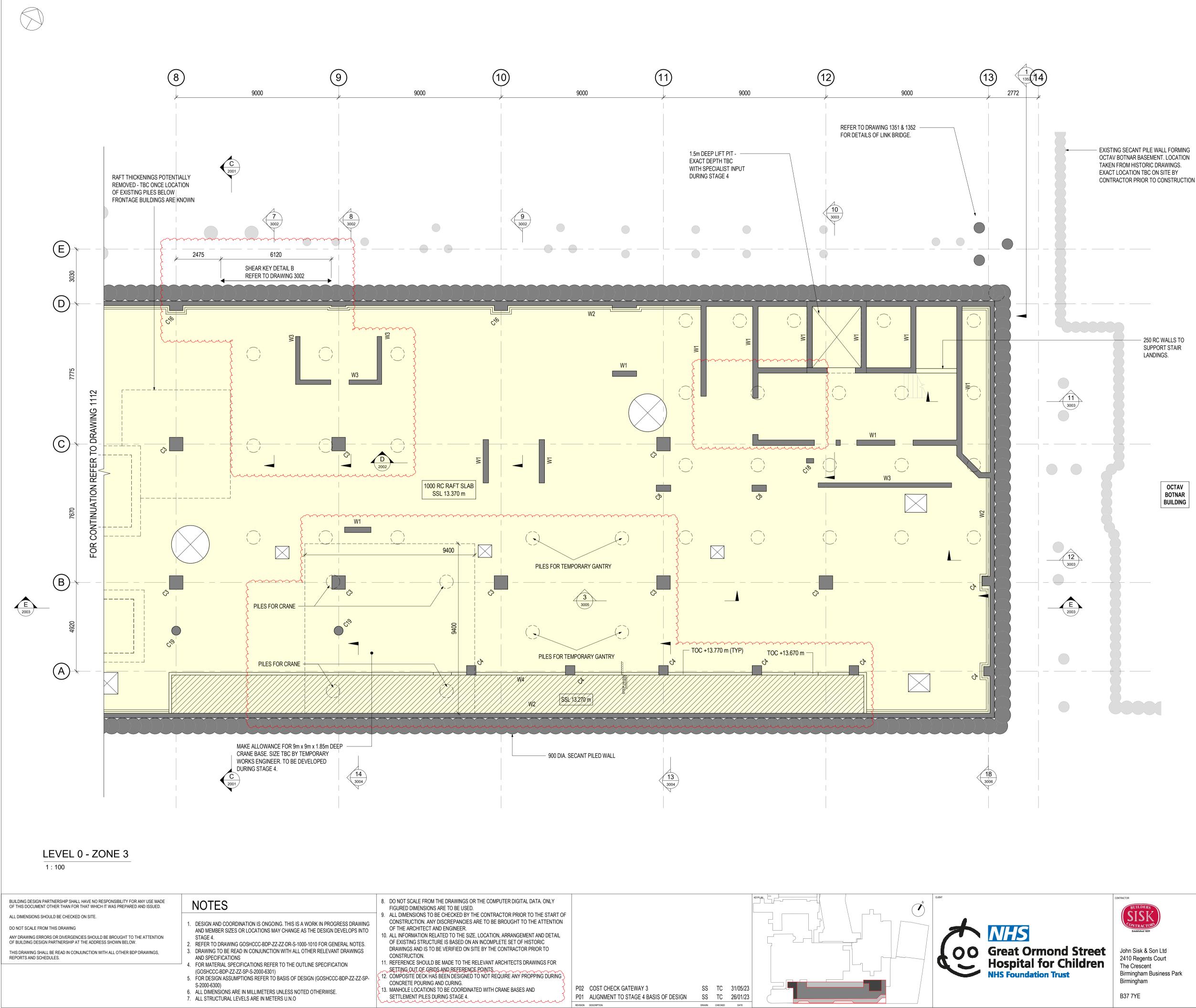
John Sisk & Son Ltd 2410 Regents Court Birmingham Business Park

16 Brewhouse Yard Clerkenwell London EC1V 4LJ United Kingdom

T +44 [0]20 7812 8000 www.bdp.com

LEVEL 00 PLAN - ZONE 2

GOSHCCC-BDP-ZZ-00-DR-S-2300-1102											
statusisuitablity S3 - Suitable	For Review 8	& Comment	scale 1:100	DRAWING SIZE	REVISION DATE	5/23					
draw by SS	CHECKED BY	APPROVED BY TC	PURPOSE OF ISSUE Preliminary			PD2					



COLU	MN SCHEDULE
MARK	TYPE
C1	650 x 650
C3	750 x 750
C4	525 x 525
C5	700 x 700
C6	300 x 750
C8	350 x 800
C12	750 DIA.
C15	300 x 650
C16	750x325
C17	450 DIA
C18	250x400
C19	500 DIA
C20	400 x 950
C21	800 DIA.
C22	910 x 750
C23	1610 x 750
C24	, 300 x,300
SC1	UKC152x152x23
SC3	UC152x152x37
SC4	UKC203x203x60
SC5	SHS 100x100x10
SC6	UC305x305x118
SC7	SHS 200x200x10
SC8	UKC305x305x158
SC9	UKC254x254x132
SC11	UC305x305x198
SC12	UKC305x305x283
SC13	SHS100x100x8
SC14	UC305x305x240
RC W	ALL SCHEDULE
MARK	TYPE
W1	300 RC WALL
W2	250 RC LINER WALL
W3	250 RC WALL
W4	150 RC WALL
W5	350 RC WALL
W6	225 RC WALL

	LEGEND
<u>^</u>	CDM RISK, REFER TO SCHEDULE
	EXISTING STRUCTURE IN SECTION
	EXISTING STRUCTURE SURFACE
	IN SITU CONCRETE IN SECTION
	IN SITU CONCRETE SURFACE
	STEEL SURFACE
	RECESS IN SLAB
- —	50mm MOVEMENT JOINT
	EXISTING STEEL BEAM
	NEW STEEL BEAM
	MOMENT CONNECTION THERMAL BREAK CONNECTOR (ANCON ISOTEC OR SIMILAR) 160 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK
~	200 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK
' #~	150 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK

BEAM SCHEDULE

	TYPE
MARK	
B1	ÚC203x203x46
B2	UKC305x305x198
B4	120x120x12 EA
B5	UKC254x254x89
B6	SHS 80x80x10
B7	100x100x10 EA
B10	UKC152x152x23
B11	UKC305x305x240
B12	UKC203x203x100
B13	UC305x305x118
B14	SHS 150x150x10
B15	UKC203x203x71
B17	UC356x406x393
B18	UKC356x406x551
B20	UKC305x305x283
B21	UB914x305x289
B22	UKC203x203x60
B23	SHS80x80x5
B24	CHS88.9x6.3
B27	UC305x305x97
B29	RHS450x250x16
B30	UB610x305x349
B31	UB533x210x101
B32	UB178x102x19
B33	SHS100x100x10
B34	UB254x146x37
CB1	1300x1300 DEEP CAPPING BEAM
CB4	750x750 DEEP RC DOWNSTAND
CB5	950x1325 DEEP COMPOSITE BEAM
CB6	700x550 DEEP RC DOWNSTAND
CB7	300x600 DEEP RC DOWNSTAND
CB8	300x400 DEEP RC DOWNSTAND
CB9	300x450 DEEP RC DOWNSTAND
CB10	375x375 DEEP RC BEAM
CB11	450x750 DEEP RC BEAM

 TO BE CHECKED FOR ADDITIONAL LOADING, STRENGTHENING MIGHT BE [8] RISK OF VEHICLE IMPACT TO COLUMNS IN SERVICE YARD SPACE. COLUIDESIGNED FOR VEHICLE IMPACT LOAD. CONTRACTOR TO ENSURE TEMPS STABILITY AND SAFE ACCESS FOR VEHICLES DURING CONSTRUCTION CONTRUCTURE. [9] CREATION OF BASEMENT BELOW WATER TABLE. DESIGN PROPOSALS TO DEVELOPED TO ROBUST WATERPROOFING GRADES AS IT CONTAINS CRIDEWATERING TO BE CONSIDERED DURING THE TEMPORARY CASE. [10] SECANT WALL INSTALLED BELOW EXISTING PAVEMENT MIGHT CAUSE CLEXISTING SERVICES. SURVEY TO BE CARRIED OUT AND SERVICES TO BE NECESSARY. [11] SETTLEMENT PILES TO AVOID EXISTING PILES. LOCATION AND NATURE OBUILDING FOUNDATIONS UNKNOWN. SURVEY TO BE UNDERTAKEN DURIDEMOLITION PROCESS. [12] ASBESTOS MIGHT BE FOUND IN EXISTING BUILDING. SURVEY TO BE SCORIAGE. [13] RISK OF VEHICLE IMPACT TO STRUCTURES ON SOUTHERN SIDE. STRUCTURES 			
 RETAINED STRUCTURES. SURVEY TO BE UNDERTAKEN TO CONFIRM CLI [2] CREATION OF NEW BASEMENT AND INSTALLATION OF SECANT PILED W/ PROXIMITY TO EXISTING RETAINED STRUCTURES. SURVEY TO BE UNDE CONFIRM FOUNDATION SETTING OUT. MONITORING STRATEGY TO BE IN DURING CONSTRUCTION TO AVOID EXCESSIVE STRAIN IN EXISTING BUIL [3] DEEP EXCAVATION FOR BASEMENT REQUIRES SUITABLE EDGE PROTEC PREVENT FALLS [4] CONSTRUCTION OF NEW FOUNDATIONS IN CLOSE PROXIMITY TO SUBST EXISTING ADJACENT BUILDINGS. SURVEY TO BE UNDERTAKEN TO CONF CLEARANCES. [5] EXISTING SERVICES TRENCH IN YARD. NEW FOUNDATIONS TO AVOID TR SERVICES TO BE DIVERTED PRIOR TO CONSTRUCTION. [6] LIFTING OF HEAVY ITEMS INCLUDING TRUSS IN CLOSE PROXIMITY TO EX ADJACENT BUILDINGS. [7] INSTALLATION OF NEW STRUCTURE ON EXISTING VCB ROOF. EXISTING SI TO BE CHECKED FOR ADDITIONAL LOADING, STRENGTHENING MIGHT BE [8] RISK OF VEHICLE IMPACT TO COLUMNS IN SERVICE YARD SPACE. COLUI DESIGNED FOR VEHICLE IMPACT TO COLUMNS IN SERVICE YARD SPACE. COLUI DESIGNED FOR VEHICLE IMPACT LOAD. CONTRACTOR TO ENSURE TEMF STABILITY AND SAFE ACCESS FOR VEHICLES DURING CONSTRUCTION C STRUCTURE. [9] CREATION OF BASEMENT BELOW WATER TABLE. DESIGN PROPOSALS TO DEVATERING TO BE CONSIDERED DURING THE TEMPORARY CASE. [10] SECANT WALL INSTALLED BELOW EXISTING PAVEMENT MIGHT CAUSE CO EXISTING SERVICES. SURVEY TO BE CARRIED OUT AND SERVICES TO BE NECESSARY. [11] SETTLEMENT PILES TO AVOID EXISTING PILES. LOCATION AND NATURE O BUILDING FOUNDATIONS UNKNOWN. SURVEY TO BE UNDERTAKEN DURI DEMOLITION PROCESS. [12] ASBESTOS MIGHT BE FOUND IN EXISTING BUILDING. SURVEY TO BE SCCC [13] RISK OF VEHICLE IMPACT TO STRUCTURES ON SOUTHERN SIDE. S			
 PROXIMITY TO EXISTING RETAINED STRUCTURES. SURVEY TO BE UNDE CONFIRM FOUNDATION SETTING OUT. MONITORING STRATEGY TO BE IN DURING CONSTRUCTION TO AVOID EXCESSIVE STRAIN IN EXISTING BUIL DEEP EXCAVATION FOR BASEMENT REQUIRES SUITABLE EDGE PROTEC PREVENT FALLS CONSTRUCTION OF NEW FOUNDATIONS IN CLOSE PROXIMITY TO SUBST EXISTING ADJACENT BUILDINGS. SURVEY TO BE UNDERTAKEN TO CONF CLEARANCES. EXISTING SERVICES TRENCH IN YARD. NEW FOUNDATIONS TO AVOID TR SERVICES TO BE DIVERTED PRIOR TO CONSTRUCTION. LIFTING OF HEAVY ITEMS INCLUDING TRUSS IN CLOSE PROXIMITY TO EX ADJACENT BUILDINGS. INSTALLATION OF NEW STRUCTURE ON EXISTING VCB ROOF. EXISTING SERVICES TO BE DIVERTED PRIOR TO CONTRUCTION. INSTALLATION OF NEW STRUCTURE ON EXISTING VCB ROOF. EXISTING SERVICES TO BE OF ADDITIONAL LOADING, STRENGTHENING MIGHT BE TO BE CHECKED FOR ADDITIONAL LOADING, STRENGTHENING MIGHT BE RISK OF VEHICLE IMPACT TO COLUMNS IN SERVICE YARD SPACE. COLUI DESIGNED FOR VEHICLE IMPACT LOAD. CONTRACTOR TO ENSURE TEMF STABILITY AND SAFE ACCESS FOR VEHICLES DURING CONSTRUCTION OF STRUCTURE. CREATION OF BASEMENT BELOW WATER TABLE. DESIGN PROPOSALS TO DEVELOPED TO ROBUST WATERPROOFING GRADES AS IT CONTAINS CR DEWATERING TO BE CONSIDERED DURING THE TEMPORARY CASE. SECANT WALL INSTALLED BELOW EXISTING PAVEMENT MIGHT CAUSE C EXISTING SERVICES. SURVEY TO BE CARRIED OUT AND SERVICES TO BE NECESSARY. SETTLEMENT PILES TO AVOID EXISTING PILES. LOCATION AND NATURE O BUILDING FOUNDATIONS UNKNOWN. SURVEY TO BE UNDERTAKEN DURI DEMOLITION PROCESS. ASBESTOS MIGHT BE FOUND IN EXISTING BUILDING. SURVEY TO BE SCOC [13] RISK OF VEHICLE IMPACT TO STRUCTURES ON SOUTHERN SIDE. STRUCTURES 			
 PREVENT FALLS [4] CONSTRUCTION OF NEW FOUNDATIONS IN CLOSE PROXIMITY TO SUBST EXISTING ADJACENT BUILDINGS. SURVEY TO BE UNDERTAKEN TO CONF CLEARANCES. [5] EXISTING SERVICES TRENCH IN YARD. NEW FOUNDATIONS TO AVOID TR SERVICES TO BE DIVERTED PRIOR TO CONSTRUCTION. [6] LIFTING OF HEAVY ITEMS INCLUDING TRUSS IN CLOSE PROXIMITY TO EX ADJACENT BUILDINGS. [7] INSTALLATION OF NEW STRUCTURE ON EXISTING VCB ROOF. EXISTING 3 TO BE CHECKED FOR ADDITIONAL LOADING, STRENGTHENING MIGHT BE [8] RISK OF VEHICLE IMPACT TO COLUMNS IN SERVICE YARD SPACE. COLUI DESIGNED FOR VEHICLE IMPACT LOAD. CONTRACTOR TO ENSURE TEMF STABILITY AND SAFE ACCESS FOR VEHICLES DURING CONSTRUCTION OF STRUCTURE. [9] CREATION OF BASEMENT BELOW WATER TABLE. DESIGN PROPOSALS TO DEVELOPED TO ROBUST WATERPROOFING GRADES AS IT CONTAINS CR DEWATERING TO BE CONSIDERED DURING THE TEMPORARY CASE. [10] SECANT WALL INSTALLED BELOW EXISTING PAVEMENT MIGHT CAUSE C EXISTING SERVICES. SURVEY TO BE CARRIED OUT AND SERVICES TO BE NECESSARY. [11] SETTLEMENT PILES TO AVOID EXISTING PILES. LOCATION AND NATURE O BUILDING FOUNDATIONS UNKNOWN. SURVEY TO BE UNDERTAKEN DURI DEMOLITION PROCESS. [12] ASBESTOS MIGHT BE FOUND IN EXISTING BUILDING. SURVEY TO BE SCC [13] RISK OF VEHICLE IMPACT TO STRUCTURES ON SOUTHERN SIDE. STRUCTURES 	RTAKEN TO PLACE		
 EXISTING ADJACENT BUILDINGS. SURVEY TO BE UNDERTAKEN TO CONF CLEARANCES. EXISTING SERVICES TRENCH IN YARD. NEW FOUNDATIONS TO AVOID TR SERVICES TO BE DIVERTED PRIOR TO CONSTRUCTION. LIFTING OF HEAVY ITEMS INCLUDING TRUSS IN CLOSE PROXIMITY TO EX ADJACENT BUILDINGS. INSTALLATION OF NEW STRUCTURE ON EXISTING VCB ROOF. EXISTING S TO BE CHECKED FOR ADDITIONAL LOADING, STRENGTHENING MIGHT BE TO BE CHECKED FOR ADDITIONAL LOADING, STRENGTHENING MIGHT BE RISK OF VEHICLE IMPACT TO COLUMNS IN SERVICE YARD SPACE. COLU DESIGNED FOR VEHICLE IMPACT LOAD. CONTRACTOR TO ENSURE TEMP STABILITY AND SAFE ACCESS FOR VEHICLES DURING CONSTRUCTION C STRUCTURE. CREATION OF BASEMENT BELOW WATER TABLE. DESIGN PROPOSALS TO DEVELOPED TO ROBUST WATERPROOFING GRADES AS IT CONTAINS CR DEWATERING TO BE CONSIDERED DURING THE TEMPORARY CASE. SECANT WALL INSTALLED BELOW EXISTING PAVEMENT MIGHT CAUSE C EXISTING SERVICES. SURVEY TO BE CARRIED OUT AND SERVICES TO BE NECESSARY. SETTLEMENT PILES TO AVOID EXISTING PILES. LOCATION AND NATURE O BUILDING FOUNDATIONS UNKNOWN. SURVEY TO BE UNDERTAKEN DURI DEMOLITION PROCESS. ASBESTOS MIGHT BE FOUND IN EXISTING BUILDING. SURVEY TO BE SCC [13] RISK OF VEHICLE IMPACT TO STRUCTURES ON SOUTHERN SIDE. STRUCTURES. 	FION TO		
 SERVICES TO BE DIVERTED PRIOR TO CONSTRUCTION. [6] LIFTING OF HEAVY ITEMS INCLUDING TRUSS IN CLOSE PROXIMITY TO EXADJACENT BUILDINGS. [7] INSTALLATION OF NEW STRUCTURE ON EXISTING VCB ROOF. EXISTING STO BE CHECKED FOR ADDITIONAL LOADING, STRENGTHENING MIGHT BE [8] RISK OF VEHICLE IMPACT TO COLUMNS IN SERVICE YARD SPACE. COLUD DESIGNED FOR VEHICLE IMPACT LOAD. CONTRACTOR TO ENSURE TEMPS STABILITY AND SAFE ACCESS FOR VEHICLES DURING CONSTRUCTION CONTRUCTURE. [9] CREATION OF BASEMENT BELOW WATER TABLE. DESIGN PROPOSALS TO DEVELOPED TO ROBUST WATERPROOFING GRADES AS IT CONTAINS CRIDEWATERING TO BE CONSIDERED DURING THE TEMPORARY CASE. [10] SECANT WALL INSTALLED BELOW EXISTING PAVEMENT MIGHT CAUSE CONSTRUCTES. SURVEY TO BE CARRIED OUT AND SERVICES TO BE NECESSARY. [11] SETTLEMENT PILES TO AVOID EXISTING PILES. LOCATION AND NATURE OF BUILDING FOUNDATIONS UNKNOWN. SURVEY TO BE UNDERTAKEN DURIDEMOLITION PROCESS. [12] ASBESTOS MIGHT BE FOUND IN EXISTING BUILDING. SURVEY TO BE SCCI [13] RISK OF VEHICLE IMPACT TO STRUCTURES ON SOUTHERN SIDE. STRUCTURES. 			
 ADJACENT BUILDINGS. [7] INSTALLATION OF NEW STRUCTURE ON EXISTING VCB ROOF. EXISTING S TO BE CHECKED FOR ADDITIONAL LOADING, STRENGTHENING MIGHT BE [8] RISK OF VEHICLE IMPACT TO COLUMNS IN SERVICE YARD SPACE. COLU DESIGNED FOR VEHICLE IMPACT LOAD. CONTRACTOR TO ENSURE TEMP STABILITY AND SAFE ACCESS FOR VEHICLES DURING CONSTRUCTION C STRUCTURE. [9] CREATION OF BASEMENT BELOW WATER TABLE. DESIGN PROPOSALS TO DEVELOPED TO ROBUST WATERPROOFING GRADES AS IT CONTAINS CR DEWATERING TO BE CONSIDERED DURING THE TEMPORARY CASE. [10] SECANT WALL INSTALLED BELOW EXISTING PAVEMENT MIGHT CAUSE C EXISTING SERVICES. SURVEY TO BE CARRIED OUT AND SERVICES TO BE NECESSARY. [11] SETTLEMENT PILES TO AVOID EXISTING PILES. LOCATION AND NATURE O BUILDING FOUNDATIONS UNKNOWN. SURVEY TO BE UNDERTAKEN DURI DEMOLITION PROCESS. [12] ASBESTOS MIGHT BE FOUND IN EXISTING BUILDING. SURVEY TO BE SCO [13] RISK OF VEHICLE IMPACT TO STRUCTURES ON SOUTHERN SIDE. STRUCTURES 	ENCH OR		
 TO BE CHECKED FOR ADDITIONAL LOADING, STRENGTHENING MIGHT BE [8] RISK OF VEHICLE IMPACT TO COLUMNS IN SERVICE YARD SPACE. COLUIDESIGNED FOR VEHICLE IMPACT LOAD. CONTRACTOR TO ENSURE TEMPS STABILITY AND SAFE ACCESS FOR VEHICLES DURING CONSTRUCTION CONTRUCTURE. [9] CREATION OF BASEMENT BELOW WATER TABLE. DESIGN PROPOSALS TO DEVELOPED TO ROBUST WATERPROOFING GRADES AS IT CONTAINS CRIDEWATERING TO BE CONSIDERED DURING THE TEMPORARY CASE. [10] SECANT WALL INSTALLED BELOW EXISTING PAVEMENT MIGHT CAUSE CLEXISTING SERVICES. SURVEY TO BE CARRIED OUT AND SERVICES TO BE NECESSARY. [11] SETTLEMENT PILES TO AVOID EXISTING PILES. LOCATION AND NATURE OBUILDING FOUNDATIONS UNKNOWN. SURVEY TO BE UNDERTAKEN DURIDEMOLITION PROCESS. [12] ASBESTOS MIGHT BE FOUND IN EXISTING BUILDING. SURVEY TO BE SCORIAGE. [13] RISK OF VEHICLE IMPACT TO STRUCTURES ON SOUTHERN SIDE. STRUCTURES 	STING		
 DESIGNED FOR VEHICLE IMPACT LOAD. CONTRACTOR TO ENSURE TEMPS STABILITY AND SAFE ACCESS FOR VEHICLES DURING CONSTRUCTION CONTRUCTURE. CREATION OF BASEMENT BELOW WATER TABLE. DESIGN PROPOSALS TO DEVELOPED TO ROBUST WATERPROOFING GRADES AS IT CONTAINS CRIDEWATERING TO BE CONSIDERED DURING THE TEMPORARY CASE. SECANT WALL INSTALLED BELOW EXISTING PAVEMENT MIGHT CAUSE CONTRUCTION OF SERVICES. SURVEY TO BE CARRIED OUT AND SERVICES TO BE NECESSARY. SETTLEMENT PILES TO AVOID EXISTING PILES. LOCATION AND NATURE OF BUILDING FOUNDATIONS UNKNOWN. SURVEY TO BE UNDERTAKEN DURING DEMOLITION PROCESS. ASBESTOS MIGHT BE FOUND IN EXISTING BUILDING. SURVEY TO BE SCORES. 	INSTALLATION OF NEW STRUCTURE ON EXISTING VCB ROOF. EXISTING STRUCTURE TO BE CHECKED FOR ADDITIONAL LOADING, STRENGTHENING MIGHT BE REQUIRED.		
 DEVELOPED TO ROBUST WATERPROOFING GRADES AS IT CONTAINS CR DEWATERING TO BE CONSIDERED DURING THE TEMPORARY CASE. [10] SECANT WALL INSTALLED BELOW EXISTING PAVEMENT MIGHT CAUSE CI EXISTING SERVICES. SURVEY TO BE CARRIED OUT AND SERVICES TO BE NECESSARY. [11] SETTLEMENT PILES TO AVOID EXISTING PILES. LOCATION AND NATURE O BUILDING FOUNDATIONS UNKNOWN. SURVEY TO BE UNDERTAKEN DURI DEMOLITION PROCESS. [12] ASBESTOS MIGHT BE FOUND IN EXISTING BUILDING. SURVEY TO BE SCO [13] RISK OF VEHICLE IMPACT TO STRUCTURES ON SOUTHERN SIDE. STRUC 	RISK OF VEHICLE IMPACT TO COLUMNS IN SERVICE YARD SPACE. COLUMNS DESIGNED FOR VEHICLE IMPACT LOAD. CONTRACTOR TO ENSURE TEMPORARY STABILITY AND SAFE ACCESS FOR VEHICLES DURING CONSTRUCTION OF LINK STRUCTURE.		
 EXISTING SERVICES. SURVEY TO BE CARRIED OUT AND SERVICES TO BE NECESSARY. [11] SETTLEMENT PILES TO AVOID EXISTING PILES. LOCATION AND NATURE BUILDING FOUNDATIONS UNKNOWN. SURVEY TO BE UNDERTAKEN DURI DEMOLITION PROCESS. [12] ASBESTOS MIGHT BE FOUND IN EXISTING BUILDING. SURVEY TO BE SCO [13] RISK OF VEHICLE IMPACT TO STRUCTURES ON SOUTHERN SIDE. STRUCTION SURVEY TO STRUCTURES ON SOUTHERN SIDE. STRUCTURES SIDE. STRUCTURES SITURTURES SITURTURES	CREATION OF BASEMENT BELOW WATER TABLE. DESIGN PROPOSALS TO BE DEVELOPED TO ROBUST WATERPROOFING GRADES AS IT CONTAINS CRITICAL PLANT. DEWATERING TO BE CONSIDERED DURING THE TEMPORARY CASE.		
 BUILDING FOUNDATIONS UNKNOWN. SURVEY TO BE UNDERTAKEN DURI DEMOLITION PROCESS. [12] ASBESTOS MIGHT BE FOUND IN EXISTING BUILDING. SURVEY TO BE SCC [13] RISK OF VEHICLE IMPACT TO STRUCTURES ON SOUTHERN SIDE. STRUCTURES SIDE SIDE SIDE SIDE SIDE SIDE SIDE SI	SECANT WALL INSTALLED BELOW EXISTING PAVEMENT MIGHT CAUSE CLASH WITH EXISTING SERVICES. SURVEY TO BE CARRIED OUT AND SERVICES TO BE DIVERTED IF		
[13] RISK OF VEHICLE IMPACT TO STRUCTURES ON SOUTHERN SIDE. STRUC			
	PED.		
DESIGNED TO RESIST IMPACT LOAD.	URES TO BE		
BDP. GOSH Children's Cancer Centre	PROJECT NUMBER		

Y			

John Sisk & Son Ltd 2410 Regents Court The Crescent Birmingham Business Park Birmingham

SISI

B37 7YE

250 RC WALLS TO

SUPPORT STAIR LANDINGS.

OCTAV BOTNAR

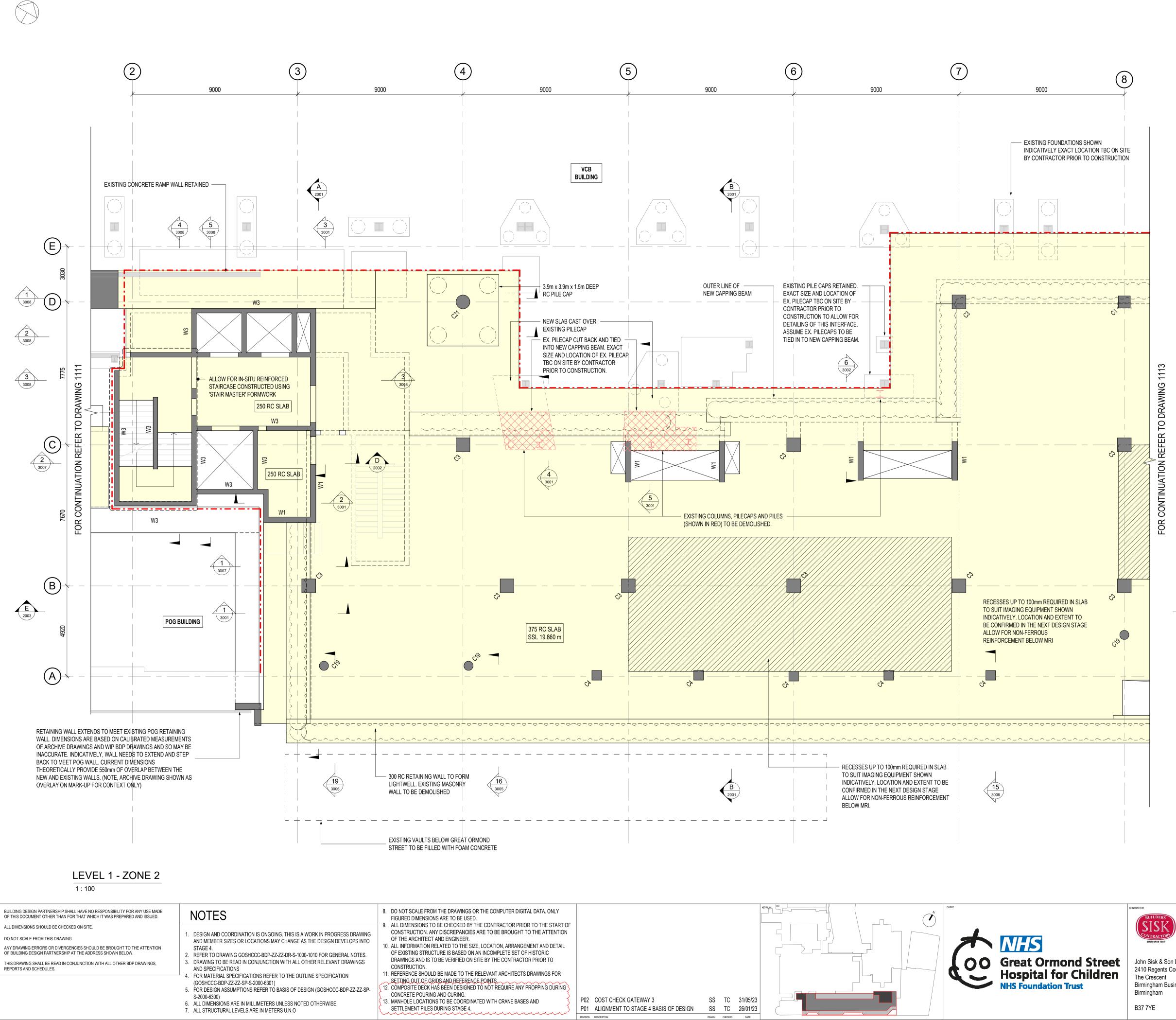
BUILDING

16 Brewhouse Yard Clerkenwell London EC1V 4LJ United Kingdom

T +44 [0]20 7812 8000 www.bdp.com

LEVEL 00 PLAN - ZONE 3

GOSHCCC-BDP-ZZ-00-DR-S-2300-1103						
statusisuitability S.3 - Suitable	e For Review a	& Comment	scale 1:100	DRAWING SIZE	REVISION DATE	5/23
			PURPOSE OF ISSUE	6	0170	REVISION
SS	TC	TC	Preliminary			P02



	LEGEND			
	CDM RISK, REFER TO SCHEDULE			
	EXISTING STRUCTURE IN SECTION			
	EXISTING STRUCTURE SURFACE			
	IN SITU CONCRETE IN SECTION			
	IN SITU CONCRETE SURFACE			
	STEEL SURFACE			
	RECESS IN SLAB			
	50mm MOVEMENT JOINT			
	EXISTING STEEL BEAM			
	NEW STEEL BEAM			
	MOMENT CONNECTION THERMAL BREAK CONNECTOR (ANCON ISOTEC OR SIMILAR) 160 COMPOSITE SLAB WITH			
1 - ₁₁	1.20mm GAUGE COMFLOR 80 DECK 200 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK			
~#~	150 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK			
BEAM SCHEDULE				

TYPE ÚC203x203x46

UKC305x305x198

120x120x12 EA

UKC254x254x89

SHS 80x80x10

100x100x10 EA

UKC152x152x23

UKC305x305x240

UKC203x203x100

UC305x305x118

SHS 150x150x10

UKC203x203x71

UC356x406x393

UKC356x406x551

UKC305x305x283

UB914x305x289

UKC203x203x60

SHS80x80x5

CHS88.9x6.3

UC305x305x97

RHS450x250x16

UB610x305x149

UB533x210x101

UB178x102x19

SHS100x100x10

UB254x146x37

1300x1300 DEEP CAPPING BEAM

750x750 DEEP RC DOWNSTAND

950x1325 DEEP COMPOSITE BEAM

700x550 DEEP RC DOWNSTAND

300x600 DEEP RC DOWNSTAND 300x400 DEEP RC DOWNSTAND

300x450 DEEP RC DOWNSTAND

375x375 DEEP RC BEAM

450x750 DEEP RC BEAM

MARK

B5

B6

B7

B10

B11

B12

B13

B14

B15

B17

B18

B20

B21

B22

B23

B24

B27

B29

B30

B31

B32

B33

B34

CB1

CB4

CB5 CB6

CB7

CB8

CB9

CB10

CB11

COLUMN SCHEDULE			
MARK TYPE			
C1 650 x 650			
C3 750 x 750			
C4 525 x 525			
C5 700 x 700			
C6 300 x 750			
C8 350 x 800			
C12 750 DIA.			
C15 300 x 650			
C16 750x325			
C17 450 DIA			
C18 250x400			
C19 500 DIA			
C20 400 x 950			
C21 800 DIA.			
C22 910 x 750	B		
C23 1610 x 750	Ż		
C24 300 x 300			
SC1 UKC152x152x23			
SC3 UC152x152x37			
SC4 UKC203x203x60			
SC5 SHS 100x100x10			
SC6 UC305x305x118			
SC7 SHS 200x200x10			
SC8 UKC305x305x158			
SC9 UKC254x254x132			
SC11 UC305x305x198			
SC12 UKC305x305x283			
SC13 SHS100x100x8			
SC14 UC305x305x240			
RC WALL SCHEDULE			
MARK TYPE			
W1 300 RC WALL			
W2 250 RC LINER WALL			
W3 250 RC WALL			
W4 150 RC WALL			

350 RC WALL

225 RC WALL

W5

W6

	113
	WING
	DRA
	ER TC
^	NREFER
	INUATION
	CONTINU
	RCC



	CDM RISK SCHEDULE			
REF	DESCRIPTION			
[1]	INSTALLATION OF NEW STAIR AND LIFT CORES IN CLOSE PROXIMITY TO EXISTING RETAINED STRUCTURES. SURVEY TO BE UNDERTAKEN TO CONFIRM CLEARANCES.			
[2]	CREATION OF NEW BASEMENT AND INSTALLATION OF SECANT PILED WALL IN CLOSE PROXIMITY TO EXISTING RETAINED STRUCTURES. SURVEY TO BE UNDERTAKEN TO CONFIRM FOUNDATION SETTING OUT. MONITORING STRATEGY TO BE IN PLACE DURING CONSTRUCTION TO AVOID EXCESSIVE STRAIN IN EXISTING BUILDING.			
[3]	DEEP EXCAVATION FOR BASEMENT REQUIRES SUITABLE EDGE PROTECTION TO PREVENT FALLS			
[4]	CONSTRUCTION OF NEW FOUNDATIONS IN CLOSE PROXIMITY TO SUBSTRUCTURE OF EXISTING ADJACENT BUILDINGS. SURVEY TO BE UNDERTAKEN TO CONFIRM CLEARANCES.			
[5]	EXISTING SERVICES TRENCH IN YARD. NEW FOUNDATIONS TO AVOID TRENCH OR SERVICES TO BE DIVERTED PRIOR TO CONSTRUCTION.			
[6]	LIFTING OF HEAVY ITEMS INCLUDING TRUSS IN CLOSE PROXIMITY TO EXISTING ADJACENT BUILDINGS.			
[7]	INSTALLATION OF NEW STRUCTURE ON EXISTING VCB ROOF. EXISTING STRUCTURE TO BE CHECKED FOR ADDITIONAL LOADING, STRENGTHENING MIGHT BE REQUIRED.			
[8]	RISK OF VEHICLE IMPACT TO COLUMNS IN SERVICE YARD SPACE. COLUMNS DESIGNED FOR VEHICLE IMPACT LOAD. CONTRACTOR TO ENSURE TEMPORARY STABILITY AND SAFE ACCESS FOR VEHICLES DURING CONSTRUCTION OF LINK STRUCTURE.			
[9]	CREATION OF BASEMENT BELOW WATER TABLE. DESIGN PROPOSALS TO BE DEVELOPED TO ROBUST WATERPROOFING GRADES AS IT CONTAINS CRITICAL PLANT. DEWATERING TO BE CONSIDERED DURING THE TEMPORARY CASE.			
[10]	SECANT WALL INSTALLED BELOW EXISTING PAVEMENT MIGHT CAUSE CLASH WITH EXISTING SERVICES. SURVEY TO BE CARRIED OUT AND SERVICES TO BE DIVERTED IF NECESSARY.			
[11]	SETTLEMENT PILES TO AVOID EXISTING PILES. LOCATION AND NATURE OF EXISTING BUILDING FOUNDATIONS UNKNOWN. SURVEY TO BE UNDERTAKEN DURING DEMOLITION PROCESS.			
[12]	ASBESTOS MIGHT BE FOUND IN EXISTING BUILDING. SURVEY TO BE SCOPED.			
[13]	RISK OF VEHICLE IMPACT TO STRUCTURES ON SOUTHERN SIDE. STRUCTURES TO BE DESIGNED TO RESIST IMPACT LOAD.			
	PROJECT TILE			
ESIGN LEAD	GOSH Children's Cancer Centre			
В	P200759			
	DRAWING TITLE			

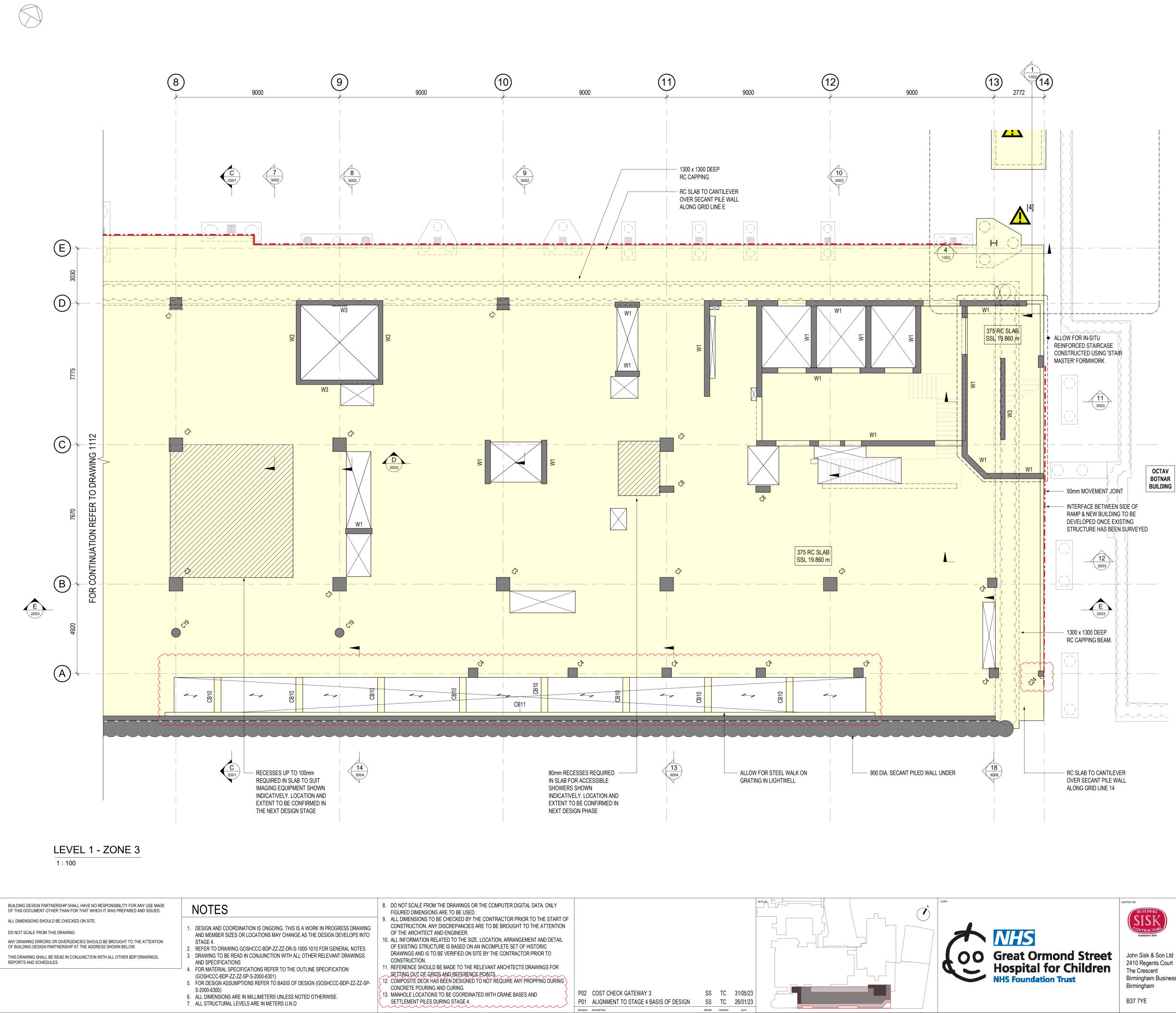
John Sisk & Son Ltd 2410 Regents Court Birmingham Business Park

16 Brewhouse Yard Clerkenwell London EC1V 4LJ United Kingdom

T +44 [0]20 7812 8000 www.bdp.com

LEVEL 01 PLAN - ZONE 2

GOSHCCC-BDP-ZZ-01-DR-S-2300-1112						
Statussumentry S3 - Suitable For Review & Comment			scale 1:100	@ A1	REVISION DATE	5/23
draw by SS	CHECKED BY	APPROVED BY	PURPOSE OF ISSUE Preliminary			PEVISION PO2



	LEGEND
	CDM RISK, REFER TO SCHEDULE
	EXISTING STRUCTURE IN SECTION
	EXISTING STRUCTURE SURFACE
	IN SITU CONCRETE IN SECTION
	IN SITU CONCRETE SURFACE
	STEEL SURFACE
	RECESS IN SLAB
	50mm MOVEMENT JOINT
	EXISTING STEEL BEAM
	NEW STEEL BEAM
	MOMENT CONNECTION THERMAL BREAK CONNECTOR (ANCON ISOTEC OR SIMILAR) 160 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK 200 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK 150 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK
E	BEAM SCHEDULE
MARK	TYPE
	100000.00010

00	000 / 100		
C8	350 x 800		
C12	750 DIA.		
C15	300 x 650		
C16	750x325		
C17	450 DIA		
C18	250x400		
C19	500 DIA		
C20	400 x 950		
C21	800 DIA.		
C22	910 x 750		
C23	1610 x 750		
~ ~ <u>C</u> 24	300 x 300		
SC1	UKC152x152x23		
SC3	UC152x152x37		
SC4	UKC203x203x60		
SC5	SHS 100x100x10		
SC6	UC305x305x118		
SC7	SHS 200x200x10		
SC8	UKC305x305x158		
SC9	UKC254x254x132		
SC11	UC305x305x198		
SC12	UKC305x305x283		
SC13	SHS100x100x8		
SC14	UC305x305x240		
RC W	ALL SCHEDULE		
MARK	TYPE		
W1	300 RC WALL		
W2	250 RC LINER WALL		
W3 250 RC WALL			
W4	150 RC WALL		
W5	350 RC WALL		
W6 225 KC WALL			

COLUMN SCHEDULE

TYPE

650 x 650

750 x 750

525 x 525

700 x 700

300 x 750

MARK

C1

C3

C4

C5

C6

TYPE UC203x203x46 UKC305x305x198 120x120x12 EA UKC254x254x89 SHS 80x80x10 100x100x10 EA	
UKC305x305x198 120x120x12 EA UKC254x254x89 SHS 80x80x10	
120x120x12 EA UKC254x254x89 SHS 80x80x10	
UKC254x254x89 SHS 80x80x10	
SHS 80x80x10	
100v100v10 FA	
UKC152x152x23	
UKC305x305x240	
UKC203x203x100	
UC305x305x118	
SHS 150x150x10	
UKC203x203x71	
UC356x406x393	
UKC356x406x551	
UKC305x305x283	
UB914x305x289	
UKC203x203x60	
SHS80x80x5	
CHS88.9x6.3	
B27 UC305x305x97	
RHS450x250x16	
UB610x305x149 2002	
UB533x210x101	
UB178x102x19	
SHS100x100x10	
UB254x146x37	
1300x1300 DEEP CAPPING BEAM	
750x750 DEEP RC DOWNSTAND	
950x1325 DEEP COMPOSITE BEAM	
700x550 DEEP RC DOWNSTAND	
300x600 DEEP RC DOWNSTAND	
300x400 DEEP RC DOWNSTAND	
300x450 DEEP RC DOWNSTAND	
375x375 DEEP RC BEAM	
450x750 DEEP RC BEAM	

			CDM RISK SCHEDULE	
	REF		DESCRIPTION	
	[1]		N STAIR AND LIFT CORES IN CLOSE PROXIMITY TO EXI- ES. SURVEY TO BE UNDERTAKEN TO CONFIRM CLEAR	
	[2]	PROXIMITY TO EXISTI CONFIRM FOUNDATIC	ASEMENT AND INSTALLATION OF SECANT PILED WALL NG RETAINED STRUCTURES. SURVEY TO BE UNDERTA IN SETTING OUT. MONITORING STRATEGY TO BE IN PL/ ON TO AVOID EXCESSIVE STRAIN IN EXISTING BUILDIN	KEN TO ACE
	[3]	DEEP EXCAVATION FO PREVENT FALLS	OR BASEMENT REQUIRES SUITABLE EDGE PROTECTIO	N TO
	[4]		EW FOUNDATIONS IN CLOSE PROXIMITY TO SUBSTRUC BUILDINGS. SURVEY TO BE UNDERTAKEN TO CONFIRM	
	[5]		RENCH IN YARD. NEW FOUNDATIONS TO AVOID TRENO RTED PRIOR TO CONSTRUCTION.	CHOR
	[6]	LIFTING OF HEAVY ITE ADJACENT BUILDINGS	EMS INCLUDING TRUSS IN CLOSE PROXIMITY TO EXIST 3.	ING
	[7]		N STRUCTURE ON EXISTING VCB ROOF. EXISTING STR ADDITIONAL LOADING, STRENGTHENING MIGHT BE RE	
	[8]	DESIGNED FOR VEHIC	ACT TO COLUMNS IN SERVICE YARD SPACE. COLUMNS CLE IMPACT LOAD. CONTRACTOR TO ENSURE TEMPOR ACCESS FOR VEHICLES DURING CONSTRUCTION OF LI	ARY
	[9]	DEVELOPED TO ROBL	ENT BELOW WATER TABLE. DESIGN PROPOSALS TO BE IST WATERPROOFING GRADES AS IT CONTAINS CRITIC CONSIDERED DURING THE TEMPORARY CASE.	
	[10]		LED BELOW EXISTING PAVEMENT MIGHT CAUSE CLAS SURVEY TO BE CARRIED OUT AND SERVICES TO BE DI	
	[11]		O AVOID EXISTING PILES. LOCATION AND NATURE OF E NNS UNKNOWN. SURVEY TO BE UNDERTAKEN DURING S.	EXISTING
	[12]	ASBESTOS MIGHT BE	FOUND IN EXISTING BUILDING. SURVEY TO BE SCOPED	Э.
	[13]	RISK OF VEHICLE IMP DESIGNED TO RESIST	ACT TO STRUCTURES ON SOUTHERN SIDE. STRUCTUR IMPACT LOAD.	ES TO BE
D	ESIGN LEAD		GOSH Children's Cancer Centre	
	В	DP.		PROJECT NUMBER P2007598
			LEVEL 01 PLAN - ZONE 3	

John Sisk & Son Ltd 2410 Regents Court Birmingham Business Park

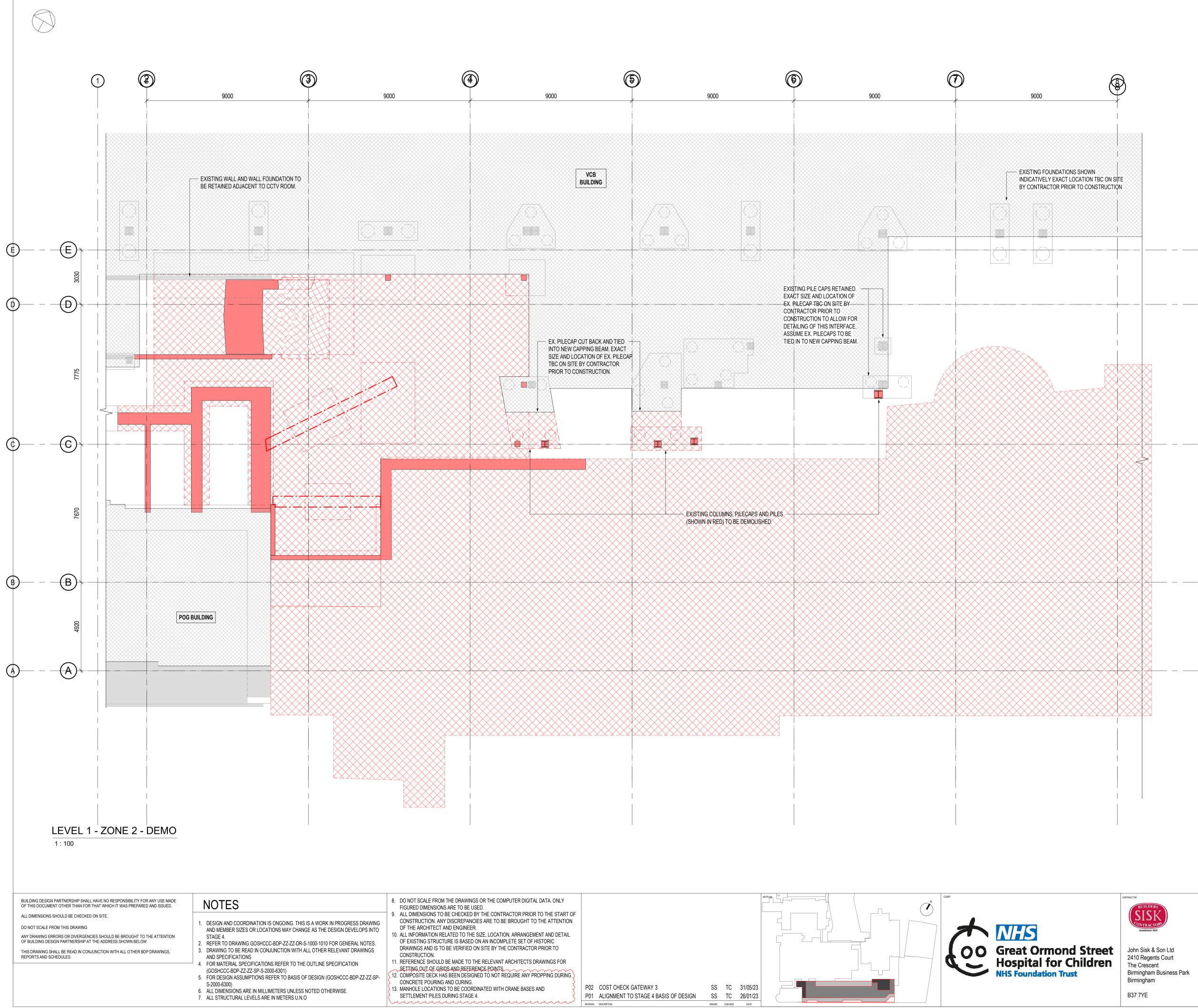
Clerkenwell London EC1V 4LJ United Kingdom T +44 [0]20 7812 8000

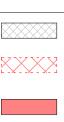
www.bdp.com

16 Brewhouse Yard

LEVEL 01 PLAN - ZONE 3

DRAWING NO.							
GOS	GOSHCCC-BDP-ZZ-01-DR-S-2300-1113						
STATUS/SUITABILITY				SCALE	DRAWING SIZE	REVISION DATE	
S3 - Suit	lable	For Review a	& Comment	1:100	@ A1	31/0	5/23
DRAW BY		CHECKED BY	APPROVED BY	PURPOSE OF ISSUE			REVISION
SS		TC	TC	Preliminary			P02
1			1	1			





EXISTING STRUCTURE TO BE RETAINED EXISTING STRUCTURE TO BE

DEMOLISHED - SURFACE EXISTING STRUCTURE TO BE DEMOLISHED - SECTION

LEGEND

John Sisk & Son Ltd 2410 Regents Court Birmingham Business Park



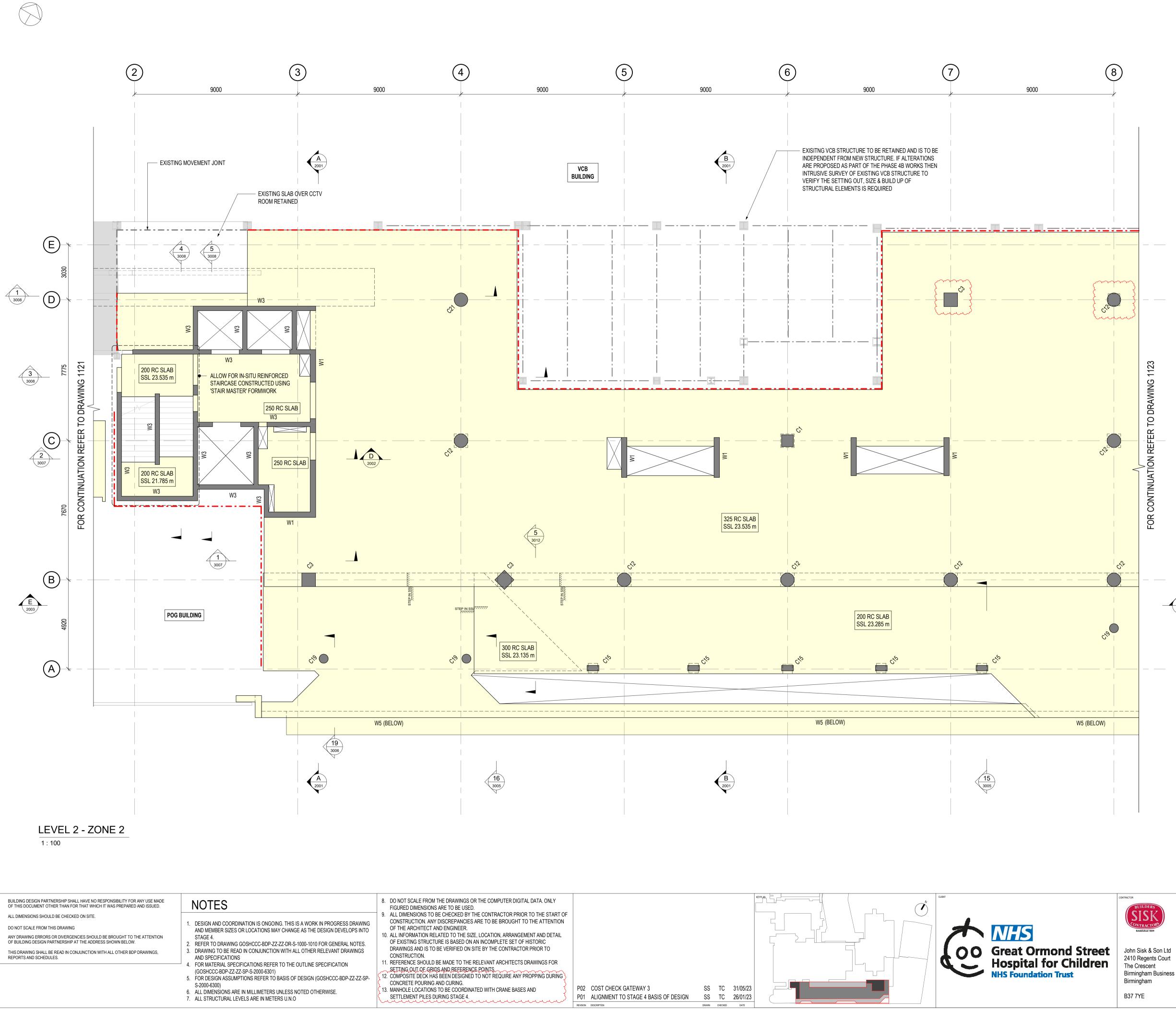
Clerkenwell London EC1V 4LJ United Kingdom T +44 [0]20 7812 8000 www.bdp.com

GOSH Children's Cancer Centre

LEVEL 01 PLAN - ZONE 2 - DEMOLITION

GOSHCCC-BDP-ZZ-01-DR-S-2300-9112						
STATUSSURALITY S3 - Suitable For Review & Comment			scale 1:100	DRAWING SIZE	REVISION DATE	5/23
DRAW BY SS	снескер ву	APPROVED BY TC	PURPOSE OF ISSUE Preliminary			PO2

P2007598



		LEGEND
		CDM RISK, REFER TO SCHEDULE
		EXISTING STRUCTURE IN SECTION
		EXISTING STRUCTURE SURFACE
		IN SITU CONCRETE IN SECTION
		IN SITU CONCRETE SURFACE
		STEEL SURFACE
		RECESS IN SLAB
		50mm MOVEMENT JOINT
		EXISTING STEEL BEAM
\sum		- NEW STEEL BEAM
}	—	- MOMENT CONNECTION
		THERMAL BREAK CONNECTOR (ANCON ISOTEC OR SIMILAR)
_		160 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK
	47	200 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK
	~+->	150 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK
		BEAM SCHEDULE
~	MARK	TYPE
	B1	ÚC203x203x46
-	B2	UKC305x305x198

B5

B6

B7

B10

B11

B12

B13

B14

B15

B17

B18

B20

B21

B22

B23

B24

B27

B29

B30

B31

B32

B33

B34

CB1

CB4

CB6

CB7

CB8

CB9

CB10

CB11

120x120x12 EA

UKC254x254x89

SHS 80x80x10

100x100x10 EA

UKC152x152x23

UKC305x305x240

UKC203x203x100

UC305x305x118

SHS 150x150x10

UKC203x203x71

UC356x406x393

UKC356x406x551

UKC305x305x283

UB914x305x289

UKC203x203x60

SHS80x80x5

CHS88.9x6.3

UC305x305x97

RHS450x250x16

UB610x305x149

UB533x210x101

UB178x102x19

SHS100x100x10

UB254x146x37

1300x1300 DEEP CAPPING BEAM

750x750 DEEP RC DOWNSTAND

700x550 DEEP RC DOWNSTAND

300x600 DEEP RC DOWNSTAND

300x400 DEEP RC DOWNSTAND

300x450 DEEP RC DOWNSTAND

375x375 DEEP RC BEAM

450x750 DEEP RC BEAM

CB5 950x1325 DEEP COMPOSITE BEAM

COLUI	MN SCHEDULE
MARK	TYPE
C1	650 x 650
C3	750 x 750
C4	525 x 525
C5	700 x 700
C6	300 x 750
C8	350 x 800
C12	750 DIA.
C15	300 x 650
C16	750x325
C17	450 DIA
C18	250x400
C19	500 DIA
C20	400 x 950
C21	800 DIA.
C22	910 x 750
C23	1610 x 750
C24	300 x 300
SC1	UKC152x152x23
SC3	UC152x152x37
SC4	UKC203x203x60
SC5	SHS 100x100x10
SC6	UC305x305x118
SC7	SHS 200x200x10
SC8	UKC305x305x158
SC9	UKC254x254x132
SC11	UC305x305x198
SC12	UKC305x305x283
SC13	SHS100x100x8
SC14	UC305x305x240
RC WA	ALL SCHEDULE
MARK	TYPE
W1	300 RC WALL
W2	250 RC LINER WALL
W3	250 RC WALL
W4	150 RC WALL

350 RC WALL

225 RC WALL

W5

W6

	123	
	NING 、	
	TO DRAWING 1123	
_	ER TO	
	ION REF	
>	R CONTINUATION REFER	
	ONTIN	
	R O	



	CDM RISK SCHEDULE			
REF	DESCRIPTION			
[1]	INSTALLATION OF NEW STAIR AND LIFT CORES IN CLOSE PROXIMITY TO EXISTING RETAINED STRUCTURES. SURVEY TO BE UNDERTAKEN TO CONFIRM CLEARANCES.			
[2]	CREATION OF NEW BASEMENT AND INSTALLATION OF SECANT PILED WALL IN CLOSE PROXIMITY TO EXISTING RETAINED STRUCTURES. SURVEY TO BE UNDERTAKEN TO CONFIRM FOUNDATION SETTING OUT. MONITORING STRATEGY TO BE IN PLACE DURING CONSTRUCTION TO AVOID EXCESSIVE STRAIN IN EXISTING BUILDING.			
[3]	DEEP EXCAVATION FOR BASEMENT REQUIRES SUITABLE EDGE PROTECTION TO PREVENT FALLS			
[4]	CONSTRUCTION OF NEW FOUNDATIONS IN CLOSE PROXIMITY TO SUBSTRUCTURE OF EXISTING ADJACENT BUILDINGS. SURVEY TO BE UNDERTAKEN TO CONFIRM CLEARANCES.			
[5]	EXISTING SERVICES TRENCH IN YARD. NEW FOUNDATIONS TO AVOID TRENCH OR SERVICES TO BE DIVERTED PRIOR TO CONSTRUCTION.			
[6]	LIFTING OF HEAVY ITEMS INCLUDING TRUSS IN CLOSE PROXIMITY TO EXISTING ADJACENT BUILDINGS.			
[7]	INSTALLATION OF NEW STRUCTURE ON EXISTING VCB ROOF. EXISTING STRUCTURE TO BE CHECKED FOR ADDITIONAL LOADING, STRENGTHENING MIGHT BE REQUIRED.			
[8]	[8] RISK OF VEHICLE IMPACT TO COLUMNS IN SERVICE YARD SPACE. COLUMNS DESIGNED FOR VEHICLE IMPACT LOAD. CONTRACTOR TO ENSURE TEMPORARY STABILITY AND SAFE ACCESS FOR VEHICLES DURING CONSTRUCTION OF LINK STRUCTURE.			
[9]	[9] CREATION OF BASEMENT BELOW WATER TABLE. DESIGN PROPOSALS TO BE DEVELOPED TO ROBUST WATERPROOFING GRADES AS IT CONTAINS CRITICAL PLANT. DEWATERING TO BE CONSIDERED DURING THE TEMPORARY CASE.			
[10]				
[11]	[11] SETTLEMENT PILES TO AVOID EXISTING PILES. LOCATION AND NATURE OF EXISTING BUILDING FOUNDATIONS UNKNOWN. SURVEY TO BE UNDERTAKEN DURING DEMOLITION PROCESS.			
[12]	ASBESTOS MIGHT BE FOUND IN EXISTING BUILDING. SURVEY TO BE SCOPED.			
[13]	RISK OF VEHICLE IMPACT TO STRUCTURES ON SOUTHERN SIDE. STRUCTURES TO BE DESIGNED TO RESIST IMPACT LOAD.			
B	DPR. GOSH Children's Cancer Centre P200759			

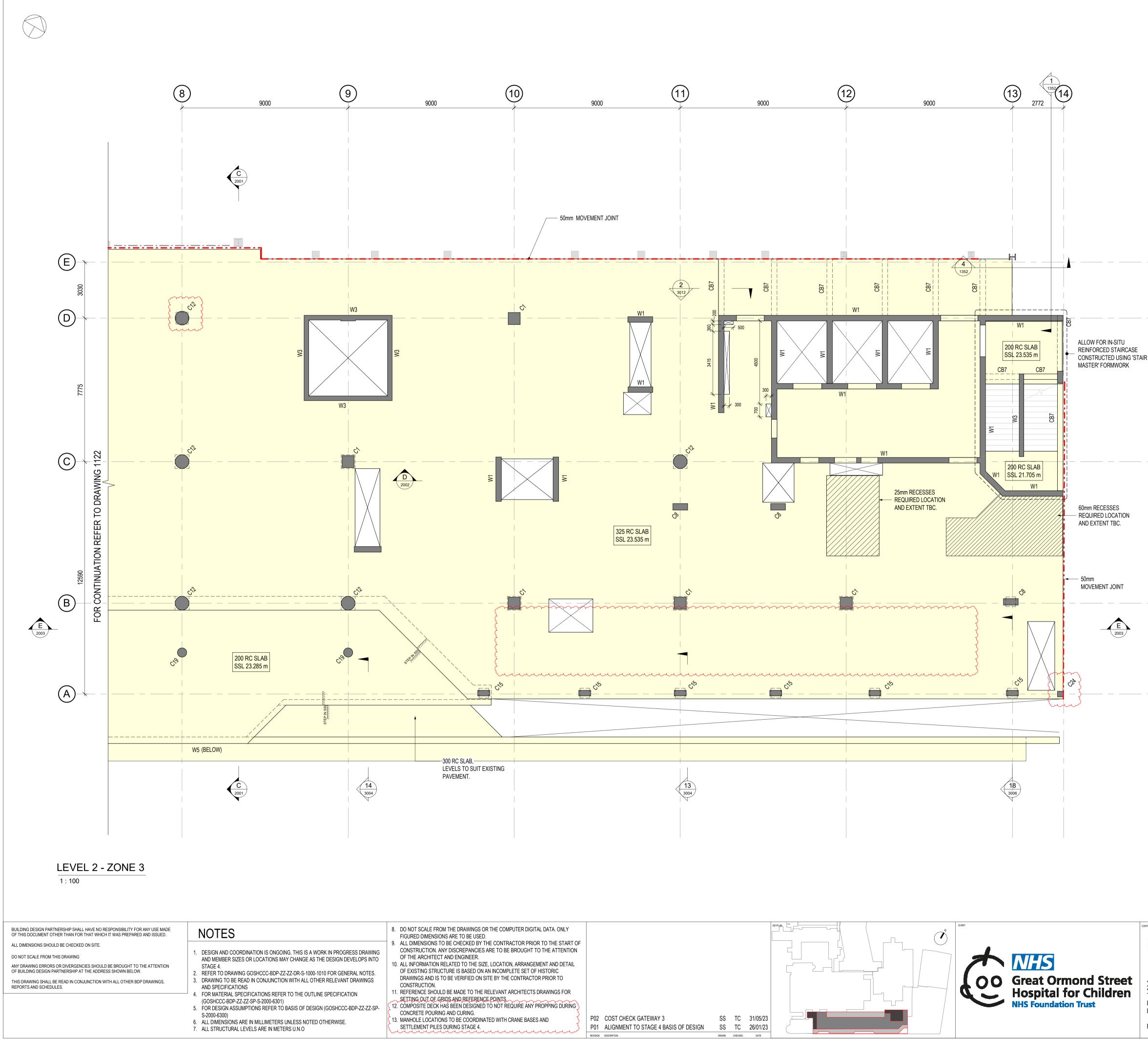
Birmingham Business Park

16 Brewhouse Yard Clerkenwell London EC1V 4LJ United Kingdom

T +44 [0]20 7812 8000 www.bdp.com

LEVEL 02 PLAN - ZONE 2

GOSHCCC-BDP-ZZ-02-DR-S-2300-1122						
statussuttatury S3 - Suitable For Review & Comment			1:100	@ A1	revision date 31/0	5/23
SS.	TC	APPROVED BY TC	PURPOSE OF ISSUE Preliminary			PO2



	LEGEND
	CDM RISK, REFER TO SCHEDULE
	EXISTING STRUCTURE IN SECTION
	EXISTING STRUCTURE SURFACE
	IN SITU CONCRETE IN SECTION
	IN SITU CONCRETE SURFACE
	STEEL SURFACE
////	RECESS IN SLAB
	50mm MOVEMENT JOINT
	EXISTING STEEL BEAM
	- NEW STEEL BEAM
	 MOMENT CONNECTION THERMAL BREAK CONNECTOR (ANCON ISOTEC OR SIMILAR) 160 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK
~ //	200 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK
	150 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK
	BEAM SCHEDULE
ARK	TYPE
B1	ÚC203x203x46

UKC305x305x198

120x120x12 EA UKC254x254x89

SHS 80x80x10

100x100x10 EA

UKC152x152x23

UKC305x305x240

UKC203x203x100

UC305x305x118

SHS 150x150x10

UKC203x203x71

UC356x406x393

UKC356x406x551 UKC305x305x283

UB914x305x289

UKC203x203x60 SHS80x80x5

CHS88.9x6.3

UC305x305x97

RHS450x250x16

UB610x305x149

UB533x210x101

UB178x102x19

SHS100x100x10

UB254x146x37

1300x1300 DEEP CAPPING BEAM

750x750 DEEP RC DOWNSTAND

B5

B6

B7

B10

B11

B12

B13

B14

B15

B17

B18 B20

B21

B22 B23

B24

B27

B29

B30

B31

B32

B33

B34

CB1

CB4

COLU	MN SCHEDULE
MARK	TYPE
C1	650 x 650
C3	750 x 750
C4	525 x 525
C5	700 x 700
C6	300 x 750
C8	350 x 800
C12	750 DIA.
C15	300 x 650
C16	750x325
C17	450 DIA
C18	250x400
C19	500 DIA
C20	400 x 950
C21	800 DIA.
C22	910 x 750
C23	1610 x 750
C24	300 x 300
SC1	UKC152x152x23
SC3	UC152x152x37
SC4	UKC203x203x60
SC5	SHS 100x100x10
SC6	UC305x305x118
SC7	SHS 200x200x10
SC8	UKC305x305x158
SC9	UKC254x254x132
SC11	UC305x305x198
SC12	UKC305x305x283
SC13	SHS100x100x8
SC14	UC305x305x240
RC W	ALL SCHEDULE
MARK	TYPE
W1	300 RC WALL
W2	250 RC LINER WALL
W3	250 RC WALL
W4	150 RC WALL
W5	350 RC WALL
W6	225 RC WALL

			004	1 JUXI JU DEEF NO DO	JUNGTAND
			CB5	950x1325 DEEP COMP	OSITE BEAM
			CB6	700x550 DEEP RC DC	OWNSTAND
			CB7	300x600 DEEP RC DC	
			CB8	300x400 DEEP RC DC	
			CB9	300x450 DEEP RC DC	
			CB10	375x375 DEEP R	\sim
			CB10	450x750 DEEP R	
			Lun		
		CDM RISK S			
REF			SCRIPTIO		
[1]				CLOSE PROXIMITY TO E AKEN TO CONFIRM CLE	
[2]				N OF SECANT PILED WAI	
				SURVEY TO BE UNDER	
				NG STRATEGY TO BE IN	
101				TRAIN IN EXISTING BUILD	
[3]	DEEP EXCAVATION F PREVENT FALLS	OR BASEMENT RE	QUIRES SL	JITABLE EDGE PROTECT	ION TO
[4]				E PROXIMITY TO SUBSTR	
	EXISTING ADJACENT BUILDINGS. SURVEY TO BE UNDERTAKEN TO CONFIRM CLEARANCES.				
[5]				IDATIONS TO AVOID TRE	ENCH OR
	SERVICES TO BE DIV				
[6]	LIFTING OF HEAVY IT ADJACENT BUILDING		RUSS IN CI	OSE PROXIMITY TO EXI	STING
[7]	INSTALLATION OF NE	W STRUCTURE ON	N EXISTING	VCB ROOF. EXISTING S	TRUCTURE
	TO BE CHECKED FOR	R ADDITIONAL LOAI	DING, STRI	ENGTHENING MIGHT BE	REQUIRED.
[8]				CE YARD SPACE. COLUN	
				TOR TO ENSURE TEMP	
	STABILITY AND SAFE ACCESS FOR VEHICLES DURING CONSTRUCTION OF LINK STRUCTURE.				
[9]	CREATION OF BASEN	IENT BELOW WATE	ER TABLE.	DESIGN PROPOSALS TO	BE
				ES AS IT CONTAINS CRI	
	DEWATERING TO BE				
[10]	SECANT WALL INSTA	LLED BELOW EXIS	TING PAVE	MENT MIGHT CAUSE CL	ASH WITH
		SURVEY TO BE CA	ARRIED OU	T AND SERVICES TO BE	DIVERTED IF
	NECESSARY.				
[11]	SETTLEMENT PILES	TO AVOID EXISTING	G PILES. LO	CATION AND NATURE O	FEXISTING
-			URVEY TO	BE UNDERTAKEN DURIN	IG
	DEMOLITION PROCES	SS.			
[12]	ASBESTOS MIGHT BE	FOUND IN EXISTI	NG BUILDI	NG. SURVEY TO BE SCOP	PED.
13]	RISK OF VEHICLE IMF	PACT TO STRUCTU	RES ON SO	OUTHERN SIDE. STRUCT	URES TO BE
•	DESIGNED TO RESIS			-	
)		PROJECT TITLE			
		GOSH Chi	ldren's	Cancer Centre	
K	DP.				PROJECT NUMBER
		DRAWING TITLE			1 2007
		LEVEL 02 PLA	AN - ZONE	Ξ3	



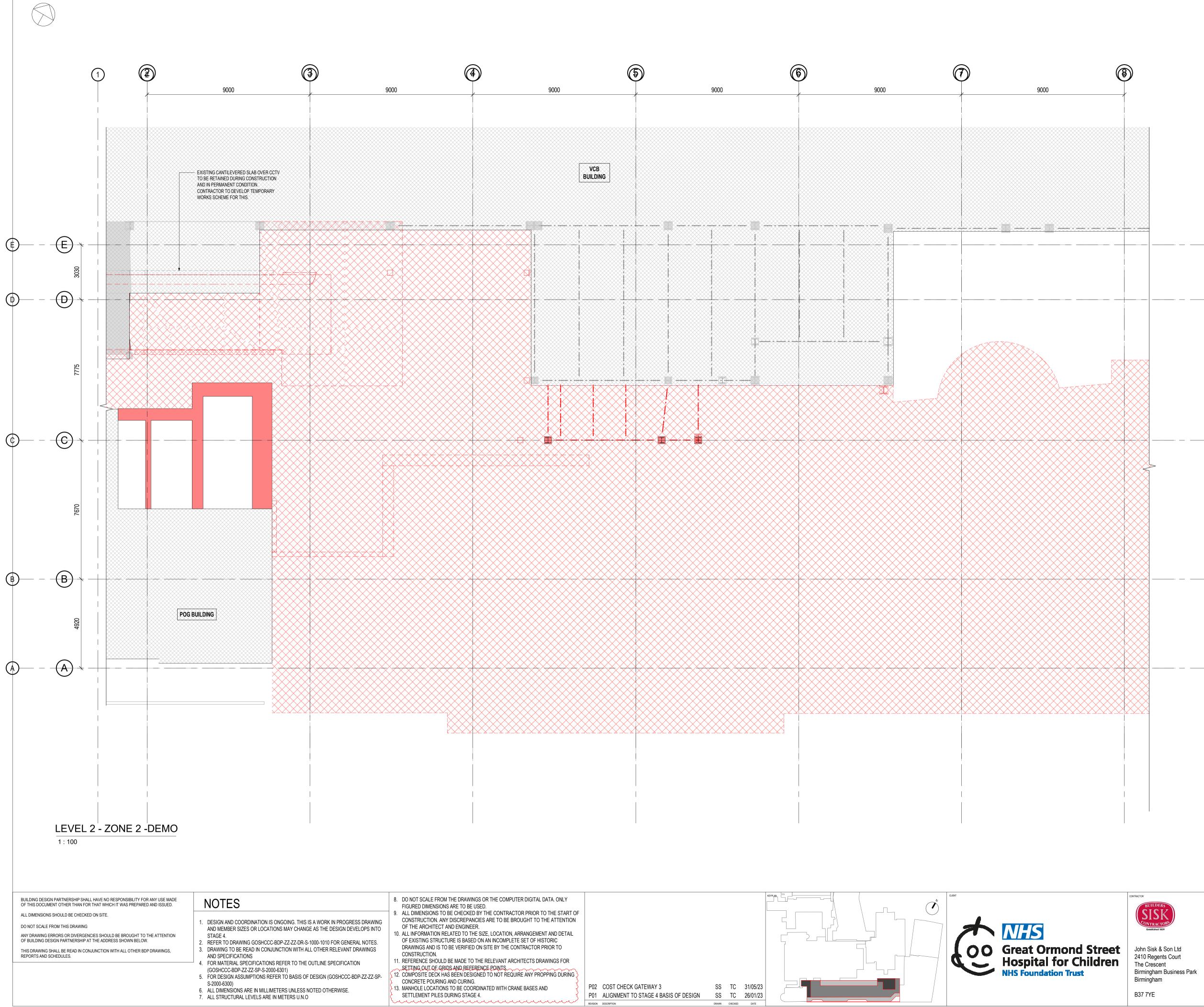
John Sisk & Son Ltd 2410 Regents Court The Crescent Birmingham Business Park Birmingham

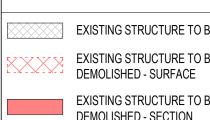
16 Brewhouse Yard Clerkenwell London EC1V 4LJ United Kingdom T +44 [0]20 7812 8000

www.bdp.com

LEVEL 02 PLAN - ZONE 3

_		CC-BDP-7	Z-02-DR-	8-2300-1123	3		
	STREESUMELTY Sole Sole Sole Sole Stress and Sole Sole Stress and Sole Sole Sole Sole Sole Sole Sole Sole					5/23	
	SS	CHECKED BY	TC	PURPOSE OF ISSUE Preliminary			P02





EXISTING STRUCTURE TO BE RETAINED EXISTING STRUCTURE TO BE

EXISTING STRUCTURE TO BE DEMOLISHED - SECTION

LEGEND

John Sisk & Son Ltd 2410 Regents Court Birmingham Business Park



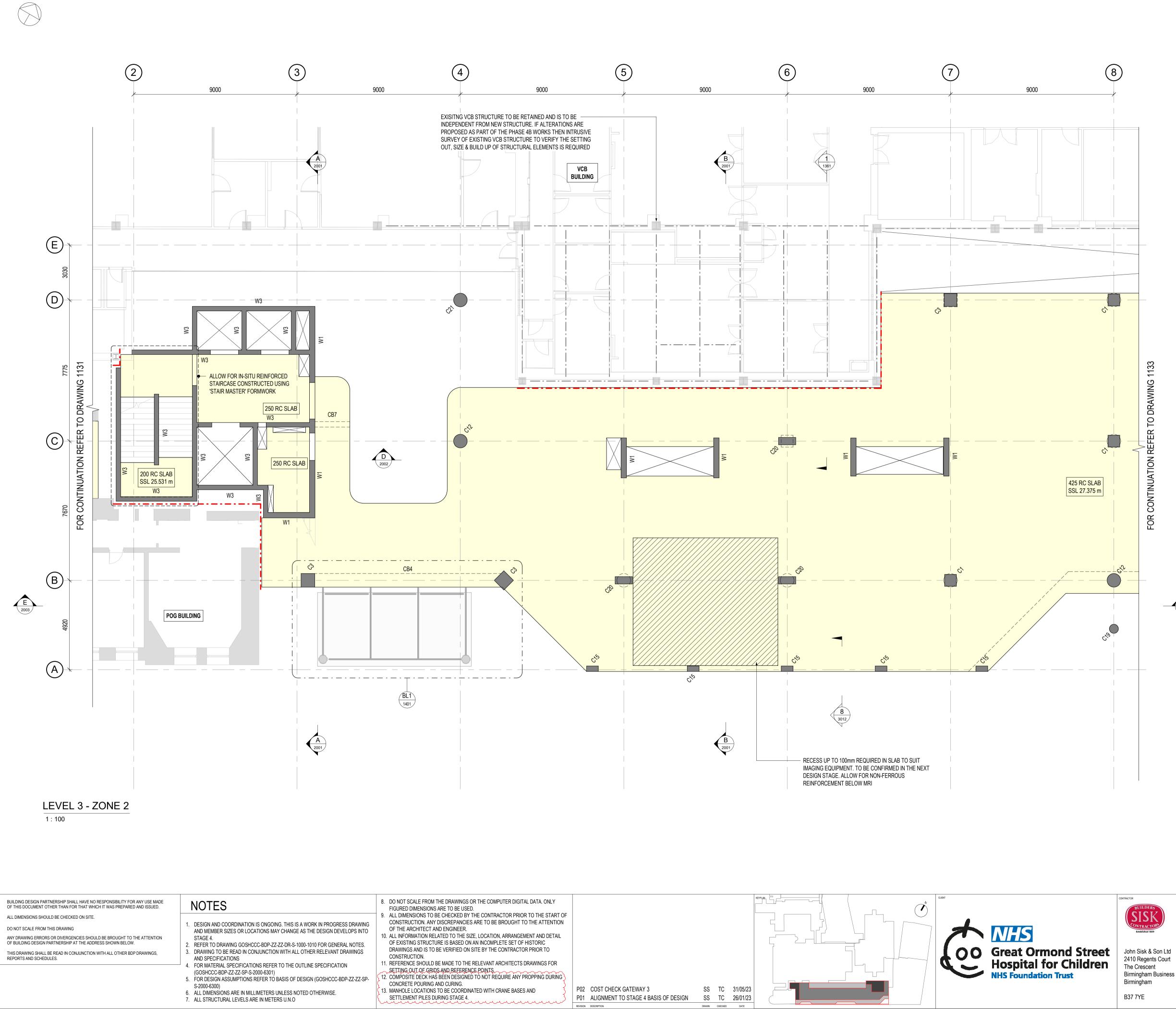
16 Brewhouse Yard Clerkenwell London EC1V 4LJ United Kingdom T +44 [0]20 7812 8000 www.bdp.com

GOSH Children's Cancer Centre

LEVEL 02 PLAN - ZONE 2 - DEMOLITION

DRAWING NO.						
GOSHCCC-BDP-ZZ-02-DR-S-2300-9122						
STATUSSUTABLITY SCALE DRAWING SZE REVISION DATE						
S3 - Suitable For Review & Comment			1:100	@ A1	31/0	5/23
DRAW BY	CHECKED BY	APPROVED BY	PURPOSE OF ISSUE			REVISION
SS	TC	TC	Preliminary			P02

P2007598



	LEGEND
	CDM RISK, REFER TO SCHEDULE
	EXISTING STRUCTURE IN SECTION
	EXISTING STRUCTURE SURFACE
	IN SITU CONCRETE IN SECTION
	IN SITU CONCRETE SURFACE
	STEEL SURFACE
	RECESS IN SLAB
<u> </u>	50mm MOVEMENT JOINT
	EXISTING STEEL BEAM
	- NEW STEEL BEAM
	 MOMENT CONNECTION THERMAL BREAK CONNECTOR (ANCON ISOTEC OR SIMILAR) 160 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECH
#	200 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECH 150 COMPOSITE SLAB WITH
	1.20mm GAUGE COMFLOR 80 DECH
	BEAM SCHEDULE
MARK	TYPE

COLU	MN SCHEDULE
MARK	TYPE
C1	650 x 650
C3	750 x 750
C4	525 x 525
C5	700 x 700
C6	300 x 750
C8	350 x 800
C12	750 DIA.
C15	300 x 650
C16	750x325
C17	450 DIA
C18	250x400
C19	500 DIA
C20	400 x 950
C21	800 DIA.
C22	910 x 750
C23	1610 x 750
G24	300 x 300
SC1	UKC152x152x23
SC3	UC152x152x37
SC4	UKC203x203x60
SC5	SHS 100x100x10
SC6	UC305x305x118
SC7	SHS 200x200x10
SC8	UKC305x305x158
SC9	UKC254x254x132
SC11	UC305x305x198
SC12	UKC305x305x283
SC13	SHS100x100x8
SC14	UC305x305x240
RC WA	ALL SCHEDULE
MARK	TYPE
W1	300 RC WALL
W2	250 RC LINER WALL
W3	250 RC WALL
W4	150 RC WALL

350 RC WALL

225 RC WALL

W5

W6

B1	UC203x203x46
B2	UKC305x305x198
B4	120x120x12 EA
B5	UKC254x254x89
B6	SHS 80x80x10
B7	100x100x10 EA
B10	UKC152x152x23
B11	UKC305x305x240
B12	UKC203x203x100
B13	UC305x305x118
B14	SHS 150x150x10
B15	UKC203x203x71
B17	UC356x406x393
B18	UKC356x406x551
B20	UKC305x305x283
B21	UB914x305x289
B22	UKC203x203x60
B23	SHS80x80x5
B24	CHS88.9x6.3
B27	UC305x305x97
B29	RHS450x250x16
B30	UB610x305x149
B31	UB533x210x101
B32	UB178x102x19
B33	SHS100x100x10
B34	UB254x146x37
CB1	1300x1300 DEEP CAPPING BEAM
CB4	750x750 DEEP RC DOWNSTAND
CB5	950x1325 DEEP COMPOSITE BEAM
CB6	700x550 DEEP RC DOWNSTAND
CB7	300x600 DEEP RC DOWNSTAND
CB8	300x400 DEEP RC DOWNSTAND
CB9	300x450 DEEP RC DOWNSTAND
CB10	375x375 DEEP RC BEAM
CB11	450x750 DEEP RC BEAM

E	
2003	

		CDM RISK SCHEDULE	
REF		DESCRIPTION	
[1]		N STAIR AND LIFT CORES IN CLOSE PROXIMITY TO EXIS ES. SURVEY TO BE UNDERTAKEN TO CONFIRM CLEAR	
[2]	PROXIMITY TO EXISTI CONFIRM FOUNDATIO	ASEMENT AND INSTALLATION OF SECANT PILED WALL NG RETAINED STRUCTURES. SURVEY TO BE UNDERTA IN SETTING OUT. MONITORING STRATEGY TO BE IN PL/ ON TO AVOID EXCESSIVE STRAIN IN EXISTING BUILDIN	KEN TO ACE
[3]	DEEP EXCAVATION FO PREVENT FALLS	OR BASEMENT REQUIRES SUITABLE EDGE PROTECTIO	N TO
[4]		EW FOUNDATIONS IN CLOSE PROXIMITY TO SUBSTRUC BUILDINGS. SURVEY TO BE UNDERTAKEN TO CONFIRM	
[5]		RENCH IN YARD. NEW FOUNDATIONS TO AVOID TRENG RTED PRIOR TO CONSTRUCTION.	CHOR
[6]	LIFTING OF HEAVY ITE ADJACENT BUILDINGS	EMS INCLUDING TRUSS IN CLOSE PROXIMITY TO EXIST 3.	ING
[7]		N STRUCTURE ON EXISTING VCB ROOF. EXISTING STR ADDITIONAL LOADING, STRENGTHENING MIGHT BE RE	
[8]	DESIGNED FOR VEHIC	ACT TO COLUMNS IN SERVICE YARD SPACE. COLUMNS CLE IMPACT LOAD. CONTRACTOR TO ENSURE TEMPOR ACCESS FOR VEHICLES DURING CONSTRUCTION OF LI	ARY
[9]	DEVELOPED TO ROBL	ENT BELOW WATER TABLE. DESIGN PROPOSALS TO BE IST WATERPROOFING GRADES AS IT CONTAINS CRITIC CONSIDERED DURING THE TEMPORARY CASE.	
[10]		LED BELOW EXISTING PAVEMENT MIGHT CAUSE CLAS SURVEY TO BE CARRIED OUT AND SERVICES TO BE DI	
[11]		O AVOID EXISTING PILES. LOCATION AND NATURE OF E INS UNKNOWN. SURVEY TO BE UNDERTAKEN DURING S.	EXISTING
[12]	ASBESTOS MIGHT BE	FOUND IN EXISTING BUILDING. SURVEY TO BE SCOPED	D.
[13]	RISK OF VEHICLE IMP DESIGNED TO RESIST	ACT TO STRUCTURES ON SOUTHERN SIDE. STRUCTUR IMPACT LOAD.	ES TO BE
ESIGN LEAD	DP.	GOSH Children's Cancer Centre	PRDECT MARGER P2007598

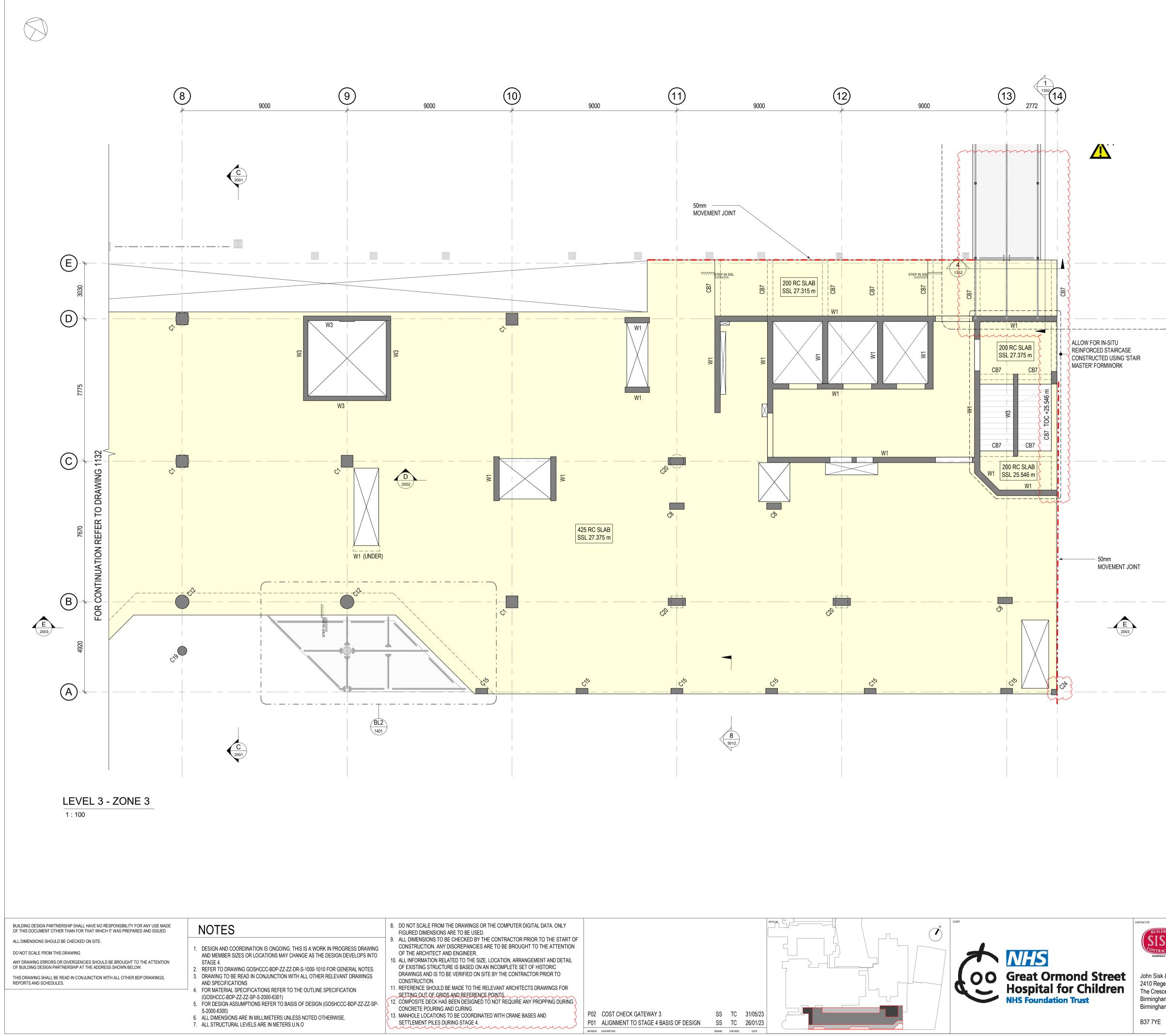
Birmingham Business Park

16 Brewhouse Yard Clerkenwell London EC1V 4LJ United Kingdom

T +44 [0]20 7812 8000 www.bdp.com

LEVEL 03 PLAN - ZONE 2

	CC-BDP-2	ZZ-03-DR-	8-2300-1132	2		
Statussutable S3 - Suitable For Review & Comment			scale 1:100	@ A1	REVISION DATE	5/23
draw by SS	CHECKED BY	APPROVED BY	PURPOSE OF ISSUE Preliminary			PD2



	LEGEND
	CDM RISK, REFER TO SCHEDULE
	EXISTING STRUCTURE IN SECTION
	EXISTING STRUCTURE SURFACE
	IN SITU CONCRETE IN SECTION
	IN SITU CONCRETE SURFACE
	STEEL SURFACE
	RECESS IN SLAB
	50mm MOVEMENT JOINT
	EXISTING STEEL BEAM
	- NEW STEEL BEAM
	- MOMENT CONNECTION
	THERMAL BREAK CONNECTOR (ANCON ISOTEC OR SIMILAR)
~	160 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK
"	200 COMPOSITE SLAB WITH
	1.20mm GAUGE COMFLOR 80 DECK 150 COMPOSITE SLAB WITH
~#~	1.20mm GAUGE COMFLOR 80 DECK
	BEAM SCHEDULE
MARK	TYPE
Bl	UC203x203x46
B2	UKC305x305x198
B4	120x120x12 EA
B5	UKC254x254x89
B6	SHS 80x80x10
B7	100x100x10 EA
B10	UKC152x152x23
B11 B12	UKC305x305x240 UKC203x203x100

UC305x305x118

SHS 150x150x10

UKC203x203x71

UC356x406x393

UKC356x406x551 UKC305x305x283

UB914x305x289

UKC203x203x60

SHS80x80x5

CHS88.9x6.3

UC305x305x97

RHS450x250x16

UB610x305x149

UB533x210x101

UB178x102x19

SHS100x100x10

UB254x146x37

1300x1300 DEEP CAPPING BEAM

750x750 DEEP RC DOWNSTAND

375x375 DEEP RC BEAM

450x750 DEEP RC BEAM

CB5 950x1325 DEEP COMPOSITE BEAM CB6 700x550 DEEP RC DOWNSTAND

CB7 300x600 DEEP RC DOWNSTAND

CB8 300x400 DEEP RC DOWNSTAND CB9 300x450 DEEP RC DOWNSTAND

B13

B14

B15

B17

B18 B20

B21

B22 B23

B24

B27

B29

B30

B31

B32

B33

B34

CB1

CB4

CB10

CB11

COLU	MN SCHEDULE
MARK	TYPE
C1	650 x 650
C3	750 x 750
C4	525 x 525
C5	700 x 700
C6	300 x 750
C8	350 x 800
C12	750 DIA.
C15	300 x 650
C16	750x325
C17	450 DIA
C18	250x400
C19	500 DIA
C20	400 x 950
C21	800 DIA.
C22	910 x 750
C23	1610 x 750
C24	300 x 300
SC1	UKC152x152x23
SC3	UC152x152x37
SC4	UKC203x203x60
SC5	SHS 100x100x10
SC6	UC305x305x118
SC7	SHS 200x200x10
SC8	UKC305x305x158
SC9	UKC254x254x132
SC11	UC305x305x198
SC12	UKC305x305x283
SC13	SHS100x100x8
SC14	UC305x305x240
RC W	ALL SCHEDULE
MARK	TYPE
W1	300 RC WALL
W2	250 RC LINER WALL
W3	250 RC WALL
W4	150 RC WALL
W5	350 RC WALL
W6	225 RC WALL

	CDM RISK SCHEDULE			
REF	DESCRIPTION			
[1]	INSTALLATION OF NEW STAIR AND LIFT CORES IN CLOSE PROXIMITY TO EXISTING RETAINED STRUCTURES. SURVEY TO BE UNDERTAKEN TO CONFIRM CLEARANCES.			
[2]	CREATION OF NEW BASEMENT AND INSTALLATION OF SECANT PILED WALL IN CLOSE PROXIMITY TO EXISTING RETAINED STRUCTURES. SURVEY TO BE UNDERTAKEN TO CONFIRM FOUNDATION SETTING OUT. MONITORING STRATEGY TO BE IN PLACE DURING CONSTRUCTION TO AVOID EXCESSIVE STRAIN IN EXISTING BUILDING.			
[3]	DEEP EXCAVATION FOR BASEMENT REQUIRES SUITABLE EDGE PROTECTION TO PREVENT FALLS			
[4]	CONSTRUCTION OF NEW FOUNDATIONS IN CLOSE PROXIMITY TO SUBSTRUCTURE OF EXISTING ADJACENT BUILDINGS. SURVEY TO BE UNDERTAKEN TO CONFIRM CLEARANCES.			
[5]	EXISTING SERVICES TRENCH IN YARD. NEW FOUNDATIONS TO AVOID TRENCH OR SERVICES TO BE DIVERTED PRIOR TO CONSTRUCTION.			
[6]	LIFTING OF HEAVY ITEMS INCLUDING TRUSS IN CLOSE PROXIMITY TO EXISTING ADJACENT BUILDINGS.			
[7]	INSTALLATION OF NEW STRUCTURE ON EXISTING VCB ROOF. EXISTING STRUCTURE TO BE CHECKED FOR ADDITIONAL LOADING, STRENGTHENING MIGHT BE REQUIRED.			
[8]	RISK OF VEHICLE IMPACT TO COLUMNS IN SERVICE YARD SPACE. COLUMNS DESIGNED FOR VEHICLE IMPACT LOAD. CONTRACTOR TO ENSURE TEMPORARY STABILITY AND SAFE ACCESS FOR VEHICLES DURING CONSTRUCTION OF LINK STRUCTURE.			
[9]	CREATION OF BASEMENT BELOW WATER TABLE. DESIGN PROPOSALS TO BE DEVELOPED TO ROBUST WATERPROOFING GRADES AS IT CONTAINS CRITICAL PLANT. DEWATERING TO BE CONSIDERED DURING THE TEMPORARY CASE.			
[10]	SECANT WALL INSTALLED BELOW EXISTING PAVEMENT MIGHT CAUSE CLASH WITH EXISTING SERVICES. SURVEY TO BE CARRIED OUT AND SERVICES TO BE DIVERTED IF NECESSARY.			
[11]	SETTLEMENT PILES TO AVOID EXISTING PILES. LOCATION AND NATURE OF EXISTING BUILDING FOUNDATIONS UNKNOWN. SURVEY TO BE UNDERTAKEN DURING DEMOLITION PROCESS.			
[12]	ASBESTOS MIGHT BE FOUND IN EXISTING BUILDING. SURVEY TO BE SCOPED.			
[13]	RISK OF VEHICLE IMPACT TO STRUCTURES ON SOUTHERN SIDE. STRUCTURES TO BE DESIGNED TO RESIST IMPACT LOAD.			
	GOSH Children's Cancer Centre			



John Sisk & Son Ltd 2410 Regents Court The Crescent Birmingham Business Park Birmingham

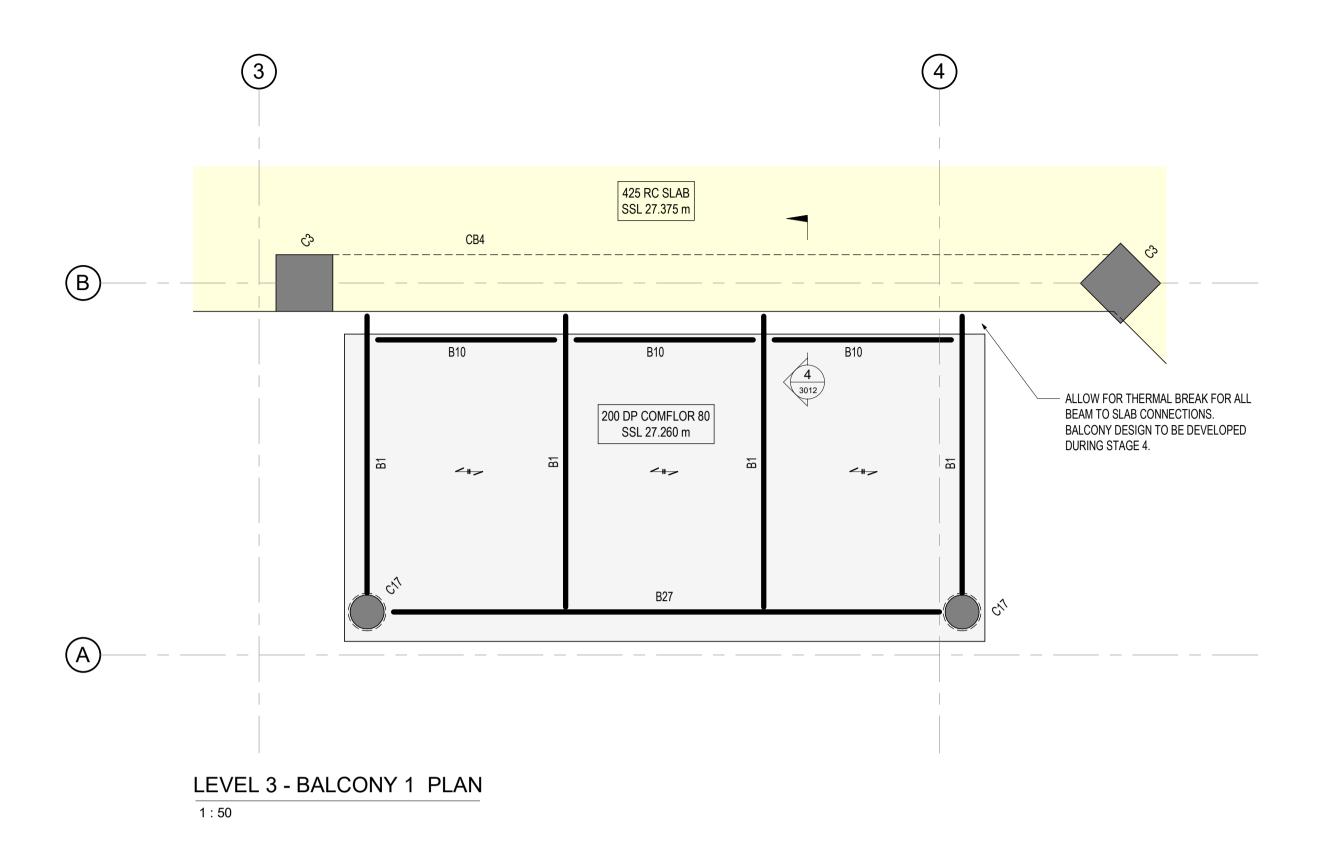
B37 7YE

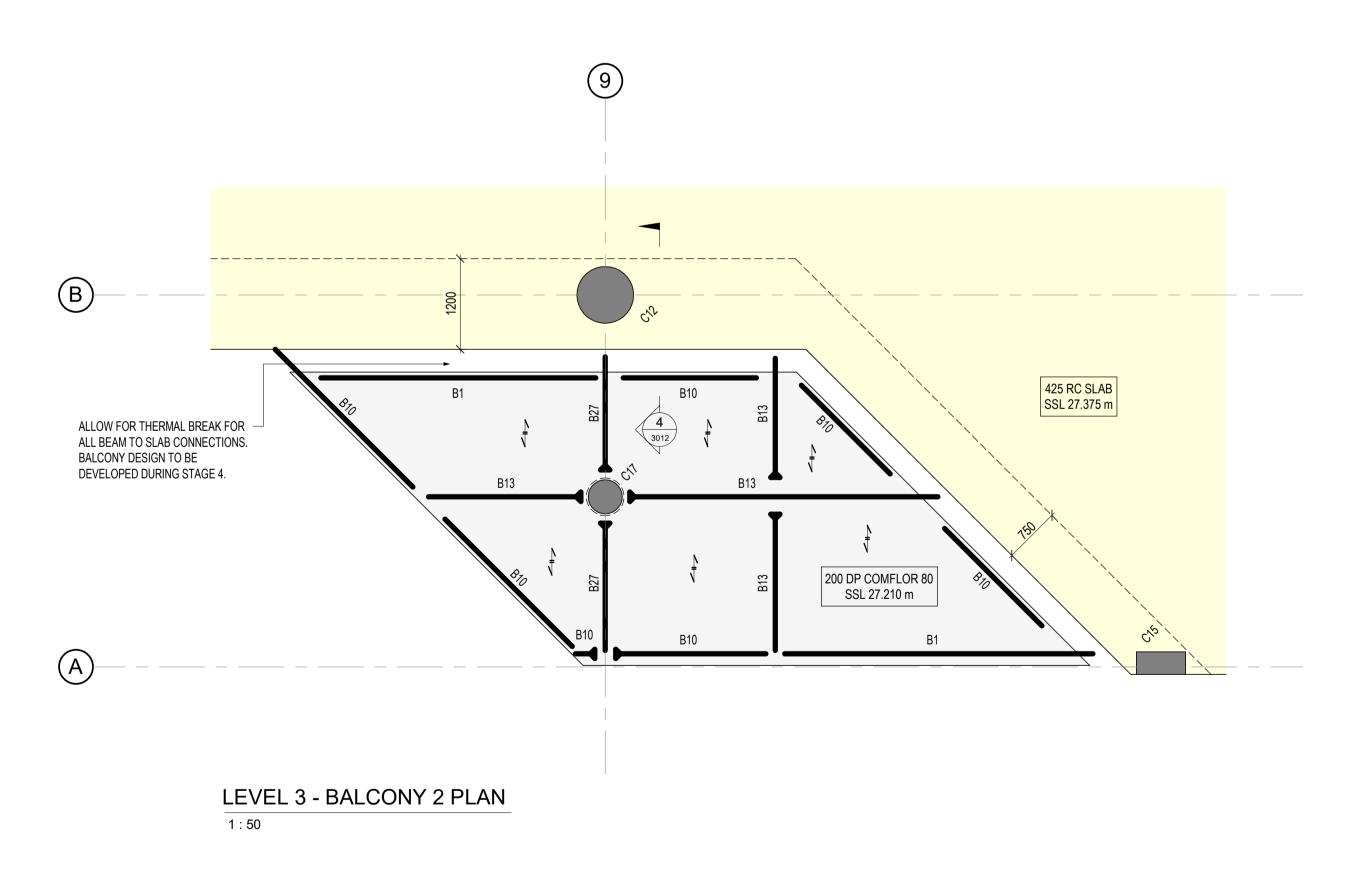
16 Brewhouse Yard Clerkenwell London EC1V 4LJ United Kingdom T +44 [0]20 7812 800

www.bdp.com

LEVEL 03 PLAN - ZONE 3

	GOSHC	CC-BDP-Z	ZZ-03-DR-\$	8-2300-113	3		
	statusisuitablity S3 - Suitable	For Review a	& Comment	1:100	@ A1	REVISION DATE	5/23
000	SS	TC	TC	PURPOSE OF ISSUE Preliminary			P02





LEGEND

- IN SITU CONCRETE IN SECTION
 - IN SITU CONCRETE SURFACE

STEEL SURFACE

RC COLUMN SCHEDULE

TYPE
650 x 650
750 x 750
525 x 525
700 x 700
300 x 750
350 x 800
750 DIA.
300 x 650
750x325
450 DIA
250x400
500 DIA
400 x 950
800 DIA.
910 x 750
1610 x 750
300 x 300

STEEL COLUMN SCHEDULE

MARK	TYPE
SC1	UKC152x152x23
SC3	UC152x152x37
SC4	UKC203x203x60
SC5	SHS 100x100x10
SC6	UC305x305x118
SC7	SHS 200x200x10
SC8	UKC305x305x158
SC9	UKC254x254x132
SC11	UC305x305x198
SC12	UKC305x305x283
SC13	SHS100x100x8
SC14	UC305x305x240

STEEL E	BEAM SCHEDULE
MARK	TYPE
B1	UC203x203x46
B2	UKC305x305x198
B4	120x120x12 EA
B5	UKC254x254x89
B6	SHS 80x80x10
B7	100x100x10 EA
B10	UKC152x152x23
B11	UKC305x305x240
B12	UKC203x203x100
B13	UC305x305x118
B14	SHS 150x150x10
B15	UKC203x203x71
B17	UC356x406x393
B18	UKC356x406x551
B20	UKC305x305x283
B21	UB914x305x289
B22	UKC203x203x60
B23	SHS80x80x5
B24	CHS88.9x6.3
B27	UC305x305x97
B29	RHS450x250x16
B30	UB610x305x149
B31	UB533x210x101
B32	UB178x102x19
B33	SHS100x100x10
B34	UB254x146x37

BUILDING DESIGN PARTNERSHIP SHALL HAVE NO RESPONSIBILITY FOR ANY USE MADE OF THIS DOCUMENT OTHER THAN FOR THAT WHICH IT WAS PREPARED AND ISSUED.

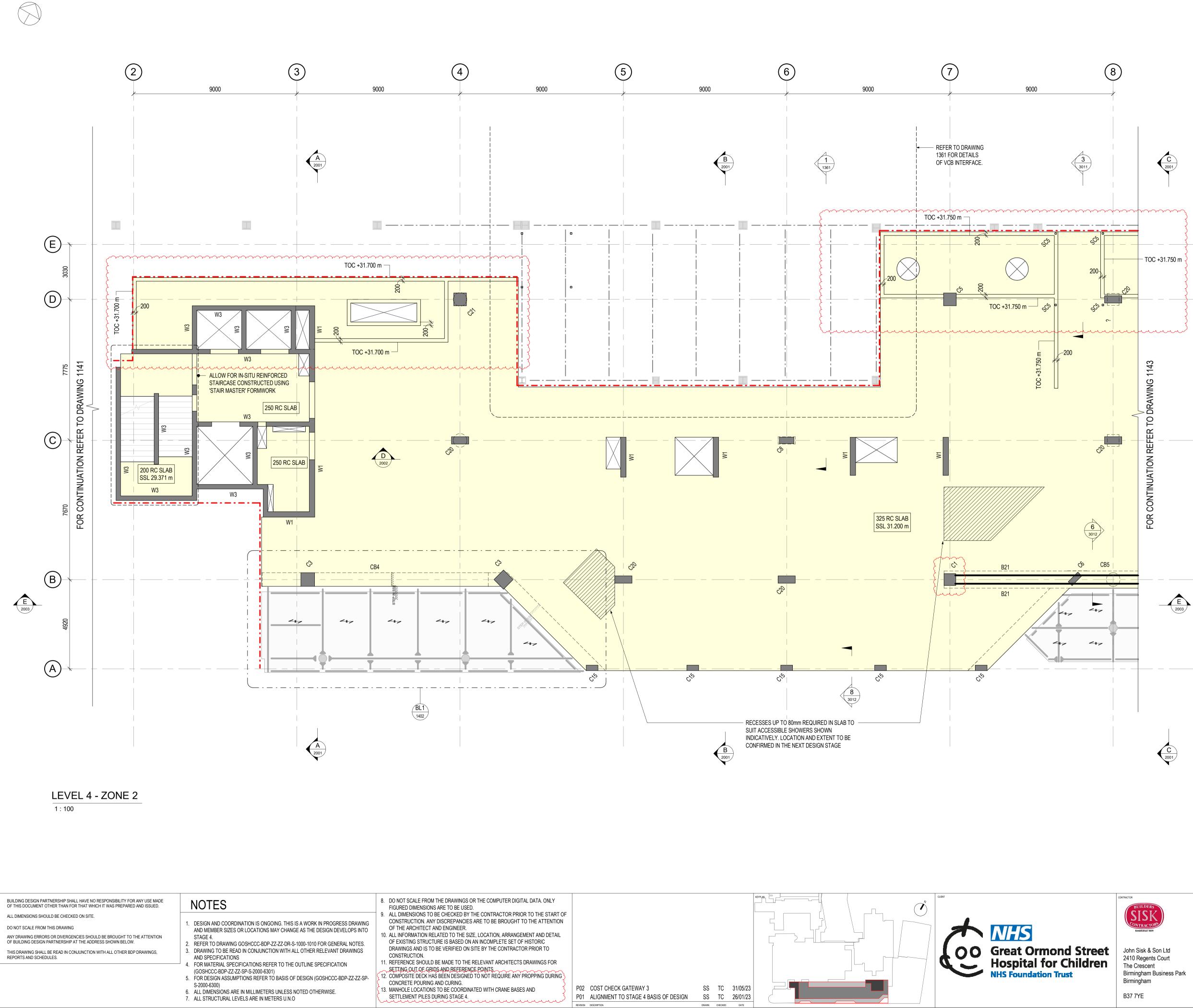
ALL DIMENSIONS SHOULD BE CHECKED ON SITE.

DO NOT SCALE FROM THIS DRAWING ANY DRAWING ERRORS OR DIVERGENCIES SHOULD BE BROUGHT TO THE ATTENTION OF BUILDING DESIGN PARTNERSHIP AT THE ADDRESS SHOWN BELOW. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER BDP DRAWINGS, REPORTS AND SCHEDULES.

NOTES

- 1. DESIGN AND COORDINATION IS ONGOING. THIS IS A WORK IN PROGRESS DRAWING AND MEMBER SIZES OR LOCATIONS MAY CHANGE AS THE DESIGN DEVELOPS INTO STAGE 4.
- 2. REFER TO DRAWING GOSHCCC-BDP-ZZ-ZZ-DR-S-1000-1010 FOR GENERAL NOTES.
- 3. DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS
- 4. FOR MATERIAL SPECIFICATIONS REFER TO THE OUTLINE SPECIFICATION (GOSHCCC-BDP-ZZ-ZZ-SP-S-2000-6301)
- 5. FOR DESIGN ASSUMPTIONS REFER TO BASIS OF DESIGN (GOSHCCC-BDP-ZZ-ZZ-SP-S-2000-6300)
- 6. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
- 7. ALL STRUCTURAL LEVELS ARE IN METERS U.N.O
- DO NOT SCALE FROM THE DRAWINGS OR THE COMPUTER DIGITAL DATA. ONLY FIGURED DIMENSIONS ARE TO BE USED.
- 9. ALL DIMENSIONS TO BE CHECKED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER.
- 10. ALL INFORMATION RELATED TO THE SIZE, LOCATION, ARRANGEMENT AND DETAIL OF EXISTING STRUCTURE IS BASED ON AN INCOMPLETE SET OF HISTORIC DRAWINGS AND IS TO BE VERIFIED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- 11. REFERENCE SHOULD BE MADE TO THE RELEVANT ARCHITECTS DRAWINGS FOR SETTING OUT OF GRIDS AND REFERENCE POINTS.
- 12. COMPOSITE DECK HAS BEEN DESIGNED TO NOT REQUIRE ANY PROPPING DURING CONCRETE POURING AND CURING.
- 13. MANHOLE LOCATIONS TO BE COORDINATED WITH CRANE BASES AND SETTLEMENT PILES DURING STAGE 4.





	LEGEND
	CDM RISK, REFER TO SCHEDULE
	EXISTING STRUCTURE IN SECTION
	EXISTING STRUCTURE SURFACE
	IN SITU CONCRETE IN SECTION
	IN SITU CONCRETE SURFACE
	STEEL SURFACE
	RECESS IN SLAB
— · —	50mm MOVEMENT JOINT
	EXISTING STEEL BEAM
<u> </u>	NEW STEEL BEAM
	MOMENT CONNECTION
	THERMAL BREAK CONNECTOR (ANCON ISOTEC OR SIMILAR)
~	160 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK
"	200 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK
~#~	150 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK
E	BEAM SCHEDULE
MARK	TYPE
Bl	UC203x203x46
B2	UKC305x305x198

012	100 BH (
C15	300 x 650
C16	750x325
C17	450 DIA
C18	250x400
C19	500 DIA
C20	400 x 950
C21	800 DIA.
C22	910 x 750
C23	1610 x 750
C24	300 x 300
SC1	UKC152x152x23
SC3	UC152x152x37
SC4	UKC203x203x60
SC5	SHS 100x100x10
SC6	UC305x305x118
SC7	SHS 200x200x10
SC8	UKC305x305x158
SC9	UKC254x254x132
SC11	UC305x305x198
SC12	UKC305x305x283
SC13	SHS100x100x8
SC14	UC305x305x240
RC W	ALL SCHEDULE
MARK	TYPE
W1	300 RC WALL
W2	250 RC LINER WALL
W3	250 RC WALL
W4	150 RC WALL
W5	350 RC WALL
W6	225 RC WALL
mm	

COLUMN SCHEDULE

TYPE 650 x 650

750 x 750

525 x 525

700 x 700

300 x 750

350 x 800

750 DIA.

MARK

C1 C3

C4

C5

C6

C8

C12

	BEAM SCHEDULE
MARK	TYPE
B1	UC203x203x46
B2	UKC305x305x198
B4	120x120x12 EA
B5	UKC254x254x89
B6	SHS 80x80x10
B7	100x100x10 EA
B10	UKC152x152x23
B11	UKC305x305x240
B12	UKC203x203x100
B13	UC305x305x118
B14	SHS 150x150x10
B15	UKC203x203x71
B17	UC356x406x393
B18	UKC356x406x551
B20	UKC305x305x283
B21	UB914x305x289
B22	UKC203x203x60
B23	SHS80x80x5
B24	CHS88.9x6.3
B27	UC305x305x97
B29	RHS450x250x16
B30	UB610x305x149
B31	UB533x210x101
B32	UB178x102x19
B33	SHS100x100x10
B34	UB254x146x37
CB1	1300x1300 DEEP CAPPING BEAM
CB4	750x750 DEEP RC DOWNSTAND
CB5	950x1325 DEEP COMPOSITE BEAM
CB6	700x550 DEEP RC DOWNSTAND
CB7	300x600 DEEP RC DOWNSTAND
CB8	300x400 DEEP RC DOWNSTAND
CB9	300x450 DEEP RC DOWNSTAND
CB10	375x375 DEEP RC BEAM
CB11	450x750 DEEP RC BEAM

REF	
[1]	INSTALLATIO RETAINED ST
 [2]	CREATION O PROXIMITY T CONFIRM FO DURING CON
[3]	DEEP EXCAV PREVENT FA
[4]	CONSTRUCT EXISTING AD CLEARANCES
[5]	EXISTING SE
[6]	LIFTING OF H ADJACENT BI
[7]	INSTALLATIO
[8]	RISK OF VEH

2003

		CDM RISK SCHEDULE	
REF		DESCRIPTION	
[1]		N STAIR AND LIFT CORES IN CLOSE PROXIMITY TO EXIS ES. SURVEY TO BE UNDERTAKEN TO CONFIRM CLEAR	
[2]	PROXIMITY TO EXISTI CONFIRM FOUNDATIC	ASEMENT AND INSTALLATION OF SECANT PILED WALL I NG RETAINED STRUCTURES. SURVEY TO BE UNDERTA IN SETTING OUT. MONITORING STRATEGY TO BE IN PLA ON TO AVOID EXCESSIVE STRAIN IN EXISTING BUILDIN	KEN TO ACE
[3]	DEEP EXCAVATION FO PREVENT FALLS	OR BASEMENT REQUIRES SUITABLE EDGE PROTECTION	N TO
[4]		EW FOUNDATIONS IN CLOSE PROXIMITY TO SUBSTRUC BUILDINGS. SURVEY TO BE UNDERTAKEN TO CONFIRM	
[5]		RENCH IN YARD. NEW FOUNDATIONS TO AVOID TRENCE RTED PRIOR TO CONSTRUCTION.	CHOR
[6]	LIFTING OF HEAVY ITE ADJACENT BUILDINGS	EMS INCLUDING TRUSS IN CLOSE PROXIMITY TO EXISTI 3.	NG
[7]		N STRUCTURE ON EXISTING VCB ROOF. EXISTING STR ADDITIONAL LOADING, STRENGTHENING MIGHT BE RE	
[8]	DESIGNED FOR VEHIC	ACT TO COLUMNS IN SERVICE YARD SPACE. COLUMNS CLE IMPACT LOAD. CONTRACTOR TO ENSURE TEMPOR ACCESS FOR VEHICLES DURING CONSTRUCTION OF LI	ARY
[9]	DEVELOPED TO ROBL	ENT BELOW WATER TABLE. DESIGN PROPOSALS TO BE IST WATERPROOFING GRADES AS IT CONTAINS CRITIC CONSIDERED DURING THE TEMPORARY CASE.	
[10]		LED BELOW EXISTING PAVEMENT MIGHT CAUSE CLASI SURVEY TO BE CARRIED OUT AND SERVICES TO BE DIV	
[11]		O AVOID EXISTING PILES. LOCATION AND NATURE OF E INS UNKNOWN. SURVEY TO BE UNDERTAKEN DURING S.	EXISTING
[12]	ASBESTOS MIGHT BE	FOUND IN EXISTING BUILDING. SURVEY TO BE SCOPED).
[13]	RISK OF VEHICLE IMP. DESIGNED TO RESIST	ACT TO STRUCTURES ON SOUTHERN SIDE. STRUCTUR IMPACT LOAD.	ES TO BE
SIGN LEAD	DP.	GOSH Children's Cancer Centre	PROJECT MARGER P2007598

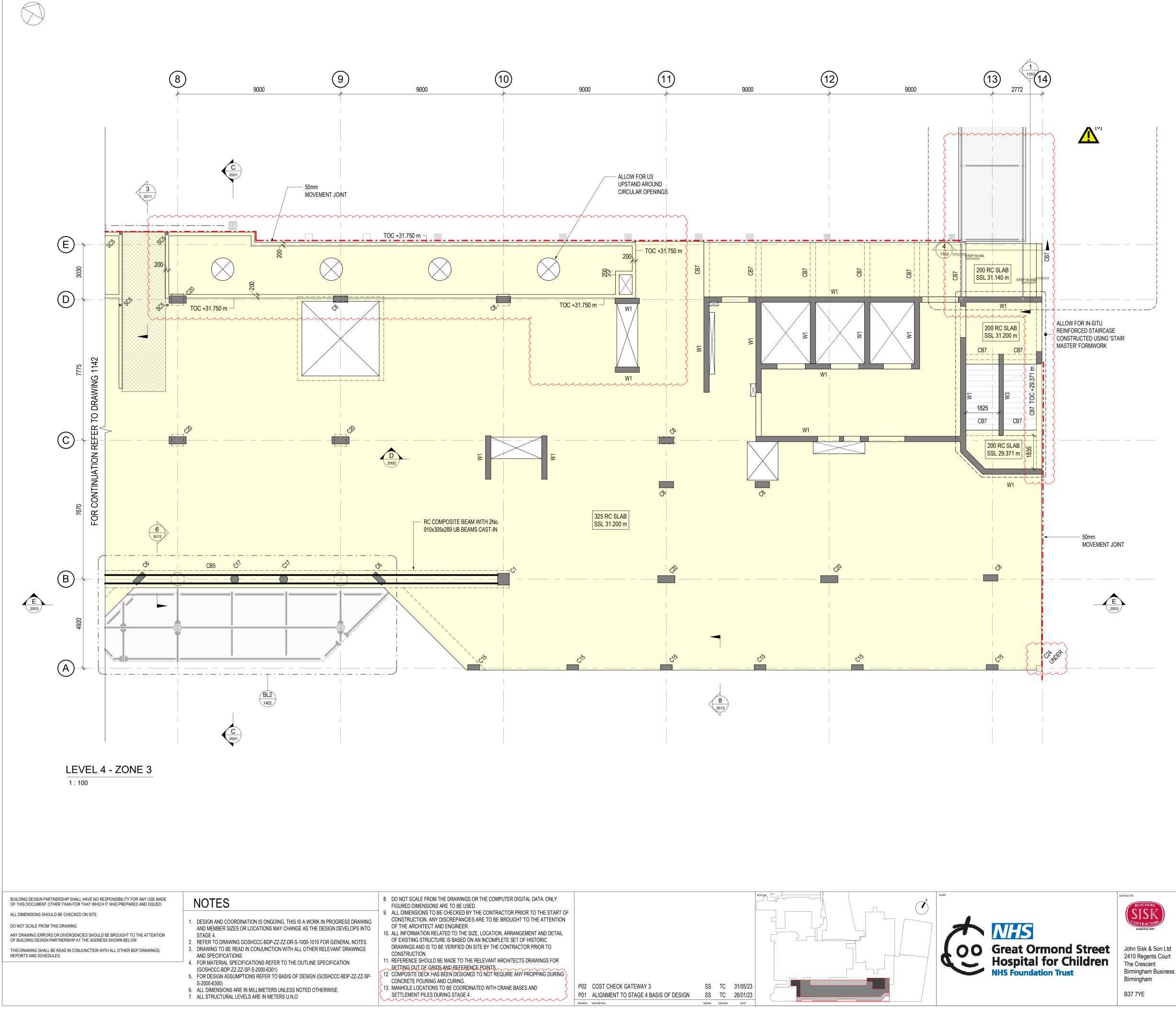
Birmingham Business Park

16 Brewhouse Yard Clerkenwell London EC1V 4LJ United Kingdom T +44 [0]20 7812 8000

www.bdp.com

LEVEL 04 PLAN - ZONE 2

	CCC-BD	P-ZZ-04-DR-	S-2300-114	2		
STATUS/SUITABILITY			SCALE	DRAWING SIZE		
S3 - Suitab	le For Revie	ew & Comment	1:100	@ A1	31/0)5/23
DRAW BY	CHECKED BY	APPROVED BY	PURPOSE OF ISSUE			REVISION
SS	TC	TC	Preliminary			P02



	LEGEND
	CDM RISK, REFER TO SCHEDULE
	EXISTING STRUCTURE IN SECTION
	EXISTING STRUCTURE SURFACE
	IN SITU CONCRETE IN SECTION
	IN SITU CONCRETE SURFACE
	STEEL SURFACE
	RECESS IN SLAB
• _	50mm MOVEMENT JOINT
	EXISTING STEEL BEAM
	NEW STEEL BEAM
	- MOMENT CONNECTION
	THERMAL BREAK CONNECTOR
	(ANCON ISOTEC OR SIMILAR)
~	160 COMPOSITE SLAB WITH
	1.20mm GAUGE COMFLOR 80 DECK
~ //	200 COMPOSITE SLAB WITH
	1.20mm GAUGE COMFLOR 80 DECK
~ #~	150 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK
	BEAM SCHEDULE
MARK	TYPE
B1	UC203x203x46
B2	UKC305x305x198
B4	120x120x12 EA
B5	UKC254x254x89
B6	SHS 80x80x10
B7	100x100x10 EA
B10	UKC152x152x23
B11	UKC305x305x240
B12	UKC203x203x100
B13	UC305x305x118
B14	SHS 150x150x10
B15	UKC203x203x71
B17	UC356x406x393

UKC356x406x551

UKC305x305x283

UB914x305x289

UKC203x203x60

SHS80x80x5

CHS88.9x6.3

UC305x305x97

RHS450x250x16

UB610x305x149

UB533x210x101

UB178x102x19

SHS100x100x10

UB254x146x37

1300x1300 DEEP CAPPING BEAM

750x750 DEEP RC DOWNSTAND

300x600 DEEP RC DOWNSTAND

300x400 DEEP RC DOWNSTAND

300x450 DEEP RC DOWNSTAND

375x375 DEEP RC BEAM

450x750 DEEP RC BEAM

CB5 950x1325 DEEP COMPOSITE BEAM

CB6 700x550 DEEP RC DOWNSTAND

MARK	MN SCHEDULE
C1	650 x 650
C3	750 x 750
C4	525 x 525
C5	700 x 700
 C6	300 x 750
C8	350 x 750
C12	750 DIA.
C12 C15	300 x 650
C15	
C16 C17	750x325 450 DIA
C17 C18	250x400
C18 C19	250x400 500 DIA
C20	400 x 950 800 DIA.
C21 C22	910 x 750
C23	1610 x 750
<u>C24</u>	300 x 300
SC1	UKC152x152x23
SC3	UC152x152x37
SC4	UKC203x203x60
SC5	SHS 100x100x10
SC6	UC305x305x118
SC7	SHS 200x200x10
SC8	UKC305x305x158
SC9	UKC254x254x132
SC11	UC305x305x198
SC12	UKC305x305x283
SC13	SHS100x100x8
SC14	UC305x305x240
RC W	ALL SCHEDULE
MARK	TYPE
W1	300 RC WALL
W2	250 RC LINER WALL
W3	250 RC WALL
W4	150 RC WALL
W5	350 RC WALL
W6	225 RC WALL

	CDM RISK SCHEDULE						
REF	DESCRIPTION						
[1]	INSTALLATION OF NEW STAIR AND LIFT CORES IN CLOSE PROXIMITY TO EXISTING RETAINED STRUCTURES. SURVEY TO BE UNDERTAKEN TO CONFIRM CLEARANCES.						
[2]	CREATION OF NEW BASEMENT AND INSTALLATION OF SECANT PILED WALL IN CLOSE PROXIMITY TO EXISTING RETAINED STRUCTURES. SURVEY TO BE UNDERTAKEN TO CONFIRM FOUNDATION SETTING OUT. MONITORING STRATEGY TO BE IN PLACE DURING CONSTRUCTION TO AVOID EXCESSIVE STRAIN IN EXISTING BUILDING.						
[3]	DEEP EXCAVATION FOR BASEMENT REQUIRES SUITABLE EDGE PROTECTION TO PREVENT FALLS						
[4]	CONSTRUCTION OF NEW FOUNDATIONS IN CLOSE PROXIMITY TO SUBSTRUCTURE OF EXISTING ADJACENT BUILDINGS. SURVEY TO BE UNDERTAKEN TO CONFIRM CLEARANCES.						
[5]	EXISTING SERVICES TRENCH IN YARD. NEW FOUNDATIONS TO AVOID TRENCH OR SERVICES TO BE DIVERTED PRIOR TO CONSTRUCTION.						
[6]	LIFTING OF HEAVY ITEMS INCLUDING TRUSS IN CLOSE PROXIMITY TO EXISTING ADJACENT BUILDINGS.						
[7]	INSTALLATION OF NEW STRUCTURE ON EXISTING VCB ROOF. EXISTING STRUCTURE TO BE CHECKED FOR ADDITIONAL LOADING, STRENGTHENING MIGHT BE REQUIRED.						
[8]	RISK OF VEHICLE IMPACT TO COLUMNS IN SERVICE YARD SPACE. COLUMNS DESIGNED FOR VEHICLE IMPACT LOAD. CONTRACTOR TO ENSURE TEMPORARY STABILITY AND SAFE ACCESS FOR VEHICLES DURING CONSTRUCTION OF LINK STRUCTURE.						
[9]	CREATION OF BASEMENT BELOW WATER TABLE. DESIGN PROPOSALS TO BE DEVELOPED TO ROBUST WATERPROOFING GRADES AS IT CONTAINS CRITICAL PLANT. DEWATERING TO BE CONSIDERED DURING THE TEMPORARY CASE.						
[10]	SECANT WALL INSTALLED BELOW EXISTING PAVEMENT MIGHT CAUSE CLASH WITH EXISTING SERVICES. SURVEY TO BE CARRIED OUT AND SERVICES TO BE DIVERTED IF NECESSARY.						
[11]	SETTLEMENT PILES TO AVOID EXISTING PILES. LOCATION AND NATURE OF EXISTING BUILDING FOUNDATIONS UNKNOWN. SURVEY TO BE UNDERTAKEN DURING DEMOLITION PROCESS.						
[12]	ASBESTOS MIGHT BE FOUND IN EXISTING BUILDING. SURVEY TO BE SCOPED.						
[13]	RISK OF VEHICLE IMPACT TO STRUCTURES ON SOUTHERN SIDE. STRUCTURES TO BE DESIGNED TO RESIST IMPACT LOAD.						
ESIGN LEAD	GOSH Children's Cancer Centre						

B18

B20

B21

B22

B23

B24

B27

B29

B30

B31

B32

B33

B34

CB1

CB4

CB7

CB8

CB9

CB10

CB11

Birmingham Business Park

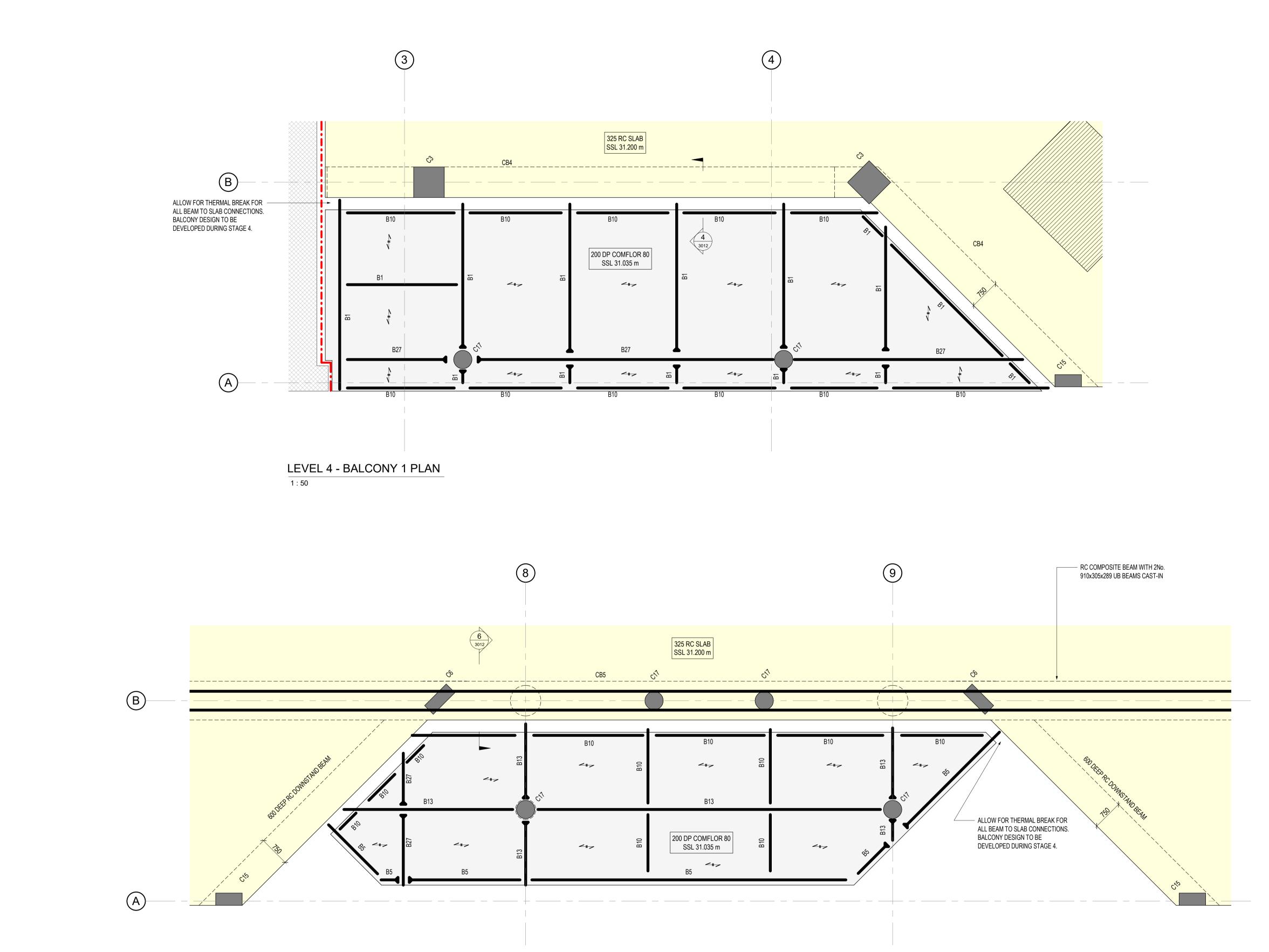
Clerkenwell London EC1V 4LJ United Kingdom T +44 [0]20 7812 8000

16 Brewhouse Yard

www.bdp.com

LEVEL 04 PLAN - ZONE 3

GOSHCCC-BDP-ZZ-04-DR-S-2300-1143								
statusisuitability S3 - Suitable	For Review &	& Comment	solle 1:100	@ A1	revision date 31/05/23			
SS	TC	TC	PURPOSE OF ISSUE Preliminary			PO2		



LEVEL 4 - BALCONY 2 PLAN 1:50

LEGEND

- IN SITU CONCRETE IN SECTION
 - IN SITU CONCRETE SURFACE

STEEL SURFACE

RC COL	UMN SCHEDULE
MARK	TYPE
C1	650 x 650
C3	750 x 750
C4	525 x 525
C5	700 x 700
C6	300 x 750
C8	350 x 800
C12	750 DIA.
C15	300 x 650
C16	750x325
C17	450 DIA
C18	250x400
C19	500 DIA
C20	400 x 950
C21	800 DIA.
C22	910 x 750
C23	1610 x 750
C24	300 x 300
STEEL CO	UNN SCHEDULE
MARK	TYPE
SC1	UKC152x152x23
SC3	UC152x152x37
SC4	UKC203x203x60
SC5	SHS 100x100x10
SC6	UC305x305x118
807	CHC 200v200v40

SC7	SHS 200x200x10
SC8	UKC305x305x158
SC9	UKC254x254x132
SC11	UC305x305x198
SC12	UKC305x305x283
SC13	SHS100x100x8
SC14	UC305x305x240
STEEL E	BEAM SCHEDULE
	T\/DE

MARK	TYPE
B1	UC203x203x46
B2	UKC305x305x198
B4	120x120x12 EA
B5	UKC254x254x89
B6	SHS 80x80x10
B7	100x100x10 EA
B10	UKC152x152x23
B11	UKC305x305x240
B12	UKC203x203x100
B13	UC305x305x118
B14	SHS 150x150x10
B15	UKC203x203x71
B17	UC356x406x393
B18	UKC356x406x551
B20	UKC305x305x283
B21	UB914x305x289
B22	UKC203x203x60
B23	SHS80x80x5
B24	CHS88.9x6.3
B27	UC305x305x97
B29	RHS450x250x16
B30	UB610x305x149
B31	UB533x210x101
B32	UB178x102x19
B33	SHS100x100x10
B34	UB254x146x37

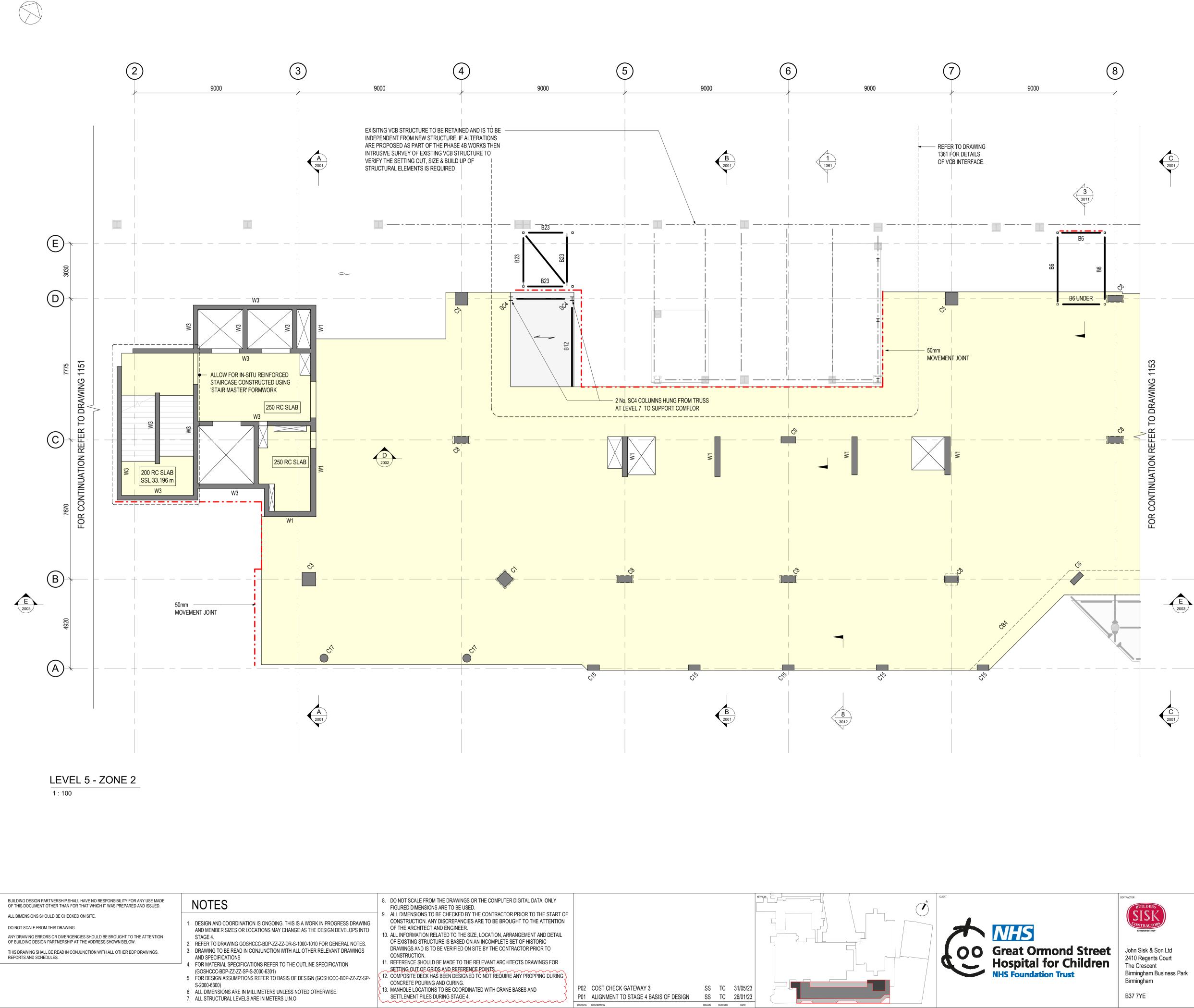
BUILDING DESIGN PARTNERSHIP SHALL HAVE NO RESPONSIBILITY FOR ANY USE MADE OF THIS DOCUMENT OTHER THAN FOR THAT WHICH IT WAS PREPARED AND ISSUED.

ALL DIMENSIONS SHOULD BE CHECKED ON SITE.

DO NOT SCALE FROM THIS DRAWING ANY DRAWING ERRORS OR DIVERGENCIES SHOULD BE BROUGHT TO THE ATTENTION OF BUILDING DESIGN PARTNERSHIP AT THE ADDRESS SHOWN BELOW. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER BDP DRAWINGS, REPORTS AND SCHEDULES.

- 1. DESIGN AND COORDINATION IS ONGOING. THIS IS A WORK IN PROGRESS DRAWING AND MEMBER SIZES OR LOCATIONS MAY CHANGE AS THE DESIGN DEVELOPS INTO STAGE 4.
- 2. REFER TO DRAWING GOSHCCC-BDP-ZZ-ZZ-DR-S-1000-1010 FOR GENERAL NOTES.
- 3. DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS
- 4. FOR MATERIAL SPECIFICATIONS REFER TO THE OUTLINE SPECIFICATION (GOSHCCC-BDP-ZZ-ZZ-SP-S-2000-6301)
- 5. FOR DESIGN ASSUMPTIONS REFER TO BASIS OF DESIGN (GOSHCCC-BDP-ZZ-ZZ-SP-S-2000-6300)
- 6. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
- 7. ALL STRUCTURAL LEVELS ARE IN METERS U.N.O
- DO NOT SCALE FROM THE DRAWINGS OR THE COMPUTER DIGITAL DATA. ONLY FIGURED DIMENSIONS ARE TO BE USED.
- 9. ALL DIMENSIONS TO BE CHECKED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER.
- 10. ALL INFORMATION RELATED TO THE SIZE, LOCATION, ARRANGEMENT AND DETAIL OF EXISTING STRUCTURE IS BASED ON AN INCOMPLETE SET OF HISTORIC DRAWINGS AND IS TO BE VERIFIED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- 11. REFERENCE SHOULD BE MADE TO THE RELEVANT ARCHITECTS DRAWINGS FOR SETTING OUT OF GRIDS AND REFERENCE POINTS.
- 12. COMPOSITE DECK HAS BEEN DESIGNED TO NOT REQUIRE ANY PROPPING DURING CONCRETE POURING AND CURING.
- 13. MANHOLE LOCATIONS TO BE COORDINATED WITH CRANE BASES AND SETTLEMENT PILES DURING STAGE 4.





COLU	MN SCHEDULE		
MARK	TYPE		
C1	650 x 650		
C3	750 x 750		
C4	525 x 525		
C5	700 x 700		
C6	300 x 750		
C8	350 x 800		
C12	750 DIA.		
C15	300 x 650		
C16	750x325		
C17	450 DIA		
C18	250x400		7///
C19	500 DIA		
C20	400 x 950		
C21	800 DIA.		
C22	910 x 750	3	
C23	1610 x 750	ξ I	
C24	300 x 300	3	
SC1	UKC152x152x23		
SC3	UC152x152x37		
SC4	UKC203x203x60		~
SC5	SHS 100x100x10		
SC6	UC305x305x118		~
SC7	SHS 200x200x10		
SC8	UKC305x305x158		
SC9	UKC254x254x132		
SC11	UC305x305x198		
SC12	UKC305x305x283		
SC13	SHS100x100x8		MAR
SC14	UC305x305x240	\mathbf{s}	B1
			B2
RC WA	ALL SCHEDULE		B4
MARK	TYPE	5	B5
W1	300 RC WALL		B6
W2	250 RC LINER WALL		B7
W3	250 RC WALL		B10
		1	P11

350 RC WALL

225 RC WALL

W4

W5

W6

	LEGEND
	CDM RISK, REFER TO SCHEDULE
	EXISTING STRUCTURE IN SECTION
	EXISTING STRUCTURE SURFACE
	IN SITU CONCRETE IN SECTION
	IN SITU CONCRETE SURFACE
	STEEL SURFACE
	RECESS IN SLAB
	50mm MOVEMENT JOINT
	EXISTING STEEL BEAM
	NEW STEEL BEAM
	MOMENT CONNECTION
	THERMAL BREAK CONNECTOR (ANCON ISOTEC OR SIMILAR)
	160 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK
~~	200 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK
	150 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK

BEAM SCHEDULE

MARK	TYPE
B1	UC203x203x46
B2	UKC305x305x198
B4	120x120x12 EA
B5	UKC254x254x89
B6	SHS 80x80x10
B7	100x100x10 EA
B10	UKC152x152x23
B11	UKC305x305x240
B12	UKC203x203x100
B13	UC305x305x118
B14	SHS 150x150x10
B15	UKC203x203x71
B17	UC356x406x393
B18	UKC356x406x551
B20	UKC305x305x283
B21	UB914x305x289
B22	UKC203x203x60
B23	SHS80x80x5
B24	CHS88.9x6.3
B27	UC305x305x97
B29	RHS450x250x16
B30	UB610x305x149
B31	UB533x210x101
B32	UB178x102x19
B33	SHS100x100x10
B34	UB254x146x37
CB1	1300x1300 DEEP CAPPING BEAM
CB4	750x750 DEEP RC DOWNSTAND
CB5	950x1325 DEEP COMPOSITE BEAM
CB6	700x550 DEEP RC DOWNSTAND
CB7	300x600 DEEP RC DOWNSTAND
CB8	300x400 DEEP RC DOWNSTAND
CB9	300x450 DEEP RC DOWNSTAND
ĊB10	375x375 DEEP RC BEAM
CB11	450x750 DEEP RC BEAM

		DZU	
		B21	
		B22	
		B23	
		B24	
		B27	
		B29	
		B30	
		B31	
		B32	
		B33	
		B34	
		CB1	13
		CB4	75
		CB5	950
		CB6	70
		CB7	30
		CB8	30
		CB9	30
	ß	CB10	· · ·
	d d	CB11	
	CDM RISK SC	CHEDU	LE
REF	DES	CRIPTION	N
[1]	INSTALLATION OF NEW STAIR AND LIFT (RETAINED STRUCTURES. SURVEY TO BE		
[2]	CREATION OF NEW BASEMENT AND INST PROXIMITY TO EXISTING RETAINED STRU		
	PROVIMINT TO EXISTING RETAINED STRU	JULIUKES	. 308

REF		DESCRIPTION	
[1]		AND LIFT CORES IN CLOSE PROXIMITY TO EX	
[2]	PROXIMITY TO EXISTING RETA CONFIRM FOUNDATION SETTI	T AND INSTALLATION OF SECANT PILED WALL AINED STRUCTURES. SURVEY TO BE UNDERT NG OUT. MONITORING STRATEGY TO BE IN PL VOID EXCESSIVE STRAIN IN EXISTING BUILDII	AKEN TO _ACE
[3]	DEEP EXCAVATION FOR BASE PREVENT FALLS	MENT REQUIRES SUITABLE EDGE PROTECTIO	ON TO
[4]		NDATIONS IN CLOSE PROXIMITY TO SUBSTRU GS. SURVEY TO BE UNDERTAKEN TO CONFIRM	
[5]	EXISTING SERVICES TRENCH SERVICES TO BE DIVERTED P	IN YARD. NEW FOUNDATIONS TO AVOID TREN RIOR TO CONSTRUCTION.	ICH OR
[6]	LIFTING OF HEAVY ITEMS INCL ADJACENT BUILDINGS.	LUDING TRUSS IN CLOSE PROXIMITY TO EXIS	TING
[7]		CTURE ON EXISTING VCB ROOF. EXISTING STE NAL LOADING, STRENGTHENING MIGHT BE RI	
[8]	DESIGNED FOR VEHICLE IMPA	COLUMNS IN SERVICE YARD SPACE. COLUMN CT LOAD. CONTRACTOR TO ENSURE TEMPOF FOR VEHICLES DURING CONSTRUCTION OF L	RARY
[9]	DEVELOPED TO ROBUST WAT	OW WATER TABLE. DESIGN PROPOSALS TO E ERPROOFING GRADES AS IT CONTAINS CRITI RED DURING THE TEMPORARY CASE.	
[10]		OW EXISTING PAVEMENT MIGHT CAUSE CLAS TO BE CARRIED OUT AND SERVICES TO BE D	
[11]		EXISTING PILES. LOCATION AND NATURE OF NOWN. SURVEY TO BE UNDERTAKEN DURING	
[12]	ASBESTOS MIGHT BE FOUND	IN EXISTING BUILDING. SURVEY TO BE SCOPE	D.
[13]	RISK OF VEHICLE IMPACT TO S DESIGNED TO RESIST IMPACT	STRUCTURES ON SOUTHERN SIDE. STRUCTU LOAD.	RES TO BE
IN LEAD			
	GOS	SH Children's Cancer Centre	PROJECT NUMBER
В			P200759
		L 05 PLAN - ZONE 2	
16 Bre	ewhouse Yard		

Birmingham Business Park

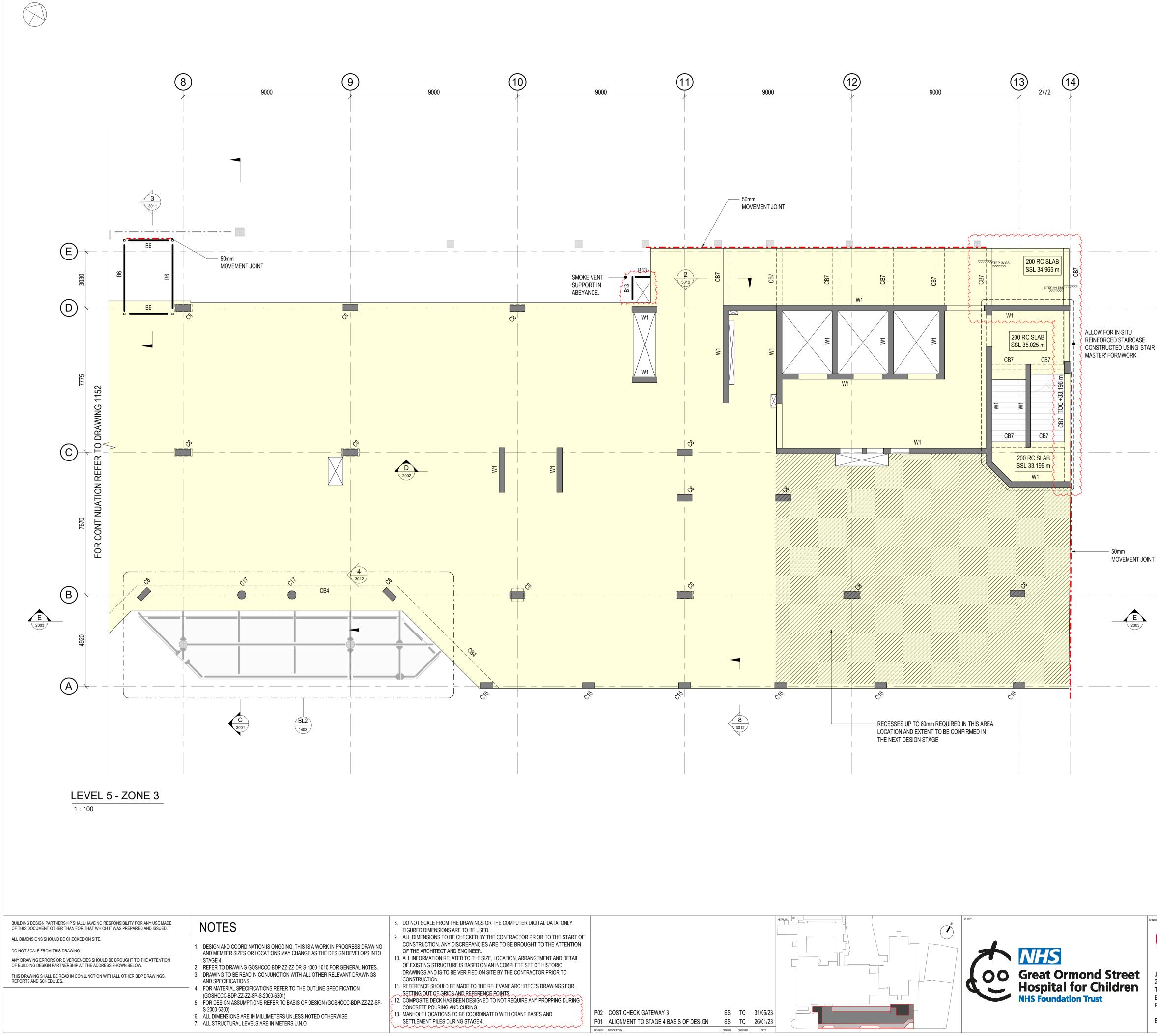
2003

Clerkenwell London EC1V 4LJ United Kingdom T +44 [0]20 7812 8000

www.bdp.com

598

GOSHC	CC-BDP-2	ZZ-05-DR-\$	8-2300-115	2		
Statussument S3 - Suitable For Review & Comment		scale 1:100	@ A1	revision date 31/0	5/23	
DRAW BY SS	TC	APPROVED BY TC	PURPOSE OF ISSUE Preliminary			PO2



	LEGEND		
	CDM RISK, REFER TO SCHEDULE		
	EXISTING STRUCTURE IN SECTION		
	EXISTING STRUCTURE SURFACE		
	IN SITU CONCRETE IN SECTION		
	IN SITU CONCRETE SURFACE		
	STEEL SURFACE		
	RECESS IN SLAB		
	50mm MOVEMENT JOINT		
	EXISTING STEEL BEAM		
	- NEW STEEL BEAM		
	- MOMENT CONNECTION		
	THERMAL BREAK CONNECTOR (ANCON ISOTEC OR SIMILAR) 160 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK		
~,,	200 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK		
~#~	150 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK		
BEAM SCHEDULE			
MARK	TYPE		
B1	ÚC203x203x46		
B2	UKC305x305x198		
B4	120x120x12 EA		

UKC254x254x89

SHS 80x80x10

100x100x10 EA

UKC152x152x23

UKC305x305x240

UKC203x203x100

UC305x305x118

SHS 150x150x10

UKC203x203x71

UC356x406x393

UKC356x406x551

UKC305x305x283

UB914x305x289

UKC203x203x60

SHS80x80x5

CHS88.9x6.3

UC305x305x97

RHS450x250x16

UB610x305x149

UB533x210x101

UB178x102x19

SHS100x100x10

UB254x146x37

1300x1300 DEEP CAPPING BEAM

750x750 DEEP RC DOWNSTAND

300x600 DEEP RC DOWNSTAND

300x400 DEEP RC DOWNSTAND

300x450 DEEP RC DOWNSTAND

375x375 DEEP RC BEAM

CB5 950x1325 DEEP COMPOSITE BEAM

CB6 700x550 DEEP RC DOWNSTAND

B5

B6

B7

B10

B11

B12

B13

B14

B15

B17

B18

B20

B21

B22

B23

B24

B27

B29

B30

B31

B32

B33

B34

CB1

CB7

CB8

CB9

CB10

CB4

COLU	MN SCHEDULE	
MARK	TYPE	
C1	650 x 650	
C3	750 x 750	
C4	525 x 525	
C5	700 x 700	
C6	300 x 750	
C8	350 x 800	
C12	750 DIA.	
C15	300 x 650	
C16	750x325	
C17	450 DIA	
C18	250x400	
C19	500 DIA	
C20	400 x 950	
C21	800 DIA.	
C22	910 x 750	
C23	1610 x 750	
C24	, 300 x,300	
SC1	UKC152x152x23	
SC3	UC152x152x37	
SC4	UKC203x203x60	
SC5	SHS 100x100x10	
SC6	UC305x305x118	
SC7	SHS 200x200x10	
SC8	UKC305x305x158	
SC9	UKC254x254x132	
SC11	UC305x305x198	
SC12	UKC305x305x283	
SC13	SHS100x100x8	
SC14	UC305x305x240	
RC W/	ALL SCHEDULE	~
MARK	TYPE	
W1	300 RC WALL	
W2	250 RC LINER WALL	
W3	250 RC WALL	
W4	150 RC WALL	
W5	350 RC WALL	_
W6	225 RC WALL	

	CB11 450x750 DEEP RC BEAM
	CDM RISK SCHEDULE
REF	DESCRIPTION
[1]	INSTALLATION OF NEW STAIR AND LIFT CORES IN CLOSE PROXIMITY TO EXISTING RETAINED STRUCTURES. SURVEY TO BE UNDERTAKEN TO CONFIRM CLEARANCES.
[2]	CREATION OF NEW BASEMENT AND INSTALLATION OF SECANT PILED WALL IN CLOSE PROXIMITY TO EXISTING RETAINED STRUCTURES. SURVEY TO BE UNDERTAKEN TO CONFIRM FOUNDATION SETTING OUT. MONITORING STRATEGY TO BE IN PLACE DURING CONSTRUCTION TO AVOID EXCESSIVE STRAIN IN EXISTING BUILDING.
[3]	DEEP EXCAVATION FOR BASEMENT REQUIRES SUITABLE EDGE PROTECTION TO PREVENT FALLS
[4]	CONSTRUCTION OF NEW FOUNDATIONS IN CLOSE PROXIMITY TO SUBSTRUCTURE OF EXISTING ADJACENT BUILDINGS. SURVEY TO BE UNDERTAKEN TO CONFIRM CLEARANCES.
[5]	EXISTING SERVICES TRENCH IN YARD. NEW FOUNDATIONS TO AVOID TRENCH OR SERVICES TO BE DIVERTED PRIOR TO CONSTRUCTION.
[6]	LIFTING OF HEAVY ITEMS INCLUDING TRUSS IN CLOSE PROXIMITY TO EXISTING ADJACENT BUILDINGS.
[7]	INSTALLATION OF NEW STRUCTURE ON EXISTING VCB ROOF. EXISTING STRUCTURE TO BE CHECKED FOR ADDITIONAL LOADING, STRENGTHENING MIGHT BE REQUIRED.
[8]	RISK OF VEHICLE IMPACT TO COLUMNS IN SERVICE YARD SPACE. COLUMNS DESIGNED FOR VEHICLE IMPACT LOAD. CONTRACTOR TO ENSURE TEMPORARY STABILITY AND SAFE ACCESS FOR VEHICLES DURING CONSTRUCTION OF LINK STRUCTURE.
[9]	CREATION OF BASEMENT BELOW WATER TABLE. DESIGN PROPOSALS TO BE DEVELOPED TO ROBUST WATERPROOFING GRADES AS IT CONTAINS CRITICAL PLANT. DEWATERING TO BE CONSIDERED DURING THE TEMPORARY CASE.
[10]	SECANT WALL INSTALLED BELOW EXISTING PAVEMENT MIGHT CAUSE CLASH WITH EXISTING SERVICES. SURVEY TO BE CARRIED OUT AND SERVICES TO BE DIVERTED IF NECESSARY.
[11]	SETTLEMENT PILES TO AVOID EXISTING PILES. LOCATION AND NATURE OF EXISTING BUILDING FOUNDATIONS UNKNOWN. SURVEY TO BE UNDERTAKEN DURING DEMOLITION PROCESS.
[12]	ASBESTOS MIGHT BE FOUND IN EXISTING BUILDING. SURVEY TO BE SCOPED.
[13]	RISK OF VEHICLE IMPACT TO STRUCTURES ON SOUTHERN SIDE. STRUCTURES TO BE DESIGNED TO RESIST IMPACT LOAD.
	PROJECT TILE
LEAD	GOSH Children's Cancer Centre
В	P2007598
	LEVEL 05 PLAN - ZONE 3



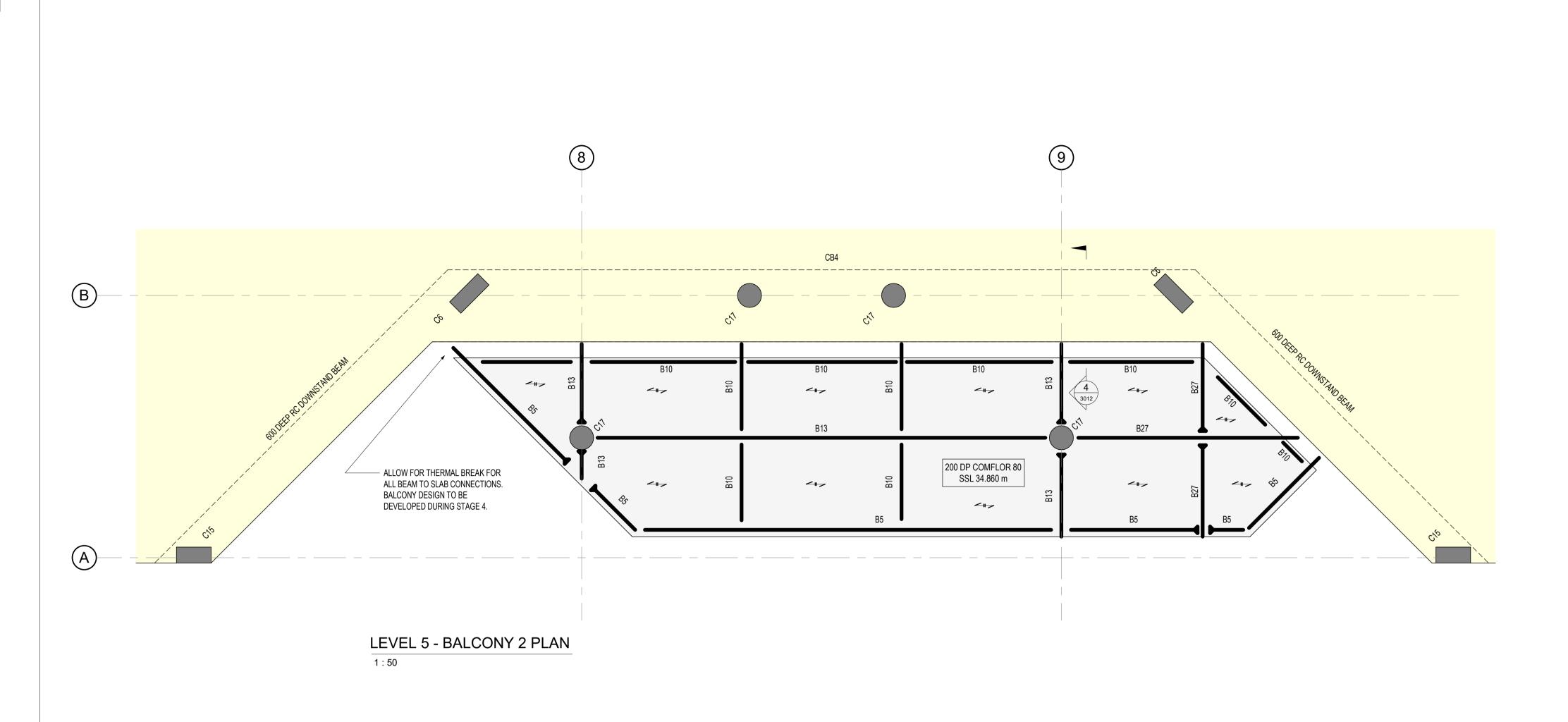
John Sisk & Son Ltd 2410 Regents Court The Crescent Birmingham Business Park Birmingham

16 Brewhouse Yard Clerkenwell London EC1V 4LJ United Kingdom T +44 [0]20 7812 8000

www.bdp.com

LEVEL 05 PLAN - ZONE 3

-	GOSHCCC-BDP-ZZ-05-DR-S-2300-1153							
	Stansoumeur S3 - Suitable For Review & Comment			scale 1:100	DRAWING SIZE	revision date 31/0	5/23	
DF	raw by SS	TC	TC	PURPOSE OF ISSUE Preliminary		1	P02	



- IN SITU CONCRETE IN SECTION
 - IN SITU CONCRETE SURFACE

STEEL SURFACE

RC COL	RC COLUMN SCHEDULE				
MARK	TYPE				
C1	650 x 650				
C3	750 x 750				
C4	525 x 525				
C5	700 x 700				
C6	300 x 750				
C8	350 x 800				
C12	750 DIA.				
C15	300 x 650				
C16	750x325				
C17	450 DIA				
C18	250x400				
C19	500 DIA				
C20	400 x 950				
C21	800 DIA.				
C22	910 x 750				
C23	1610 x 750				
C24	300 x 300				
STEEL CO	UMN SCHEDULE				
MARK	TYPE				
SC1	UKC152x152x23				
SC3	UC152x152x37				
SC4	UKC203x203x60				
SC5	SHS 100x100x10				
SC6	UC305x305x118				
SC7	SHS 200x200x10				
SC8	UKC305x305x158				
SC9	UKC254x254x132				
SC11	UC305x305x198				
SC12	UKC305x305x283				

SHS100x100x8

UC305x305x240

SC13

SC14

STEEL BEAM SCHEDULE				
MARK	TYPE			
B1	UC203x203x46			
B2	UKC305x305x198			
B4	120x120x12 EA			
B5	UKC254x254x89			
B6	SHS 80x80x10			
B7	100x100x10 EA			
B10	UKC152x152x23			
B11	UKC305x305x240			
B12	UKC203x203x100			
B13	UC305x305x118			
B14	SHS 150x150x10			
B15	UKC203x203x71			
B17	UC356x406x393			
B18	UKC356x406x551			
B20	UKC305x305x283			
B21	UB914x305x289			
B22	UKC203x203x60			
B23	SHS80x80x5			
B24	CHS88.9x6.3			
B27	UC305x305x97			
B29	RHS450x250x16			
B30	UB610x305x149			
B31	UB533x210x101			
B32	UB178x102x19			
B33	SHS100x100x10			
B34	UB254x146x37			

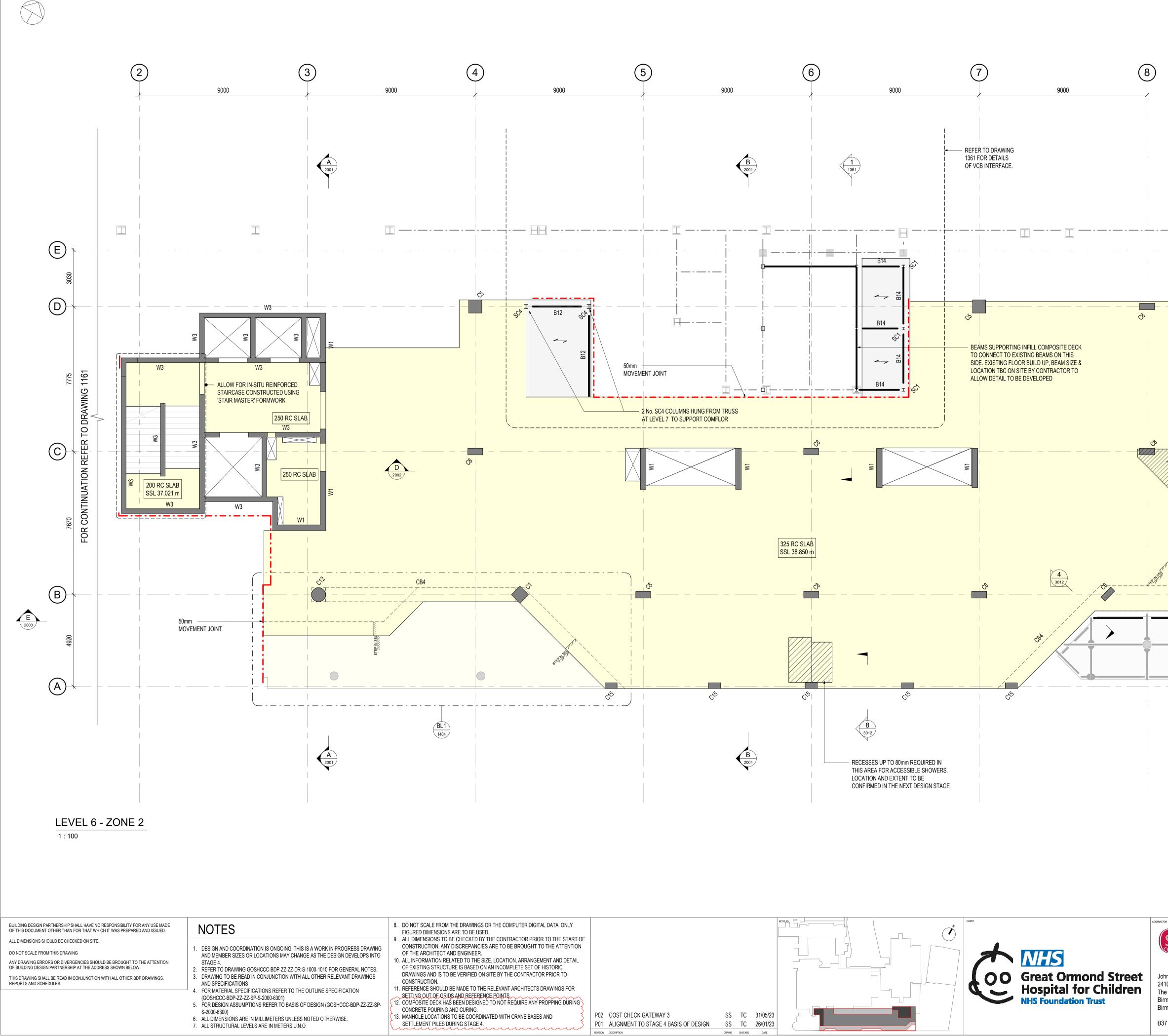
BUILDING DESIGN PARTNERSHIP SHALL HAVE NO RESPONSIBILITY FOR ANY USE MADE OF THIS DOCUMENT OTHER THAN FOR THAT WHICH IT WAS PREPARED AND ISSUED.

ALL DIMENSIONS SHOULD BE CHECKED ON SITE.

DO NOT SCALE FROM THIS DRAWING ANY DRAWING ERRORS OR DIVERGENCIES SHOULD BE BROUGHT TO THE ATTENTION OF BUILDING DESIGN PARTNERSHIP AT THE ADDRESS SHOWN BELOW. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER BDP DRAWINGS, REPORTS AND SCHEDULES.

- 1. DESIGN AND COORDINATION IS ONGOING. THIS IS A WORK IN PROGRESS DRAWING AND MEMBER SIZES OR LOCATIONS MAY CHANGE AS THE DESIGN DEVELOPS INTO STAGE 4.
- 2. REFER TO DRAWING GOSHCCC-BDP-ZZ-ZZ-DR-S-1000-1010 FOR GENERAL NOTES.
- 3. DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS
- 4. FOR MATERIAL SPECIFICATIONS REFER TO THE OUTLINE SPECIFICATION (GOSHCCC-BDP-ZZ-ZZ-SP-S-2000-6301)
- 5. FOR DESIGN ASSUMPTIONS REFER TO BASIS OF DESIGN (GOSHCCC-BDP-ZZ-ZZ-SP-S-2000-6300)
- 6. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
- 7. ALL STRUCTURAL LEVELS ARE IN METERS U.N.O
- DO NOT SCALE FROM THE DRAWINGS OR THE COMPUTER DIGITAL DATA. ONLY FIGURED DIMENSIONS ARE TO BE USED.
- 9. ALL DIMENSIONS TO BE CHECKED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER.
- 10. ALL INFORMATION RELATED TO THE SIZE, LOCATION, ARRANGEMENT AND DETAIL OF EXISTING STRUCTURE IS BASED ON AN INCOMPLETE SET OF HISTORIC DRAWINGS AND IS TO BE VERIFIED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- 11. REFERENCE SHOULD BE MADE TO THE RELEVANT ARCHITECTS DRAWINGS FOR SETTING OUT OF GRIDS AND REFERENCE POINTS.
- 12. COMPOSITE DECK HAS BEEN DESIGNED TO NOT REQUIRE ANY PROPPING DURING CONCRETE POURING AND CURING.
- 13. MANHOLE LOCATIONS TO BE COORDINATED WITH CRANE BASES AND SETTLEMENT PILES DURING STAGE 4.





COLU	MN SCHEDULE		
MARK	TYPE	-	
C1	650 x 650	-	
C3	750 x 750	-	🖊
C4	525 x 525	1	
C5	700 x 700	1	
C6	300 x 750	1	
C8	350 x 800	1	
C12	750 DIA.	-	
C15	300 x 650	1	
C16	750x325	1	
C17	450 DIA	1	
C18	250x400	1	777
C19	500 DIA	1	
C20	400 x 950	7	-
C21	800 DIA.		
C22	910 x 750	3	
C23	1610 x 750	7	
<u>, C24</u>	300 x 300	3	
SC1	UKC152x152x23	1	
SC3	UC152x152x37	1	
SC4	UKC203x203x60		-
SC5	SHS 100x100x10		
SC6	UC305x305x118]	
SC7	SHS 200x200x10		
SC8	UKC305x305x158		
SC9	UKC254x254x132		
SC11	UC305x305x198		
SC12	UKC305x305x283		
SC13	SHS100x100x8	_	MAF
SC14	UC305x305x240	} {	B1
		1	B2
RC W	ALL SCHEDULE		B4
MARK	TYPE	-	B5
W1	300 RC WALL	-	B6
W2	250 RC LINER WALL	-	B7
W3	250 RC WALL	-	B10
		-	R1'

350 RC WALL

225 RC WALL

W4

W5

W6

	LEGEND
	CDM RISK, REFER TO SCHEDULE
	EXISTING STRUCTURE IN SECTION
	EXISTING STRUCTURE SURFACE
	IN SITU CONCRETE IN SECTION
	IN SITU CONCRETE SURFACE
	STEEL SURFACE
	RECESS IN SLAB
<u> </u>	50mm MOVEMENT JOINT
	EXISTING STEEL BEAM
	NEW STEEL BEAM
	MOMENT CONNECTION THERMAL BREAK CONNECTOR (ANCON ISOTEC OR SIMILAR)
~	160 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK
***	200 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK
~ # ~	150 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK

BEAM SCHEDULE

MARK	TYPE
B1	UC203x203x46
B2	UKC305x305x198
B4	120x120x12 EA
B5	UKC254x254x89
B6	SHS 80x80x10
B7	100x100x10 EA
B10	UKC152x152x23
B11	UKC305x305x240
B12	UKC203x203x100
B13	UC305x305x118
B14	SHS 150x150x10
B15	UKC203x203x71
B17	UC356x406x393
B18	UKC356x406x551
B20	UKC305x305x283
B21	UB914x305x289
B22	UKC203x203x60
B23	SHS80x80x5
B24	CHS88.9x6.3
B27	UC305x305x97
B29	RHS450x250x16
B30	UB610x305x149
B31	UB533x210x101
B32	UB178x102x19
B33	SHS100x100x10
B34	UB254x146x37
CB1	1300x1300 DEEP CAPPING BEAM
CB4	750x750 DEEP RC DOWNSTAND
CB5	950x1325 DEEP COMPOSITE BEAM
CB6	700x550 DEEP RC DOWNSTAND
CB7	300x600 DEEP RC DOWNSTAND
CB8	300x400 DEEP RC DOWNSTAND
CB9	300x450 DEEP RC DOWNSTAND
ĊB10	375x375 DEEP RC BEAM
CB11	450x750 DEEP RC BEAM

		Ş	CB9 CB10	300x450 DEEP RC DOW	NSTAND
		\$			
			CBIU	375x375 DEEP RC E	BÉAM 👌
		Z	CB11	450x750 DEEP RC E	BEAM
			un		
		CDM RISK SC	CHEDU	LE	
REF		DES	SCRIPTIO	N	
[1]				CLOSE PROXIMITY TO EXI TAKEN TO CONFIRM CLEAR	
[2]	PROXIMITY TO EXISTIN CONFIRM FOUNDATIO	NG RETAINED STRUN N SETTING OUT. M	UCTURES	N OF SECANT PILED WALL 5. SURVEY TO BE UNDERTA NG STRATEGY TO BE IN PL TRAIN IN EXISTING BUILDIN	KEN TO ACE
[3]	DEEP EXCAVATION FC PREVENT FALLS	R BASEMENT REQ	UIRES SU	JITABLE EDGE PROTECTIO	N TO
[4]				E PROXIMITY TO SUBSTRU JNDERTAKEN TO CONFIRM	
[5]	EXISTING SERVICES T SERVICES TO BE DIVE			NDATIONS TO AVOID TREN CTION.	CHOR
[6]	LIFTING OF HEAVY ITE ADJACENT BUILDINGS		USS IN CI	LOSE PROXIMITY TO EXIST	ING
[7]				VCB ROOF. EXISTING STR ENGTHENING MIGHT BE RE	
[8]	DESIGNED FOR VEHIC	LE IMPACT LOAD.	CONTRAC	CE YARD SPACE. COLUMNS CTOR TO ENSURE TEMPOR RING CONSTRUCTION OF L	ARY
[9]		ST WATERPROOFI	NG GRAD	DESIGN PROPOSALS TO B DES AS IT CONTAINS CRITIC EMPORARY CASE.	
[10]			-	MENT MIGHT CAUSE CLAS T AND SERVICES TO BE DI	
[11]		NS UNKNOWN. SUI		DCATION AND NATURE OF I BE UNDERTAKEN DURING	EXISTING
[12]	ASBESTOS MIGHT BE	FOUND IN EXISTIN	g Buildin	NG. SURVEY TO BE SCOPE	D.
[13]	RISK OF VEHICLE IMPA DESIGNED TO RESIST		RES ON SO	DUTHERN SIDE. STRUCTUF	RES TO BE
		PROJECT TITLE			
			dren's	Cancer Centre	PROJECT NUMBER
В	DP.				P2007598
46-5		LEVEL 06 PLAN	N - ZONI	Ξ2	



0 FER

163

 $\overline{}$

വ





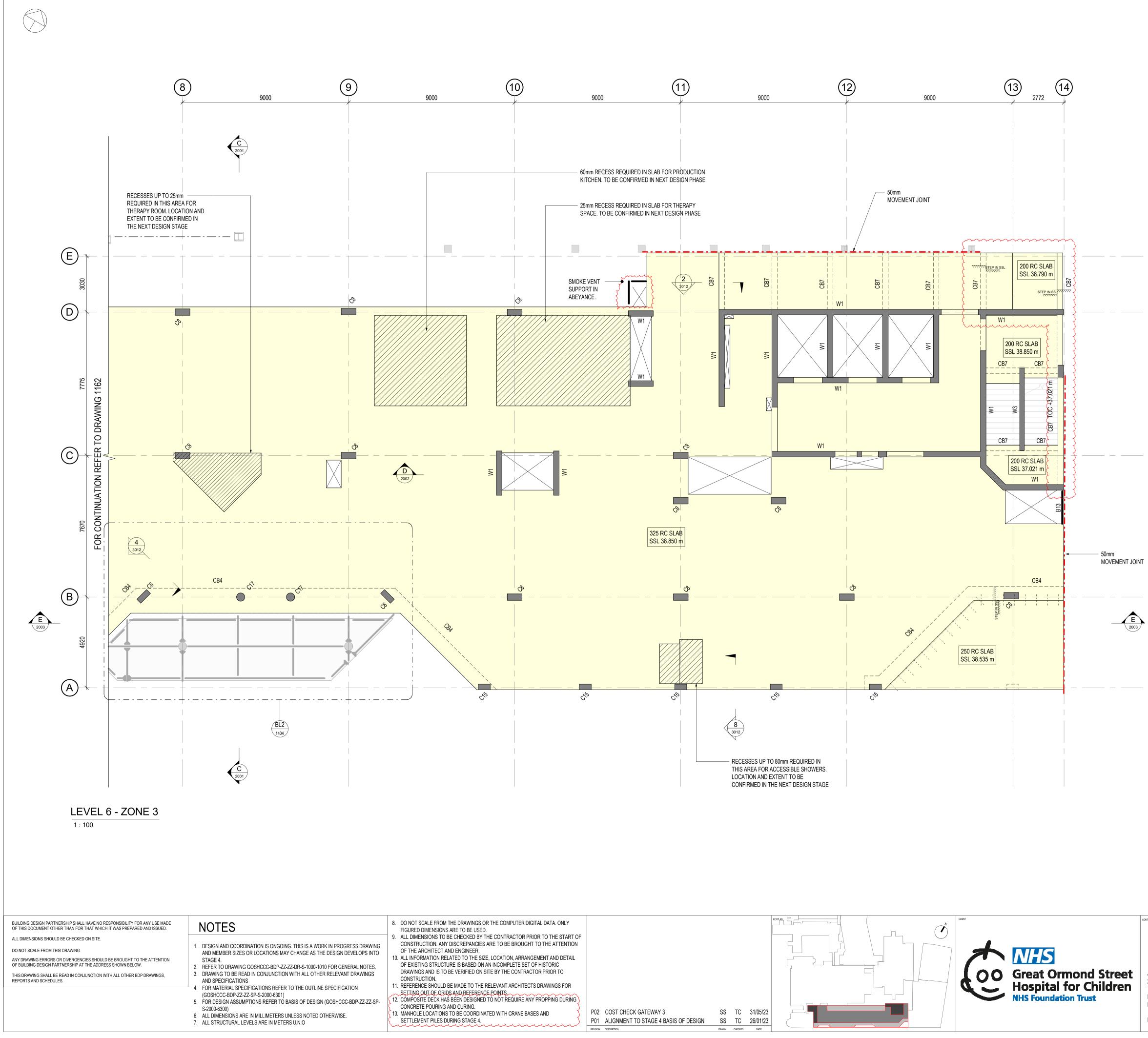
John Sisk & Son Ltd 2410 Regents Court The Crescent Birmingham Business Park Birmingham

B37 7YE

16 Brewhouse Yard Clerkenwell London EC1V 4LJ United Kingdom T +44 [0]20 7812 8000

www.bdp.com

DRAWING NO.					
GOSH	ICCC-BD	P-ZZ-06-DR	-S-2300-116	2	
STATUS/SUITABILITY			SCALE	DRAWING SIZE	REVISION DATE
S3 - Suitable For Review & Comment			t 1:100	@ A1	31/05/2
DRAW BY	CHECKED BY	APPROVED BY	PURPOSE OF ISSUE		REVISION
22	TC	TC	Preliminary		P



	LEGEND		
	CDM RISK, REFER TO SCHEDULE		
	EXISTING STRUCTURE IN SECTION		
	EXISTING STRUCTURE SURFACE		
	IN SITU CONCRETE IN SECTION		
	IN SITU CONCRETE SURFACE		
	STEEL SURFACE		
	RECESS IN SLAB		
	50mm MOVEMENT JOINT		
	EXISTING STEEL BEAM		
	- NEW STEEL BEAM		
	(ANCON ISOTEC OR SIMILAR)		
	160 COMPOSITE SLAB WITH		
~	1.20mm GAUGE COMFLOR 80 DECK		
	200 COMPOSITE SLAB WITH		
~	1.20mm GAUGE COMFLOR 80 DECK		
~# ~	150 COMPOSITE SLAB WITH		
	1.20mm GAUGE COMFLOR 80 DECK		
	BEAM SCHEDULE		
MARK	ТҮРЕ		
B1	ÚC203x203x46		
B2	UKC305x305x198		
B4	120x120x12 EA		
B5	UKC254x254x89		
B6	SHS 80x80x10		
B7	100x100x10 EA		
B10 B11	UKC152x152x23 UKC305x305x240		
B11 B12	UKC203x203x100		
B12 B13	UC305x305x118		
B13	SHS 150x150x10		
B14	UKC203x203x71		
B13	UC356x406x393		
B18	UKC356x406x551		
B10 B20	UKC305x305x283		
B21	UB914x305x289		

UKC203x203x60

SHS80x80x5

CHS88.9x6.3

UC305x305x97

RHS450x250x16

UB610x305x149

UB533x210x101

UB178x102x19

SHS100x100x10

UB254x146x37

1300x1300 DEEP CAPPING BEAM

750x750 DEEP RC DOWNSTAND

300x600 DEEP RC DOWNSTAND

300x400 DEEP RC DOWNSTAND

300x450 DEEP RC DOWNSTAND

375x375 DEEP RC BEAM

450x750 DEEP RC BEAM

CB5 950x1325 DEEP COMPOSITE BEAM CB6 700x550 DEEP RC DOWNSTAND

COLU	MN SCHEDULE
MARK	TYPE
C1	650 x 650
C3	750 x 750
C4	525 x 525
C5	700 x 700
C6	300 x 750
C8	350 x 800
C12	750 DIA.
C15	300 x 650
C16	750x325
C17	450 DIA
C18	250x400
C19	500 DIA
C20	400 x 950
C21	800 DIA.
C22	910 x 750
C23	1610 x 750
<u>C24</u>	300 x 300
SC1	UKC152x152x23
SC3	UC152x152x37
SC4	UKC203x203x60
SC5	SHS 100x100x10
SC6	UC305x305x118
SC7	SHS 200x200x10
SC8	UKC305x305x158
SC9	UKC254x254x132
SC11	UC305x305x198
SC12	UKC305x305x283
SC13	SHS100x100x8
SC14	UC305x305x240
RC W	ALL SCHEDULE
MARK	TYPE
W1	300 RC WALL
W2	250 RC LINER WALL
W3	250 RC WALL
W4	150 RC WALL
W5	350 RC WALL
W6	225 RC WALL

	CDM RISK SCHEDULE		
REF	DESCRIPTION		
[1]	INSTALLATION OF NEW STAIR AND LIFT CORES IN CLOSE PROXIMITY TO EX RETAINED STRUCTURES. SURVEY TO BE UNDERTAKEN TO CONFIRM CLEAR		
[2]	CREATION OF NEW BASEMENT AND INSTALLATION OF SECANT PILED WALL PROXIMITY TO EXISTING RETAINED STRUCTURES. SURVEY TO BE UNDERT CONFIRM FOUNDATION SETTING OUT. MONITORING STRATEGY TO BE IN PI DURING CONSTRUCTION TO AVOID EXCESSIVE STRAIN IN EXISTING BUILDI	AKEN TO LACE	
[3]	DEEP EXCAVATION FOR BASEMENT REQUIRES SUITABLE EDGE PROTECTION PREVENT FALLS	ON TO	
[4]	CONSTRUCTION OF NEW FOUNDATIONS IN CLOSE PROXIMITY TO SUBSTRUEXISTING ADJACENT BUILDINGS. SURVEY TO BE UNDERTAKEN TO CONFIRICLEARANCES.		
[5]	EXISTING SERVICES TRENCH IN YARD. NEW FOUNDATIONS TO AVOID TRENSERVICES TO BE DIVERTED PRIOR TO CONSTRUCTION.	ICH OR	
[6]	LIFTING OF HEAVY ITEMS INCLUDING TRUSS IN CLOSE PROXIMITY TO EXIS ADJACENT BUILDINGS.	TING	
[7]	INSTALLATION OF NEW STRUCTURE ON EXISTING VCB ROOF. EXISTING STRUCTURE TO BE CHECKED FOR ADDITIONAL LOADING, STRENGTHENING MIGHT BE REQUIRED.		
[8]	RISK OF VEHICLE IMPACT TO COLUMNS IN SERVICE YARD SPACE. COLUMN DESIGNED FOR VEHICLE IMPACT LOAD. CONTRACTOR TO ENSURE TEMPOI STABILITY AND SAFE ACCESS FOR VEHICLES DURING CONSTRUCTION OF I STRUCTURE.	RARY	
[9]	CREATION OF BASEMENT BELOW WATER TABLE. DESIGN PROPOSALS TO E DEVELOPED TO ROBUST WATERPROOFING GRADES AS IT CONTAINS CRITI DEWATERING TO BE CONSIDERED DURING THE TEMPORARY CASE.		
[10]	SECANT WALL INSTALLED BELOW EXISTING PAVEMENT MIGHT CAUSE CLASE EXISTING SERVICES. SURVEY TO BE CARRIED OUT AND SERVICES TO BE D NECESSARY.	-	
[11]	SETTLEMENT PILES TO AVOID EXISTING PILES. LOCATION AND NATURE OF BUILDING FOUNDATIONS UNKNOWN. SURVEY TO BE UNDERTAKEN DURING DEMOLITION PROCESS.		
[12]	ASBESTOS MIGHT BE FOUND IN EXISTING BUILDING. SURVEY TO BE SCOPE	Ð.	
[13]	RISK OF VEHICLE IMPACT TO STRUCTURES ON SOUTHERN SIDE. STRUCTU DESIGNED TO RESIST IMPACT LOAD.	RES TO BE	
)	GOSH Children's Cancer Centre		
	DP.	PROJECT NUMBER	

B22

B23

B24

B27

B29

B30

B31

B32

B33

B34

CB1

CB4

CB7

CB8

CB9

CB10

CB11



John Sisk & Son Ltd 2410 Regents Court The Crescent Birmingham Business Park Birmingham

BUILDERS

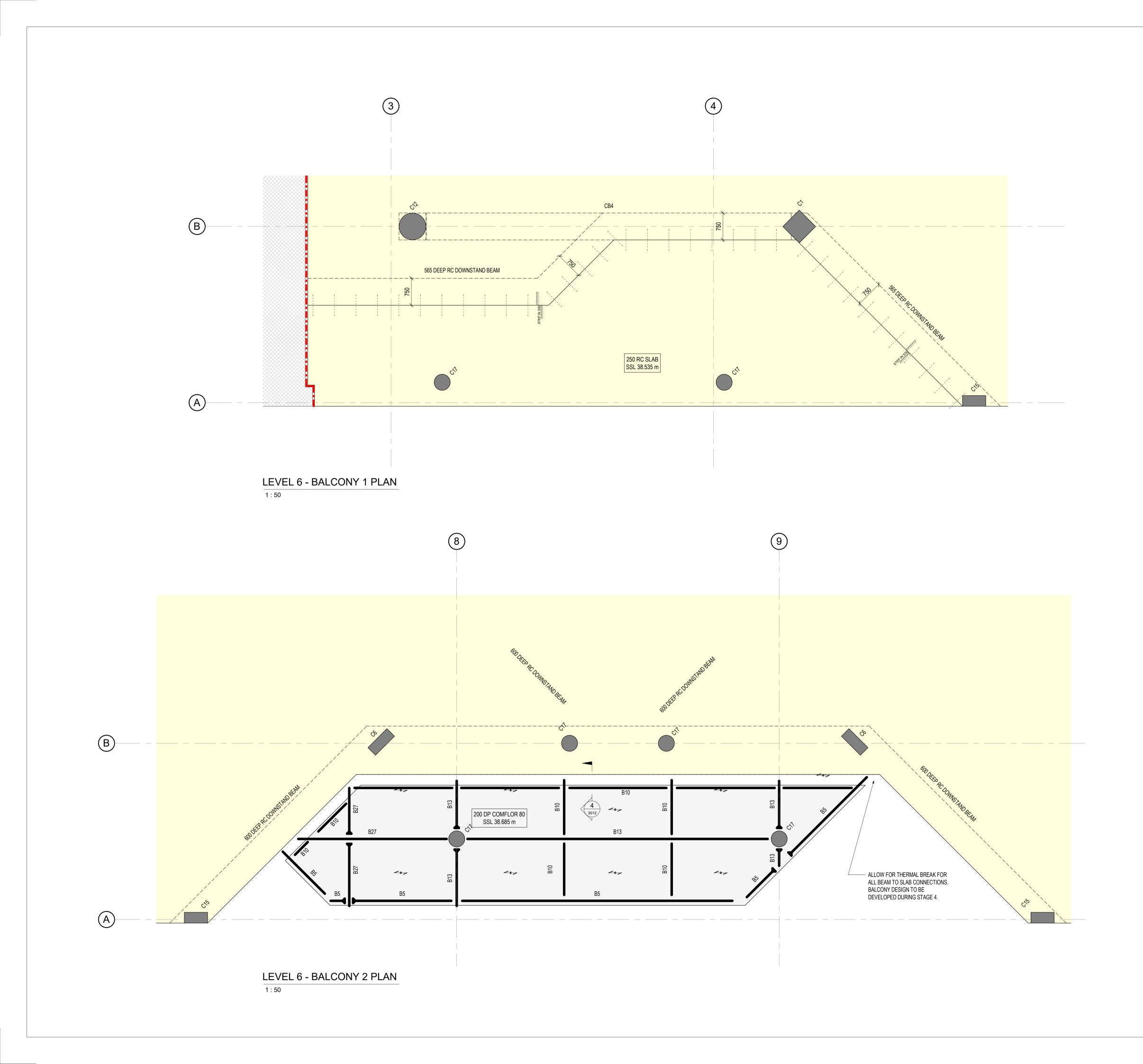
B37 7YE

16 Brewhouse Yard Clerkenwell London EC1V 4LJ United Kingdom T +44 [0]20 7812 8000

www.bdp.com

LEVEL 06 PLAN - ZONE 3

GOSHCCC-BDP-ZZ-06-DR-S-2300-1163						
statusisuitability S3 - Suitable	e For Review a	scale 1:100	@ A1	revision date 31/0	5/23	
DRAW BY	TC	APPROVED BY	PURPOSE OF ISSUE Preliminary			PO2



- IN SITU CONCRETE IN SECTION
 - IN SITU CONCRETE SURFACE

STEEL SURFACE

RC COLUMN SCHEDULE

MARK	TYPE
C1	650 x 650
C3	750 x 750
C4	525 x 525
C5	700 x 700
C6	300 x 750
C8	350 x 800
C12	750 DIA.
C15	300 x 650
C16	750x325
C17	450 DIA
C18	250x400
C19	500 DIA
C20	400 x 950
C21	800 DIA.
C22	910 x 750
C23	1610 x 750
C24	300 x 300

STEEL COLUMN SCHEDULE

MARK	TYPE
SC1	UKC152x152x23
SC3	UC152x152x37
SC4	UKC203x203x60
SC5	SHS 100x100x10
SC6	UC305x305x118
SC7	SHS 200x200x10
SC8	UKC305x305x158
SC9	UKC254x254x132
SC11	UC305x305x198
SC12	UKC305x305x283
SC13	SHS100x100x8
SC14	UC305x305x240

STEEL BEAM SCHEDULE

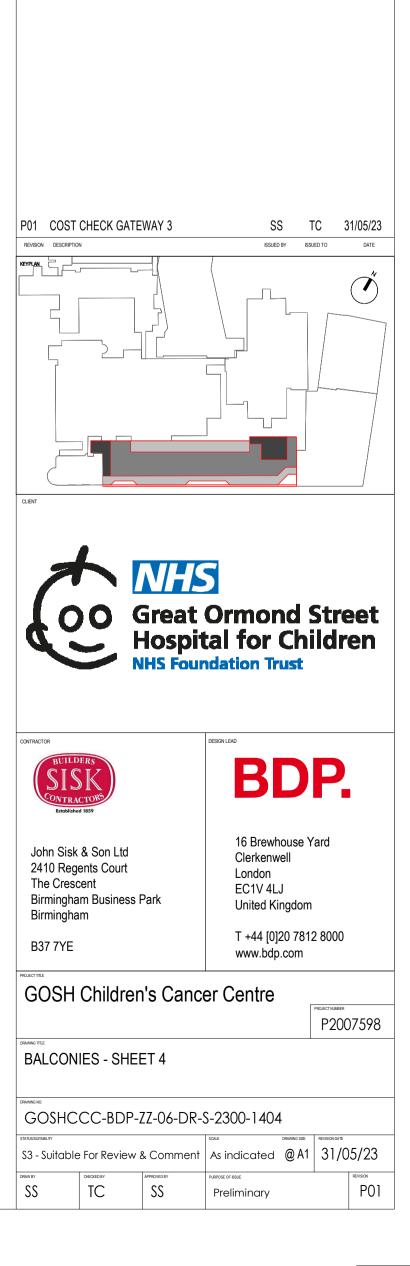
MARK	TYPE
ivi u u u	=
B1	UC203x203x46
B2	UKC305x305x198
B4	120x120x12 EA
B5	UKC254x254x89
B6	SHS 80x80x10
B7	100x100x10 EA
B10	UKC152x152x23
B11	UKC305x305x240
B12	UKC203x203x100
B13	UC305x305x118
B14	SHS 150x150x10
B15	UKC203x203x71
B17	UC356x406x393
B18	UKC356x406x551
B20	UKC305x305x283
B21	UB914x305x289
B22	UKC203x203x60
B23	SHS80x80x5
B24	CHS88.9x6.3
B27	UC305x305x97
B29	RHS450x250x16
B30	UB610x305x149
B31	UB533x210x101
B32	UB178x102x19
B33	SHS100x100x10
B34	UB254x146x37

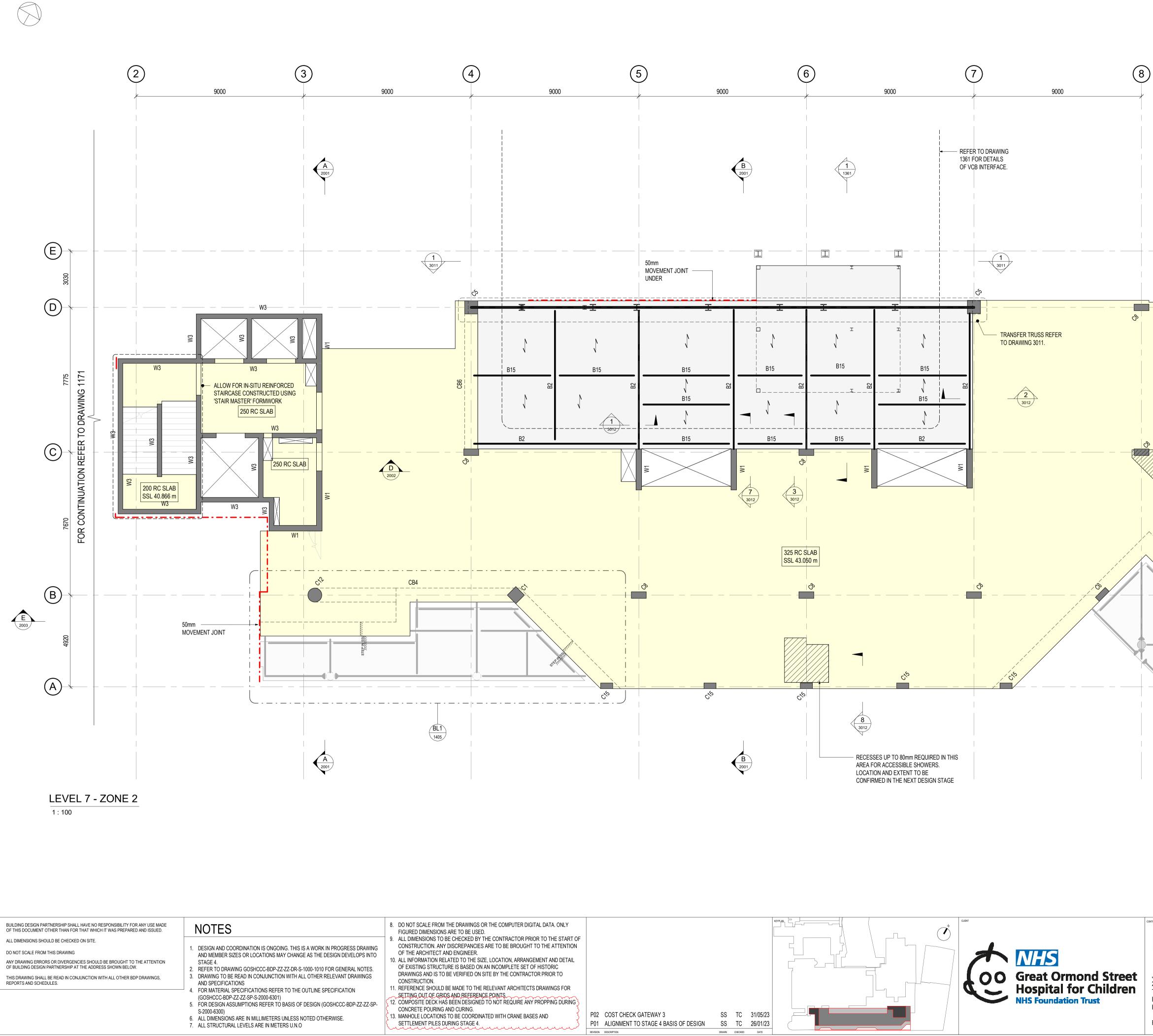
BUILDING DESIGN PARTNERSHIP SHALL HAVE NO RESPONSIBILITY FOR ANY USE MADE OF THIS DOCUMENT OTHER THAN FOR THAT WHICH IT WAS PREPARED AND ISSUED.

ALL DIMENSIONS SHOULD BE CHECKED ON SITE.

DO NOT SCALE FROM THIS DRAWING ANY DRAWING ERRORS OR DIVERGENCIES SHOULD BE BROUGHT TO THE ATTENTION OF BUILDING DESIGN PARTNERSHIP AT THE ADDRESS SHOWN BELOW. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER BDP DRAWINGS, REPORTS AND SCHEDULES.

- 1. DESIGN AND COORDINATION IS ONGOING. THIS IS A WORK IN PROGRESS DRAWING AND MEMBER SIZES OR LOCATIONS MAY CHANGE AS THE DESIGN DEVELOPS INTO STAGE 4.
- 2. REFER TO DRAWING GOSHCCC-BDP-ZZ-ZZ-DR-S-1000-1010 FOR GENERAL NOTES.
- 3. DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS
- 4. FOR MATERIAL SPECIFICATIONS REFER TO THE OUTLINE SPECIFICATION (GOSHCCC-BDP-ZZ-ZZ-SP-S-2000-6301)
- 5. FOR DESIGN ASSUMPTIONS REFER TO BASIS OF DESIGN (GOSHCCC-BDP-ZZ-ZZ-SP-S-2000-6300)
- 6. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
- 7. ALL STRUCTURAL LEVELS ARE IN METERS U.N.O
- DO NOT SCALE FROM THE DRAWINGS OR THE COMPUTER DIGITAL DATA. ONLY FIGURED DIMENSIONS ARE TO BE USED.
- 9. ALL DIMENSIONS TO BE CHECKED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER.
- 10. ALL INFORMATION RELATED TO THE SIZE, LOCATION, ARRANGEMENT AND DETAIL OF EXISTING STRUCTURE IS BASED ON AN INCOMPLETE SET OF HISTORIC DRAWINGS AND IS TO BE VERIFIED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- 11. REFERENCE SHOULD BE MADE TO THE RELEVANT ARCHITECTS DRAWINGS FOR SETTING OUT OF GRIDS AND REFERENCE POINTS.
- 12. COMPOSITE DECK HAS BEEN DESIGNED TO NOT REQUIRE ANY PROPPING DURING CONCRETE POURING AND CURING.
- 13. MANHOLE LOCATIONS TO BE COORDINATED WITH CRANE BASES AND SETTLEMENT PILES DURING STAGE 4.





COLU	MN SCHEDULE			
MARK	TYPE	_		
C1	650 x 650	-		
C3	750 x 750	-		
C4	525 x 525	-		
C5	700 x 700			
C6	300 x 750			
C8	350 x 800			
C12	750 DIA.			
C15	300 x 650			
C16	750x325			
C17	450 DIA			
C18	250x400			777
C19	500 DIA			
C20	400 x 950			_
C21	800 DIA.			
C22	910 x 750	3		
C23	1610 x 750	$\overline{\mathbf{x}}$		
<u>C24</u>	300 x 300	<u>ک</u>		
SC1	UKC152x152x23			
SC3	UC152x152x37			
SC4	UKC203x203x60			~
SC5	SHS 100x100x10			
SC6	UC305x305x118			
SC7	SHS 200x200x10			
SC8	UKC305x305x158			
SC9	UKC254x254x132			
SC11	UC305x305x198			
SC12	UKC305x305x283			
SC13	SHS100x100x8			MAR
SC14	UC305x305x240		5	B1
		٦		B2
KC W/	ALL SCHEDULE			B4
MARK	TYPE		5	B5
W1	300 RC WALL	1		B6
W2	250 RC LINER WALL	1		B7
W3	250 RC WALL			B10
		_		D11

350 RC WALL

225 RC WALL

W4

W5

W6

	LEGEND				
	CDM RISK, REFER TO SCHEDULE				
	EXISTING STRUCTURE IN SECTION				
	EXISTING STRUCTURE SURFACE				
	IN SITU CONCRETE IN SECTION				
	IN SITU CONCRETE SURFACE				
	STEEL SURFACE				
	RECESS IN SLAB				
	50mm MOVEMENT JOINT				
	EXISTING STEEL BEAM				
	NEW STEEL BEAM				
	MOMENT CONNECTION THERMAL BREAK CONNECTOR (ANCON ISOTEC OR SIMILAR) 160 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK 200 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK 150 COMPOSITE SLAB WITH				
-	1.20mm GAUGE COMFLOR 80 DECK				

BEAM SCHEDULE

MARK	TYPE
B1	UC203x203x46
B2	UKC305x305x198
B4	120x120x12 EA
B5	UKC254x254x89
B6	SHS 80x80x10
B7	100x100x10 EA
B10	UKC152x152x23
B11	UKC305x305x240
B12	UKC203x203x100
B13	UC305x305x118
B14	SHS 150x150x10
B15	UKC203x203x71
B17	UC356x406x393
B18	UKC356x406x551
B20	UKC305x305x283
B21	UB914x305x289
B22	UKC203x203x60
B23	SHS80x80x5
B24	CHS88.9x6.3
B27	UC305x305x97
B29	RHS450x250x16
B30	UB610x305x149
B31	UB533x210x101
B32	UB178x102x19
B33	SHS100x100x10
B34	UB254x146x37
CB1	1300x1300 DEEP CAPPING BEAM
CB4	750x750 DEEP RC DOWNSTAND
CB5	950x1325 DEEP COMPOSITE BEAM
CB6	700x550 DEEP RC DOWNSTAND
CB7	300x600 DEEP RC DOWNSTAND
CB8	300x400 DEEP RC DOWNSTAND
CB9	300x450 DEEP RC DOWNSTAND
ĊB10	375x375 DEEP RC BEAM
CB11	450x750 DEEP RC BEAM

		_	CB8	300x400 DEEP RC DOW	NSTAND
			CB9	300x450 DEEP RC DOW	NSTAND
		ſ	CB10	375x375 DEEP RC E	EAM
		ž	CB11	450x750 DEEP RC E	EAM
		CDM RISK SC	HEDU	E	
REF		DES	CRIPTION	١	
[1]				CLOSE PROXIMITY TO EXI AKEN TO CONFIRM CLEAR	
[2]	PROXIMITY TO EXISTI CONFIRM FOUNDATIO	NG RETAINED STRU N SETTING OUT. M	ICTURES	N OF SECANT PILED WALL SURVEY TO BE UNDERTA IG STRATEGY TO BE IN PL RAIN IN EXISTING BUILDIN	KEN TO ACE
[3]	DEEP EXCAVATION FO	OR BASEMENT REQU	JIRES SL	ITABLE EDGE PROTECTIO	N TO
[4]				PROXIMITY TO SUBSTRUINDERTAKEN TO CONFIRM	
[5]	EXISTING SERVICES T SERVICES TO BE DIVE			DATIONS TO AVOID TREN TION.	CH OR
[6]	LIFTING OF HEAVY IT		JSS IN CL	OSE PROXIMITY TO EXIST	ING
[7]				VCB ROOF. EXISTING STR NGTHENING MIGHT BE RE	
[8]	DESIGNED FOR VEHIC	CLE IMPACT LOAD. C	ONTRAC	E YARD SPACE. COLUMNS TOR TO ENSURE TEMPOR ING CONSTRUCTION OF L	ARY
[9]		JST WATERPROOFIN	NG GRAD	DESIGN PROPOSALS TO B ES AS IT CONTAINS CRITIC EMPORARY CASE.	
[10]			-	MENT MIGHT CAUSE CLAS T AND SERVICES TO BE DI	
[11]		ONS UNKNOWN. SUR		CATION AND NATURE OF I BE UNDERTAKEN DURING	EXISTING
[12]	ASBESTOS MIGHT BE	FOUND IN EXISTING	BUILDIN	IG. SURVEY TO BE SCOPE	Э.
[13]	RISK OF VEHICLE IMP DESIGNED TO RESIST		ES ON SC	OUTHERN SIDE. STRUCTUF	ES TO BE
		PROJECT TITLE			
	DP.		ren's (Cancer Centre	
		DRAWING TITLE			P200759



John Sisk & Son Ltd 2410 Regents Court The Crescent Birmingham Business Park Birmingham

B37 7YE

16 Brewhouse Yard Clerkenwell London EC1V 4LJ United Kingdom

T +44 [0]20 7812 8000 www.bdp.com

LEVEL 07 PLAN - ZONE 2

GOSHCCC-BDP-ZZ-07-DR-S-2300-1172							
STATUS/SUITABILITY			SCALE	DRAWING SIZE	REVISION DATE		
S3 - Suitable For Review & Comment			1:100	@ A1	31/0	5/23	
DRAW BY	CHECKED BY	APPROVED BY	PURPOSE OF ISSUE			REVISION	
SS TC TC			Preliminary			P02	



1173

DRAWING

10

ER <

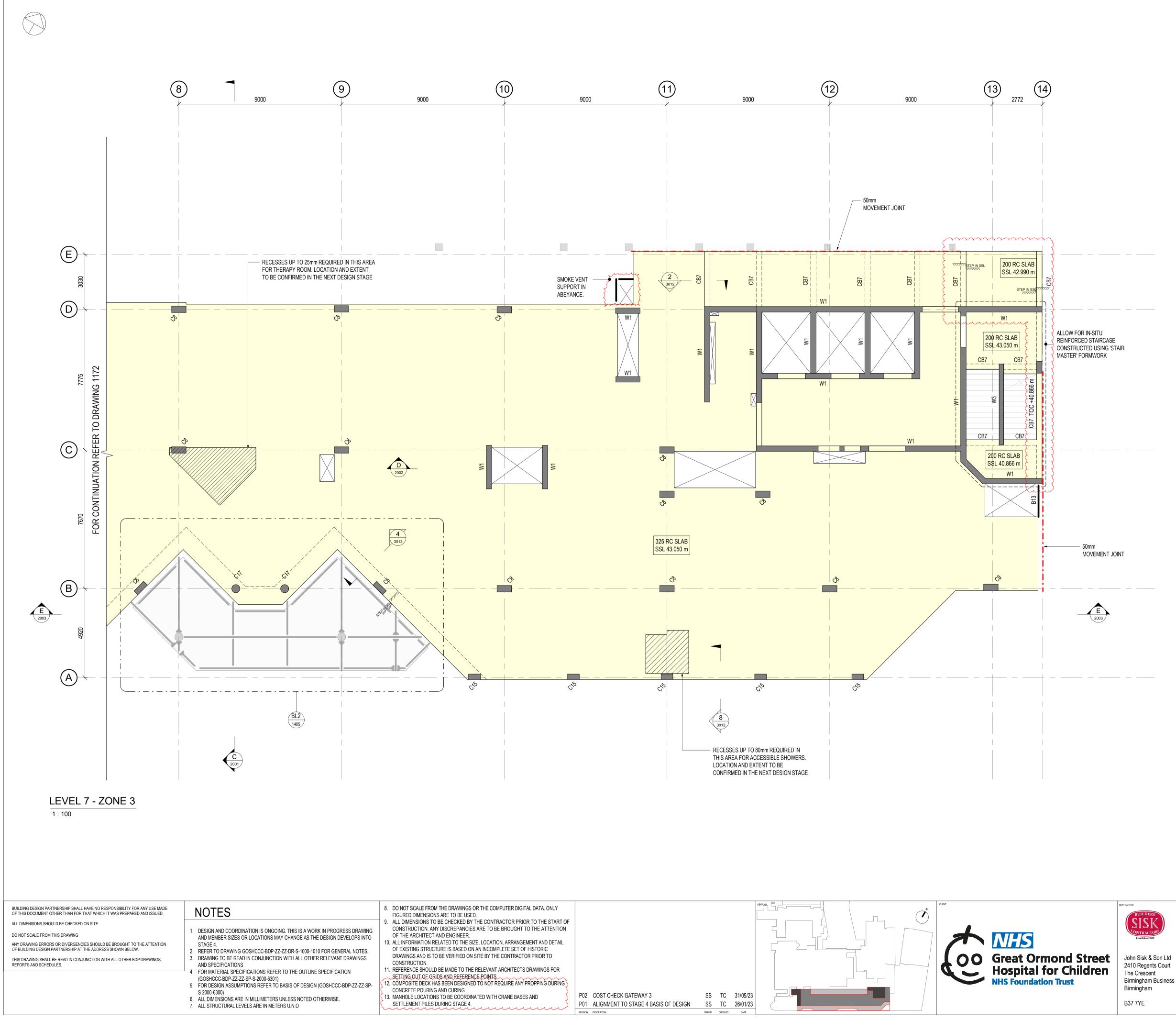
REF

E

2003

(C 2001

C 2001



	LEGEND
	CDM RISK, REFER TO SCHEDULE
	EXISTING STRUCTURE IN SECTION
	EXISTING STRUCTURE SURFACE
	IN SITU CONCRETE IN SECTION
	IN SITU CONCRETE SURFACE
	STEEL SURFACE
	RECESS IN SLAB
	50mm MOVEMENT JOINT
	EXISTING STEEL BEAM
	- NEW STEEL BEAM
	 MOMENT CONNECTION THERMAL BREAK CONNECTOR (ANCON ISOTEC OR SIMILAR) 160 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK
""	200 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK
~#~	150 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK
	BEAM SCHEDULE
ARK	TYPE
B1	UC203x203x46

UKC305x305x198

120x120x12 EA

UKC254x254x89

MARK	TYPE
C1	650 x 650
C3 C4	750 x 750
	525 x 525
C5	700 x 700
C6	300 x 750
C8	350 x 800
C12	750 DIA.
C15	300 x 650
C16	750x325
C17	450 DIA
C18	250x400
C19	500 DIA
C20	400 x 950
C21	800 DIA.
C22	910 x 750
C23	1610 x 750
<u>. C24</u>	300 x 300
SC1	UKC152x152x23
SC3	UC152x152x37
SC4	UKC203x203x60
SC5	SHS 100x100x10
SC6	UC305x305x118
SC7	SHS 200x200x10
SC8	UKC305x305x158
SC9	UKC254x254x132
SC11	UC305x305x198
SC12	UKC305x305x283
SC13	SHS100x100x8
SC14	UC305x305x240
RC W	ALL SCHEDULE
MARK	TYPE
W1	300 RC WALL
W2	250 RC LINER WALL
W3	250 RC WALL
W4	150 RC WALL
W5	350 RC WALL
W6	225 RC WALL

PE	X	BO	UNC254X254X69
WALL		B6	SHS 80x80x10
NER WALL		B7	100x100x10 EA
WALL		B10	UKC152x152x23
WALL		B11	UKC305x305x240
WALL		B12	UKC203x203x100
WALL)	B13	UC305x305x118
	ŀ	B14	SHS 150x150x10
		B15	UKC203x203x71
		B17	UC356x406x393
		B18	UKC356x406x551
		B20	UKC305x305x283
		B21	UB914x305x289
		B22	UKC203x203x60
		B23	SHS80x80x5
		B24	CHS88.9x6.3
		B27	UC305x305x97
		B29	RHS450x250x16
		B30	UB610x305x149 2002
		B31	UB533x210x101
		B32	UB178x102x19
		B33	SHS100x100x10
		B34	UB254x146x37
		CB1	1300x1300 DEEP CAPPING BEAM
		CB4	750x750 DEEP RC DOWNSTAND
		CB5	950x1325 DEEP COMPOSITE BEAM
		CB6	700x550 DEEP RC DOWNSTAND
		CB7	300x600 DEEP RC DOWNSTAND
		CB8	300x400 DEEP RC DOWNSTAND
		CB9	300x450 DEEP RC DOWNSTAND
	5	CB10	375x375 DEEP RC BEAM
	ξ	CB11	450x750 DEEP RC BEAM
	ų	titi	Le la
CDM RISK	s		IF
			CLOSE PROXIMITY TO EXISTING AKEN TO CONFIRM CLEARANCES.
			N OF SECANT PILED WALL IN CLOSE
			SURVEY TO BE UNDERTAKEN TO
ON SETTING OL	JT. M	ONITORIN	IG STRATEGY TO BE IN PLACE
FION TO AVOID	EXCI	ESSIVE ST	FRAIN IN EXISTING BUILDING.
OR BASEMENT	REC	UIRES SU	JITABLE EDGE PROTECTION TO
NEW FOUNDATI	ONS	IN CLOSE	E PROXIMITY TO SUBSTRUCTURE OF
BUILDINGS. SU	RVE	Y TO BE L	JNDERTAKEN TO CONFIRM
	א חק		IDATIONS TO AVOID TRENCH OR
ERTED PRIOR 1			
			OSE PROXIMITY TO EXISTING

REF		DESCRIPTION		
[1]		V STAIR AND LIFT CORES IN CLOSE PROXIMITY TO EXIS ES. SURVEY TO BE UNDERTAKEN TO CONFIRM CLEAR/		
[2]	PROXIMITY TO EXISTII CONFIRM FOUNDATIO	SEMENT AND INSTALLATION OF SECANT PILED WALL I NG RETAINED STRUCTURES. SURVEY TO BE UNDERTA N SETTING OUT. MONITORING STRATEGY TO BE IN PLA ON TO AVOID EXCESSIVE STRAIN IN EXISTING BUILDIN	KEN TO ACE	
[3]	DEEP EXCAVATION FO PREVENT FALLS	OR BASEMENT REQUIRES SUITABLE EDGE PROTECTION	N TO	
[4]		EW FOUNDATIONS IN CLOSE PROXIMITY TO SUBSTRUC BUILDINGS. SURVEY TO BE UNDERTAKEN TO CONFIRM		
[5]		RENCH IN YARD. NEW FOUNDATIONS TO AVOID TRENC RTED PRIOR TO CONSTRUCTION.	CHOR	
[6]	LIFTING OF HEAVY ITE ADJACENT BUILDINGS	EMS INCLUDING TRUSS IN CLOSE PROXIMITY TO EXISTI	NG	
[7]		V STRUCTURE ON EXISTING VCB ROOF. EXISTING STR ADDITIONAL LOADING, STRENGTHENING MIGHT BE RE		
[8]	DESIGNED FOR VEHIC	ACT TO COLUMNS IN SERVICE YARD SPACE. COLUMNS ILE IMPACT LOAD. CONTRACTOR TO ENSURE TEMPORA ACCESS FOR VEHICLES DURING CONSTRUCTION OF LI	ARY	
[9]	DEVELOPED TO ROBU	ENT BELOW WATER TABLE. DESIGN PROPOSALS TO BE IST WATERPROOFING GRADES AS IT CONTAINS CRITIC CONSIDERED DURING THE TEMPORARY CASE.		
[10]	SECANT WALL INSTALLED BELOW EXISTING PAVEMENT MIGHT CAUSE CLASH WITH EXISTING SERVICES. SURVEY TO BE CARRIED OUT AND SERVICES TO BE DIVERTED IF NECESSARY.			
[11]	SETTLEMENT PILES TO AVOID EXISTING PILES. LOCATION AND NATURE OF EXISTING BUILDING FOUNDATIONS UNKNOWN. SURVEY TO BE UNDERTAKEN DURING DEMOLITION PROCESS.			
[12]	ASBESTOS MIGHT BE	FOUND IN EXISTING BUILDING. SURVEY TO BE SCOPED).	
[13]	RISK OF VEHICLE IMPACT TO STRUCTURES ON SOUTHERN SIDE. STRUCTURES TO BE DESIGNED TO RESIST IMPACT LOAD.			
IGN LEAD		PROJECT TILE		
		GOSH Children's Cancer Centre	PROJECT NUMBER	
Б	$\boldsymbol{\nu}\boldsymbol{P}.$		P200759	

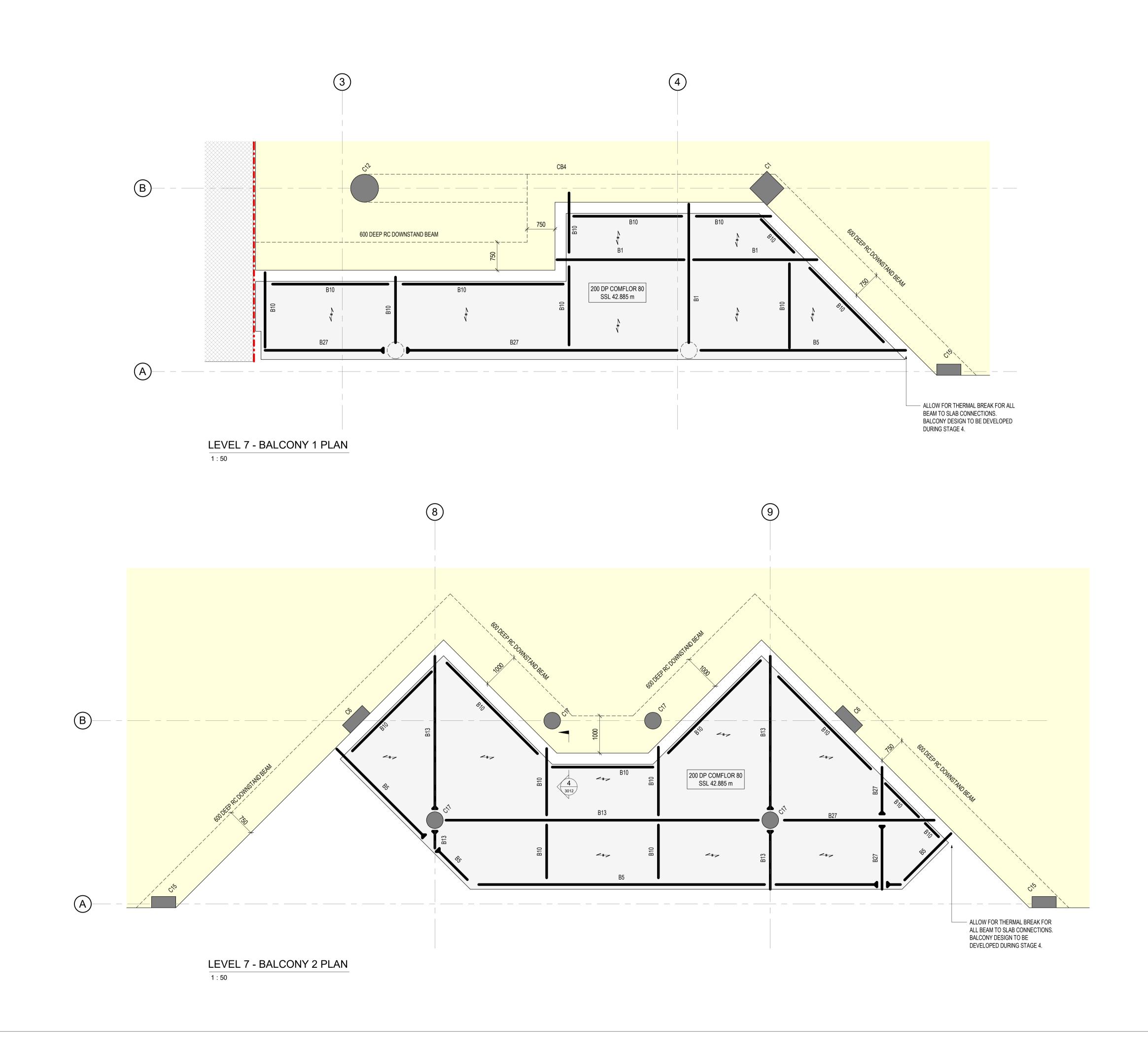
Birmingham Business Park

16 Brewhouse Yard Clerkenwell London EC1V 4LJ United Kingdom T +44 [0]20 7812 8000

www.bdp.com

LEVEL 07 PLAN - ZONE 3

GOSHCCC-BDP-ZZ-07-DR-S-2300-1173						
STATUS/SUITABILITY			SCALE	DRAWING SIZE	REVISION DATE	
S3 - Suitable	e For Review 8	& Comment	1 : 100	@ A1	31/0	5/23
DRAW BY	CHECKED BY	APPROVED BY	PURPOSE OF ISSUE			REVISION
SS	TC	TC	Preliminary			P02



- IN SITU CONCRETE IN SECTION
 - IN SITU CONCRETE SURFACE

STEEL SURFACE

RC COLUMN SCHEDULE		
MARK	TYPE	
C1	650 x 650	
C3	750 x 750	
C4	525 x 525	
C5	700 x 700	
C6	300 x 750	
C8	350 x 800	
C12	750 DIA.	
C15	300 x 650	
C16	750x325	
C17	450 DIA	
C18	250x400	
C19	500 DIA	
C20	400 x 950	
C21	800 DIA.	
C22	910 x 750	
C23	1610 x 750	
C24	300 x 300	

STEEL COLUMN SCHEDULE

MARK	TYPE
SC1	UKC152x152x23
SC3	UC152x152x37
SC4	UKC203x203x60
SC5	SHS 100x100x10
SC6	UC305x305x118
SC7	SHS 200x200x10
SC8	UKC305x305x158
SC9	UKC254x254x132
SC11	UC305x305x198
SC12	UKC305x305x283
SC13	SHS100x100x8
SC14	UC305x305x240

STEEL BEAM SCHEDULE

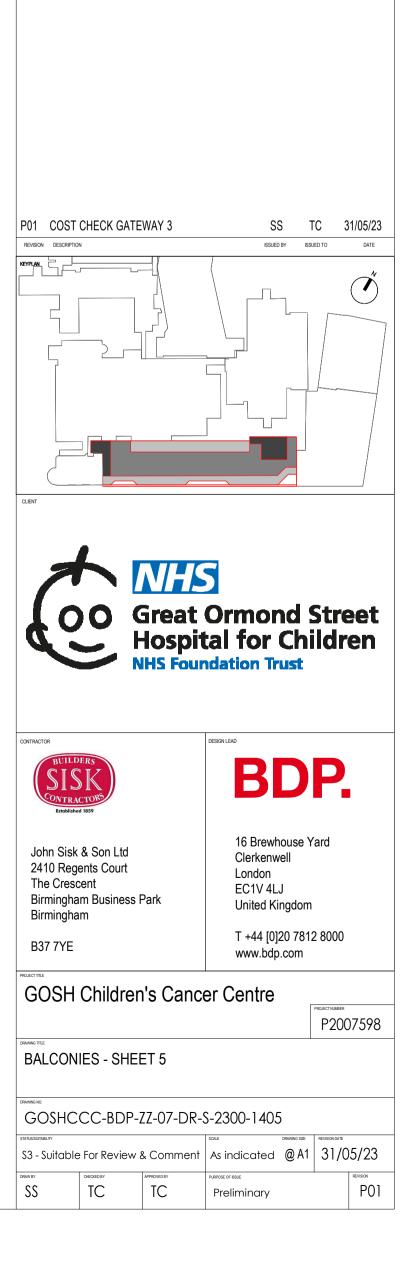
OTELE BEAM OOTEBOEL			
MARK	TYPE		
B1	UC203x203x46		
B2	UKC305x305x198		
B4	120x120x12 EA		
B5	UKC254x254x89		
B6	SHS 80x80x10		
B7	100x100x10 EA		
B10	UKC152x152x23		
B11	UKC305x305x240		
B12	UKC203x203x100		
B13	UC305x305x118		
B14	SHS 150x150x10		
B15	UKC203x203x71		
B17	UC356x406x393		
B18	UKC356x406x551		
B20	UKC305x305x283		
B21	UB914x305x289		
B22	UKC203x203x60		
B23	SHS80x80x5		
B24	CHS88.9x6.3		
B27	UC305x305x97		
B29	RHS450x250x16		
B30	UB610x305x149		
B31	UB533x210x101		
B32	UB178x102x19		
B33	SHS100x100x10		
B34	UB254x146x37		

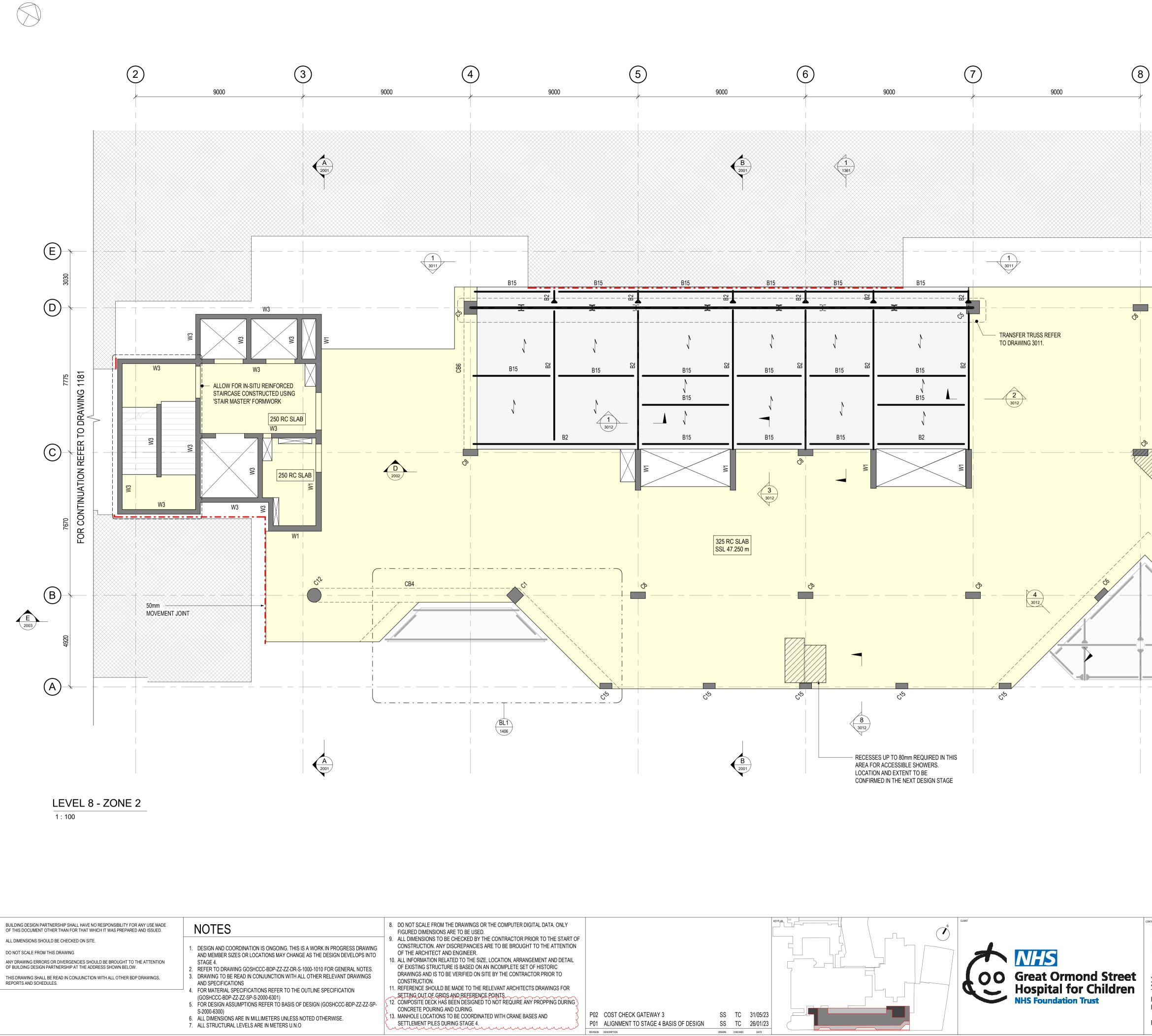
BUILDING DESIGN PARTNERSHIP SHALL HAVE NO RESPONSIBILITY FOR ANY USE MADE OF THIS DOCUMENT OTHER THAN FOR THAT WHICH IT WAS PREPARED AND ISSUED.

ALL DIMENSIONS SHOULD BE CHECKED ON SITE.

DO NOT SCALE FROM THIS DRAWING ANY DRAWING ERRORS OR DIVERGENCIES SHOULD BE BROUGHT TO THE ATTENTION OF BUILDING DESIGN PARTNERSHIP AT THE ADDRESS SHOWN BELOW. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER BDP DRAWINGS, REPORTS AND SCHEDULES.

- 1. DESIGN AND COORDINATION IS ONGOING. THIS IS A WORK IN PROGRESS DRAWING AND MEMBER SIZES OR LOCATIONS MAY CHANGE AS THE DESIGN DEVELOPS INTO STAGE 4.
- 2. REFER TO DRAWING GOSHCCC-BDP-ZZ-ZZ-DR-S-1000-1010 FOR GENERAL NOTES.
- 3. DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS
- 4. FOR MATERIAL SPECIFICATIONS REFER TO THE OUTLINE SPECIFICATION (GOSHCCC-BDP-ZZ-ZZ-SP-S-2000-6301)
- 5. FOR DESIGN ASSUMPTIONS REFER TO BASIS OF DESIGN (GOSHCCC-BDP-ZZ-ZZ-SP-S-2000-6300)
- 6. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
- 7. ALL STRUCTURAL LEVELS ARE IN METERS U.N.O
- DO NOT SCALE FROM THE DRAWINGS OR THE COMPUTER DIGITAL DATA. ONLY FIGURED DIMENSIONS ARE TO BE USED.
- 9. ALL DIMENSIONS TO BE CHECKED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER.
- 10. ALL INFORMATION RELATED TO THE SIZE, LOCATION, ARRANGEMENT AND DETAIL OF EXISTING STRUCTURE IS BASED ON AN INCOMPLETE SET OF HISTORIC DRAWINGS AND IS TO BE VERIFIED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- 11. REFERENCE SHOULD BE MADE TO THE RELEVANT ARCHITECTS DRAWINGS FOR SETTING OUT OF GRIDS AND REFERENCE POINTS.
- 12. COMPOSITE DECK HAS BEEN DESIGNED TO NOT REQUIRE ANY PROPPING DURING CONCRETE POURING AND CURING.
- 13. MANHOLE LOCATIONS TO BE COORDINATED WITH CRANE BASES AND SETTLEMENT PILES DURING STAGE 4.





COLU	MN SCHEDULE
MARK	TYPE
C1	650 x 650
C3	750 x 750
C4	525 x 525
C5	700 x 700
C6	300 x 750
C8	350 x 800
C12	750 DIA.
C15	300 x 650
C16	750x325
C17	450 DIA
C18	250x400
C19	500 DIA
C20	400 x 950
C21	800 DIA.
C22	910 x 750
C23	1610 x 750
C24	300 x 300
SC1	UKC152x152x23
SC3	UC152x152x37
SC4	UKC203x203x60
SC5	SHS 100x100x10
SC6	UC305x305x118
SC7	SHS 200x200x10
SC8	UKC305x305x158
SC9	UKC254x254x132
SC11	UC305x305x198
SC12	UKC305x305x283
SC13	SHS100x100x8
SC14	UC305x305x240
RC W/	ALL SCHEDULE
MARK	TYPE
W1	300 RC WALL
W2	250 RC LINER WALL
W3	250 RC WALL
14/4	

350 RC WALL

225 RC WALL

W4

W5

W6

	LEGEND
	CDM RISK, REFER TO SCHEDULE
	EXISTING STRUCTURE IN SECTION
	EXISTING STRUCTURE SURFACE
	IN SITU CONCRETE IN SECTION
	IN SITU CONCRETE SURFACE
	STEEL SURFACE
	RECESS IN SLAB
	50mm MOVEMENT JOINT
	EXISTING STEEL BEAM
	NEW STEEL BEAM
	MOMENT CONNECTION
	THERMAL BREAK CONNECTOR (ANCON ISOTEC OR SIMILAR)
~	160 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK
~ //	200 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK
′+ ~	150 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK

BEAM SCHEDULE

MARK	TYPE
B1	UC203x203x46
B2	UKC305x305x198
B4	120x120x12 EA
B5	UKC254x254x89
B6	SHS 80x80x10
B7	100x100x10 EA
B10	UKC152x152x23
B11	UKC305x305x240
B12	UKC203x203x100
B13	UC305x305x118
B14	SHS 150x150x10
B15	UKC203x203x71
B17	UC356x406x393
B18	UKC356x406x551
B20	UKC305x305x283
B21	UB914x305x289
B22	UKC203x203x60
B23	SHS80x80x5
B24	CHS88.9x6.3
B27	UC305x305x97
B29	RHS450x250x16
B30	UB610x305x149
B31	UB533x210x101
B32	UB178x102x19
B33	SHS100x100x10
B34	UB254x146x37
CB1	1300x1300 DEEP CAPPING BEAM
CB4	750x750 DEEP RC DOWNSTAND
CB5	950x1325 DEEP COMPOSITE BEAM
CB6	700x550 DEEP RC DOWNSTAND
CB7	300x600 DEEP RC DOWNSTAND
CB8	300x400 DEEP RC DOWNSTAND
CB9	300x450 DEEP RC DOWNSTAND
CB10	375x375 DEEP RC BEAM
CB11	450x750 DEEP RC BEAM

		CDO	300x400 DEEP RC DOV	
		CB8		
		CB9	300x450 DEEP RC DOV	\sim
		CB10	375x375 DEEP RC	
		CB11	450x750 DEEP RC	
	CDM RISK S	CHEDU	LE	
REF	DE	ESCRIPTION	١	
[1]	INSTALLATION OF NEW STAIR AND LIFT RETAINED STRUCTURES. SURVEY TO E			
[2]	CREATION OF NEW BASEMENT AND INS PROXIMITY TO EXISTING RETAINED STI CONFIRM FOUNDATION SETTING OUT. DURING CONSTRUCTION TO AVOID EXO	RUCTURES	. SURVEY TO BE UNDERT	AKEN TO LACE
[3]	DEEP EXCAVATION FOR BASEMENT RE PREVENT FALLS	QUIRES SL	IITABLE EDGE PROTECTIO	ON TO
[4]	CONSTRUCTION OF NEW FOUNDATION EXISTING ADJACENT BUILDINGS. SURV CLEARANCES.			
[5]	EXISTING SERVICES TRENCH IN YARD. SERVICES TO BE DIVERTED PRIOR TO			ICH OR
[6]	LIFTING OF HEAVY ITEMS INCLUDING T ADJACENT BUILDINGS.	RUSS IN CL	OSE PROXIMITY TO EXIS	TING
[7]	INSTALLATION OF NEW STRUCTURE ON TO BE CHECKED FOR ADDITIONAL LOA			
[8]	RISK OF VEHICLE IMPACT TO COLUMNS DESIGNED FOR VEHICLE IMPACT LOAD STABILITY AND SAFE ACCESS FOR VEH STRUCTURE.	. CONTRAC	TOR TO ENSURE TEMPO	RARY
[9]	CREATION OF BASEMENT BELOW WAT DEVELOPED TO ROBUST WATERPROOF DEWATERING TO BE CONSIDERED DUR	FING GRAD	ES AS IT CONTAINS CRITI	
[10]	SECANT WALL INSTALLED BELOW EXIS EXISTING SERVICES. SURVEY TO BE CAN NECESSARY.			
[11]	SETTLEMENT PILES TO AVOID EXISTING BUILDING FOUNDATIONS UNKNOWN. SI DEMOLITION PROCESS.			
[12]	ASBESTOS MIGHT BE FOUND IN EXISTI	NG BUILDIN	IG. SURVEY TO BE SCOPE	ED.
[13]	RISK OF VEHICLE IMPACT TO STRUCTU DESIGNED TO RESIST IMPACT LOAD.	IRES ON SC	OUTHERN SIDE. STRUCTU	RES TO BE
EAD	GOSH Chi	ldren's (Cancer Centre	
B				PROJECT NUMBER
		AN - ZONE	2	

(C 2001)

1183 MING E 10 REFER .





2001

SISK

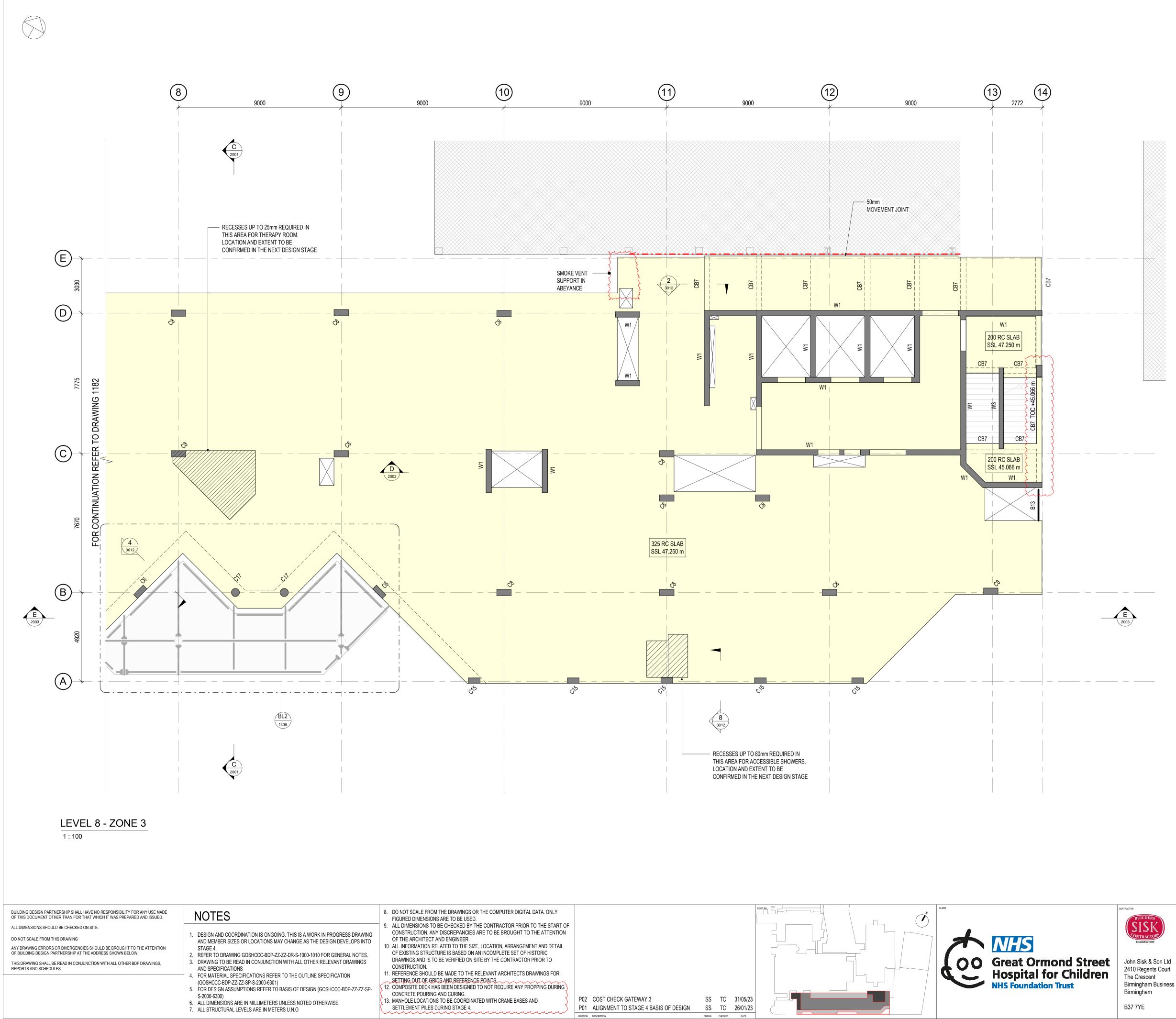
John Sisk & Son Ltd 2410 Regents Court The Crescent Birmingham Business Park Birmingham

B37 7YE

16 Brewhouse Yard Clerkenwell London EC1V 4LJ United Kingdom T +44 [0]20 7812 800

www.bdp.com

		CC-BDP-Z	ZZ-08-DR-\$	6-2300-1182	2		
	statusisuitablity S3 - Suitable	For Review 8	& Comment	scale 1:100	@ A1	REVISION DATE	5/23
00	draw by SS	TC	TC	PURPOSE OF ISSUE Preliminary			P02



	LEGEND
•	
	CDM RISK, REFER TO SCHEDULE
	EXISTING STRUCTURE IN SECTION
	EXISTING STRUCTURE SURFACE
	IN SITU CONCRETE IN SECTION
	IN SITU CONCRETE SURFACE
	STEEL SURFACE
	RECESS IN SLAB
<u> </u>	50mm MOVEMENT JOINT
	EXISTING STEEL BEAM
	- NEW STEEL BEAM
	 MOMENT CONNECTION THERMAL BREAK CONNECTOR (ANCON ISOTEC OR SIMILAR) 160 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK
""	200 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK
~+,	150 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK
	BEAM SCHEDULE
MARK	TYPE
B1	UC203x203x46
B2	UKC305x305x198
B4	120x120x12 EA
B5	UKC254x254x89
B6	SHS 80x80x10

100x100x10 EA

UKC152x152x23

UKC305x305x240

UKC203x203x100

UC305x305x118

SHS 150x150x10

UKC203x203x71

UC356x406x393

UKC356x406x551

UKC305x305x283

UB914x305x289

UKC203x203x60

SHS80x80x5

CHS88.9x6.3

UC305x305x97

RHS450x250x16

UB610x305x149

UB533x210x101

UB178x102x19

SHS100x100x10

UB254x146x37 1300x1300 DEEP CAPPING BEAM

750x750 DEEP RC DOWNSTAND

300x600 DEEP RC DOWNSTAND

300x400 DEEP RC DOWNSTAND

300x450 DEEP RC DOWNSTAND

375x375 DEEP RC BEAM

450x750 DEEP RC BEAM

CB5 950x1325 DEEP COMPOSITE BEAM

CB6 700x550 DEEP RC DOWNSTAND

B7

B10

B11

B12

B13

B14

B15

B17

B18

B20

B21

B22

B23

B24

B27

B29

B30

B31

B32

B33

B34

CB1

CB4

CB7

CB8

CB9

CB10

CB11

COLU	IMN SCHEDULE
MARK	TYPE
C1	650 x 650
C3	750 x 750
C4	525 x 525
C5	700 x 700
C6	300 x 750
C8	350 x 800
C12	750 DIA.
C15	300 x 650
C16	750x325
C17	450 DIA
C18	250x400
C19	500 DIA
C20	400 x 950
C21	800 DIA.
C22	910 x 750
C23	1610 x 750
C24	300 x 300
SC1	UKC152x152x23
SC3	UC152x152x37
SC4	UKC203x203x60
SC5	SHS 100x100x10
SC6	UC305x305x118
SC7	SHS 200x200x10
SC8	UKC305x305x158
SC9	UKC254x254x132
SC11	UC305x305x198
SC12	UKC305x305x283
SC13	SHS100x100x8
SC14	UC305x305x240
RC W	ALL SCHEDULE
MARK	TYPE
W1	300 RC WALL
W2	250 RC LINER WALL
W3	250 RC WALL
W4	150 RC WALL
W5	350 RC WALL
W6	225 RC WALL



	CDM RISK SCHEDULE
REF	DESCRIPTION
[1]	INSTALLATION OF NEW STAIR AND LIFT CORES IN CLOSE PROXIMITY TO EXISTING RETAINED STRUCTURES. SURVEY TO BE UNDERTAKEN TO CONFIRM CLEARANCES.
[2]	CREATION OF NEW BASEMENT AND INSTALLATION OF SECANT PILED WALL IN CLOSE PROXIMITY TO EXISTING RETAINED STRUCTURES. SURVEY TO BE UNDERTAKEN TO CONFIRM FOUNDATION SETTING OUT. MONITORING STRATEGY TO BE IN PLACE DURING CONSTRUCTION TO AVOID EXCESSIVE STRAIN IN EXISTING BUILDING.
[3]	DEEP EXCAVATION FOR BASEMENT REQUIRES SUITABLE EDGE PROTECTION TO PREVENT FALLS
[4]	CONSTRUCTION OF NEW FOUNDATIONS IN CLOSE PROXIMITY TO SUBSTRUCTURE OF EXISTING ADJACENT BUILDINGS. SURVEY TO BE UNDERTAKEN TO CONFIRM CLEARANCES.
[5]	EXISTING SERVICES TRENCH IN YARD. NEW FOUNDATIONS TO AVOID TRENCH OR SERVICES TO BE DIVERTED PRIOR TO CONSTRUCTION.
[6]	LIFTING OF HEAVY ITEMS INCLUDING TRUSS IN CLOSE PROXIMITY TO EXISTING ADJACENT BUILDINGS.
[7]	INSTALLATION OF NEW STRUCTURE ON EXISTING VCB ROOF. EXISTING STRUCTURE TO BE CHECKED FOR ADDITIONAL LOADING, STRENGTHENING MIGHT BE REQUIRED.
[8]	RISK OF VEHICLE IMPACT TO COLUMNS IN SERVICE YARD SPACE. COLUMNS DESIGNED FOR VEHICLE IMPACT LOAD. CONTRACTOR TO ENSURE TEMPORARY STABILITY AND SAFE ACCESS FOR VEHICLES DURING CONSTRUCTION OF LINK STRUCTURE.
[9]	CREATION OF BASEMENT BELOW WATER TABLE. DESIGN PROPOSALS TO BE DEVELOPED TO ROBUST WATERPROOFING GRADES AS IT CONTAINS CRITICAL PLAN DEWATERING TO BE CONSIDERED DURING THE TEMPORARY CASE.
[10]	SECANT WALL INSTALLED BELOW EXISTING PAVEMENT MIGHT CAUSE CLASH WITH EXISTING SERVICES. SURVEY TO BE CARRIED OUT AND SERVICES TO BE DIVERTED I NECESSARY.
[11]	SETTLEMENT PILES TO AVOID EXISTING PILES. LOCATION AND NATURE OF EXISTING BUILDING FOUNDATIONS UNKNOWN. SURVEY TO BE UNDERTAKEN DURING DEMOLITION PROCESS.
[12]	ASBESTOS MIGHT BE FOUND IN EXISTING BUILDING. SURVEY TO BE SCOPED.
[13]	RISK OF VEHICLE IMPACT TO STRUCTURES ON SOUTHERN SIDE. STRUCTURES TO BE DESIGNED TO RESIST IMPACT LOAD.

Birmingham Business Park

16 Brewhouse Yard Clerkenwell London EC1V 4LJ United Kingdom

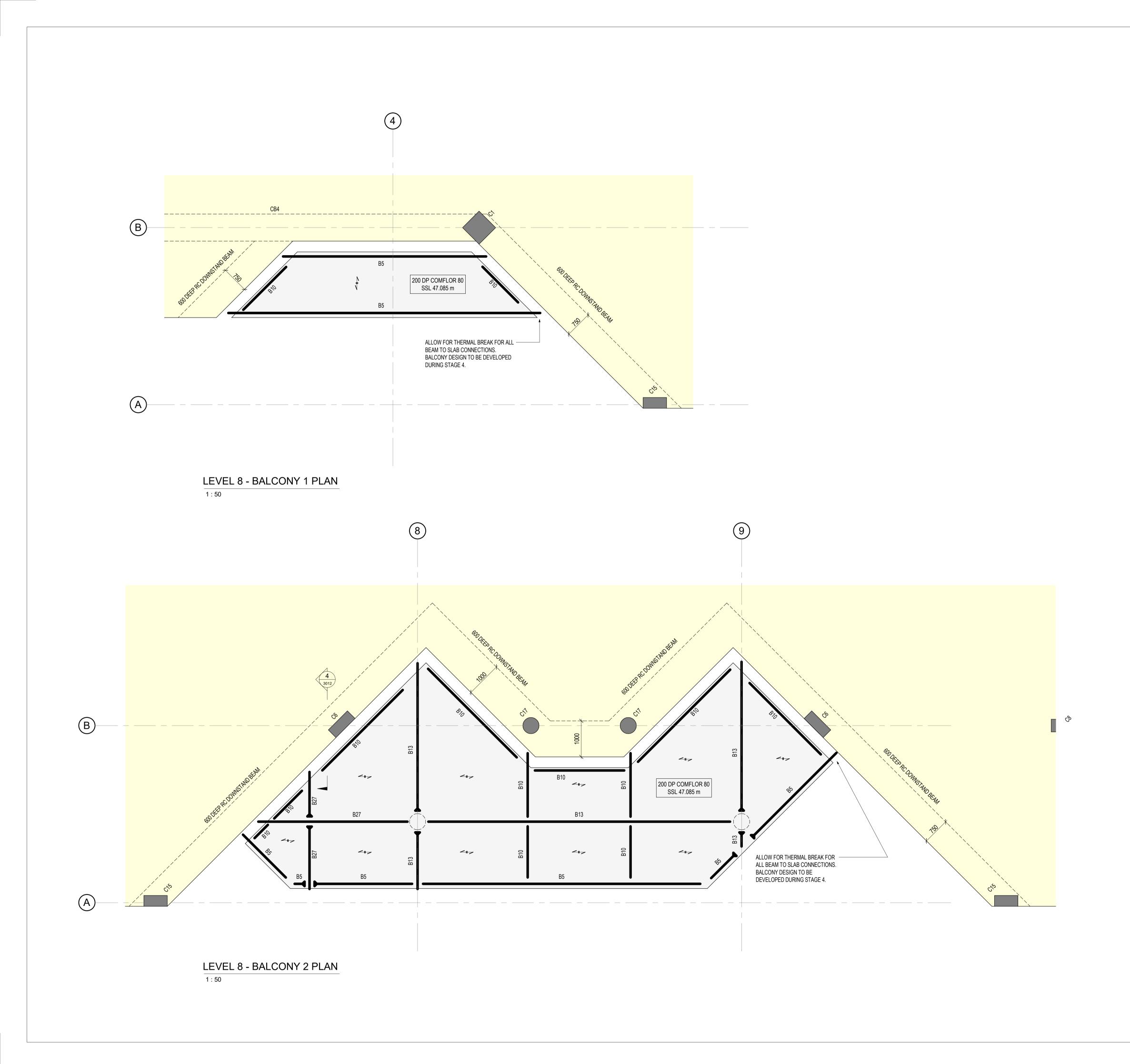
BDP.

T +44 [0]20 7812 8000 www.bdp.com

GOSH Children's Cancer Centre

LEVEL 08 PLAN - ZONE 3

GOSHCCC-BDP-ZZ-08-DR-S-2300-1183							
STATUSSURBLITY SOLE DRWWG SZE REVISION OATE							
DIE FOI REVIE	w & Comment	1:100	(WAT	51/0	5/25		
CHECKED BY	APPROVED BY	PURPOSE OF ISSUE			REVISION		
IC	IC	Preliminary			- P()'.		
		ble For Review & Comment	ble For Review & Comment 1:100	ble For Review & Comment 1:100 @A1	ble For Review & Comment 1:100 @A1 31/0		



- IN SITU CONCRETE IN SECTION
 - IN SITU CONCRETE SURFACE

STEEL SURFACE

RC COLUMN SCHEDULE			
MARK	TYPE		
C1	650 x 650		
C3	750 x 750		
C4	525 x 525		
C5	700 x 700		
C6	300 x 750		
C8	350 x 800		
C12	750 DIA.		
C15	300 x 650		
C16	750x325		
C17	450 DIA		
C18	250x400		
C19	500 DIA		
C20	400 x 950		
C21	800 DIA.		
C22	910 x 750		
C23	1610 x 750		
C24	300 x 300		
STEEL CO	DLUMN SCHEDULE		
MARK	TYPE		
SC1	UKC152x152x23		
SC3	UC152x152x37		
SC4	UKC203x203x60		
SC5	SHS 100x100x10		
SC6	UC305x305x118		
SC7	SHS 200x200x10		
SC8	UKC305x305x158		
SC9	UKC254x254x132		
SC11	UC305x305x198		
SC12	UKC305x305x283		
SC13	SHS100x100x8		

STEEL BEAM SCHEDULE MARK TYPE B1 UC203x203x46 B2 UKC305x305x198 B4 120x120x12 EA B5 UKC254x254x89 B6 SHS 80x80x10 B7 100x100x10 EA B10 UKC152x152x23 B11 UKC203x203x100 B12 UKC203x203x100 B13 UC305x305x118 B14 SHS 150x150x10 B15 UKC203x203x71 B17 UC356x406x393 B18 UKC305x305x283 B21 UB914x305x289 B22 UKC203x203x60 B23 SHS80x80x5 B24 CHS88.9x6.3 B27 UC305x305x149 B30 UB610x305x149 B31 UB533x210x101 B32 UB178x102x19 B33 SHS100x100x10 B34 UB254x146x37					
B1 UC203x203x46 B2 UKC305x305x198 B4 120x120x12 EA B5 UKC254x254x89 B6 SHS 80x80x10 B7 100x100x10 EA B10 UKC152x152x23 B11 UKC305x305x240 B12 UKC203x203x100 B13 UC305x305x118 B14 SHS 150x150x10 B15 UKC203x203x71 B17 UC356x406x393 B18 UKC305x305x283 B20 UKC305x305x283 B21 UB914x305x289 B22 UKC203x203x60 B23 SHS80x80x5 B24 CHS88.9x6.3 B27 UC305x305x149 B30 UB610x305x149 B31 UB533x210x101 B32 UB178x102x19 B33 SHS100x100x10	STEEL BEAM SCHEDULE				
B2 UKC305x305x198 B4 120x120x12 EA B5 UKC254x254x89 B6 SHS 80x80x10 B7 100x100x10 EA B10 UKC152x152x23 B11 UKC305x305x240 B12 UKC203x203x100 B13 UC305x305x118 B14 SHS 150x150x10 B15 UKC203x203x71 B17 UC356x406x393 B18 UKC305x305x283 B20 UKC305x305x283 B21 UB914x305x289 B22 UKC203x203x60 B23 SHS80x80x5 B24 CHS88.9x6.3 B27 UC305x305x149 B31 UB533x210x101 B32 UB178x102x19 B33 SHS100x100x10	MARK	TYPE			
B4 120x120x12 EA B5 UKC254x254x89 B6 SHS 80x80x10 B7 100x100x10 EA B10 UKC152x152x23 B11 UKC305x305x240 B12 UKC203x203x100 B13 UC305x305x118 B14 SHS 150x150x10 B15 UKC203x203x71 B17 UC356x406x393 B18 UKC305x305x283 B20 UKC305x305x283 B21 UB914x305x289 B22 UKC203x203x60 B23 SHS80x80x5 B24 CHS88.9x6.3 B27 UC305x305x149 B30 UB610x305x149 B31 UB533x210x101 B32 UB178x102x19 B33 SHS100x100x10	B1	UC203x203x46			
B5 UKC254x254x89 B6 SHS 80x80x10 B7 100x100x10 EA B10 UKC152x152x23 B11 UKC305x305x240 B12 UKC203x203x100 B13 UC305x305x118 B14 SHS 150x150x10 B15 UKC203x203x71 B17 UC356x406x393 B18 UKC305x305x283 B20 UKC305x305x283 B21 UB914x305x289 B22 UKC203x203x60 B23 SHS80x80x5 B24 CHS88.9x6.3 B27 UC305x305x149 B30 UB610x305x149 B31 UB533x210x101 B32 UB178x102x19 B33 SHS100x100x10	B2	UKC305x305x198			
B6 SHS 80x80x10 B7 100x100x10 EA B10 UKC152x152x23 B11 UKC305x305x240 B12 UKC203x203x100 B13 UC305x305x118 B14 SHS 150x150x10 B15 UKC203x203x71 B17 UC356x406x393 B18 UKC305x305x283 B20 UKC203x203x60 B21 UB914x305x289 B22 UKC203x203x60 B23 SHS80x80x5 B24 CHS88.9x6.3 B27 UC305x305x149 B30 UB610x305x149 B31 UB533x210x101 B32 UB178x102x19 B33 SHS100x100x10	B4	120x120x12 EA			
B7 100x100x10 EA B10 UKC152x152x23 B11 UKC305x305x240 B12 UKC203x203x100 B13 UC305x305x118 B14 SHS 150x150x10 B15 UKC203x203x71 B17 UC356x406x393 B18 UKC305x305x283 B20 UKC305x305x283 B21 UB914x305x289 B22 UKC203x203x60 B23 SHS80x80x5 B24 CHS88.9x6.3 B27 UC305x305x16 B30 UB610x305x149 B31 UB533x210x101 B32 UB178x102x19 B33 SHS100x100x10	B5	UKC254x254x89			
B10 UKC152x152x23 B11 UKC305x305x240 B12 UKC203x203x100 B13 UC305x305x118 B14 SHS 150x150x10 B15 UKC203x203x71 B17 UC356x406x393 B18 UKC305x305x283 B20 UKC305x305x283 B21 UB914x305x289 B22 UKC203x203x60 B23 SHS80x80x5 B24 CHS88.9x6.3 B27 UC305x305x149 B30 UB610x305x149 B31 UB533x210x101 B32 UB178x102x19 B33 SHS100x100x10	B6	SHS 80x80x10			
B11 UKC305x305x240 B12 UKC203x203x100 B13 UC305x305x118 B14 SHS 150x150x10 B15 UKC203x203x71 B17 UC356x406x393 B18 UKC305x305x283 B20 UKC305x203x60 B22 UKC203x203x60 B23 SHS80x80x5 B27 UC305x305x149 B30 UB610x305x149 B31 UB533x210x101 B33 SHS100x100x10	B7	100x100x10 EA			
B12 UKC203x203x100 B13 UC305x305x118 B14 SHS 150x150x10 B15 UKC203x203x71 B17 UC356x406x393 B18 UKC305x305x283 B20 UKC305x305x283 B21 UB914x305x289 B22 UKC203x203x60 B23 SHS80x80x5 B24 CHS88.9x6.3 B27 UC305x305x149 B30 UB610x305x149 B31 UB533x210x101 B32 UB178x102x19 B33 SHS100x100x10	B10	UKC152x152x23			
B13 UC305x305x118 B14 SHS 150x150x10 B15 UKC203x203x71 B17 UC356x406x393 B18 UKC305x305x283 B20 UKC305x305x283 B21 UB914x305x289 B22 UKC203x203x60 B23 SHS80x80x5 B27 UC305x305x97 B29 RHS450x250x16 B30 UB610x305x149 B31 UB533x210x101 B32 UB178x102x19 B33 SHS100x100x10	B11	UKC305x305x240			
B14 SHS 150x150x10 B15 UKC203x203x71 B17 UC356x406x393 B18 UKC305x305x283 B20 UKC305x305x283 B21 UB914x305x289 B22 UKC203x203x60 B23 SHS80x80x5 B27 UC305x305x97 B29 RHS450x250x16 B30 UB610x305x149 B31 UB533x210x101 B32 UB178x102x19 B33 SHS100x100x10	B12	UKC203x203x100			
B15 UKC203x203x71 B17 UC356x406x393 B18 UKC305x305x283 B20 UKC305x305x283 B21 UB914x305x289 B22 UKC203x203x60 B23 SHS80x80x5 B24 CHS88.9x6.3 B27 UC305x305x16 B30 UB610x305x149 B31 UB533x210x101 B32 UB178x102x19 B33 SHS100x100x10	B13	UC305x305x118			
B17 UC356x406x393 B18 UKC356x406x551 B20 UKC305x305x283 B21 UB914x305x289 B22 UKC203x203x60 B23 SHS80x80x5 B27 UC305x305x97 B29 RHS450x250x16 B30 UB610x305x149 B31 UB533x210x101 B32 SHS100x100x10	B14	SHS 150x150x10			
B18 UKC356x406x551 B20 UKC305x305x283 B21 UB914x305x289 B22 UKC203x203x60 B23 SHS80x80x5 B24 CHS88.9x6.3 B27 UC305x305x297 B29 RHS450x250x16 B30 UB610x305x149 B31 UB533x210x101 B32 UB178x102x19 B33 SHS100x100x10	B15	UKC203x203x71			
B20 UKC305x305x283 B21 UB914x305x289 B22 UKC203x203x60 B23 SHS80x80x5 B24 CHS88.9x6.3 B27 UC305x305x97 B29 RHS450x250x16 B30 UB610x305x149 B31 UB533x210x101 B32 UB178x102x19 B33 SHS100x100x10	B17	UC356x406x393			
B21 UB914x305x289 B22 UKC203x203x60 B23 SHS80x80x5 B24 CHS88.9x6.3 B27 UC305x305x97 B29 RHS450x250x16 B30 UB610x305x149 B31 UB533x210x101 B32 UB178x102x19 B33 SHS100x100x10	B18	UKC356x406x551			
B22 UKC203x203x60 B23 SHS80x80x5 B24 CHS88.9x6.3 B27 UC305x305x97 B29 RHS450x250x16 B30 UB610x305x149 B31 UB533x210x101 B32 UB178x102x19 B33 SHS100x100x10	B20	UKC305x305x283			
B23 SHS80x80x5 B24 CHS88.9x6.3 B27 UC305x305x97 B29 RHS450x250x16 B30 UB610x305x149 B31 UB533x210x101 B32 UB178x102x19 B33 SHS100x100x10	B21	UB914x305x289			
B24 CHS88.9x6.3 B27 UC305x305x97 B29 RHS450x250x16 B30 UB610x305x149 B31 UB533x210x101 B32 UB178x102x19 B33 SHS100x100x10	B22	UKC203x203x60			
B27 UC305x305x97 B29 RHS450x250x16 B30 UB610x305x149 B31 UB533x210x101 B32 UB178x102x19 B33 SHS100x100x10	B23	SHS80x80x5			
B29 RHS450x250x16 B30 UB610x305x149 B31 UB533x210x101 B32 UB178x102x19 B33 SHS100x100x10	B24	CHS88.9x6.3			
B30 UB610x305x149 B31 UB533x210x101 B32 UB178x102x19 B33 SHS100x100x10	B27	UC305x305x97			
B31 UB533x210x101 B32 UB178x102x19 B33 SHS100x100x10	B29	RHS450x250x16			
B32 UB178x102x19 B33 SHS100x100x10	B30	UB610x305x149			
B33 SHS100x100x10	B31	UB533x210x101			
	B32	UB178x102x19			
B34 UB254x146x37	B33	SHS100x100x10			
	B34	UB254x146x37			

UC305x305x240

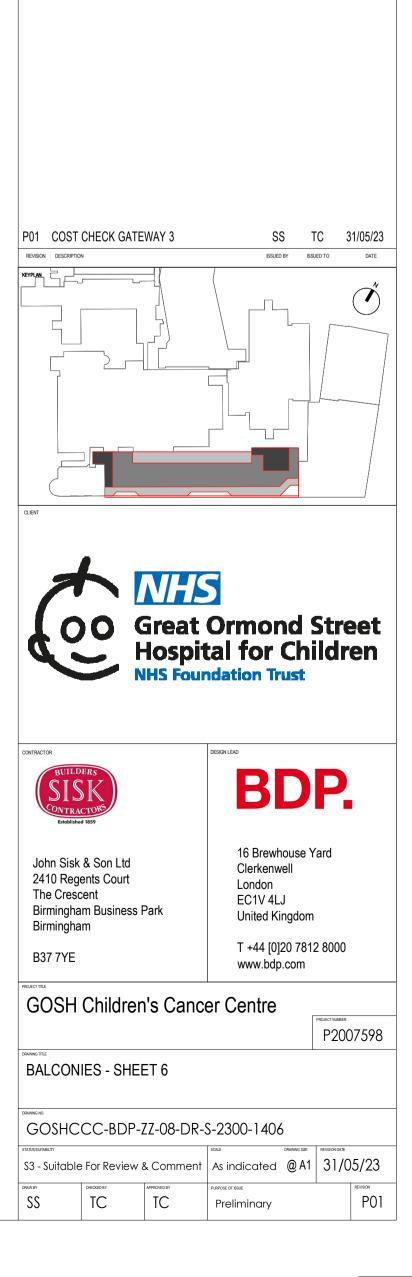
SC14

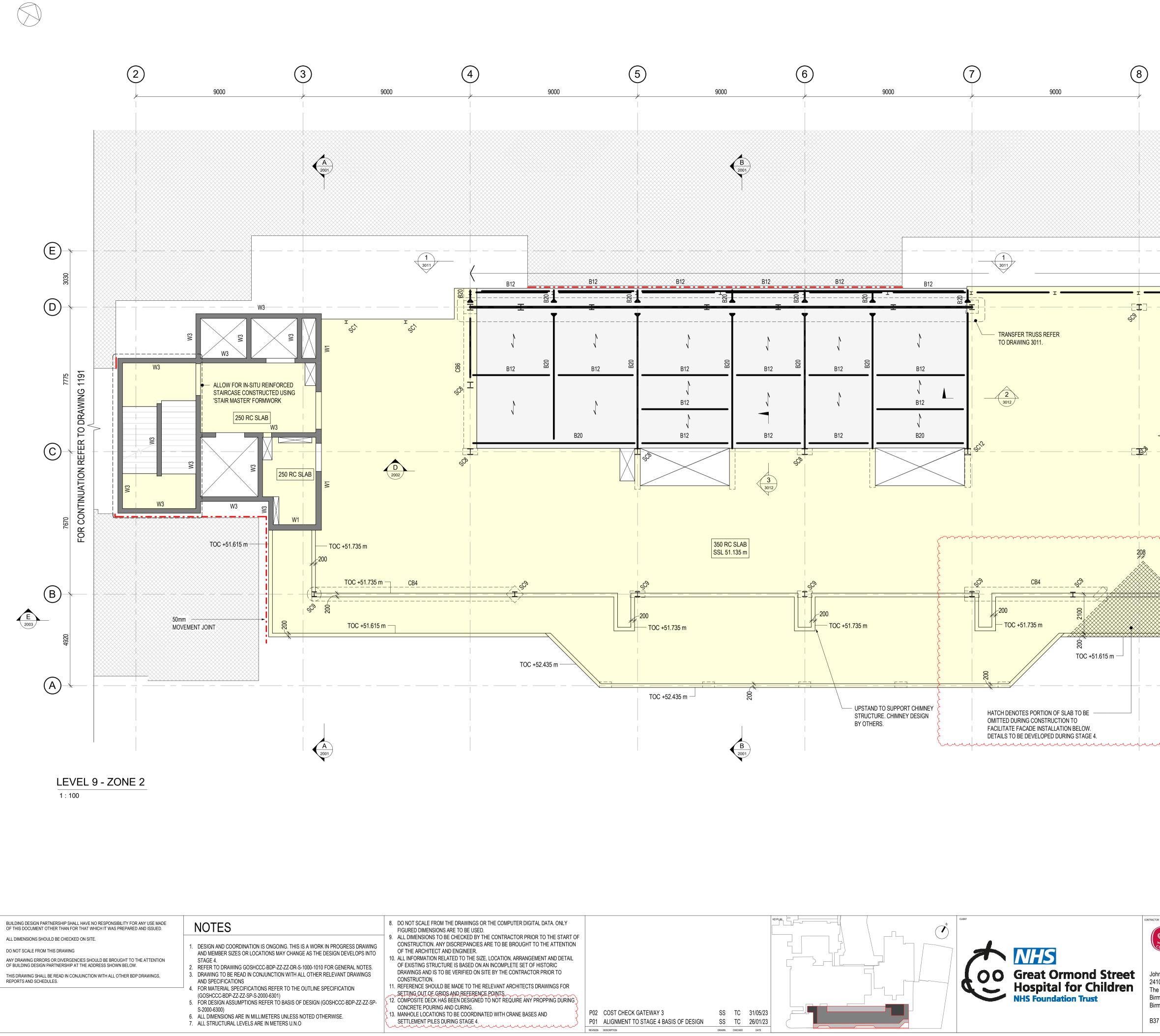
BUILDING DESIGN PARTNERSHIP SHALL HAVE NO RESPONSIBILITY FOR ANY USE MADE OF THIS DOCUMENT OTHER THAN FOR THAT WHICH IT WAS PREPARED AND ISSUED.

ALL DIMENSIONS SHOULD BE CHECKED ON SITE.

DO NOT SCALE FROM THIS DRAWING ANY DRAWING ERRORS OR DIVERGENCIES SHOULD BE BROUGHT TO THE ATTENTION OF BUILDING DESIGN PARTNERSHIP AT THE ADDRESS SHOWN BELOW. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER BDP DRAWINGS, REPORTS AND SCHEDULES.

- 1. DESIGN AND COORDINATION IS ONGOING. THIS IS A WORK IN PROGRESS DRAWING AND MEMBER SIZES OR LOCATIONS MAY CHANGE AS THE DESIGN DEVELOPS INTO STAGE 4.
- REFER TO DRAWING GOSHCCC-BDP-ZZ-ZZ-DR-S-1000-1010 FOR GENERAL NOTES.
- 3. DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS
- 4. FOR MATERIAL SPECIFICATIONS REFER TO THE OUTLINE SPECIFICATION (GOSHCCC-BDP-ZZ-ZZ-SP-S-2000-6301)
- 5. FOR DESIGN ASSUMPTIONS REFER TO BASIS OF DESIGN (GOSHCCC-BDP-ZZ-ZZ-SP-S-2000-6300)
- 6. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
- 7. ALL STRUCTURAL LEVELS ARE IN METERS U.N.O
- DO NOT SCALE FROM THE DRAWINGS OR THE COMPUTER DIGITAL DATA. ONLY FIGURED DIMENSIONS ARE TO BE USED.
- 9. ALL DIMENSIONS TO BE CHECKED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER.
- 10. ALL INFORMATION RELATED TO THE SIZE, LOCATION, ARRANGEMENT AND DETAIL OF EXISTING STRUCTURE IS BASED ON AN INCOMPLETE SET OF HISTORIC DRAWINGS AND IS TO BE VERIFIED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- 11. REFERENCE SHOULD BE MADE TO THE RELEVANT ARCHITECTS DRAWINGS FOR SETTING OUT OF GRIDS AND REFERENCE POINTS.
- 12. COMPOSITE DECK HAS BEEN DESIGNED TO NOT REQUIRE ANY PROPPING DURING CONCRETE POURING AND CURING.
- 13. MANHOLE LOCATIONS TO BE COORDINATED WITH CRANE BASES AND SETTLEMENT PILES DURING STAGE 4.





	SETTLEME	NT PIL	ES DUR	ING STA	GE 4.					
~	MMM.	しん	MM.	~ ~ ~	1 M M M	I M M	n n n	\sim	M	ょ

COLUI	MN SCHEDULE	
MARK	TYPE	
C1	650 x 650	
C3	750 x 750	
C4	525 x 525	
C5	700 x 700	
C6	300 x 750	
C8	350 x 800	
C12	750 DIA.	
C15	300 x 650	
C16	750x325	
C17	450 DIA	
C18	250x400	
C19	500 DIA	
C20	400 x 950	
C21	800 DIA.	
C22	910 x 750	}
C23	1610 x 750	
<u>C24</u>	300 x 300	J.
SC1	UKC152x152x23	
SC3	UC152x152x37	
SC4	UKC203x203x60	
SC5	SHS 100x100x10	
SC6	UC305x305x118	
SC7	SHS 200x200x10	
SC8	UKC305x305x158	
SC9	UKC254x254x132	
SC11	UC305x305x198	
SC12	UKC305x305x283	
SC13	SHS100x100x8	-
SC14	UC305x305x240	
RC WA	ALL SCHEDULE	
MARK	TYPE	
W1	300 RC WALL	
W2	250 RC LINER WALL	
W3	250 RC WALL	
W4	150 RC WALL	

225 RC WALL

W5

W6

C 2001

1193

ING

0

REFER

FOR

E

2003

<u>C</u> 2001/

	LEGEND
	CDM RISK, REFER TO SCHEDULE
	EXISTING STRUCTURE IN SECTION
	EXISTING STRUCTURE SURFACE
	IN SITU CONCRETE IN SECTION
	IN SITU CONCRETE SURFACE
	STEEL SURFACE
	RECESS IN SLAB
	50mm MOVEMENT JOINT
	EXISTING STEEL BEAM
	NEW STEEL BEAM
	MOMENT CONNECTION
	THERMAL BREAK CONNECTOR (ANCON ISOTEC OR SIMILAR)
·	160 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK
~~	200 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK
' #~	150 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK

BEAM SCHEDULE

MARK	TYPE
B1	UC203x203x46
B2	UKC305x305x198
B4	120x120x12 EA
B5	UKC254x254x89
B6	SHS 80x80x10
B7	100x100x10 EA
B10	UKC152x152x23
B11	UKC305x305x240
B12	UKC203x203x100
B13	UC305x305x118
B14	SHS 150x150x10
B15	UKC203x203x71
B17	UC356x406x393
B18	UKC356x406x551
B20	UKC305x305x283
B21	UB914x305x289
B22	UKC203x203x60
B23	SHS80x80x5
B24	CHS88.9x6.3
B27	UC305x305x97
B29	RHS450x250x16
B30	UB610x305x149
B31	UB533x210x101
B32	UB178x102x19
B33	SHS100x100x10
B34	UB254x146x37
CB1	1300x1300 DEEP CAPPING BEAM
CB4	750x750 DEEP RC DOWNSTAND
CB5	950x1325 DEEP COMPOSITE BEAM
CB6	700x550 DEEP RC DOWNSTAND
CB7	300x600 DEEP RC DOWNSTAND
CB8	300x400 DEEP RC DOWNSTAND
CB9	300x450 DEEP RC DOWNSTAND
CB10	375x375 DEEP RC BEAM
CB11	450x750 DEEP RC BEAM

 INSTALLATION OF NEW STAIR AND LIFT CORES IN CLOSE PROXIMITY TO EXISTING RETAINED STRUCTURES. SURVEY TO BE UNDERTAKEN TO CONFIRM CLEARANCES. CREATION OF NEW BASEMENT AND INSTALLATION OF SECANT PILED WALL IN CLOSE PROXIMITY TO EXISTING RETAINED STRUCTURES. SURVEY TO BE UNDERTAKEN TO CONFIRM FOUNDATION SETTING OUT. MONITORING STRATEGY TO BE IN PLACE DURING CONSTRUCTION TO A VOID EXCESSIVE STRAIN IN EXISTING BUILDING. DEEP EXCAVATION FOR BASEMENT REQUIRES SUITABLE EDGE PROTECTION TO PREVENT FALLS CONSTRUCTION OF NEW FOUNDATIONS IN CLOSE PROXIMITY TO SUBSTRUCTURE OF EXISTING ADJACENT BUILDINGS. SURVEY TO BE UNDERTAKEN TO CONFIRM CLEARANCES. EXISTING SERVICES TRENCH IN YARD. NEW FOUNDATIONS TO AVOID TRENCH OR SERVICES TO BE DIVERTED PRIOR TO CONSTRUCTION. LIFTING OF HEAVY ITEMS INCLUDING TRUSS IN CLOSE PROXIMITY TO EXISTING ADJACENT BUILDINGS. INSTALLATION OF NEW STRUCTURE ON EXISTING VCB ROOF. EXISTING STRUCTURE TO BE CHECKED FOR ADDITIONAL LOADING, STRENGTHENING MIGHT BE REQUIRED. INSTALLATION OF NEW STRUCTURE ON EXISTING VCB ROOF. EXISTING STRUCTURE TO BE CHECKED FOR ADDITIONAL LOADING, STRENGTHENING MIGHT BE REQUIRED. RISK OF VEHICLE IMPACT TO COLUMNS IN SERVICE YARD SPACE. COLUMNS DESIGNED FOR VEHICLE IMPACT LOAD. CONTRACTOR TO ENSURE TEMPORARY STABILITY AND SAFE ACCESS FOR VEHICLES DURING CONSTRUCTION OF LINK STRUCTURE. CREATION OF BASEMENT BELOW WATER TABLE. DESIGN PROPOSALS TO BE DEVELOPED TO ROBUST WATERPROOFING GRADES AS IT CONTAINS CRITICAL PLANT DEWATERING TO BE CONSIDERED DURING THE TEMPORARY CASE. SECTULEMENT PILES TO AVOID EXISTING PALES. LOCATION AND NATURE OF EXISTING BUILDING SURVEY TO BE CONSIDERED DURING THE TEMPORARY CASE. SETTLEMENT PILES TO AVOID EXISTING PROPOSALS TO BE DIVERTED IF NECESSARY. SETTLEMENT PILES TO AVOID EXISTING BUILDING. SURVEY TO BE SCOPED. RISK OF VEHICLE IMPACT TO STRUCTURES ON SOUTHERN SIDE. STR	055	CDM RISK SCHEDULE		
 RETAINED STRUCTURES. SURVEY TO BE UNDERTAKEN TO CONFIRM CLEARANCES. CREATION OF NEW BASEMENT AND INSTALLATION OF SECANT PILED WALL IN CLOSE PROXIMITY TO EXISTING RETAINED STRUCTURES. SURVEY TO BE UNDERTAKEN TO CONFIRM FOUNDATION SETTING OUT. MONITORING STRATEGY TO BE IN PLACE DURING CONSTRUCTION TO AVOID EXCESSIVE STRAIN IN EXISTING BUILDING. DEEP EXCAVATION FOR BASEMENT REQUIRES SUITABLE EDGE PROTECTION TO PREVENT FALLS CONSTRUCTION OF NEW FOUNDATIONS IN CLOSE PROXIMITY TO SUBSTRUCTURE OF EXISTING ADJACENT BUILDINGS. SURVEY TO BE UNDERTAKEN TO CONFIRM CLEARANCES. EXISTING SERVICES TRENCH IN YARD. NEW FOUNDATIONS TO AVOID TRENCH OR SERVICES TO BE DIVERTED PRIOR TO CONSTRUCTION. LIFTING OF HEAVY ITEMS INCLUDING TRUSS IN CLOSE PROXIMITY TO EXISTING ADJACENT BUILDINGS. INSTALLATION OF NEW STRUCTURE ON EXISTING VCB ROOF. EXISTING STRUCTURE TO BE CHECKED FOR ADDITIONAL LOADING, STRENGTHENING MIGHT BE REQUIRED. INSTALLATION OF NEW STRUCTURE ON EXISTING VCB ROOF. EXISTING STRUCTURE TO BE CHECKED FOR ADDITIONAL LOADING, STRENGTHENING MIGHT BE REQUIRED. INSTALLATION OF BASEMENT BELOW WATER TABLE. DESIGN PROPOSALS TO BE DESIGNED FOR VEHICLE IMPACT LOAD. CONTRACTOR TO ENSURE TEMPORARY STABILITY AND SAFE ACCESS FOR VEHICLES DURING CONSTRUCTION OF LINK STRUCTURE. SECANT WALL INSTALLED BELOW WATER TABLE. DESIGN PROPOSALS TO BE DEVELOPED TO ROBUST WATERPROOFING GRADES AS IT CONTAINS CRITICAL PLANT DEWATERING TO BE CONSIDERED DURING THE TEMPORARY CASE. SETTLEMENT PILES TO AVOID EXISTING PILES. LOCATION AND NATURE OF EXISTING BUILDING FOUNDATIONS UNKNOWN. SURVEY TO BE UNDERTAKEN DURING DEMOLITION PROCESS. ASBESTOS MIGHT BE FOUND IN EXISTING BUILDING. SURVEY TO BE SCOPED. RISK OF VEHICLE IMPACT TO STRUCTURES ON SOUTHERN SIDE. STRUCTURES TO BE DESIGNED TO RESIST IMPACT LOAD. 	REF	DESCRIPTION		
PROXIMITY TO EXISTING RETAINED STRUCTURES. SURVEY TO BE UNDERTAKEN TO CONFIRM FOUNDATION SETTING OUT. MONITORING STRATEGY TO BE IN PLACE DURING CONSTRUCTION TO AVOID EXCESSIVE STRAIN IN EXISTING BUILDING. [3] DEEP EXCAVATION FOR BASEMENT REQUIRES SUITABLE EDGE PROTECTION TO PREVENT FALLS [4] CONSTRUCTION OF NEW FOUNDATIONS IN CLOSE PROXIMITY TO SUBSTRUCTURE OF EXISTING ADJACENT BUILDINGS. SURVEY TO BE UNDERTAKEN TO CONFIRM CLEARANCES. [5] EXISTING SERVICES TRENCH IN YARD. NEW FOUNDATIONS TO AVOID TRENCH OR SERVICES TO BE DIVERTED PRIOR TO CONSTRUCTION. [6] LIFTING OF HEAVY ITEMS INCLUDING TRUSS IN CLOSE PROXIMITY TO EXISTING ADJACENT BUILDINGS. [7] INSTALLATION OF NEW STRUCTURE ON EXISTING VCB ROOF. EXISTING STRUCTURE TO BE CHECKED FOR ADDITIONAL LOADING, STRENGTHENING MIGHT BE REQUIRED. [8] RISK OF VEHICLE IMPACT TO COLUMNS IN SERVICE YARD SPACE. COLUMNS DESIGNED FOR VEHICLE IMPACT TO COLUMNS IN SERVICE YARD SPACE. COLUMNS DESIGNED FOR VEHICLE IMPACT TO COLUMNS IN SERVICE YARD SPACE. COLUMNS DESIGNED FOR VEHICLE IMPACT TO COLUMNS IN SERVICE YARD SPACE. COLUMNS STABILITY AND SAFE ACCESS FOR VEHICLES DURING CONSTRUCTION OF LINK STRUCTURE. [9] CREATION OF BASEMENT BELOW WATER TABLE. DESIGN PROPOSALS TO BE DEVELOPED TO ROBUST WATERPROOFING GRADES AS IT CONTAINS CRITICAL PLANT DEWATERING TO BE CONSIDERED DURING THE TEMPORARY CASE. [10] SECANT WALL INSTALLED BELOW EXISTING PAVEMENT MIGHT CAUSE CLASH WITH EXISTING SERVICES. SURVEY TO BE CARRIED OUT AND SERVICES TO BE DIVERTED IF NECESSARY. [11] SETTLEMENT PILES TO AVOID EXISTING PILES. LOCATION AND NATURE OF EXISTING DEMOLITION PROCESS. [12] ASBESTOS MIGHT BE FOUND IN EXISTING BUILDING. SURVEY TO BE SCOPED. [13] RISK OF VEHICLE IMPACT TO STRUCTURES ON SOUTHERN SIDE. STRUCTURES TO BE DESIGNED TO RESIST IMPACT LOAD. THE BORDER.	[1]			
 PREVENT FALLS PREVENT FALLS CONSTRUCTION OF NEW FOUNDATIONS IN CLOSE PROXIMITY TO SUBSTRUCTURE OF EXISTING ADJACENT BUILDINGS. SURVEY TO BE UNDERTAKEN TO CONFIRM CLEARANCES. EXISTING SERVICES TRENCH IN YARD. NEW FOUNDATIONS TO AVOID TRENCH OR SERVICES TO BE DIVERTED PRIOR TO CONSTRUCTION. LIFTING OF HEAVY ITEMS INCLUDING TRUSS IN CLOSE PROXIMITY TO EXISTING ADJACENT BUILDINGS. INSTALLATION OF NEW STRUCTURE ON EXISTING VCB ROOF. EXISTING STRUCTURE TO BE CHECKED FOR ADDITIONAL LOADING, STRENGTHENING MIGHT BE REQUIRED. RISK OF VEHICLE IMPACT TO COLUMNS IN SERVICE YARD SPACE. COLUMNS DESIGNED FOR VEHICLE IMPACT TO COLUMNS IN SERVICE YARD SPACE. COLUMNS DESIGNED FOR VEHICLE IMPACT TO COLUMNS IN SERVICE YARD SPACE. COLUMNS DESIGNED FOR VEHICLE IMPACT LOAD. CONTRACTOR TO ENSURE TEMPORARY STABILITY AND SAFE ACCESS FOR VEHICLES DURING CONSTRUCTION OF LINK STRUCTURE. CREATION OF BASEMENT BELOW WATER TABLE. DESIGN PROPOSALS TO BE DEVELOPED TO ROBUST WATERPROOFING GRADES AS IT CONTAINS CRITICAL PLANT DEWATERING TO BE CONSIDERED DURING THE TEMPORARY CASE. SECANT WALL INSTALLED BELOW EXISTING PAVEMENT MIGHT CAUSE CLASH WITH EXISTING SERVICES. SURVEY TO BE CARRIED OUT AND SERVICES TO BE DIVERTED IF NECESSARY. SETTLEMENT PILES TO AVOID EXISTING PILES. LOCATION AND NATURE OF EXISTING BUILDING FOUNDATIONS UNKNOWN. SURVEY TO BE UNDERTAKEN DURING DEMOLITION PROCESS. ASBESTOS MIGHT BE FOUND IN EXISTING BUILDING. SURVEY TO BE SCOPED. RISK OF VEHICLE IMPACT TO STRUCTURES ON SOUTHERN SIDE. STRUCTURES TO BE DESIGNED TO RESIST IMPACT LOAD. 	[2]	PROXIMITY TO EXISTING RETAINED STRUCTURES. SURVEY TO CONFIRM FOUNDATION SETTING OUT. MONITORING STRATEG	D BE UNDERTA	KEN TO ACE
EXISTING ADJACENT BUILDINGS. SURVEY TO BE UNDERTAKEN TO CONFIRM CLEARANCES. EXISTING SERVICES TRENCH IN YARD. NEW FOUNDATIONS TO AVOID TRENCH OR SERVICES TO BE DIVERTED PRIOR TO CONSTRUCTION. LIFTING OF HEAVY ITEMS INCLUDING TRUSS IN CLOSE PROXIMITY TO EXISTING ADJACENT BUILDINGS. INSTALLATION OF NEW STRUCTURE ON EXISTING VCB ROOF, EXISTING STRUCTURE TO BE CHECKED FOR ADDITIONAL LOADING, STRENGTHENING MIGHT BE REQUIRED. INSTALLATION OF NEW STRUCTURE ON EXISTING VCB ROOF, EXISTING STRUCTURE TO BE CHECKED FOR ADDITIONAL LOADING, STRENGTHENING MIGHT BE REQUIRED. INSTALLATION OF NEW STRUCTURE ON EXISTING VCB ROOF, EXISTING STRUCTURE TO BE CHECKED FOR ADDITIONAL LOADING, STRENGTHENING MIGHT BE REQUIRED. INSTALLATION OF NEW STRUCTURE ON EXISTING VCB ROOF, EXISTING STRUCTURE TO BE CHECKED FOR ADDITIONAL LOADING, STRENGTHENING MIGHT BE REQUIRED. INSTALLATION OF NEW STRUCTURE ON EXISTING VCB ROOF, EXISTING STRUCTURE IF O BE CHECKED FOR ADDITIONAL LOADING, STRENGTHENING MIGHT BE REQUIRED. INSTALLED FOR VEHICLE IMPACT LOAD. CONTRACTOR TO ENSURE TEMPORARY STABILITY AND SAFE ACCESS FOR VEHICLES DURING CONSTRUCTION OF LINK STRUCTURE. INSTRUCTURE. INSTRUCTURES INSTRUCTURES TO BE DIVERTED IF NECESSARY. INSTRUCTURES TO AVOID EXISTING PILES. LOCATION AND NATURE OF EXISTING BUILDING FOUNDATIONS UNKNOWN. SURVEY TO BE UNDERTAKEN DURING DEMOLITION PROCESS. INSK OF VEHICLE IMPACT TO STRUCTURES ON SOUTHERN SIDE. STRUCTURES TO BE DESIGNED TO RESIST IMPACT LOAD. INSTRUCTURES ON SOUTHERN SIDE. STRUCTURES TO BE DESIGNED TO RESIST IMPACT LOAD. INSTRUCTURES ON SOUTHERN SIDE. STRUCTURES TO BE DESIGNED TO RESIST IMPACT LOAD. INSTRUCTURES ON SOUTHERN SIDE. STRUCTURES TO BE	[3]		E PROTECTION	N TO
 SERVICES TO BE DIVERTED PRIOR TO CONSTRUCTION. [6] LIFTING OF HEAVY ITEMS INCLUDING TRUSS IN CLOSE PROXIMITY TO EXISTING ADJACENT BUILDINGS. [7] INSTALLATION OF NEW STRUCTURE ON EXISTING VCB ROOF. EXISTING STRUCTURE TO BE CHECKED FOR ADDITIONAL LOADING, STRENGTHENING MIGHT BE REQUIRED. [8] RISK OF VEHICLE IMPACT TO COLUMNS IN SERVICE YARD SPACE. COLUMNS DESIGNED FOR VEHICLE IMPACT LOAD. CONTRACTOR TO ENSURE TEMPORARY STABILITY AND SAFE ACCESS FOR VEHICLES DURING CONSTRUCTION OF LINK STRUCTURE. [9] CREATION OF BASEMENT BELOW WATER TABLE. DESIGN PROPOSALS TO BE DEVELOPED TO ROBUST WATERPROOFING GRADES AS IT CONTAINS CRITICAL PLANT DEWATERING TO BE CONSIDERED DURING THE TEMPORARY CASE. [10] SECANT WALL INSTALLED BELOW EXISTING PAVEMENT MIGHT CAUSE CLASH WITH EXISTING SERVICES. SURVEY TO BE CARRIED OUT AND SERVICES TO BE DIVERTED IF NECESSARY. [11] SETTLEMENT PILES TO AVOID EXISTING PILES. LOCATION AND NATURE OF EXISTING BUILDING FOUNDATIONS UNKNOWN. SURVEY TO BE UNDERTAKEN DURING DEMOLITION PROCESS. [12] ASBESTOS MIGHT BE FOUND IN EXISTING BUILDING. SURVEY TO BE SCOPED. [13] RISK OF VEHICLE IMPACT TO STRUCTURES ON SOUTHERN SIDE. STRUCTURES TO BE DESIGNED TO RESIST IMPACT LOAD. 	[4]	EXISTING ADJACENT BUILDINGS. SURVEY TO BE UNDERTAKE		
ADJACENT BUILDINGS. [7] INSTALLATION OF NEW STRUCTURE ON EXISTING VCB ROOF. EXISTING STRUCTURE TO BE CHECKED FOR ADDITIONAL LOADING, STRENGTHENING MIGHT BE REQUIRED. [8] RISK OF VEHICLE IMPACT TO COLUMNS IN SERVICE YARD SPACE. COLUMNS DESIGNED FOR VEHICLE IMPACT LOAD. CONTRACTOR TO ENSURE TEMPORARY STABILITY AND SAFE ACCESS FOR VEHICLES DURING CONSTRUCTION OF LINK STRUCTURE. [9] CREATION OF BASEMENT BELOW WATER TABLE. DESIGN PROPOSALS TO BE DEVELOPED TO ROBUST WATERPROOFING GRADES AS IT CONTAINS CRITICAL PLANT DEWATERING TO BE CONSIDERED DURING THE TEMPORARY CASE. [10] SECANT WALL INSTALLED BELOW EXISTING PAVEMENT MIGHT CAUSE CLASH WITH EXISTING SERVICES. SURVEY TO BE CARRIED OUT AND SERVICES TO BE DIVERTED IF NECESSARY. [11] SETTLEMENT PILES TO AVOID EXISTING PILES. LOCATION AND NATURE OF EXISTING BUILDING FOUNDATIONS UNKNOWN. SURVEY TO BE UNDERTAKEN DURING DEMOLITION PROCESS. [12] ASBESTOS MIGHT BE FOUND IN EXISTING BUILDING. SURVEY TO BE SCOPED. [13] RISK OF VEHICLE IMPACT TO ASTRUCTURES ON SOUTHERN SIDE. STRUCTURES TO BE DESIGNED TO RESIST IMPACT LOAD.	[5]		O AVOID TRENC	CHOR
 TO BE CHECKED FOR ADDITIONAL LOADING, STRENGTHENING MIGHT BE REQUIRED. [8] RISK OF VEHICLE IMPACT TO COLUMNS IN SERVICE YARD SPACE. COLUMNS DESIGNED FOR VEHICLE IMPACT LOAD. CONTRACTOR TO ENSURE TEMPORARY STABILITY AND SAFE ACCESS FOR VEHICLES DURING CONSTRUCTION OF LINK STRUCTURE. [9] CREATION OF BASEMENT BELOW WATER TABLE. DESIGN PROPOSALS TO BE DEVELOPED TO ROBUST WATERPROOFING GRADES AS IT CONTAINS CRITICAL PLANT DEWATERING TO BE CONSIDERED DURING THE TEMPORARY CASE. [10] SECANT WALL INSTALLED BELOW EXISTING PAVEMENT MIGHT CAUSE CLASH WITH EXISTING SERVICES. SURVEY TO BE CARRIED OUT AND SERVICES TO BE DIVERTED IF NECESSARY. [11] SETTLEMENT PILES TO AVOID EXISTING PILES. LOCATION AND NATURE OF EXISTING BUILDING FOUNDATIONS UNKNOWN. SURVEY TO BE UNDERTAKEN DURING DEMOLITION PROCESS. [12] ASBESTOS MIGHT BE FOUND IN EXISTING BUILDING. SURVEY TO BE SCOPED. [13] RISK OF VEHICLE IMPACT TO STRUCTURES ON SOUTHERN SIDE. STRUCTURES TO BE DESIGNED TO RESIST IMPACT LOAD. 	[6]		MITY TO EXISTI	NG
 DESIGNED FOR VEHICLE IMPACT LOAD. CONTRACTOR TO ENSURE TEMPORARY STABILITY AND SAFE ACCESS FOR VEHICLES DURING CONSTRUCTION OF LINK STRUCTURE. [9] CREATION OF BASEMENT BELOW WATER TABLE. DESIGN PROPOSALS TO BE DEVELOPED TO ROBUST WATERPROOFING GRADES AS IT CONTAINS CRITICAL PLANT DEWATERING TO BE CONSIDERED DURING THE TEMPORARY CASE. [10] SECANT WALL INSTALLED BELOW EXISTING PAVEMENT MIGHT CAUSE CLASH WITH EXISTING SERVICES. SURVEY TO BE CARRIED OUT AND SERVICES TO BE DIVERTED IF NECESSARY. [11] SETTLEMENT PILES TO AVOID EXISTING PILES. LOCATION AND NATURE OF EXISTING BUILDING FOUNDATIONS UNKNOWN. SURVEY TO BE UNDERTAKEN DURING DEMOLITION PROCESS. [12] ASBESTOS MIGHT BE FOUND IN EXISTING BUILDING. SURVEY TO BE SCOPED. [13] RISK OF VEHICLE IMPACT TO STRUCTURES ON SOUTHERN SIDE. STRUCTURES TO BE DESIGNED TO RESIST IMPACT LOAD. 	[7]			
DEVELOPED TO ROBUST WATERPROOFING GRADES AS IT CONTAINS CRITICAL PLANT DEWATERING TO BE CONSIDERED DURING THE TEMPORARY CASE. [10] SECANT WALL INSTALLED BELOW EXISTING PAVEMENT MIGHT CAUSE CLASH WITH EXISTING SERVICES. SURVEY TO BE CARRIED OUT AND SERVICES TO BE DIVERTED IF NECESSARY. [11] SETTLEMENT PILES TO AVOID EXISTING PILES. LOCATION AND NATURE OF EXISTING BUILDING FOUNDATIONS UNKNOWN. SURVEY TO BE UNDERTAKEN DURING DEMOLITION PROCESS. [12] ASBESTOS MIGHT BE FOUND IN EXISTING BUILDING. SURVEY TO BE SCOPED. [13] RISK OF VEHICLE IMPACT TO STRUCTURES ON SOUTHERN SIDE. STRUCTURES TO BE DESIGNED TO RESIST IMPACT LOAD.	[8]	DESIGNED FOR VEHICLE IMPACT LOAD. CONTRACTOR TO ENS STABILITY AND SAFE ACCESS FOR VEHICLES DURING CONST	SURE TEMPOR/	ARY
EXISTING SERVICES. SURVEY TO BE CARRIED OUT AND SERVICES TO BE DIVERTED IF NECESSARY. [11] SETTLEMENT PILES TO AVOID EXISTING PILES. LOCATION AND NATURE OF EXISTING BUILDING FOUNDATIONS UNKNOWN. SURVEY TO BE UNDERTAKEN DURING DEMOLITION PROCESS. [12] ASBESTOS MIGHT BE FOUND IN EXISTING BUILDING. SURVEY TO BE SCOPED. [13] RISK OF VEHICLE IMPACT TO STRUCTURES ON SOUTHERN SIDE. STRUCTURES TO BE DESIGNED TO RESIST IMPACT LOAD. LEAD LEAD TO DESTREME BDPR. POLECT THE BORN IN A STRUCTURES ON SOUTHERN SIDE. STRUCTURES TO BE POLECT THE BDPR.	[9]	DEVELOPED TO ROBUST WATERPROOFING GRADES AS IT CO	NTAINS CRITIC	
BUILDING FOUNDATIONS UNKNOWN. SURVEY TO BE UNDERTAKEN DURING DEMOLITION PROCESS. [12] ASBESTOS MIGHT BE FOUND IN EXISTING BUILDING. SURVEY TO BE SCOPED. [13] RISK OF VEHICLE IMPACT TO STRUCTURES ON SOUTHERN SIDE. STRUCTURES TO BE DESIGNED TO RESIST IMPACT LOAD. LEAD POLECTIME GOSH Children's Cancer Centre P2007. DEVICE POLECTIME	[10]	EXISTING SERVICES. SURVEY TO BE CARRIED OUT AND SERV		
[13] RISK OF VEHICLE IMPACT TO STRUCTURES ON SOUTHERN SIDE. STRUCTURES TO BE DESIGNED TO RESIST IMPACT LOAD. LEAD POLECT THE GOSH Children's Cancer Centre POLECT THE POLECT THE POLECT THE DESIGNED TO RESIST IMPACT INTE POLECT THE BDPR POLECT THE POLECT THE POLECT THE	[11]	BUILDING FOUNDATIONS UNKNOWN. SURVEY TO BE UNDERT		XISTING
DESIGNED TO RESIST IMPACT LOAD.	[12]	ASBESTOS MIGHT BE FOUND IN EXISTING BUILDING. SURVEY	TO BE SCOPED).
BDP. GOSH Children's Cancer Centre P2007	[13]		DE. STRUCTUR	ES TO BE
BDP. GOSH Children's Cancer Centre P2007		00.001 100		
DRAWING TILE		GOSH Children's Cancer C	Centre	
	В	SDP.		PROJECT NUMBER
	40 0			





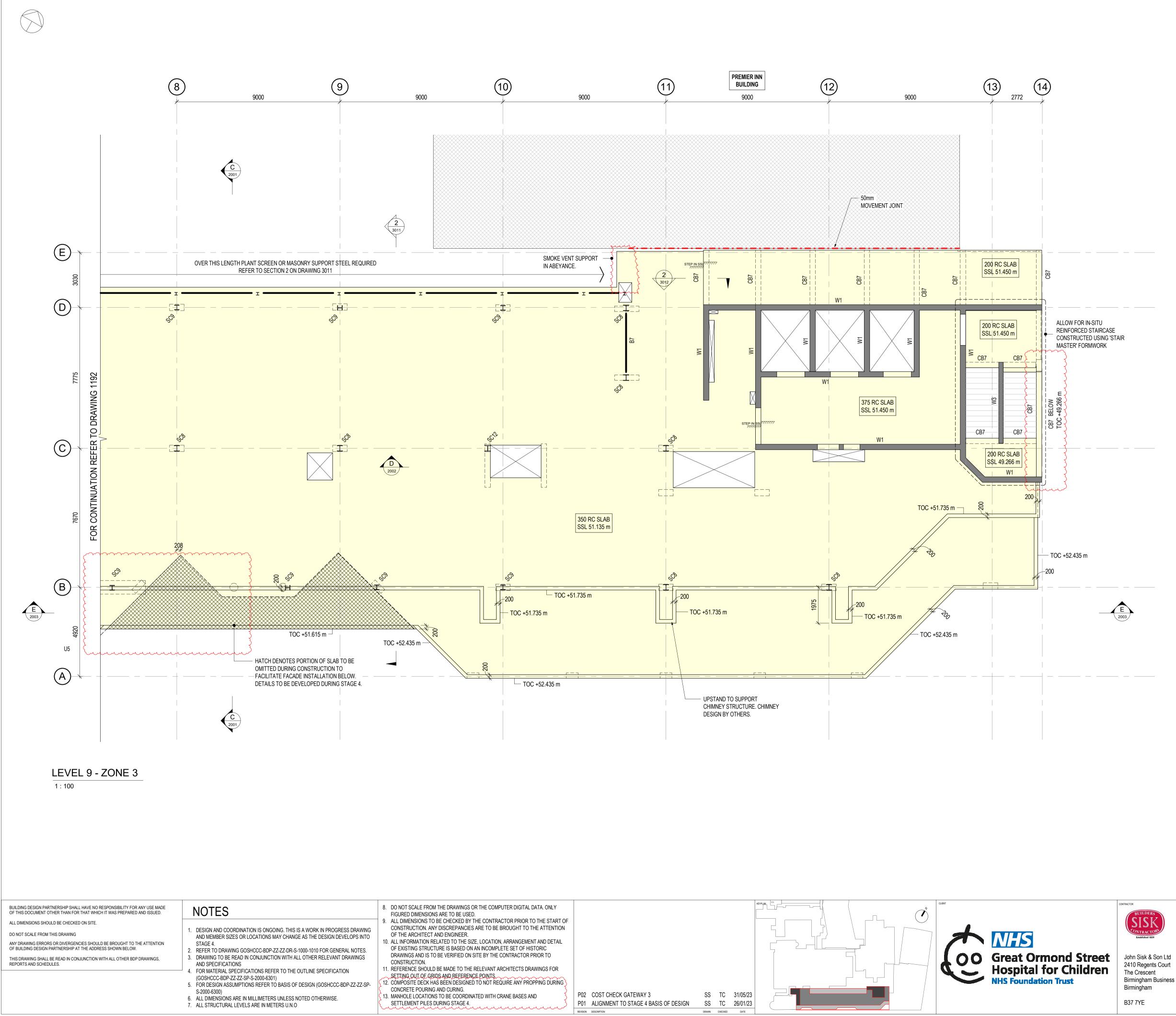
John Sisk & Son Ltd 2410 Regents Court The Crescent Birmingham Business Park Birmingham

B37 7YE

16 Brewhouse Yard Clerkenwell London EC1V 4LJ United Kingdom

T +44 [0]20 7812 8000 www.bdp.com

GOSHCCC-BDP-ZZ-09-DR-S-2300-1192
 S3 - Suitable For Review & Comment
 1 : 100
 @ A1
 31/05/23
 CHECKED BY ADDDOVED BY TC TC P02 SS Preliminary



	LEGEND
	CDM RISK, REFER TO SCHEDULE
	EXISTING STRUCTURE IN SECTION
	EXISTING STRUCTURE SURFACE
	IN SITU CONCRETE IN SECTION
	IN SITU CONCRETE SURFACE
	STEEL SURFACE
/////	RECESS IN SLAB
	50mm MOVEMENT JOINT
	EXISTING STEEL BEAM
	- NEW STEEL BEAM
	- MOMENT CONNECTION
	THERMAL BREAK CONNECTOR
	(ANCON ISOTEC OR SIMILAR)
_	160 COMPOSITE SLAB WITH
	1.20mm GAUGE COMFLOR 80 DECK
	200 COMPOSITE SLAB WITH
	1.20mm GAUGE COMFLOR 80 DECK
~+ ~	150 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK
	1.2011111 GAUGE COMIFLOR 80 DECK
	BEAM SCHEDULE
MARK	ТҮРЕ
B1	UC203x203x46
B2	UKC305x305x198
B4	120x120x12 EA
B5	UKC254x254x89
B6	SHS 80x80x10
B7	100x100x10 EA
B10	UKC152x152x23
B11	UKC305x305x240
B12 UKC203x203x100	
B13	UC305x305x118
B14	SHS 150x150x10
B15	UKC203x203x71

UC356x406x393

UKC356x406x551

UKC305x305x283

UB914x305x289

UKC203x203x60

SHS80x80x5

CHS88.9x6.3

UC305x305x97

RHS450x250x16

UB610x305x149

UB533x210x101

UB178x102x19

SHS100x100x10

UB254x146x37

1300x1300 DEEP CAPPING BEAM

750x750 DEEP RC DOWNSTAND

950x1325 DEEP COMPOSITE BEAM

300x600 DEEP RC DOWNSTAND

300x400 DEEP RC DOWNSTAND

300x450 DEEP RC DOWNSTAND

375x375 DEEP RC BEAM

450x750 DEEP RC BEAM

CB6 700x550 DEEP RC DOWNSTAND

COLU	MN SCHEDULE
MARK	TYPE
C1	650 x 650
C3	750 x 750
C4	525 x 525
C5	700 x 700
C6	300 x 750
C8	350 x 800
C12	750 DIA.
C15	300 x 650
C16	750x325
C17	450 DIA
C18	250x400
C19	500 DIA
C20	400 x 950
C21	800 DIA.
C22	910 x 750
C23	1610 x 750
C24	300 x 300
SC1	UKC152x152x23
SC3	UC152x152x37
SC4	UKC203x203x60
SC5	SHS 100x100x10
SC6	UC305x305x118
SC7	SHS 200x200x10
SC8	UKC305x305x158
SC9	UKC254x254x132
SC11	UC305x305x198
SC12	UKC305x305x283
SC13	SHS100x100x8
SC14	UC305x305x240
RC W	ALL SCHEDULE
MARK	TYPE
W1	300 RC WALL
W2	250 RC LINER WALL
W3	250 RC WALL
W4	150 RC WALL
W5	350 RC WALL
W6	225 RC WALL

	CDM RISK SCHEDULE			
REF	DESCRIPTION			
[1]	INSTALLATION OF NEW STAIR AND LIFT CORES IN CLOSE PROXIMITY TO EXISTING RETAINED STRUCTURES. SURVEY TO BE UNDERTAKEN TO CONFIRM CLEARANCES.			
[2]	CREATION OF NEW BASEMENT AND INSTALLATION OF SECANT PILED WALL IN CLOSE PROXIMITY TO EXISTING RETAINED STRUCTURES. SURVEY TO BE UNDERTAKEN TO CONFIRM FOUNDATION SETTING OUT. MONITORING STRATEGY TO BE IN PLACE DURING CONSTRUCTION TO AVOID EXCESSIVE STRAIN IN EXISTING BUILDING.			
[3]	DEEP EXCAVATION FOR BASEMENT REQUIRES SUITABLE EDGE PROTECTION TO PREVENT FALLS			
[4]	CONSTRUCTION OF NEW FOUNDATIONS IN CLOSE PROXIMITY TO SUBSTRUCTURE OF EXISTING ADJACENT BUILDINGS. SURVEY TO BE UNDERTAKEN TO CONFIRM CLEARANCES.			
[5]	EXISTING SERVICES TRENCH IN YARD. NEW FOUNDATIONS TO AVOID TRENCH OR SERVICES TO BE DIVERTED PRIOR TO CONSTRUCTION.			
[6]	LIFTING OF HEAVY ITEMS INCLUDING TRUSS IN CLOSE PROXIMITY TO EXISTING ADJACENT BUILDINGS.			
[7]	INSTALLATION OF NEW STRUCTURE ON EXISTING VCB ROOF. EXISTING STRUCTURE TO BE CHECKED FOR ADDITIONAL LOADING, STRENGTHENING MIGHT BE REQUIRED.			
[8]	RISK OF VEHICLE IMPACT TO COLUMNS IN SERVICE YARD SPACE. COLUMNS DESIGNED FOR VEHICLE IMPACT LOAD. CONTRACTOR TO ENSURE TEMPORARY STABILITY AND SAFE ACCESS FOR VEHICLES DURING CONSTRUCTION OF LINK STRUCTURE.			
[9]	CREATION OF BASEMENT BELOW WATER TABLE. DESIGN PROPOSALS TO BE DEVELOPED TO ROBUST WATERPROOFING GRADES AS IT CONTAINS CRITICAL PLANT. DEWATERING TO BE CONSIDERED DURING THE TEMPORARY CASE.			
[10]	SECANT WALL INSTALLED BELOW EXISTING PAVEMENT MIGHT CAUSE CLASH WITH EXISTING SERVICES. SURVEY TO BE CARRIED OUT AND SERVICES TO BE DIVERTED IF NECESSARY.			
[11]	SETTLEMENT PILES TO AVOID EXISTING PILES. LOCATION AND NATURE OF EXISTING BUILDING FOUNDATIONS UNKNOWN. SURVEY TO BE UNDERTAKEN DURING DEMOLITION PROCESS.			
[12]	ASBESTOS MIGHT BE FOUND IN EXISTING BUILDING. SURVEY TO BE SCOPED.			
[13]	RISK OF VEHICLE IMPACT TO STRUCTURES ON SOUTHERN SIDE. STRUCTURES TO BE DESIGNED TO RESIST IMPACT LOAD.			
	DPR. PROJECT TIME GOSH Children's Cancer Centre P200759			

B17

B18

B20

B21

B22

B23

B24

B27

B29

B30

B31

B32

B33

B34

CB1

CB4

CB5

CB7

CB8

CB9

CB10

CB11

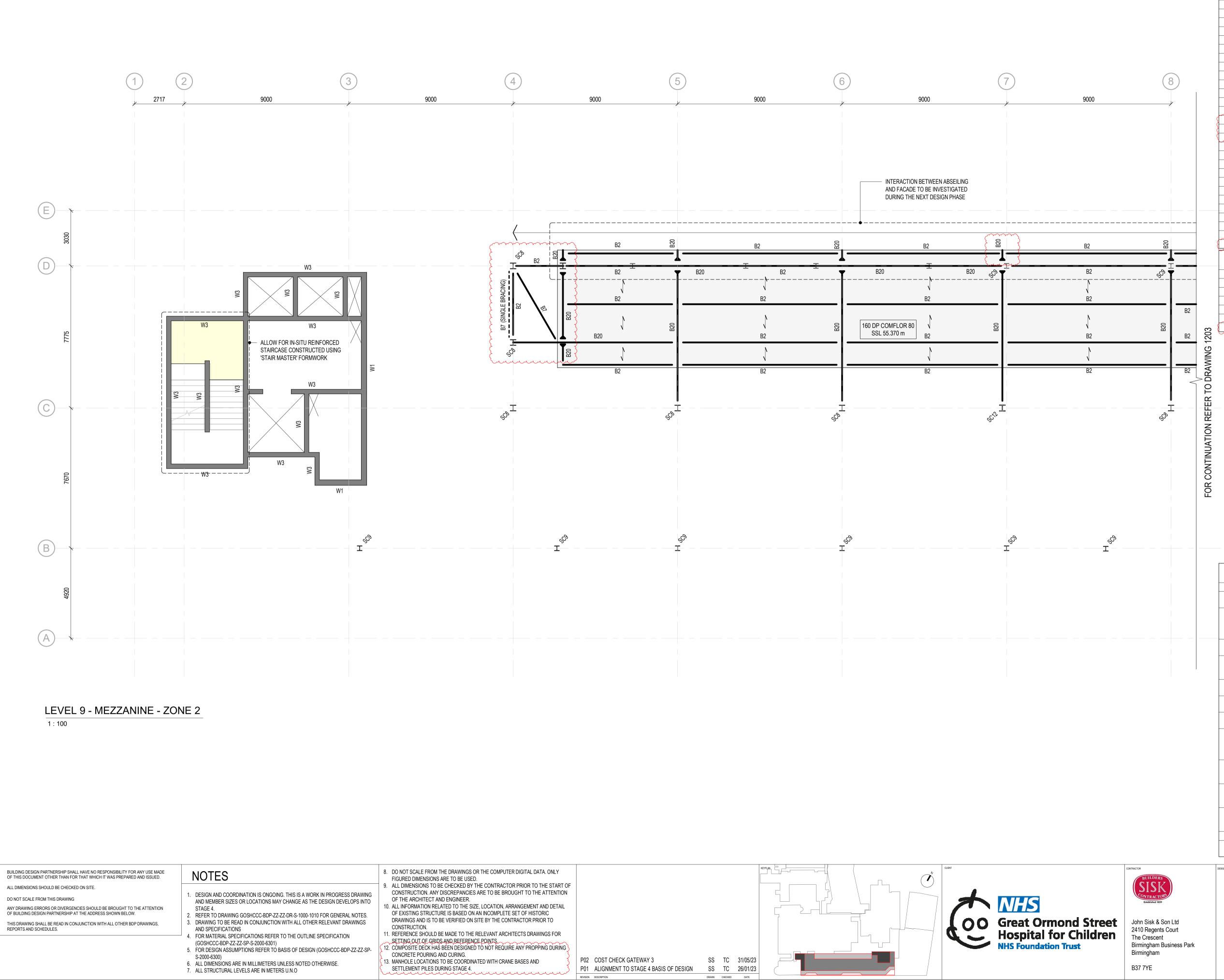
Birmingham Business Park

16 Brewhouse Yard Clerkenwell London EC1V 4LJ United Kingdom

T +44 [0]20 7812 8000 www.bdp.com

LEVEL 09 PLAN - ZONE 3

DRAWING NO.								
GOSH	GOSHCCC-BDP-ZZ-09-DR-S-2300-1193							
STATUS/SUITABILITY			SCALE	DRAWING SIZE	REVISION DATE			
S3 - Suitable For Review & Comment			1:100	@ A1	31/0	5/23		
DRAW BY	CHECKED BY	APPROVED BY	PURPOSE OF ISSUE			REVISION		
SS	TC	TC	Preliminary			P02		



	0 2000 0000)
б.	ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWIS
-	

I SCHEDULE		LEGEND
TYPE		
650 x 650		CDM RISK, REFER TO SCHEDULE
750 x 750		
525 x 525 700 x 700		EXISTING STRUCTURE IN SECTION
300 x 750		EXISTING STRUCTURE SURFACE
350 x 800		IN SITU CONCRETE IN SECTION
750 DIA.		
300 x 650		IN SITU CONCRETE SURFACE
750x325 450 DIA		STEEL SURFACE
250x400	7////	RECESS IN SLAB
500 DIA		50mm MOVEMENT JOINT
400 x 950		
800 DIA.		EXISTING STEEL BEAM
910 x 750 1610 x 750		NEW STEEL BEAM
300 x,300		 MOMENT CONNECTION
UKC152x152x23		THERMAL BREAK CONNECTOR
UC152x152x37	i i	(ANCON ISOTEC OR SIMILAR)
UKC203x203x60		160 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK
SHS 100x100x10		200 COMPOSITE SLAB WITH
UC305x305x118	~ ~	1.20mm GAUGE COMFLOR 80 DECK
SHS 200x200x10		150 COMPOSITE SLAB WITH
UKC305x305x158		1.20mm GAUGE COMFLOR 80 DECK
UKC254x254x132 UC305x305x198		
UKC305x305x283		BEAM SCHEDULE
SHS100x100x8	MARK	ТҮРЕ
UC305x305x240	B1	UC203x203x46
	B2	UKC305x305x198
SCHEDULE	B4	120x120x12 EA
TYPE	B5	UKC254x254x89
300 RC WALL	B6	SHS 80x80x10
250 RC LINER WALL	B7	100x100x10 EA
250 RC WALL	B10	UKC152x152x23
150 RC WALL	B11	UKC305x305x240
350 RC WALL	B12 B13	UKC203x203x100 UC305x305x118
225 RC WALL	B13	SHS 150x150x10
	B14 B15	UKC203x203x71
	B10 B17	UC356x406x393
	B18	UKC356x406x551
	B20	UKC305x305x283
	B21	UB914x305x289
	B22	UKC203x203x60
	B23	SHS80x80x5
	B24	CHS88.9x6.3
	B27 B29	UC305x305x97 RHS450x250x16
	B29	UB610x305x149
	B31	UB533x210x101
	B32	UB178x102x19
	B33	SHS100x100x10
	B34	UB254x146x37
	CB1	1300x1300 DEEP CAPPING BEAM
	CB4	750x750 DEEP RC DOWNSTAND
	CB5	950x1325 DEEP COMPOSITE BEAM
	CB6	700x550 DEEP RC DOWNSTAND
	CB7	300x600 DEEP RC DOWNSTAND
	CB8	300x400 DEEP RC DOWNSTAND
(CB9 CB10	300x450 DEEP RC DOWNSTAND 375x375 DEEP RC BEAM
	0 0010	

TYPE			
650 x 650			
750 x 750			
525 x 525			
700 x 700			
300 x 750			
350 x 800			
750 DIA.			
300 x 650			
750x325			
450 DIA			
250x400			
500 DIA			
400 x 950			
800 DIA.			
910 x 750			
1610 x 750			
,300 x,300			
UKC152x152x23			
UC152x152x37			
UKC203x203x60			
SHS 100x100x10			
UC305x305x118			
SHS 200x200x10			
UKC305x305x158			
UKC254x254x132			
UC305x305x198			
UKC305x305x283			
SHS100x100x8			
UC305x305x240			
RC WALL SCHEDULE			
TYPE			
300 RC WALL			
250 RC LINER WALL			
250 RC WALL			
150 RC WALL			
350 RC WALL			
225 RC WALL			

CDM RISK SCHEDULE			
REF DESCRIPTION			
[1]	INSTALLATION OF NEW STAIR AND LIFT CORES IN CLOSE PROXIMITY TO EXISTING RETAINED STRUCTURES. SURVEY TO BE UNDERTAKEN TO CONFIRM CLEARANCES.		
[2]	CREATION OF NEW BASEMENT AND INSTALLATION OF SECANT PILED WALL IN CLOSE PROXIMITY TO EXISTING RETAINED STRUCTURES. SURVEY TO BE UNDERTAKEN TO CONFIRM FOUNDATION SETTING OUT. MONITORING STRATEGY TO BE IN PLACE DURING CONSTRUCTION TO AVOID EXCESSIVE STRAIN IN EXISTING BUILDING.		
[3]	DEEP EXCAVATION FOR BASEMENT REQUIRES SUITABLE EDGE PROTECTION TO PREVENT FALLS		
[4]	CONSTRUCTION OF NEW FOUNDATIONS IN CLOSE PROXIMITY TO SUBSTRUCTURE OF EXISTING ADJACENT BUILDINGS. SURVEY TO BE UNDERTAKEN TO CONFIRM CLEARANCES.		
[5]	EXISTING SERVICES TRENCH IN YARD. NEW FOUNDATIONS TO AVOID TRENCH OR SERVICES TO BE DIVERTED PRIOR TO CONSTRUCTION.		
[6]	LIFTING OF HEAVY ITEMS INCLUDING TRUSS IN CLOSE PROXIMITY TO EXISTING ADJACENT BUILDINGS.		
[7]	INSTALLATION OF NEW STRUCTURE ON EXISTING VCB ROOF. EXISTING STRUCTURE TO BE CHECKED FOR ADDITIONAL LOADING, STRENGTHENING MIGHT BE REQUIRED.		
[8] RISK OF VEHICLE IMPACT TO COLUMNS IN SERVICE YARD SPACE. COLUMNS DESIGNED FOR VEHICLE IMPACT LOAD. CONTRACTOR TO ENSURE TEMPORARY STABILITY AND SAFE ACCESS FOR VEHICLES DURING CONSTRUCTION OF LINK STRUCTURE.			
[9]	CREATION OF BASEMENT BELOW WATER TABLE. DESIGN PROPOSALS TO BE DEVELOPED TO ROBUST WATERPROOFING GRADES AS IT CONTAINS CRITICAL PLANT. DEWATERING TO BE CONSIDERED DURING THE TEMPORARY CASE.		
[10]			
[11]	SETTLEMENT PILES TO AVOID EXISTING PILES. LOCATION AND NATURE OF EXISTING BUILDING FOUNDATIONS UNKNOWN. SURVEY TO BE UNDERTAKEN DURING DEMOLITION PROCESS.		
[12]	ASBESTOS MIGHT BE FOUND IN EXISTING BUILDING. SURVEY TO BE SCOPED.		
[13]			
GN LEAD	GOSH Children's Cancer Centre		
D	P200759		
16 Bre	whouse Yard		

CB10

CB11

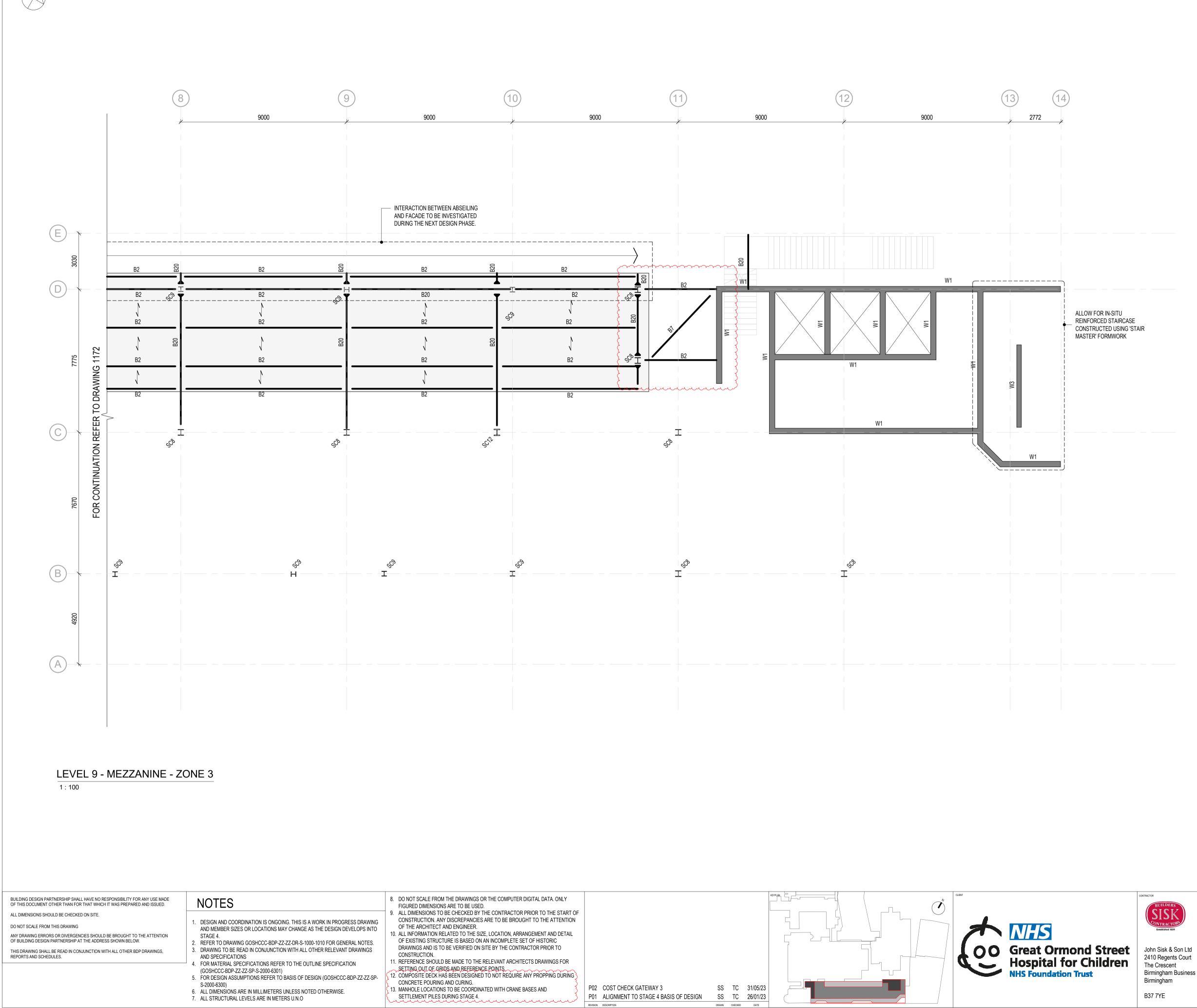
Clerkenwell London EC1V 4LJ United Kingdom T +44 [0]20 7812 8000

www.bdp.com

GOSHCCC-BDP-ZZ-09-DR-S-2300-1202 S3 - Suitable For Review & Comment 1 : 100 @ A1 31/05/23 CHECKED BY ADDDOVED BY TC TC P02 SS Preliminary

375x375 DEEP RC BEAM

450x750 DEEP RC BEAM



ì	13. MANHOLE LOCATIONS TO BE COORDINATED WITH CRAINE BASES
(SETTLEMENT PILES DURING STAGE 4.
1	SETTEMENT TIES DOMING STAGE 4.

	LEGEND			
	CDM RISK, REFER TO SCHEDULE			
	EXISTING STRUCTURE IN SECTION			
	EXISTING STRUCTURE SURFACE			
	IN SITU CONCRETE IN SECTION			
	IN SITU CONCRETE SURFACE			
	STEEL SURFACE			
	RECESS IN SLAB			
	50mm MOVEMENT JOINT			
	EXISTING STEEL BEAM			
	- NEW STEEL BEAM			
	 MOMENT CONNECTION THERMAL BREAK CONNECTOR (ANCON ISOTEC OR SIMILAR) 160 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK 			
<i>""</i> ~#~	200 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK 150 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK			
	BEAM SCHEDULE			
MARK	TYPE			
B1	ÚC203x203x46			
B2	UKC305x305x198			

120x120x12 EA UKC254x254x89

SHS 80x80x10

100x100x10 EA

UKC152x152x23

UKC305x305x240

UKC203x203x100

UC305x305x118

SHS 150x150x10

UKC203x203x71

UC356x406x393

UKC356x406x551

UKC305x305x283

UB914x305x289

UKC203x203x60

SHS80x80x5

CHS88.9x6.3

UC305x305x97

COLL	JMN SCHEDULE
MARK	TYPE
C1	650 x 650
C3	750 x 750
C4	525 x 525
C5	700 x 700
C6	300 x 750
C8	350 x 800
C12	750 DIA.
C15	300 x 650
C16	750x325
C17	450 DIA
C18	250x400
C19	500 DIA
C20	400 x 950
C21	800 DIA.
C22	910 x 750
C23	1610 x 750
C24	300 x 300
SC1	UKC152x152x23
SC3	UC152x152x37
SC4	UKC203x203x60
SC5	SHS 100x100x10
SC6	UC305x305x118
SC7	SHS 200x200x10
SC8	UKC305x305x158
SC9	UKC254x254x132
SC11	UC305x305x198
SC12	UKC305x305x283
SC13	SHS100x100x8
SC14	UC305x305x240
RC W	ALL SCHEDULE
MARK	TYPE
W1	300 RC WALL
W2	250 RC LINER WALL
W3	250 RC WALL
W4	150 RC WALL
W5	350 RC WALL
W6	225 RC WALL

	B29	RHS450x250x16
	B30	UB610x305x149
	B31	UB533x210x101
	B32	UB178x102x19
	B33	SHS100x100x10
	B34	UB254x146x37
	CB1	1300x1300 DEEP CAPPING BEAM
	CB4	750x750 DEEP RC DOWNSTAND
	CB5	950x1325 DEEP COMPOSITE BEAM
	CB6	700x550 DEEP RC DOWNSTAND
	CB7	300x600 DEEP RC DOWNSTAND
	CB8	300x400 DEEP RC DOWNSTAND
	CB9	300x450 DEEP RC DOWNSTAND
	CB10	375x375 DEEP RC BEAM
	CB11	450x750 DEEP RC BEAM
	un	
CDM RISK S		
	SCRIPTIO	
INSTALLATION OF NEW STAIR AND LIFT RETAINED STRUCTURES. SURVEY TO B		
CREATION OF NEW BASEMENT AND INS	TALLATIO	N OF SECANT PILED WALL IN CLOSE
PROXIMITY TO EXISTING RETAINED STR		
CONFIRM FOUNDATION SETTING OUT. N		
DURING CONSTRUCTION TO AVOID EXC		
DEEP EXCAVATION FOR BASEMENT REC PREVENT FALLS	QUIRES SL	JITABLE EDGE PROTECTION TO
CONSTRUCTION OF NEW FOUNDATIONS EXISTING ADJACENT BUILDINGS. SURVE CLEARANCES.		
EXISTING SERVICES TRENCH IN YARD. I SERVICES TO BE DIVERTED PRIOR TO C		
LIFTING OF HEAVY ITEMS INCLUDING TF ADJACENT BUILDINGS.	RUSS IN CL	OSE PROXIMITY TO EXISTING
INSTALLATION OF NEW STRUCTURE ON TO BE CHECKED FOR ADDITIONAL LOAD		
RISK OF VEHICLE IMPACT TO COLUMNS DESIGNED FOR VEHICLE IMPACT LOAD. STABILITY AND SAFE ACCESS FOR VEHI STRUCTURE.	CONTRAC	TOR TO ENSURE TEMPORARY
CREATION OF BASEMENT BELOW WATE DEVELOPED TO ROBUST WATERPROOF DEWATERING TO BE CONSIDERED DUR	ING GRAD	ES AS IT CONTAINS CRITICAL PLANT.
SECANT WALL INSTALLED BELOW EXIST EXISTING SERVICES. SURVEY TO BE CA NECESSARY.		
SETTLEMENT PILES TO AVOID EXISTING BUILDING FOUNDATIONS UNKNOWN. SU DEMOLITION PROCESS.	JRVEY TO	BE UNDERTAKEN DURING
ASBESTOS MIGHT BE FOUND IN EXISTIN		IG. SURVEY TO BE SCOPED.
RISK OF VEHICLE IMPACT TO STRUCTUR DESIGNED TO RESIST IMPACT LOAD.	RES ON SO	OUTHERN SIDE. STRUCTURES TO BE

B4

B5

B6

B7

B10

B11

B12

B13

B14

B15

B17

B18

B20

B21

B22

B23

B24

B27

Birmingham Business Park

16 Brewhouse Yard Clerkenwell London EC1V 4LJ United Kingdom

REF [1]

[2]

[3]

[4]

[5]

[6]

[7]

[8]

[9]

[10]

[11]

[12] [13]

T +44 [0]20 7812 8000 www.bdp.com

BDP.

LEVEL 09 MEZZANINE - ZONE 3 GOSHCCC-BDP-ZZ-09-DR-S-2300-1203 S3 - Suitable For Review & Comment 1 : 100 @ A1 31/05/23 CHECKED BY ADDDOVED BY

TC

GOSH Children's Cancer Centre

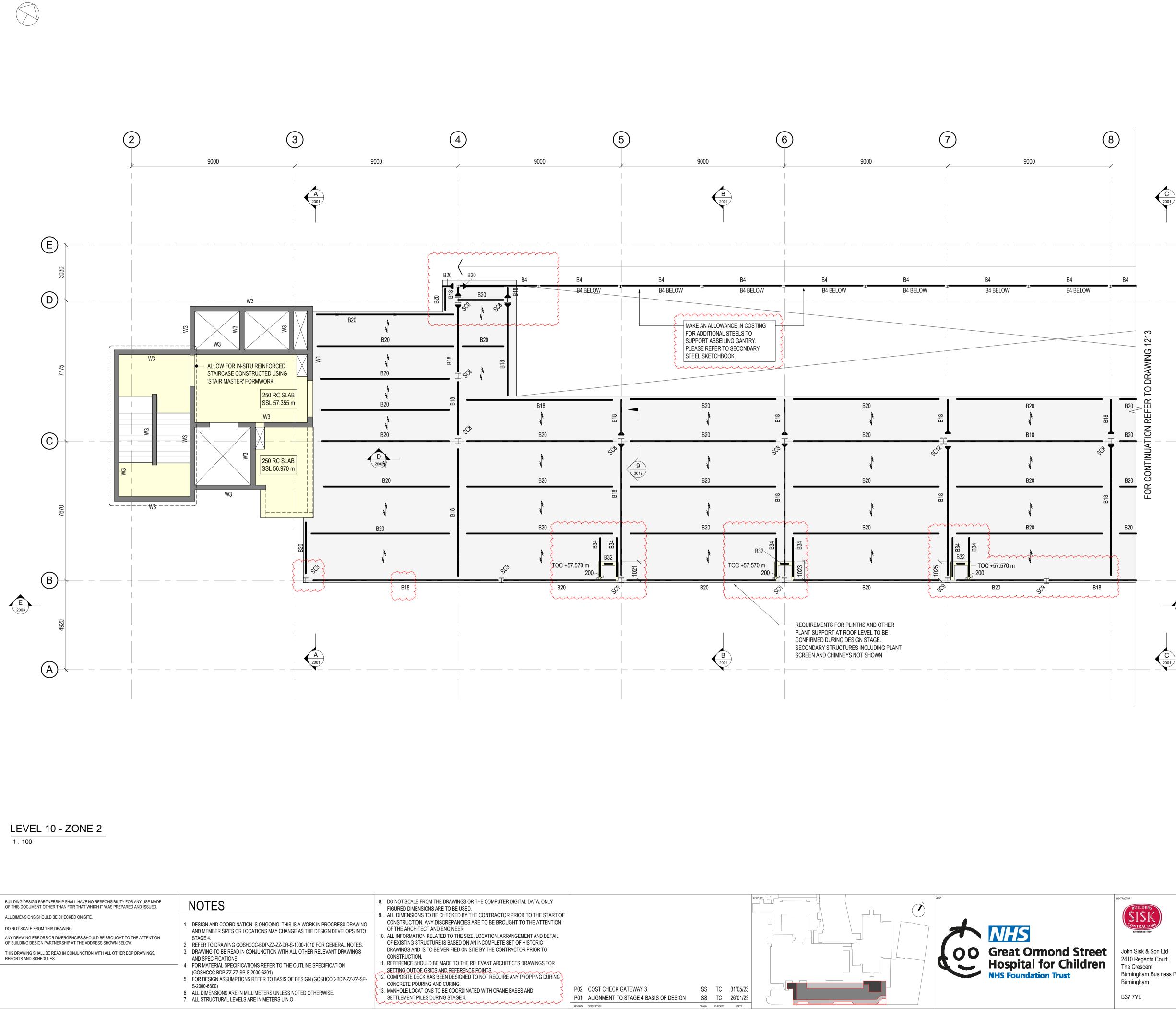
TC

SS

Preliminary

PROJECT NUMBER

P2007598



COLU	MN SCHEDULE			
MARK	TYPE		•	
C1	650 x 650			
C3	750 x 750			
C4	525 x 525			\square
C5	700 x 700			
C6	300 x 750			
C8	350 x 800			
C12	750 DIA.]		
C15	300 x 650			
C16	750x325			
C17	450 DIA]		
C18	250x400		7////	\square
C19	500 DIA			
C20	400 x 950			
C21	800 DIA.			
C22	910 x 750	3		_
C23	1610 x 750	R		
C24	300 x 300	ß		_
SC1	UKC152x152x23			÷
SC3	UC152x152x37			I
SC4	UKC203x203x60			
SC5	SHS 100x100x10			
SC6	UC305x305x118		~ ~	
SC7	SHS 200x200x10			
SC8	UKC305x305x158		~+~	
SC9	UKC254x254x132			
SC11	UC305x305x198			1
SC12	UKC305x305x283			ļ
SC13	SHS100x100x8		MARK	
SC14	UC305x305x240	} {	B1	
		ĺ	B2	
RC WA	ALL SCHEDULE		B4	
MARK	TYPE	{	B5	
W1	300 RC WALL	1	B6	
W2	250 RC LINER WALL	1	B7	
		-	B10	

150 RC WALL

350 RC WALL

225 RC WALL

W3

W4

W5

W6

	LEGEND			
<u>^</u>	CDM RISK, REFER TO SCHEDULE			
	EXISTING STRUCTURE IN SECTION			
	EXISTING STRUCTURE SURFACE			
	IN SITU CONCRETE IN SECTION			
	IN SITU CONCRETE SURFACE			
	STEEL SURFACE			
	RECESS IN SLAB			
	50mm MOVEMENT JOINT			
	EXISTING STEEL BEAM			
	NEW STEEL BEAM			
	MOMENT CONNECTION			
	THERMAL BREAK CONNECTOR (ANCON ISOTEC OR SIMILAR)			
	160 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK			
""	200 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK			
` #~	150 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK			

BEAM SCHEDULE

MARK	TYPE
B1	UC203x203x46
B2	UKC305x305x198
B4	120x120x12 EA
B5	UKC254x254x89
B6	SHS 80x80x10
B7	100x100x10 EA
B10	UKC152x152x23
B11	UKC305x305x240
B12	UKC203x203x100
B13	UC305x305x118
B14	SHS 150x150x10
B15	UKC203x203x71
B17	UC356x406x393
B18	UKC356x406x551
B20	UKC305x305x283
B21	UB914x305x289
B22	UKC203x203x60
B23	SHS80x80x5
B24	CHS88.9x6.3
B27	UC305x305x97
B29	RHS450x250x16
B30	UB610x305x149
B31	UB533x210x101
B32	UB178x102x19
B33	SHS100x100x10
B34	UB254x146x37
CB1	1300x1300 DEEP CAPPING BEAM
CB4	750x750 DEEP RC DOWNSTAND
CB5	950x1325 DEEP COMPOSITE BEAM
CB6	700x550 DEEP RC DOWNSTAND
CB7	300x600 DEEP RC DOWNSTAND
CB8	300x400 DEEP RC DOWNSTAND
CB9	300x450 DEEP RC DOWNSTAND
CB10	375x375 DEEP RC BEAM
CB11	450x750 DEEP RC BEAM

E 2003
C 2001

	CDM RISK SCHEDULE
REF	DESCRIPTION
[1]	INSTALLATION OF NEW STAIR AND LIFT CORES IN CLOSE PROXIMITY TO EXISTING RETAINED STRUCTURES. SURVEY TO BE UNDERTAKEN TO CONFIRM CLEARANCES.
[2]	CREATION OF NEW BASEMENT AND INSTALLATION OF SECANT PILED WALL IN CLOSE PROXIMITY TO EXISTING RETAINED STRUCTURES. SURVEY TO BE UNDERTAKEN TO CONFIRM FOUNDATION SETTING OUT. MONITORING STRATEGY TO BE IN PLACE DURING CONSTRUCTION TO AVOID EXCESSIVE STRAIN IN EXISTING BUILDING.
[3]	DEEP EXCAVATION FOR BASEMENT REQUIRES SUITABLE EDGE PROTECTION TO PREVENT FALLS
[4]	CONSTRUCTION OF NEW FOUNDATIONS IN CLOSE PROXIMITY TO SUBSTRUCTURE OF EXISTING ADJACENT BUILDINGS. SURVEY TO BE UNDERTAKEN TO CONFIRM CLEARANCES.
[5]	EXISTING SERVICES TRENCH IN YARD. NEW FOUNDATIONS TO AVOID TRENCH OR SERVICES TO BE DIVERTED PRIOR TO CONSTRUCTION.
[6]	LIFTING OF HEAVY ITEMS INCLUDING TRUSS IN CLOSE PROXIMITY TO EXISTING ADJACENT BUILDINGS.
[7]	INSTALLATION OF NEW STRUCTURE ON EXISTING VCB ROOF. EXISTING STRUCTURE TO BE CHECKED FOR ADDITIONAL LOADING, STRENGTHENING MIGHT BE REQUIRED.
[8]	RISK OF VEHICLE IMPACT TO COLUMNS IN SERVICE YARD SPACE. COLUMNS DESIGNED FOR VEHICLE IMPACT LOAD. CONTRACTOR TO ENSURE TEMPORARY STABILITY AND SAFE ACCESS FOR VEHICLES DURING CONSTRUCTION OF LINK STRUCTURE.
[9]	CREATION OF BASEMENT BELOW WATER TABLE. DESIGN PROPOSALS TO BE DEVELOPED TO ROBUST WATERPROOFING GRADES AS IT CONTAINS CRITICAL PLANT. DEWATERING TO BE CONSIDERED DURING THE TEMPORARY CASE.
[10]	SECANT WALL INSTALLED BELOW EXISTING PAVEMENT MIGHT CAUSE CLASH WITH EXISTING SERVICES. SURVEY TO BE CARRIED OUT AND SERVICES TO BE DIVERTED IF NECESSARY.
[11]	SETTLEMENT PILES TO AVOID EXISTING PILES. LOCATION AND NATURE OF EXISTING BUILDING FOUNDATIONS UNKNOWN. SURVEY TO BE UNDERTAKEN DURING DEMOLITION PROCESS.
[12]	ASBESTOS MIGHT BE FOUND IN EXISTING BUILDING. SURVEY TO BE SCOPED.
[13]	RISK OF VEHICLE IMPACT TO STRUCTURES ON SOUTHERN SIDE. STRUCTURES TO BE DESIGNED TO RESIST IMPACT LOAD.
BESIGN LEAD	DPR. PROJECT THE GOSH Children's Cancer Centre P2007598

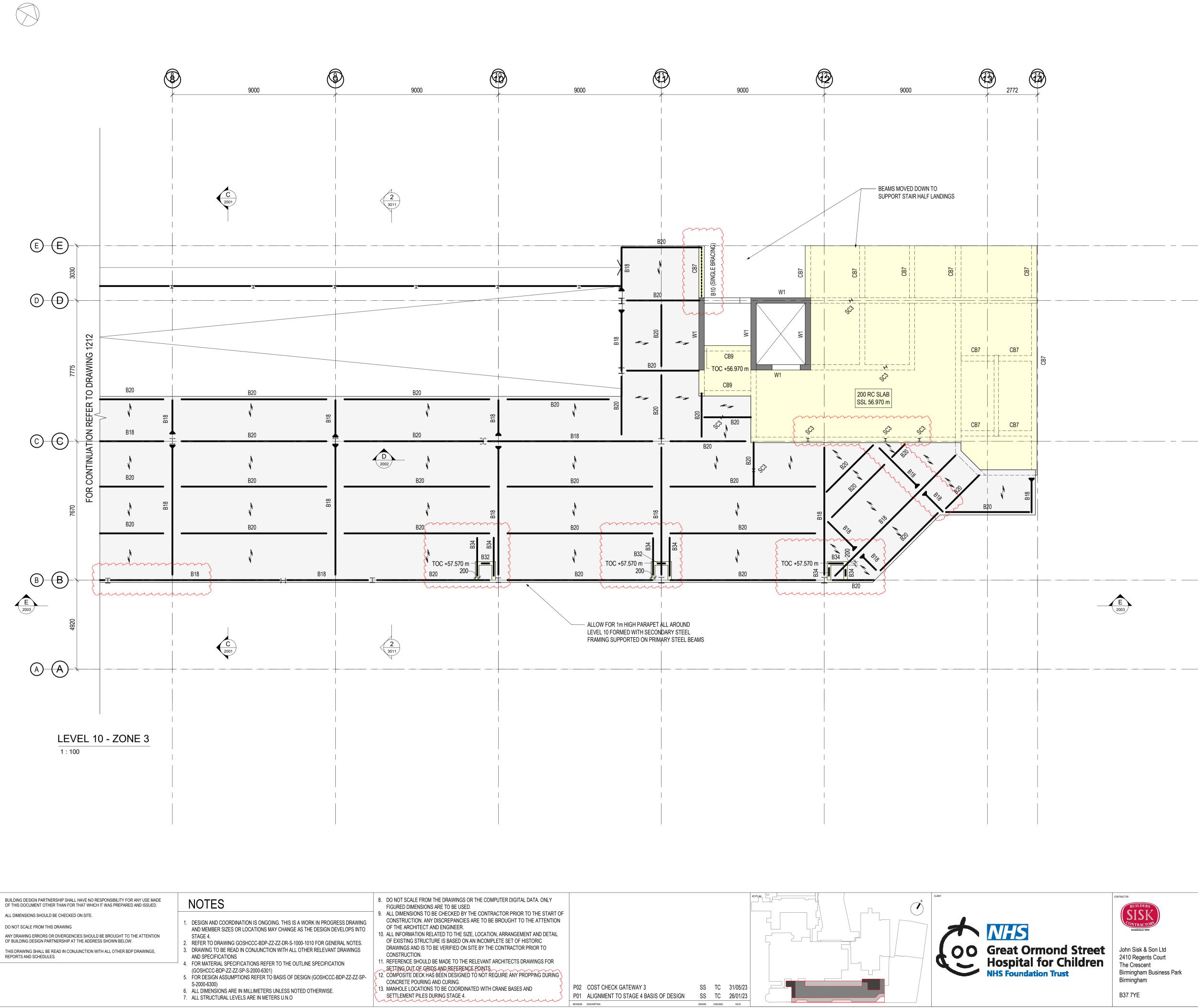
Birmingham Business Park

16 Brewhouse Yard Clerkenwell London EC1V 4LJ United Kingdom T +44 [0]20 7812 8000

www.bdp.com

LEVEL 10 PLAN - ZONE 2

CCC-BDI	P-ZZ-10-DR-	S-2300-121	2		
		SCALE	DRAWING SIZE	REVISION DATE	
ole For Revie	w & Comment	1:100	@ A1	31/0	5/23
CHECKED BY	APPROVED BY	PURPOSE OF ISSUE			REVISION
TC	TC	Preliminary			PC
		ole For Review & Comment	DIE For Review & Comment 1 : 100	Dele For Review & Comment 1 : 100 @ A1 ORCORD BY PURPOSE OF ISSUE PURPOSE OF ISSUE	ble For Review & Comment 1:100 @A1 31/0



	LEGEND
	CDM RISK, REFER TO SCHEDULE
	EXISTING STRUCTURE IN SECTION
	EXISTING STRUCTURE SURFACE
	IN SITU CONCRETE IN SECTION
	IN SITU CONCRETE SURFACE
	STEEL SURFACE
	RECESS IN SLAB
	50mm MOVEMENT JOINT
	EXISTING STEEL BEAM
	NEW STEEL BEAM
· · · · · · · · · · · · · · · · · · ·	MOMENT CONNECTION THERMAL BREAK CONNECTOR (ANCON ISOTEC OR SIMILAR) 160 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK 200 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK 150 COMPOSITE SLAB WITH 1.20mm GAUGE COMFLOR 80 DECK
E	BEAM SCHEDULE

TYPE

UC203x203x46 UKC305x305x198

120x120x12 EA

UKC254x254x89

MARK

B5

COLU	MN SCHEDULE
MARK	TYPE
C1	650 x 650
C3	750 x 750
C4	525 x 525
C5	700 x 700
C6	300 x 750
C8	350 x 800
C12	750 DIA.
C15	300 x 650
C16	750x325
C17	450 DIA
C18	250x400
C19	500 DIA
C20	400 x 950
C21	800 DIA.
C22	910 x 750
C23	1610 x 750
G24	300 x 300
SC1	UKC152x152x23
SC3	UC152x152x37
SC4	UKC203x203x60
SC5	SHS 100x100x10
SC6	UC305x305x118
SC7	SHS 200x200x10
SC8	UKC305x305x158
SC9	UKC254x254x132
SC11	UC305x305x198
SC12	UKC305x305x283
SC13	SHS100x100x8
SC14	UC305x305x240
RC W/	ALL SCHEDULE
MARK	TYPE
W1	300 RC WALL
W2	250 RC LINER WALL
W3	250 RC WALL
W4	150 RC WALL

350 RC WALL

225 RC WALL

W5

W6

	M	
C WALL	B6	SHS 80x80x10
NER WALL	B7	100x100x10 EA
C WALL	B10	UKC152x152x23
C WALL	B11	UKC305x305x240
C WALL	B12	UKC203x203x100
C WALL	B13	UC305x305x118
	B14	SHS 150x150x10
	B15	UKC203x203x71
	B17	UC356x406x393
	B18	UKC356x406x551
	B20	UKC305x305x283
	B21	UB914x305x289
	B22	UKC203x203x60
	B23	SHS80x80x5
	B24	CHS88.9x6.3
	B27	UC305x305x97
	B29	RHS450x250x16
	B30	UB610x305x149
	B31	UB533x210x101
	B32	UB178x102x19
	B33	SHS100x100x10
	B34	UB254x146x37
	CB1	1300x1300 DEEP CAPPING BEAM
	CB4	750x750 DEEP RC DOWNSTAND
	CB5	950x1325 DEEP COMPOSITE BEAM
	CB6	700x550 DEEP RC DOWNSTAND
	CB7	300x600 DEEP RC DOWNSTAND
	CB8	300x400 DEEP RC DOWNSTAND
	CB9	300x450 DEEP RC DOWNSTAND
	CB10	375x375 DEEP RC BEAM
	CB11	450x750 DEEP RC BEAM
	uuu	
CDM RISK S	SCHEDU	LE
D	ESCRIPTION	N
		CLOSE PROXIMITY TO EXISTING AKEN TO CONFIRM CLEARANCES.
TING RETAINED ST	RUCTURES	N OF SECANT PILED WALL IN CLOSE 5. SURVEY TO BE UNDERTAKEN TO NG STRATEGY TO BE IN PLACE IRAIN IN EXISTING BUILDING.
		JITABLE EDGE PROTECTION TO
		E PROXIMITY TO SUBSTRUCTURE OF

2002

REF		DESCRIPTION	
[1]		N STAIR AND LIFT CORES IN CLOSE PROXIMITY TO EXISTI ES. SURVEY TO BE UNDERTAKEN TO CONFIRM CLEARANC	-
[2]	PROXIMITY TO EXISTI CONFIRM FOUNDATIO	ASEMENT AND INSTALLATION OF SECANT PILED WALL IN C NG RETAINED STRUCTURES. SURVEY TO BE UNDERTAKE IN SETTING OUT. MONITORING STRATEGY TO BE IN PLACE ON TO AVOID EXCESSIVE STRAIN IN EXISTING BUILDING.	N TO
[3]	DEEP EXCAVATION FO PREVENT FALLS	DR BASEMENT REQUIRES SUITABLE EDGE PROTECTION T	0
[4]		EW FOUNDATIONS IN CLOSE PROXIMITY TO SUBSTRUCTU BUILDINGS. SURVEY TO BE UNDERTAKEN TO CONFIRM	IRE OF
[5]		RENCH IN YARD. NEW FOUNDATIONS TO AVOID TRENCH (RTED PRIOR TO CONSTRUCTION.	OR
[6]	LIFTING OF HEAVY ITE ADJACENT BUILDINGS	EMS INCLUDING TRUSS IN CLOSE PROXIMITY TO EXISTING 3.	1
[7]		N STRUCTURE ON EXISTING VCB ROOF. EXISTING STRUC ADDITIONAL LOADING, STRENGTHENING MIGHT BE REQU	
[8]	DESIGNED FOR VEHIC	ACT TO COLUMNS IN SERVICE YARD SPACE. COLUMNS CLE IMPACT LOAD. CONTRACTOR TO ENSURE TEMPORARY ACCESS FOR VEHICLES DURING CONSTRUCTION OF LINK	
[9]	DEVELOPED TO ROBL	ENT BELOW WATER TABLE. DESIGN PROPOSALS TO BE IST WATERPROOFING GRADES AS IT CONTAINS CRITICAL CONSIDERED DURING THE TEMPORARY CASE.	PLANT.
[10]		LED BELOW EXISTING PAVEMENT MIGHT CAUSE CLASH W SURVEY TO BE CARRIED OUT AND SERVICES TO BE DIVER	
[11]		O AVOID EXISTING PILES. LOCATION AND NATURE OF EXIS NNS UNKNOWN. SURVEY TO BE UNDERTAKEN DURING S.	STING
[12]	ASBESTOS MIGHT BE	FOUND IN EXISTING BUILDING. SURVEY TO BE SCOPED.	
[13]	RISK OF VEHICLE IMP DESIGNED TO RESIST	ACT TO STRUCTURES ON SOUTHERN SIDE. STRUCTURES IMPACT LOAD.	TO BE
BIGN LEAD		GOSH Children's Cancer Centre	
			ECT NUMBER
D	DP.	· · · · · · · · · · · · · · · · · · ·	P200759
		DRAWING TITLE	



John Sisk & Son Ltd 2410 Regents Court The Crescent Birmingham Business Park Birmingham

B37 7YE

16 Brewhouse Yard Clerkenwell London EC1V 4LJ United Kingdom

T +44 [0]20 7812 8000 www.bdp.com

LEVEL 10 PLAN - ZONE 3

GOSH		P-ZZ-10-DR	-5-2300-12	13	
STATUS/SUITABILITY			SCALE	DRAWING SIZE	REVISION DATE
	ible For Revie	ew & Comment		@ A1	31/05/2
DRAW BY	CHECKED BY	APPROVED BY	PURPOSE OF ISSUE		REVISION