Method Statement in Relation to the Demolition and Enabling Works At 12-14 Greville Street, London, EC1N 8SB

Client		Oakdean Ltd	
Principle Contractor		Oakdean Ltd	
Company	Ciku Construction		
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Title	Demolition and Enabling Works		
Start Date		Duration	

Revision History				
Document No.	Rev No.	Issue Date	Author	Description of Changes
GREVILLE-MS-03	00	15/02/19	M. O'Donnell	First Issue for comments
GREVILLE-MS-03	01	18/02/19	M. O'Donnell	Added items on p9 in blue and all temp works drawings
GREVILLE-MS-03	02	27/02/19	M. O'Donnell	Added RA Sinking Shafts and items in blue p10 - p14
GREVILLE-MS-03	03	19/03/19	M. O'Donnell	Added Answers to Crossrail Comments in blue p9
GREVILLE-MS-03	04	21/03/19	M. O'Donnell	Added Answers to Crossrail Comments in blue p9

	Name	Signature	Position	Date
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Reviewed By	Paul Toal		Senior Contracts Manager	21/03/19
Approved By	Paul Toal		Senior Contracts Manager	21/03/19

Contents

1. Introduction

The following Method Statement describes how Ciku Construction Services intend to demolish 12-14 Greville Street, this includes a Façade retention scheme to No 12 Greville St where the front Façade is to be retained.
This will be a very complex demolition project since there are several shared party walls surrounding the land locked building. Vibration, noise and dust will be a major concern to our surrounding neighbours, within this document we will propose how we will keep these environmental issues to a minimum.
We intend to use the "top down" method of demolition where several mini excavators complete with various attachments will basically de construct the building in the opposite way in which it was constructed.

Ciku Construction Services are aware of the constraints of the site and works will be carried in a manner that ensures that the effects on neighbouring parties and the public is minimal and that their safety remains paramount.

Prior to any works commencing the following will have been put in place or carried out.

- Statutory Notifications and Consents (ASB5 and Section 80)
- Section 61 Agreements/Consents
- Erection of fully monarflexed scaffolding around all elevations.
- Removal of all known ACMs.
- Service terminations/disconnections at boundaries and associated documentation issued.
- Installation of temporary services (power and water)
- Site Traffic access/egress and pedestrian routing along Greville St.
- Establishment of fire routing: fire-fighting equipment and emergency lighting in accordance with current regulations.
- Structural investigations and floor load testing to determine the size of plant allowable for the floor by floor demolition.
- Welfare and Drying Rooms
- Traffic and Pedestrian management plans in place.

The working practices described in this Ciku Construction Services Method Statement have been established in accordance of the following publications/documents: -

- Health and Safety at Work etc Act 1974
- Personal Protective Equipment Regulations 2002
- Provision and Use of Work Equipment Regulations 1998
- Reporting of Injuries, Diseases and Dangerous Occurrences Regs 1995
- Construction (Design and Management) Regulations 2015
- Control of Substances Hazardous to Health 2002.
- Controlling of Noise at Work Regulations 2005.
- Controlling of Vibration at Work Regulations 2005.
- Environmental Protection Act 1990.
- The Control of Asbestos Regulations 2012

2. Scope of Works

- Asbestos Removal
- Scaffold Erection
- Floor Load Testing
- Soft Strip of all Floors
- Full Demolition – 14 Greville St
- Façade Retention and Demolition – 12 Greville St
- Temporary Waterproofing to Party Walls
- Arising Removal

3. Logistics

- All deliveries will arrive at the front of 12-14 Greville Street.
- Deliveries will sign in.
- Operatives are to use the Welfare Facilities which are the current Office Facilities.
- Ciku Traffic Marshals will control traffic movements on and off the site.
- Access / Egress through the site will be along designated routes; these will be subject to diversions due to phasing of various works on site.

4. Method of Works

Pre-Works

- Make sure all equipment that's needed to complete the works is on site and certification is in date.
- Ensure all Operatives have had an induction.
- Make sure the Method Statements/Risk Assessments have been signed off and the Operatives have been briefed on the contents and signed on to them.
- An isolation certificates will be issued to Ciku Construction to confirm that all services have been isolated.
- Transformers will be installed that generates 110v power for task lighting and tools.
- Welfare and storage area will be set in an agreed location along with a green route that will change as the works evolves.
- Pre-Job Daily Briefings will be given to all the Operatives, these will include the works for the day, deliveries, hazards, control measures etc.

Work Area Setup

- Access to the work area will be shown to the Operatives who will then erect barriers, fencing and signage to identify the area of work. Also drop zones may be formed to get materials down from upper levels, these areas will be Heras Fenced off and clearly sign posted.
- Designated operative will be positioned to control access and egress of personnel and equipment to and from the area.

Soft Strip Works

The Ciku Construction Supervisor will identify the scope of the soft strip to the operatives. This process will be a continuous one commencing at the highest level with the supervisor checking that the operatives remove the required items before briefing them on further areas requiring soft stripping.

- Windows/doors will be opened to provide sufficient air movement in order to maintain a safe working environment. Extractor fans may be used if necessary, where additional ventilation is required.
- The soft strip works will be carried out using hand tools. These tools will include mattocks, hammers, screwdrivers, angle grinders oxy/propane cutting and reciprocating saws. The work face and access/egress routes will be progressively cleared using brooms, shovels and wheels barrows.
- All soft stripped items will be cut into manageable pieces once they have been removed using oxy/propane, angle grinders and reciprocating saws depending on the material. A hot works permit will be issued by Ciku Construction prior to any hot works.
- Where soft strip is at high level alloy towers/podium steps will be erected by a competent PASMA trained operative. There also may be a need for electric MEWP's these will be controlled by IPAF trained operatives.
- Where Asbestos Gaskets are found the operatives will cut either side of the flange as to not disturb the gasket and removes as Asbestos Waste (consignment notes will be issued to Oakdean on completion).
- The Lift will be utilized so the Operatives can get the soft stripped materials from the upper floors instead of carrying items down the stairs. The Operatives will ensure they do not overload the lift (450kg limit). Prior to the lift being used it will be serviced by a local lift engineering company who will sign it off that it is fit for purpose.
- The soft strip materials will be segregated into re-use, recycle (carpets, metal, timber) and general rubbish. The general rubbish will be taken to the appropriate Waste Transfer Station where a further segregation process takes place. The metal will be taken to the local scrap dealers for re-cycling.
- Plaster board will be kept separate as per current regulations.
- Dust emissions will be controlled at the work face and loading away area by a fine water spray from a hose pipe and rose connection. The quantity of water emitted by the sprays will be regulated and controlled.
- Materials will be loaded into a Cage Lorry in Greville Street.
- A Ciku Construction banksman/traffic marshal will be in attendance at all times to direct pedestrians and traffic.

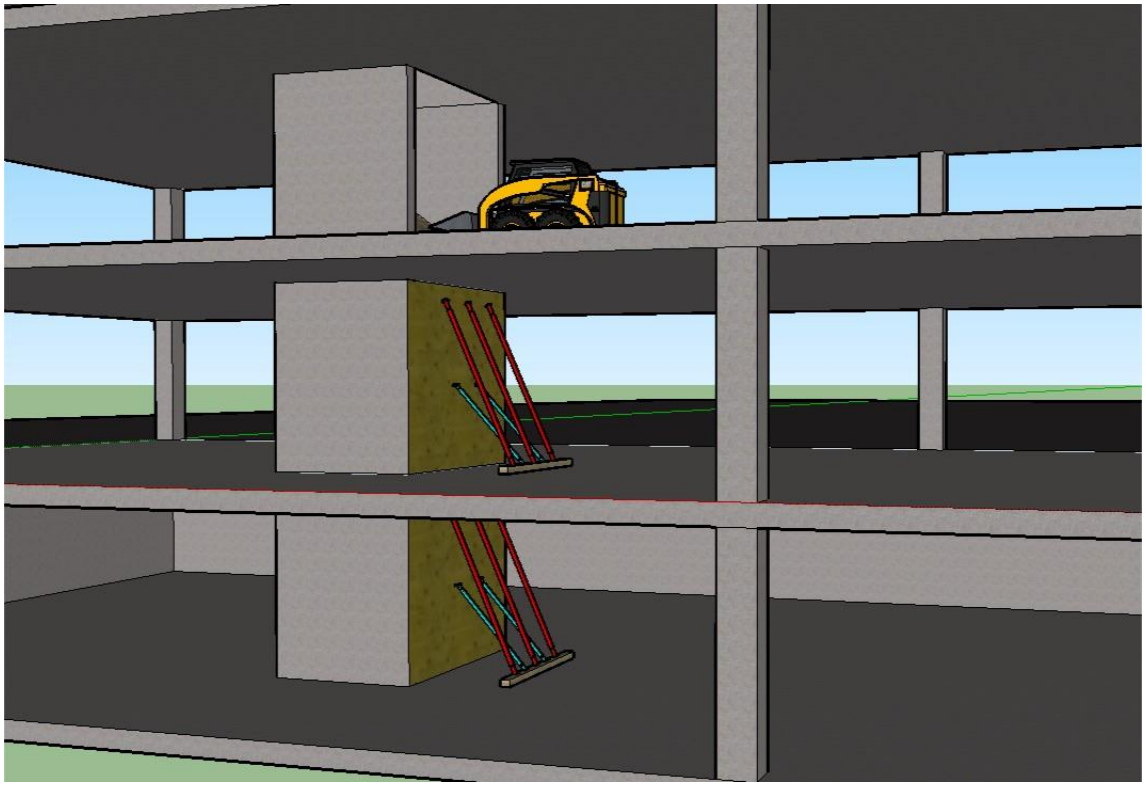
Demolition

Lift Removal/Drop Zone Preparation and Using the Drop Zone

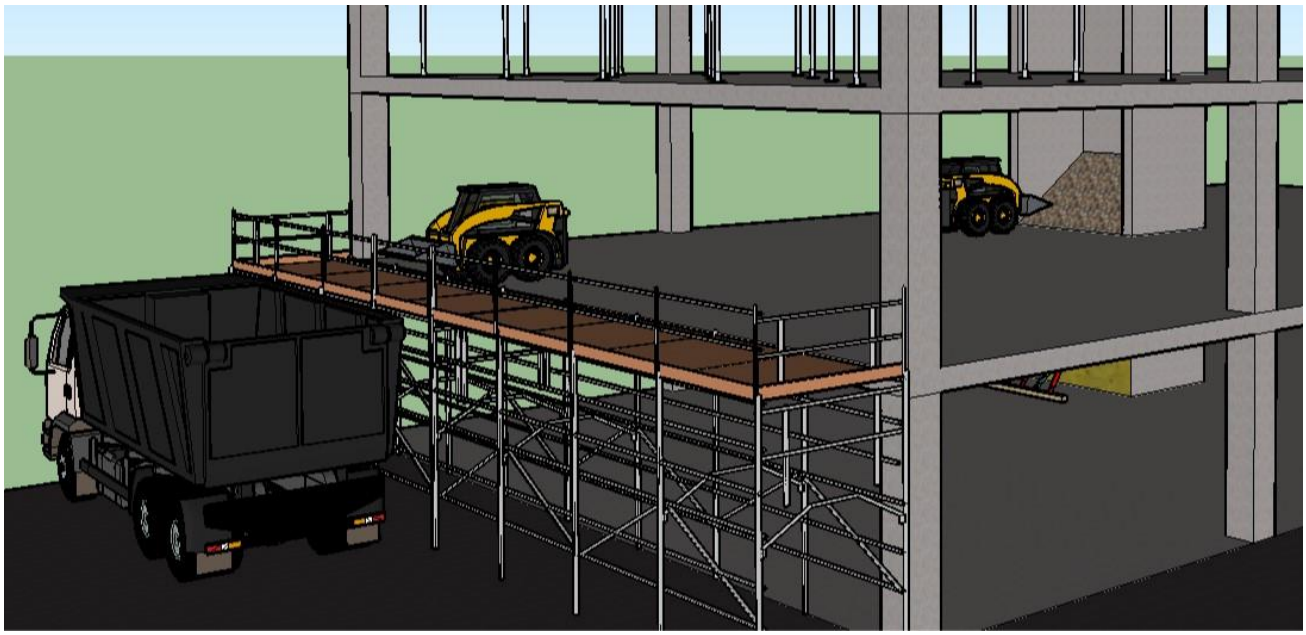
In order to get the demolition arisings from the demolition area to the Ground Floor, we propose to use the existing lift shaft adjacent to Greville St as a drop zone. To prepare the lift shaft for use Ciku will need to get the following complete:

- The Lift will be positioned in the Basement with the weights at the top floor, it will then be Isolated (conformation given to Ciku).
- Double Handrails with toe boards will be erected across the lift doors at every level by Oakdean's Scaffolders
- Operatives will obtain a Hotworks Permit and ensure all the procedures are in place before works commence i.e. Fire Extinguishers/water.

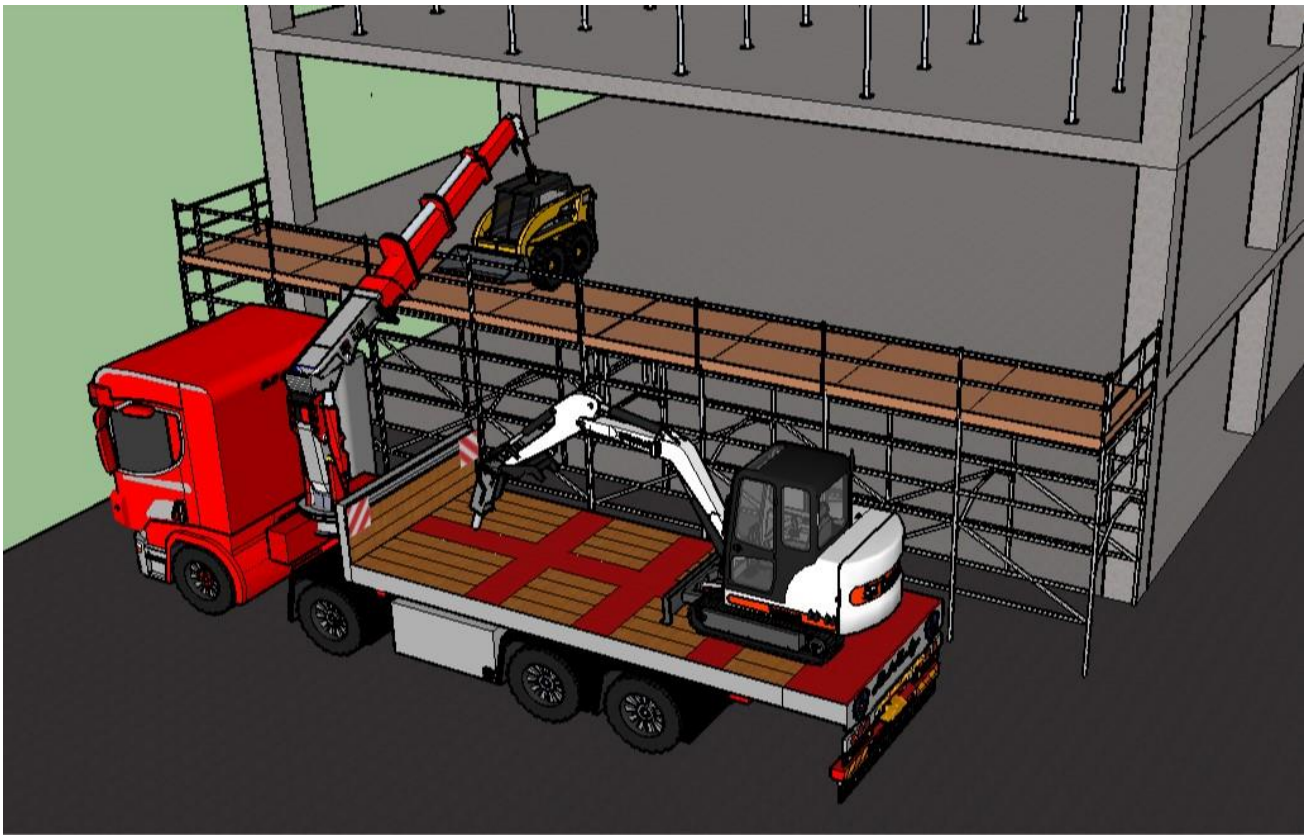
- The Operatives will then access the Lift Motor Room, using a 2m long Oxy/Propane Torch the wire bonds will be cut allowing the weights and bonds to free fall to the basement.
- The Lift Doors at Basement Level will then be opened, and the Lift Cart Roof and Sides will be dismantled and cut up into manageable pieces using a combination of Small Tools, Grinders, Reciprocating Saws and Oxy/Propane.
- Starting back at the top floor by floor the doors will be opened (closed again once the floor is complete) and Operatives working behind the handrails using the 2m long Oxy/Propane Torch all the rails, fixings and components will be cut into manageable pieces and allowed to free fall to the Basement level, with the arisings being cleared once each floor is complete.
- With all the rails, fixings and components removed down to the Basement the floor of the Lift Cart will be removed along with any remaining rails, fixings and components beneath the cart floor.
- If the Temporary Works Engineer deem is necessary to do so the Basement and Ground Floor Levels the doors will be closed, Plywood fixed across them and acrows fixed to timbers at angles to ensure the plywood doesn't come away.



- All Floor above will have the Lift doors closed and plywood fixed across them.
- When available from the demolition works hardcore will be tipped down the Lift Shaft until its roughly level with the First Floor Slab, at this point the plywood and Lift Doors will be removed at First Floor Level only this is to allow for plant access to remove the remaining arisings from all floors of the demolition.
- Whilst the above is being put into place a purpose-built load bearing scaffold gantry will be built (by others) up to the First-Floor level, there is also an option to load arisings onto the Gantry due to it being load bearing.



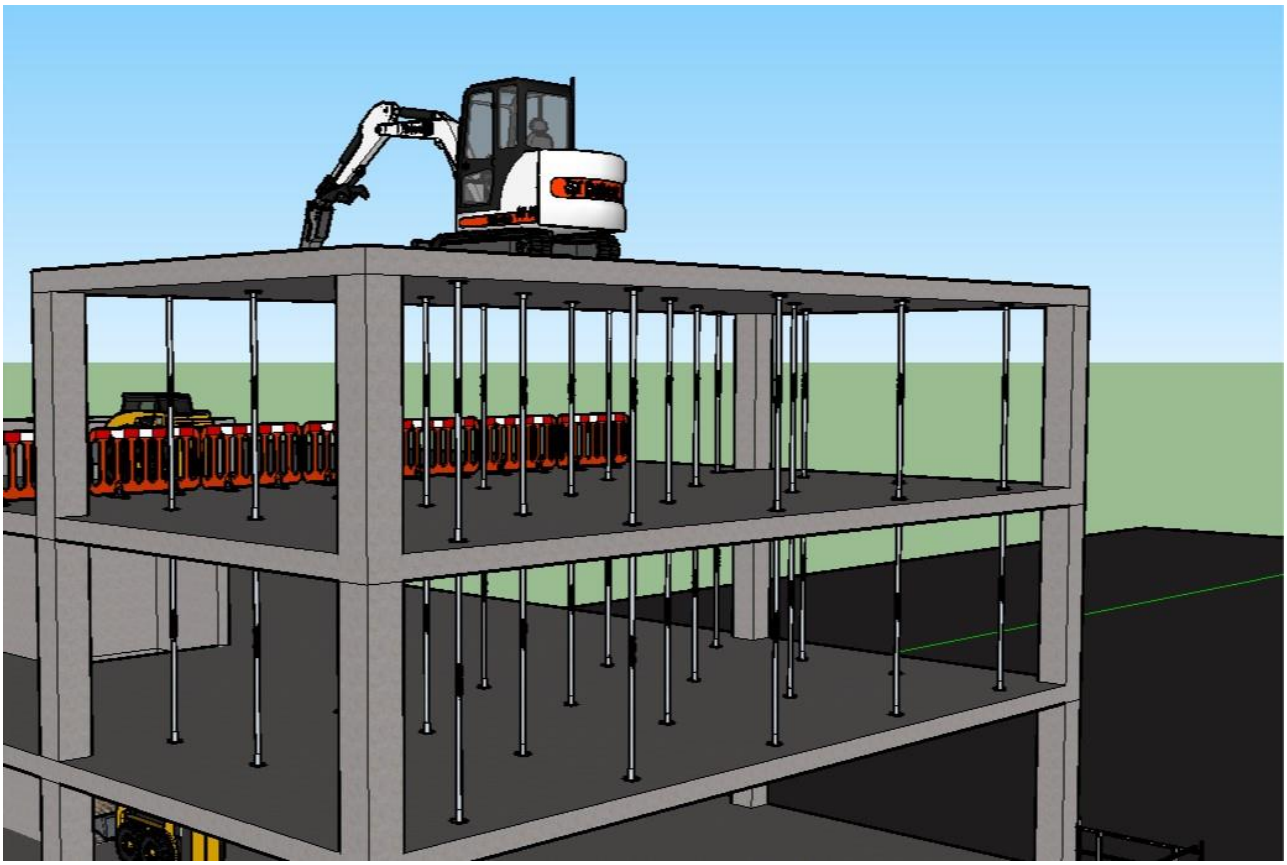
- A 1.5t Excavator and either a S70 or S100 Bobcat will be lifted onto the purpose-built gantry via a Hi-Ab/lorry mounted crane.



- Using small tools the window will be removed from the 14 Greville Street Façade, then using either hand held breakers or the 1.5t Excavator the upstand/section of wall beneath the window will be removed down to 1st Floor Slab Level, this will give us the access point through the Façade for the plant drive onto the floor plate and allow the Bobcat to load the lorries via a chute attached to the gantry.
- An exclusion zone with all appropriate signage will be erected around the Drop Zone at 1st Floor Level.
- All arising's will be separated in to their waste streams at the floor level prior to disposal.
- Operatives will set up the dust suppression. This will be in the form of a hose complete with spray coupling.
- Adequate edge protection will be put in place before any vertical transferring of materials commence. If the edge protection should get damaged as the demolition progresses it will be replaced immediately.
- During the vertical transfer of materials, this will be controlled by an Operative at 1st Floor Level and a Operative at the working level. They will be direct contact with two-way radio.

Getting Plant up to Roof Level

- Due to previous experience with a similar type of building we intend to use 3t mini excavators with various attachments, this may change or be confirmed once we do the floor load testing and have supporting calculations from our Temporary Works Engineer.
- If back propping is required, this will be put in place as per the Temporary Works Engineers details.



- Once the size of the excavators has been confirmed they will be delivered to site, a road closure will be in place whilst a mobile crane lifts them up to the roof level, along with any other small plant/materials that will be needed.
- Any perimetry that's needed to start the works will be obtained from the relevant people.
- When the first excavator gets lifted onto the roof it will break out a pre-determined section of roof slab.
- When the above is complete the Bobcat can be lifted up and then down through the opening onto the 4th Floor.

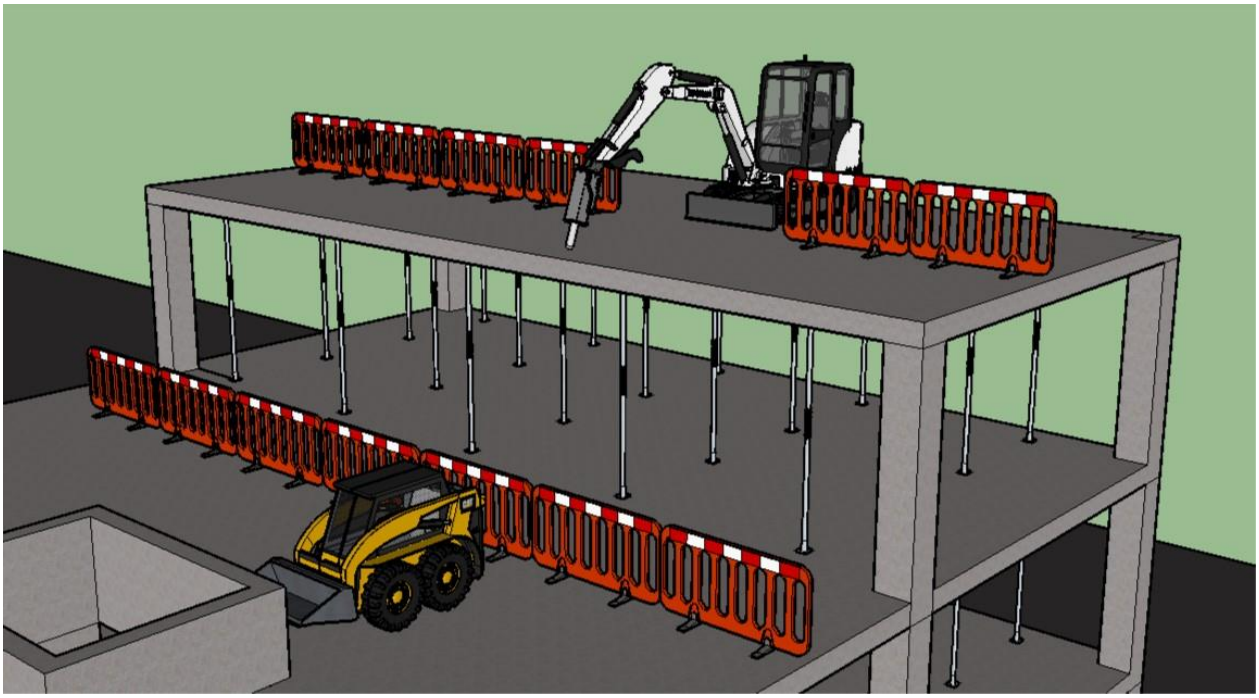
Floor by Floor Demolition

It is our proposal to separate the party walls in advance of the demolition. This will be in the form of non-percussive tools such as core drilling or using a track saw. The temporary works engineer will advise on this. This will prevent any vibration to the adjacent building during demolition. Back propping will be introduced and erected prior to any non-percussive drilling/sawing. This will always be carried out one elevation at a time immediately in front of the demolition to maintain stability of the building. (covered in separate RAMS).

Careful consideration will always be given to the stability of the building and the fact that there is a Crossrail Tunnel 25m below the site, with this being the case there are a set of standard conditions imposed by Crossrail that will be followed and maintained during these works. **The Foundations are to be dug as part of the shoring works required for the demolition works. We can confirm that the max depth of the temporary foundations will be no more than 12.18M AOD, which is over 13m above the Crossrail exclusion zone.** Crossrail would have cause to object to methods of demolition carried out within 15m plan distance of its assets with potential to transmit heavy vibration into the ground. The maximum intensity should not exceed 15mm/s PPV, with this measure applied to the nearest source of activity. To help with this control measure a vibration monitoring system will be in place. The system will be able to produce an alert system if the vibrations produced get within 10% of the limit imposed by Crossrail. The vibration monitoring system will also produce a log of events and readings, which will also have a time and date attached. This information can be issued monthly to Crossrail. Any load bearing walls will be identified prior to demolition commencing to ensure that they are maintained until redundant. Whilst demolition is in progress, adequate provision will be provided to inspect and survey the existing structure by our management.

- At all times during demolition, access shall be strictly controlled by Ciku staff to ensure that no other persons gain access into the demolition zone. Access shall be controlled by the Site Manager and Demolition Supervisor and authority to enter must be sought from them prior to entry. This shall include all principal contractor staff, consultants, engineers or any other type of visitor.
- Exclusion zones with signs stating 'demolition keep out' shall be erected. This shall be achieved by using physical barriers with signage. These shall be placed wherever they are necessary to maintain exclusion zones, particularly below the demolition areas, where the risk of falling debris is at its highest.
- Operatives will set up the dust suppression. This will be at least a hose complete with spray coupling.
- As the demolition progresses all Party Walls will have temporary weatherproofing installed this will be in the way of good quality felt and battoning.
- The processing and reducing of steel materials shall be carried out by burning operatives equipped with oxy propane cutting equipment, whilst working on leading edges the operatives be attached to either the main independent scaffold or to the attachment of the 360° Excavator via full body hardness and fixed lanyard (max 2.00m) if the operative is fixed to the attachment of the 360° Excavator the following will be in place, the excavators attachment will be placed so the operative cannot fall off the leading edge and the operator will activate the dead man's handle (so the excavator controls don't work if touched) as the burning operative is progressing with the cutting the excavator driver will move the attachment to keep him from falling off the leading edge.

- An operative, working under a hot working 'permit to work' system will use oxy propane cutting equipment to cut steel reinforcing bar as necessary. The gas bottles shall be kept in a locked designated storage cage or on a mobile trolley. Steel shall be stockpiled and removed from site via the drop zone and re-cycled.
- All reinforcement will be cut up in to suitable lengths and put in bundles at the floor level prior to being discharged down the existing lift shaft in a manageable and safe way. Once at the 1st Floor of the shaft the 1.5t Excavator will proceed to load it into roll on roll off skips via the Gantry.
- 'A' frame scaffold handrails or Crowd Barriers will be erected across the width of the slab to prevent unauthorised access into the breakout zone.

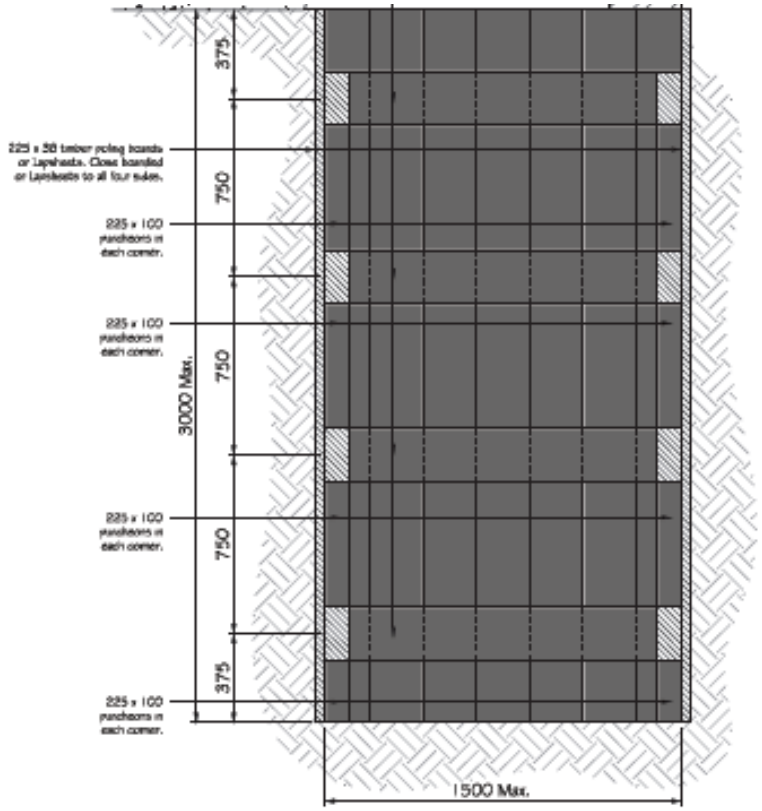


- The Excavators shall have their pre-use checks carried out by the operators then the excavator shall track to the start point of the demolition work area as instructed by the Demolition Supervisor and ready the excavators for work.
- The Excavators shall commence demolition top down of the structure. Firstly, the small plantroom and any other small structure will be demolished, thus giving Ciku a fairly flat surface to work from. Any holes left from these works will have double scaffold handrails with toeboards.
- Once sufficient area of the floor has been cleared an Excavator fitted with standard demolition attachments, will proceed to demolish the outer walls, columns and beams.
- During the demolition the scaffold will be struck to suit the progress. Scaffolders will be in attendance during the demolition to ensure no scaffold is left free standing for a length of time (over night or weekends).
- The floor by floor method shall be repeated until all necessary areas of structure have been demolished down to 1st Floor Level.

Temporary Works Excavations

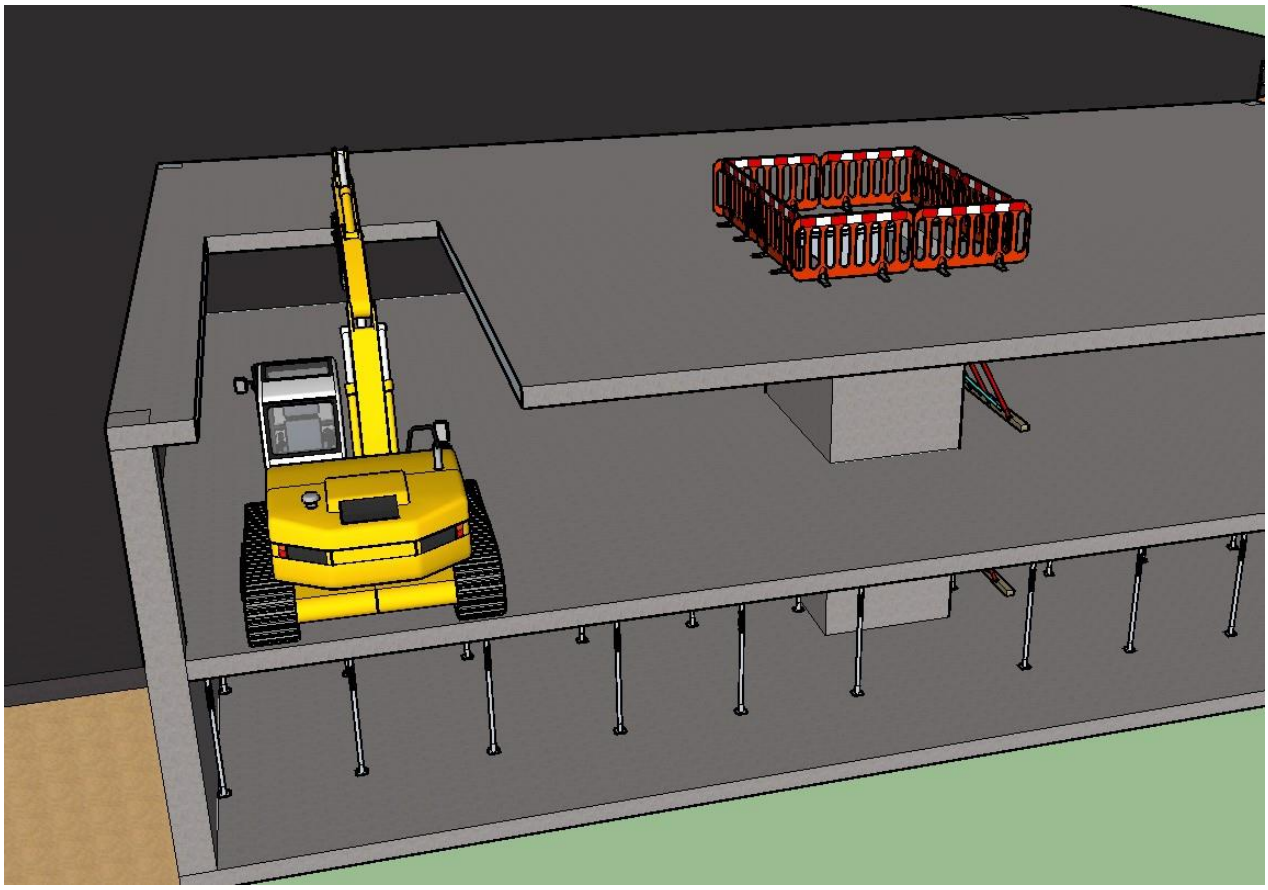
The Temporary Works and Façade Retention will be installed (by others) as the demolition progresses, Ciku will work alongside the Temporary Works Teams and ensure the works are signed off before the demolition restarts. (covered in separate RAMS). See Appendix C for how these will be installed.

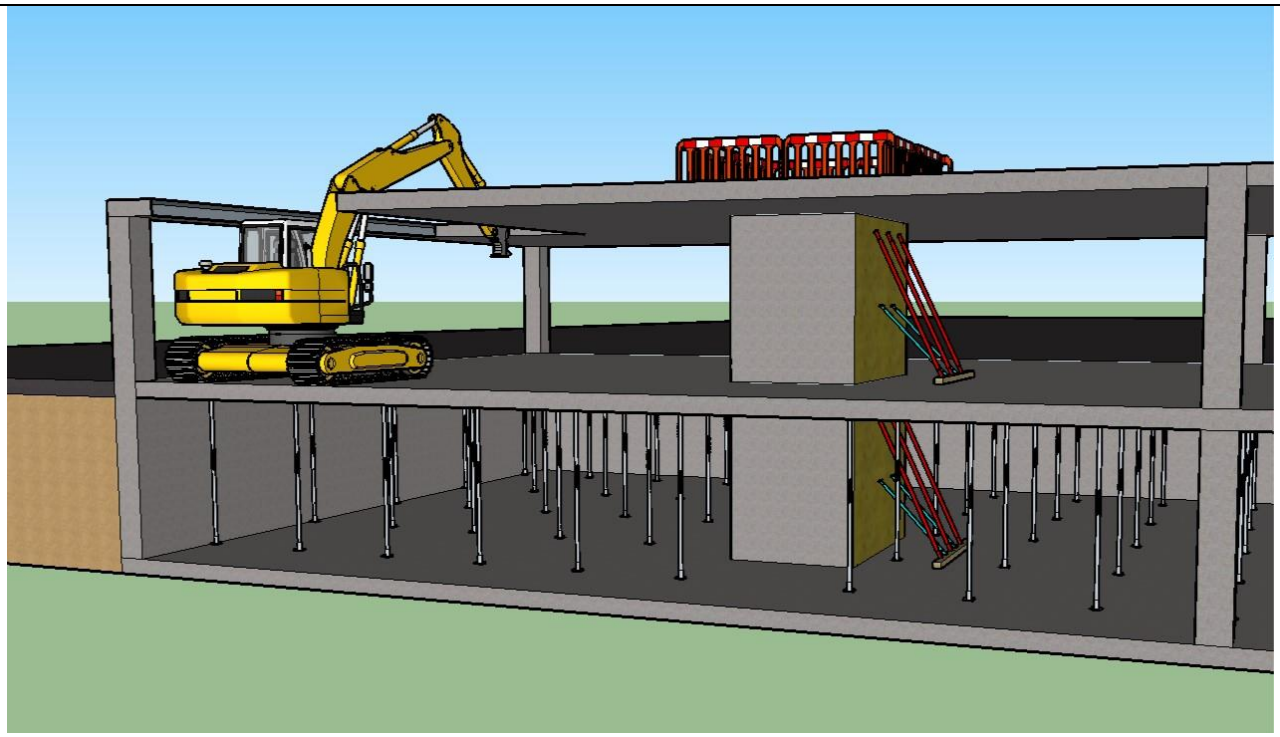
- The excavations will be set out using paint line marker by Ciku Constructions Engineer as per the drawing supplied to Ciku.
- A laser level will be set up by Ciku Constructions Engineer to ensure its all put in to the correct levels as per the drawing supplied to Ciku.
- The excavation will be dug very similar to the sketch below.
- Ground boards will be laid on the ground using 9”x 4” timbers to form the outline of the pit this will act as a guide and template for the excavation of the shaft
- The Operatives will commence excavating within the ground boards to a depth as stipulated on the drawing, this is the point where the first frame is to be installed.
- The first frame will then be formed at this level using 9”x 4” timber on edge within the hole, this will also act as a template and guide so that the trench sheets can be stood up vertically and plumb.
- The Operatives will then excavate down to the next depth stipulated on the drawing of the shaft.
- Another frame will then be installed as described above. This sequence will continue until we reach the confirmed depth.

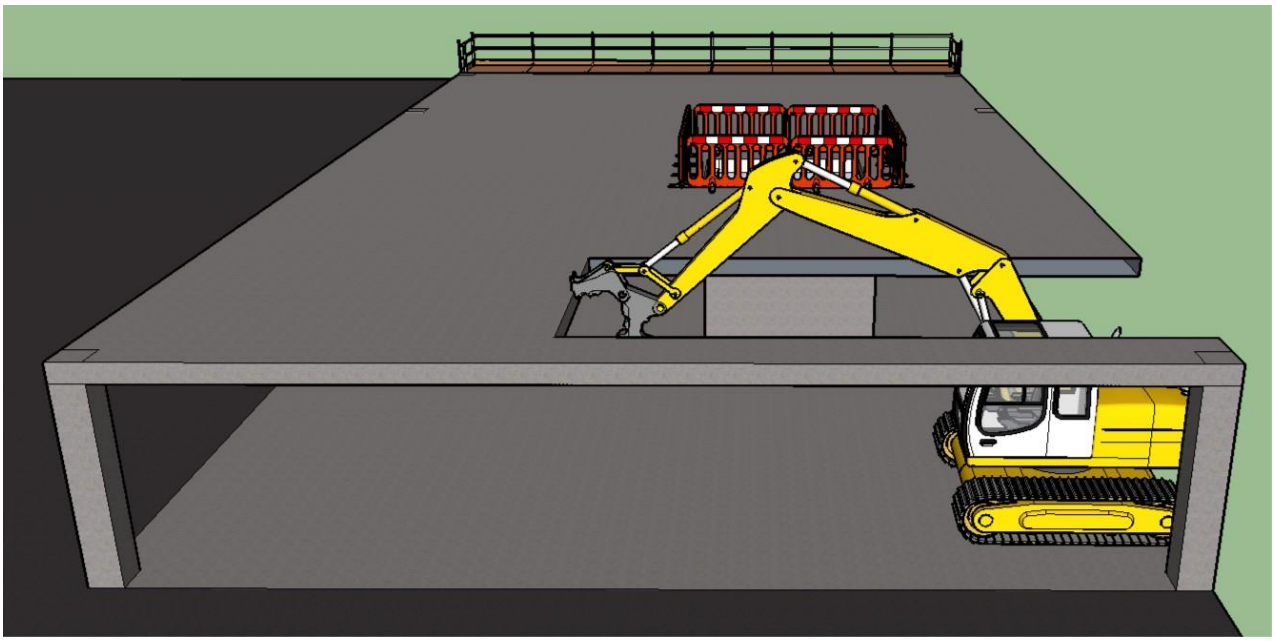


1st Floor Demolition/Ground Floor

- The 13t-20t Excavator will be delivered to site. If needed the road will be protected with plywood.
- Exclusion zones with signs stating 'demolition keep out' shall be installed around the works area to ensure no persons enter the demolition zone whilst these works progress. This shall be achieved by using physical barriers with signage. These shall be placed wherever they are necessary to maintain exclusion zones. They will be posted with signage on all areas affected by the demolition, particular below the demolition areas, where the risk of falling debris is at its highest.
- The Excavator shall have its pre-use checks carried out by the excavator driver.
- The Excavator will be tracked to the start point of the demolition work area as instructed by the Demolition Supervisor and the driver will ready the excavator ready for work.
- Demolition permits to work will be weekly and in place for the duration of the demolition.
- Using the Excavator with a multi-processor/muncher or a Hydraulic Breaker attachment we proposed to munch/break through the 1st Floor structure. Dust suppression will be in place at all times.







- At all times during demolition, access shall be strictly controlled by Ciku staff to ensure that no other persons wander into the demolition zone. Access shall be controlled by the Site Manager and Demolition Supervisor and authority to enter must be sought from them prior to entry. This shall include all principal contractor staff, consultants, engineers or any other type of visitor.
- At all times the Site Manager and Demolition Supervisor shall control the activity to ensure demolition and removal of material activities do not clash.
- Demolition arising's shall be continually removed from the site.

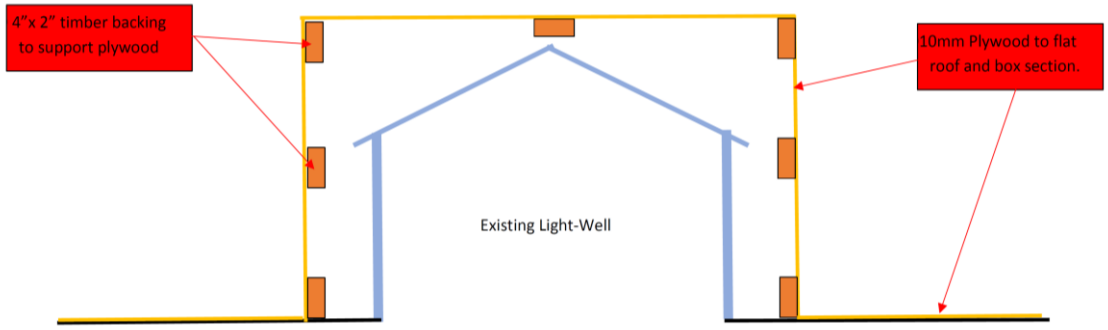
- As the demolition works progress, leading edges will be created by floor elements being removed. Therefore, scaffold hand rails will be erected with adequate signs stating 'hole below – keep out' shall be placed on all elevations where there is a fall from height risk.
- The demolition process shall be continually repeated until the necessary floor and wall elements have been removed.
- The Excavator will then move onto removing the Ground Floor Slab using the same processes as above with the 1st Floor Removal

Chimney Stack Removal to 22 Hatton Garden

The following describes how Ciku Construction Services are to protect the existing roof and lightwells from getting damaged during demolition to the existing chimney stacks in the vicinity of 22 Hatton Garden. It also describes how we will prevent the possibility of soot pluming through air vents within the internal space below.

- Our temporary works engineer will advise on roof loadings and on confirmation that that the roof can support a 10mm deck of plywood, this will be installed over the horizontal surface.
- The glass lightwells will be protected by forming a box section made from 4" x 2" timber frame and 10mm plywood. This will be built in sections so that it can be dismantled and re-erected prior to the demolition to ensure that the area below has minimal disruption.
- The vents within the internal space below will be temporarily covered with 1000g polythene and taped with duct tape. Arrangements will be made for access with the existing tenants below.
- An access scaffolding will be erected by others for the chimney demolition, the boarded levels will have an additional layer of plywood to prevent any rubble falling on to the area below.
- The chimney pots will be carefully removed by hand held tools such as a hammer and bolster, care will be taken to prevent any arisings falling down the chimney stack.
- When the mouth of the chimney is exposed a fine water mist will be sprayed inside the flue to dampen down any soot deposits and brick dust.
- The courses of bricks will be removed carefully one brick at a time and bagged into rubble sacks for disposal. Stubborn well bonded bricks will be removed carefully using a Hilti demolition hammer.
- This sequence will continue down to the flat roof level.
- On completion the polythene that was taped over the vents will be carefully removed, a hoover will be used by a second operative to remove any soot deposits or brick dust that may have fallen.
- The plywood boxing and decking will be removed, any dust on the glass will be hoovered up and wiped clean.
- These works could be carried out of hours with prior consent from the local authorities/council to cause as little disruption to the residents as possible.

Typical Protection



Notes:
All bottles will be stored away in bottles cages when they are not in use.

As per the hotworks permit rules all works will cease 1hr before the end of the shift so the Fire Marshal can do a 1hr fire watch.

A HAV's Register will be in place during the works to ensure the Operatives do not exceed their daily limits.

5. Key Safety Issues

- Ciku Construction will issue a termination certificate prior to the commencement of works confirming that there are no live services.
- The Ciku Construction Services supervisor must inspect the working area at the start and end of each shift to ensure that the works are safe.
- The appropriate temporary services – task and emergency lighting, electrics, and water for dust suppression – must be installed to provide a safe working environment.
- All the works are to be under the direct control of experienced supervisors with SSSTS certificates. The Supervisor will be on site at all times.
- All operatives will have CSCS/CCDO cards and MEWP trained operators will have IPAF Training Certs.
- Noise zones will be established during noisy works, this will be in the form of barriers, signage will be erected, and ear protection placed in prominent positions.
- Whilst using HAV producing tools the manufacturers and the HSE information will be strictly adhered to with the operatives rotating regularly and records will be kept.
- All areas will have adequate warning signs to warn other workforce that soft strip is taking place.
- Statutory edge protection will be erected around any high-level works.
- Any future changes to the Method Statement will be agreed with the Contracts Manager prior to execution and the Method Statement reviewed, amended and approved accordingly.

6. PPE

	Yes	No		Yes	No
Safety Helmet	✓		Hearing Protection	✓	
Safety Boots	✓		Hot Works PPE	✓	
Hi-Vis Clothing	✓		Harness	✓	
Gloves	✓		Dust Mask	✓	
Glasses	✓		Other		×

7. Plant and Equipment

	Yes	No		Yes	No
Excavator	✓		Excavation Shoring		×
Bobcat	✓		Propping	✓	
Telehandler/Forklift		×	Crane	✓	
Brokk		×	Personnel Hoist		×
MEWP		×	Goods Hoist/Chain Block		×
Ventilation Equipment		×	Lifting Equipment	✓	
Scaffold	✓		CAT and Genny		×
Alloy Tower/Podium Steps	✓		Mechanical Tools	✓	
Man Anchor/Rescue System		×	Compressor and Air Tools		×
Task Lighting	✓		Oxy Propane Cutting Equipment	✓	

8. Permits

	Yes	No		Yes	No
Hotworks Permits	✓		Well Hole/Drop Zone Permit	✓	
Permit to Work	✓		Work at Height Permit		×
Permit to Dig		×	Permit to Load	✓	
Confine Spaces Permit		×	Other		×

9. Resources

Management/Supervision	Labour
1x Contracts/Operations Manager (visiting) 2x Supervisor	4x Plant Operators 6-8x Demolition Operatives
Plant and Equipment	**Materials**
Task Lights or Festoon Lighting Reciprocating Saws Grinders Petrol Saw Podium Step/Alloy Towers Small Tools Barriers Oxy Propane Cutting Equipment Bottle Cages Hand Held Breakers Harnesses Lanyards Excavators Bobcats Acrows/Titan Props	Plywood Timber Bulk Timbers Monarflex

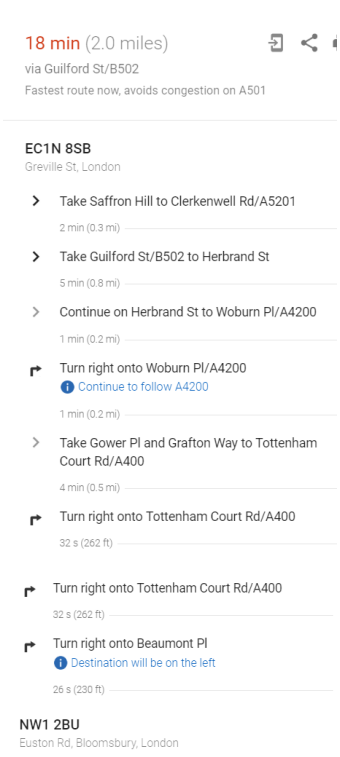
10. Training

	Yes	No		Yes	No
CCDO Manager/SMSTS	✓		Electrical		✗
CCDO Supervisor/SSSTS	✓		Scaffold		✗
CPCS - Plant	✓		Traffic Marshal	✓	
CCDO	✓		Fire Marshal	✓	
IPAF		✗	Slinger/Signaller	✓	
PASMA	✓		Other		

11. Emergency Arrangements

First Aid Measures Required	Rescue Measures Required
First Aid and Eye Wash Dispenser Kits will be located in the Site Office	First Aiders and First Aid kit(s) will be adequate with the total number of Personnel on site. In the event of an emergency, first aid to be given to the injured person. In the event of serious injury, personnel to be taken to the nearest A&E hospital. All accidents to be recorded in the accident book.

Emergency Contacts	First Aiders
Michael O'Donnell – Contracts Manager – 07769202879	TBC



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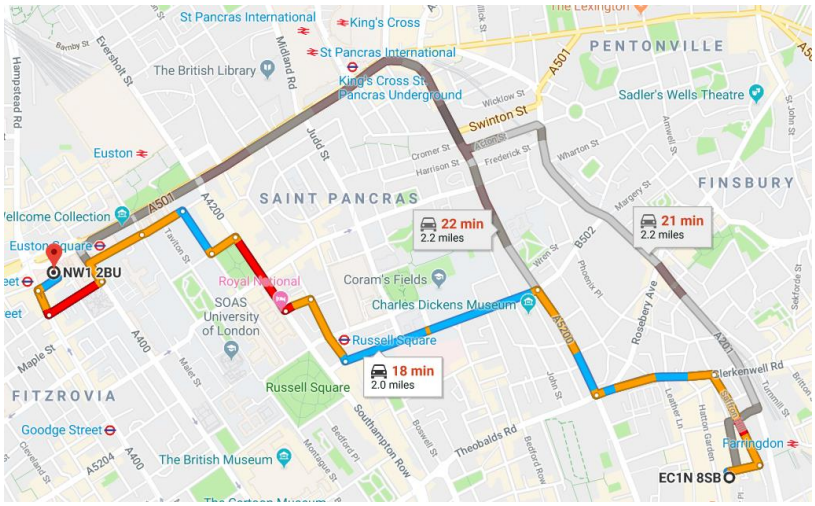


Appendix A – Risk Assessments

No.	Risk Assessment
001	Lifting Operations
005	Working at Height
006	Oxy Propane Cutting
009	Using Cut Off Grinders
010	Demolition with Hand Tools
012	Working around Holes and Leading Edges
013	Supervising Works
014	Breaking Concrete using a Hydraulic Breaker
016	Plant Movement around Site
018	Demolition using an Excavator
022	Sinking Shafts
028	Using Reciprocating Saws

CIKU	**SAFETY MANAGEMENT SYSTEM RISK ASSESSMENT**	**Contract**	12-14 Greville Street	**RA Ref No:**	001
		Client	Oakdean	**Rev:**	00
		Activity	Lifting Operations	**Date**	15/02/19

ACTIVITY	LIFTING OPERATIONS										RISK RATING
Activity affecting (Tick appropriate box)	EMPLOYEE	✓	THIRD PARTY	✓	VEHICLE	✓	PLANT	✓	PROPERTY	✓	FREQUENCY X SEVERITY

NO	HAZARD	POSSIBLE CONSEQUENCES	PRE- CONTROL	CONTROL MEASURES	POST-CONTROL
1	Overturning of Plant	Damage to plant, property and equipment Serious injury or fatality	3 x 5 = 15 Very High	• Appointment of lifting operations controller who will assess local conditions and lift requirements. • Check ground conditions. • Plan access route, account for any hazards i.e. overhead services. • Keep work area clear with exclusion zones as necessary, using barriers and signs • Ensure level area for setting up for lift.	1 x 4 = 4 Low
2	Failure of Lifting Equipment	Damage to plant, property and equipment Serious injury or fatality		• Check all machine and lifting test certificates are in date. • Visual inspection of equipment prior to any lifting operations. • Check driver's certification. • Check F91 Register	
3	Injury from falling equipment and materials	Serious injury or fatality		• All slinging and banking under control of appointed trained banks-man. • Keep work area clear & establish exclusion zones. • Brief everyone involved with lift on risks. • Establish means of signalling between crane op. & banks-man. • Use tag lines as appropriate • Hard hats, High visibility clothing, gloves and safety footwear to be worn at all times.	
4	Entrapment, personal injury	Serious injury or fatality		• Establish exclusion zones, erecting barriers with appropriate signage. • Limit number of people in area.	

LIKELIHOOD		SCORE	SEVERITY OF: INJURY / DAMAGE OR LOSS		SCORE	RISK RATING		ACTION	TIMESCALE
Probable	= Likely to occur several times in the relevant period	3	Catastrophic	= Death or total systems loss	5	Very High	10 – 15	Very High Risk - Not acceptable. Apply mitigation to eliminate or to further reduce the risk.	*Immediate* Action plan to progress reduction
Occasional	= Likely to occur at least once in relevant period	2	Critical	= Major injury or illness Major Damage Major environmental impact	4				
Remote	= Unlikely to occur in the relevant period	1	Serious	= Loss of time/injury Illness or damage Environmental Impact	3	High	5 – 9	High Risk - Apply mitigation to eliminate or reduce the risk, and if it remains a high risk, develop robust control measures to limit and manage the effects of any hazards.	*Progressively* Review risk & existing controls
			Marginal	= First Aid Accident Routine Maintenance / Repair	2	Low	1 – 4	Low Risk - May be accepted if all reasonably practicable control measures are in place, however, if more can be done to reduce or eliminate the risk, then it should be done.	*Continually* Monitor risks and existing controls
			Negligible	= Very Minor Little consequence	1				

CIKU	**SAFETY MANAGEMENT SYSTEM RISK ASSESSMENT**	**Contract**	12-14 Greville Street	**RA Ref No**	005
		Client	Oakdean	**Rev**	00
		Activity	Working at Height	**Date**	15/02/19

ACTIVITY	WORKING AT HEIGHT										RISK RATING
Activity affecting (Tick appropriate box)	EMPLOYEE	✓	THIRD PARTY	✓	VEHICLE		PLANT		PROPERTY		FREQUENCY X SEVERITY

NO	HAZARD	POSSIBLE CONSEQUENCES	PRE- CONTROL	CONTROL MEASURES	POST-CONTROL
1	Working at height	Personnel Falling	3 x 5 = 15 Very High	• Work off appropriate working platform, handrails, toe-boards, debris netting as required. • Scaffolding erected by CITB Scaffolders. • Alloy towers erected by trained operatives. • Work involving leaning out or if working outside appropriate working platform (i.e. open leading edge), full body safety harness must be worn at all times connected to appropriate anchor point.	1 x 3 = 3 Low
		Falling Materials/equipment	3 x 5 = 15 Very High	• Toe-boards, brick guards, debris netting/monaflex fitted. • Platforms covered to prevent materials falling through gaps. • Exclusion zones set up to prevent persons accessing area below work using solid barriers and signs. • Keep working platforms clear of equipment and materials	1 x 3 = 3 Low

LIKELIHOOD		SCORE	SEVERITY OF: INJURY / DAMAGE OR LOSS		SCORE	RISK RATING		ACTION	TIMESCALE
Probable	= Likely to occur several times in the relevant period	3	Catastrophic	= Death or total systems loss	5	Very High	10 – 15	Very High Risk - Not acceptable. Apply mitigation to eliminate or to further reduce the risk.	*Immediate* Action plan to progress reduction
Occasional	= Likely to occur at least once in relevant period	2	Critical	= Major injury or illness Major Damage Major environmental impact	4				
Remote	= Unlikely to occur in the relevant period	1	Serious	= Loss of time/injury Illness or damage Environmental Impact	3	High	5 – 9	High Risk - Apply mitigation to eliminate or reduce the risk, and if it remains a high risk, develop robust control measures to limit and manage the effects of any hazards.	*Progressively* Review risk & existing controls
			Marginal	= First Aid Accident Routine Maintenance / Repair	2	Low	1 – 4	Low Risk - May be accepted if all reasonably practicable control measures are in place, however, if more can be done to reduce or eliminate the risk, then it should be done.	*Continually* Monitor risks and existing controls
			Negligible	= Very Minor Little consequence	1				

SAFETY MANAGEMENT SYSTEM RISK ASSESSMENT				
	Contract	12-14 Greville Street	RA Ref No	006
	Client	Oakdean	Rev	00
	Activity	Oxy Propane Cutting	Date	15/02/19

ACTIVITY	OXY PROPANE CUTTING									RISK RATING
Activity affecting (Tick appropriate box)	EMPLOYEE	✓	THIRD PARTY	✓	VEHICLE		PLANT		PROPERTY	FREQUENCY X SEVERITY

NO	HAZARD	POSSIBLE CONSEQUENCES	PRE- CONTROL	CONTROL MEASURES	POST-CONTROL
1	Cutting steel using oxy/propane burning gear	Fire/explosion	3 x 5 = 15 Very High	• Ensure trained, experienced operatives are used • Daily inspection of hoses and equipment. • Gas bottles in bottle cage/trolley • Flash back arrestors fitted. • Hot work permit requested and issued. • Fire watchman in place c/w fire extinguishers. • Minimise combustible materials.	1 x 4 = 4 Low
		Eye injury to burner/welder Eye injury to third parties	3 x 4 = 12 Very High	• Burner/Welder to wear eye goggles/visor	1 x 4 = 4 Low
		Burns	3 x 4 = 12 Very High	• Hands arms and legs to be covered at all times. Leather gauntlets, jackets and spats to be worn.	1 x 3 = 3 Low
		Fumes causing respiratory disease and systemic poisoning.	3 x 5 = 15 Very High	• Good natural ventilation. • Forced ventilation.	1 x 3 = 3 Low

LIKELIHOOD		SCORE	SEVERITY OF: INJURY / DAMAGE OR LOSS		SCORE	RISK RATING		ACTION	TIMESCALE
Probable	= Likely to occur several times in the relevant period	3	Catastrophic	= Death or total systems loss	5				
			Critical	= Major injury or illness Major Damage Major environmental impact	4	Very High	10 – 15	Very High Risk - Not acceptable. Apply mitigation to eliminate or to further reduce the risk.	*Immediate* Action plan to progress reduction
Occasional	= Likely to occur at least once in relevant period	2	Serious	= Loss of time/injury Illness or damage Environmental Impact	3	High	5 – 9	High Risk - Apply mitigation to eliminate or reduce the risk, and if it remains a high risk, develop robust control measures to limit and manage the effects of any hazards.	*Progressively* Review risk & existing controls
Remote	= Unlikely to occur in the relevant period	1	Marginal	= First Aid Accident Routine Maintenance / Repair	2				
			Negligible	= Very Minor Little consequence	1	Low	1 – 4	Low Risk - May be accepted if all reasonably practicable control measures are in place, however, if more can be done to reduce or eliminate the risk, then it should be done.	*Continually* Monitor risks and existing controls

SAFETY MANAGEMENT SYSTEM RISK ASSESSMENT				
	Contract	12-14 Greville Street	RA Ref No	009
	Client	Oakdean	Rev	00
	Activity	Using Cut Off Grinder	Date	15/02/19

ACTIVITY	USING CUT OFF GRINDER									RISK RATING
Activity affecting (Tick appropriate box)	EMPLOYEE	✓	THIRD PARTY	✓	VEHICLE		PLANT		PROPERTY	FREQUENCY X SEVERITY

NO	HAZARD	POSSIBLE CONSEQUENCES	PRE- CONTROL	CONTROL MEASURES	POST-CONTROL
1	Using Cut Off Grinder	Injury from flying debris/blade shattering	3 x 5 = 15 Very High	• Ensure only trained, experienced operatives are used • Abrasive Wheels Register in place. • Whenever possible establish exclusion zone, limiting personnel in area.	1 x 4 = 4 Low
		Eye injury	3 x 4 = 12 Very High	• Eye Protection must be worn to BS EN 166B Impact Grade 1	1 x 4 = 4 Low
		Damage to hearing		• Hearing protection to be worn to BS EN 352	
		Inhalation of dusts		• Good ventilation. If not then forced ventilation • All within exclusion zone to wear particle filter mask to BS EN 143	
		Cuts and abrasions		• Wear protective gloves to BS EN 374	
		Fire	3 x 5 = 15 Very High	• Hot work permit requested and issued. • Fire watchman in place c/w fire extinguishers. • Minimise combustible materials	1 x 4 = 4 Low

LIKELIHOOD		SCORE	SEVERITY OF: INJURY / DAMAGE OR LOSS		SCORE	RISK RATING		ACTION	TIMESCALE
Probable	= Likely to occur several times in the relevant period	3	Catastrophic	= Death or total systems loss	5				
			Critical	= Major injury or illness Major Damage Major environmental impact	4	Very High	10 – 15	Very High Risk - Not acceptable. Apply mitigation to eliminate or to further reduce the risk.	*Immediate* Action plan to progress reduction
Occasional	= Likely to occur at least once in relevant period	2	Serious	= Loss of time/injury Illness or damage Environmental Impact	3	High	5 – 9	High Risk - Apply mitigation to eliminate or reduce the risk, and if it remains a high risk, develop robust control measures to limit and manage the effects of any hazards.	*Progressively* Review risk & existing controls
Remote	= Unlikely to occur in the relevant period	1	Marginal	= First Aid Accident Routine Maintenance / Repair	2				
			Negligible	= Very Minor Little consequence	1	Low	1 – 4	Low Risk - May be accepted if all reasonably practicable control measures are in place, however, if more can be done to reduce or eliminate the risk, then it should be done.	*Continually* Monitor risks and existing controls

	SAFETY MANAGEMENT SYSTEM RISK ASSESSMENT				
		Contract	12-14 Greville Street	**RA Ref No**	010
		Client	Oakdean	**Rev**	00
		Activity	Demolition with Hand Tools	**Date**	15/02/19

ACTIVITY	DEMOLITION WITH HAND TOOLS										**RISK RATING**
Activity affecting (Tick appropriate box)	EMPLOYEE	✓	THIRD PARTY	✓	VEHICLE		PLANT		PROPERTY		FREQUENCY X SEVERITY

N0	HAZARD	POSSIBLE CONSEQUENCES	PRE- CONTROL	CONTROL MEASURES	POST-CONTROL
1	Demolition with hand tools	Injury from poorly maintained, wrongly used tools Eye injury from flying debris Inhalation of dusts Cuts and abrasions	3 x 4 = 12 Very High	• Ensure only trained, experienced operatives are used. • Operatives given briefing on work to be carried out. • Daily inspection of all tools to be carried out • Eye Protection must be worn to BS EN 166B Impact Grade 1 • Damp down to suppress dust • Good ventilation. If not then forced ventilation • All within work area to wear particle filter mask to BS EN 143 • Wear protective gloves to BS EN 374	1 x 4 = 4 Low
		Slips and trips	3 x 4 = 12 High	• Ensure that access/egress are kept clear • Ensure that Materials are stored correctly and removed as soon as practicable. • Ensure good level of lighting	1 x 4 = 4 Low

LIKELIHOOD		SCORE	SEVERITY OF: INJURY / DAMAGE OR LOSS		SCORE	RISK RATING		ACTION	TIMESCALE
Probable	= Likely to occur several times in the relevant period	3	Catastrophic	= Death or total systems loss	5	Very High	10 – 15	Very High Risk - Not acceptable. Apply mitigation to eliminate or to further reduce the risk.	*Immediate* Action plan to progress reduction
Occasional	= Likely to occur at least once in relevant period	2	Critical	= Major injury or illness Major Damage Major environmental impact	4				
Remote	= Unlikely to occur in the relevant period	1	Serious	= Loss of time/injury Illness or damage Environmental Impact	3	High	5 – 9	High Risk - Apply mitigation to eliminate or reduce the risk, and if it remains a high risk, develop robust control measures to limit and manage the effects of any hazards.	*Progressively* Review risk & existing controls
			Marginal	= First Aid Accident Routine Maintenance / Repair	2	Low	1 – 4	Low Risk - May be accepted if all reasonably practicable control measures are in place, however, if more can be done to reduce or eliminate the risk, then it should be done.	*Continually* Monitor risks and existing controls
			Negligible	= Very Minor Little consequence	1				

	SAFETY MANAGEMENT SYSTEM RISK ASSESSMENT				
		Contract	12-14 Greville Street	**RA Ref No**	012
		Client	Oakdean	**Rev**	00
		Activity	Working Around Holes and Leading Edges	**Date**	15/02/19

ACTIVITY	WORKING AROUND HOLES AND LEADING EDGES										**RISK RATING**
Activity affecting (Tick appropriate box)	EMPLOYEE	✓	THIRD PARTY	✓	VEHICLE		PLANT		PROPERTY		FREQUENCY X SEVERITY

N0	HAZARD	POSSIBLE CONSEQUENCES	PRE- CONTROL	CONTROL MEASURES	POST-CONTROL
1	Working Around Holes and Leading Edges	Materials Falling from Height Operatives falling	3 x 5 = 15 Very High	• Ensure only trained, experienced operatives are used. • Barriers are erected around all holes and across leading edges. • All barriers to have double handrails, and toe-boards • Where work involves leaning out beyond a barrier or leading edge, then full body harness must be worn with lanyard and or inertia reel device. An adequate anchorage must be provided/used. • Where leading edges are open during debris clearance then operatives must be clearly briefed and supervised. • A total exclusion zone should be established below holes and leading edges. Access below these areas must be strictly controlled.	1 x 4 = 4 Low

LIKELIHOOD		SCORE	SEVERITY OF: INJURY / DAMAGE OR LOSS		SCORE	RISK RATING		ACTION	TIMESCALE
Probable	= Likely to occur several times in the relevant period	3	Catastrophic	= Death or total systems loss	5	Very High	10 – 15	Very High Risk - Not acceptable. Apply mitigation to eliminate or to further reduce the risk.	*Immediate* Action plan to progress reduction
Occasional	= Likely to occur at least once in relevant period	2	Critical	= Major injury or illness Major Damage Major environmental impact	4				
Remote	= Unlikely to occur in the relevant period	1	Serious	= Loss of time/injury Illness or damage Environmental Impact	3	High	5 – 9	High Risk - Apply mitigation to eliminate or reduce the risk, and if it remains a high risk, develop robust control measures to limit and manage the effects of any hazards.	*Progressively* Review risk & existing controls
			Marginal	= First Aid Accident Routine Maintenance / Repair	2	Low	1 – 4	Low Risk - May be accepted if all reasonably practicable control measures are in place, however, if more can be done to reduce or eliminate the risk, then it should be done.	*Continually* Monitor risks and existing controls
			Negligible	= Very Minor Little consequence	1				

SAFETY MANAGEMENT SYSTEM RISK ASSESSMENT				
	Contract	12-14 Greville Street	RA Ref No	013
	Client	Oakdean	Rev	00
	Activity	Supervising Site Works	Date	15/02/19

ACTIVITY	SUPERVISING SITE WORKS									RISK RATING
Activity affecting (Tick appropriate box)	EMPLOYEE	✓	THIRD PARTY	✓	VEHICLE		PLANT		PROPERTY	FREQUENCY X SEVERITY

NO	HAZARD	POSSIBLE CONSEQUENCES	PRE- CONTROL	CONTROL MEASURES	POST-CONTROL
1	Supervising Site works	Personal injury due to being hit/entrapment by plant.	3 x 5 = 15 Very High	• Ensure exclusion zones are in place and they are complied with.	1 x 4 = 4 Low
		Eye injury due to flying debris.	3 x 4 = 12 Very High	• Everyone in proximity of activity to wear eye protection. Grade 1 Impact to BS EN 166B	1 x 4 = 4 Low
		Noise induced hearing loss.		• Ensure that exclusion zones are set up and complied with. • Restrict numbers inside zone. • Ensure all within zone wear hearing protection to BS EN 352	
		Slips and trips	3 x 3= 9 High	• Good standard of house-keeping. • Store materials in an appropriate manner. • Ensure adequate natural or task lighting is available.	1 x 3 = 3 Low
		Dust causing respiratory problems	3 x 4 = 12 Very High	• Ensure that dust is suppressed by damping down. • Ensure where appropriate that RPE particle masks are worn to BS EN 149	1 x 4 = 4 Low

LIKELIHOOD		SCORE	SEVERITY OF: INJURY / DAMAGE OR LOSS		SCORE	RISK RATING		ACTION	TIMESCALE
Probable	= Likely to occur several times in the relevant period	3	Catastrophic	= Death or total systems loss	5	Very High	10 – 15	Very High Risk - Not acceptable. Apply mitigation to eliminate or to further reduce the risk.	*Immediate* Action plan to progress reduction
Occasional	= Likely to occur at least once in relevant period	2	Critical	= Major injury or illness Major Damage Major environmental impact	4				
Remote	= Unlikely to occur in the relevant period	1	Serious	= Loss of time/injury Illness or damage Environmental Impact	3	High	5 – 9	High Risk - Apply mitigation to eliminate or reduce the risk, and if it remains a high risk, develop robust control measures to limit and manage the effects of any hazards.	*Progressively* Review risk & existing controls
			Marginal	= First Aid Accident Routine Maintenance / Repair	2				
			Negligible	= Very Minor Little consequence	1	Low	1 – 4	Low Risk - May be accepted if all reasonably practicable control measures are in place, however, if more can be done to reduce or eliminate the risk, then it should be done.	*Continually* Monitor risks and existing controls

SAFETY MANAGEMENT SYSTEM RISK ASSESSMENT				
	Contract	12-14 Greville Street	RA Ref No.	014
	Client	Oakdean	Rev	00
	Activity	Breaking Concrete Using a Hydraulic Breaker	Date	15/02/19

ACTIVITY	BREAKING CONCRETE USING A HYDRAULIC BREAKER									RISK RATING
Activity affecting (Tick appropriate box)	EMPLOYEE	✓	THIRD PARTY	✓	VEHICLE		PLANT		PROPERTY	FREQUENCY X SEVERITY

NO	HAZARD	POSSIBLE CONSEQUENCES	PRE- CONTROL	CONTROL MEASURES	POST-CONTROL
1	Breaking Concrete using a Hydraulic Breaker	Personal injury due to being hit/entrapped by plant.	3 x 5 = 15 Very High	• Only trained/competent operators to be used (CITB). • Ensure exclusion zones are in place with adequate solid barriers and signage.	1 x 4 = 4 Low
2		Eye injury due to flying debris.	3 x 4 = 12 Very High	• Exclude all other work within area. If necessary erect Debris netting screens to prevent flying debris.	1 x 4 = 4 Low
3		Damage to Hearing		• Ensure that exclusion zones are set up and complied with. • Restrict numbers inside zone. • Ensure all within zone wear hearing protection to BS EN 352	
4					
5		Dust created from breaking	3 x 3 = 9 High	• Use fine water mist to suppress dust. • All within work area to wear particle filter mask to BS EN 143	1 x 3 = 3 Low

LIKELIHOOD		SCORE	SEVERITY OF: INJURY / DAMAGE OR LOSS		SCORE	RISK RATING		ACTION	TIMESCALE
Probable	= Likely to occur several times in the relevant period	3	Catastrophic	= Death or total systems loss	5	Very High	10 – 15	Very High Risk - Not acceptable. Apply mitigation to eliminate or to further reduce the risk.	*Immediate* Action plan to progress reduction
Occasional	= Likely to occur at least once in relevant period	2	Critical	= Major injury or illness Major Damage Major environmental impact	4				
Remote	= Unlikely to occur in the relevant period	1	Serious	= Loss of time/injury Illness or damage Environmental Impact	3	High	5 – 9	High Risk - Apply mitigation to eliminate or reduce the risk, and if it remains a high risk, develop robust control measures to limit and manage the effects of any hazards.	*Progressively* Review risk & existing controls
			Marginal	= First Aid Accident Routine Maintenance / Repair	2				
			Negligible	= Very Minor Little consequence	1	Low	1 – 4	Low Risk - May be accepted if all reasonably practicable control measures are in place, however, if more can be done to reduce or eliminate the risk, then it should be done.	*Continually* Monitor risks and existing controls

CIKU	**SAFETY MANAGEMENT SYSTEM RISK ASSESSMENT**	**Contract**	12-14 Greville Street	**RA Ref No**	016
		Client	Oakdean	**Rev**	00
		Activity	Plant Movement Around Site	**Date**	15/02/19

ACTIVITY:	PLANT MOVEMENT AROUND SITE										RISK RATING
Activity affecting (Tick appropriate box)		EMPLOYEE	✓	THIRD PARTY	✓	VEHICLE		PLANT		PROPERTY	FREQUENCY X SEVERITY

NO	HAZARD	POSSIBLE CONSEQUENCES	PRE- CONTROL	CONTROL MEASURES	POST-CONTROL
1	Plant Movement around site.	Persons being trapped/ hit by Plant	3 x 5 = 15 Very High	• Exclude all pedestrians from area. Wherever practicable areas to be barriered off and signed. • Only trained/competent operators to be used (CITB). • All movements controlled by dedicated trained banksman.	1 x 4 = 4 Low
		Overturning Plant		• Only trained/competent operators to be used (CITB). • All movements controlled by dedicated trained banksman • Ensure that Plant is in good repair and well maintained. • Ensure that route to be travelled is clear of obstructions, reasonably level, not liable to move/subside.	
		Damage to assets by Plant	3 x 5 = 15 Very High	• Operatives to be tool box talked on the importance of not using Plant within 2m of boundary wall. • Exclusion zone set up using Hazard tape to prevent excavators from encroaching near assets	1 x 4 = 4 Low

LIKELIHOOD		SCORE	SEVERITY OF: INJURY / DAMAGE OR LOSS		SCORE	RISK RATING		ACTION	TIMESCALE
Probable	= Likely to occur several times in the relevant period	3	Catastrophic	= Death or total systems loss	5	Very High	10 – 15	Very High Risk - Not acceptable. Apply mitigation to eliminate or to further reduce the risk.	*Immediate* Action plan to progress reduction
Occasional	= Likely to occur at least once in relevant period	2	Critical	= Major injury or illness Major Damage Major environmental impact	4				
Remote	= Unlikely to occur in the relevant period	1	Serious	= Loss of time/injury Illness or damage Environmental Impact	3	High	5 – 9	High Risk - Apply mitigation to eliminate or reduce the risk, and if it remains a high risk, develop robust control measures to limit and manage the effects of any hazards.	*Progressively* Review risk & existing controls
			Marginal	= First Aid Accident Routine Maintenance / Repair	2				
			Negligible	= Very Minor Little consequence	1	Low	1 – 4	Low Risk - May be accepted if all reasonably practicable control measures are in place, however, if more can be done to reduce or eliminate the risk, then it should be done.	*Continually* Monitor risks and existing controls

CIKU	**SAFETY MANAGEMENT SYSTEM RISK ASSESSMENT**	**Contract:**	12-14 Greville Street	**RA Ref No:**	018
		Client:	Oakdean	**Rev:**	00
		Activity:	Demolition using an Excavator	**Date:**	15/02/19

ACTIVITY:	DEMOLITION USING AN EXCAVATOR										RISK RATING
Activity affecting (Tick appropriate box)		EMPLOYEE	✓	THIRD PARTY	✓	VEHICLE		PLANT		PROPERTY	FREQUENCY X SEVERITY

NO	HAZARD	POSSIBLE CONSEQUENCES	PRE- CONTROL	CONTROL MEASURES	POST-CONTROL
1	Demolition using an Excavator	Personal injury due to being hit/entrapped by plant.	3 x 5 = 15 Very High	Only trained/competent operators to be used (CITB). Ensure exclusion zones are in place with adequate solid barriers and signage.	1 x 4 = 4 Low
		Eye injury due to flying debris.	3 x 4 = 12 Very High	Excavator to have 360 vision Exclude all other work within area. Use suitable demolition attachments. If necessary erect Debris netting screens to prevent flying debris. Ensure that exclusion zones are set up and complied with. Restrict numbers inside zone. Ensure all within zone wear hearing protection to BS EN 352	1 x 4 = 4 Low
		Damage to Hearing			
		Dust created from breaking	3 x 3 = 9 High	Use fine water mist to suppress dust. All within work area to wear particle filter mask to BS EN 143	1 x 3 = 3 Low
		Unplanned collapse	1 x 5 = 10 Very High	Work areas to accessed prior to works commencing to safe working system	1 x 4 = 4 Low

LIKELIHOOD		SCORE	SEVERITY OF: INJURY / DAMAGE OR LOSS		SCORE	RISK RATING		ACTION	TIMESCALE
Probable	= Likely to occur several times in the relevant period	3	Catastrophic	= Death or total systems loss	5	Very High	10 – 15	Very High Risk - Not acceptable. Apply mitigation to eliminate or to further reduce the risk.	*Immediate* Action plan to progress reduction
Occasional	= Likely to occur at least once in relevant period	2	Critical	= Major injury or illness Major Damage Major environmental impact	4				
Remote	= Unlikely to occur in the relevant period	1	Serious	= Loss of time/injury Illness or damage Environmental Impact	3	High	5 – 9	High Risk - Apply mitigation to eliminate or reduce the risk, and if it remains a high risk, develop robust control measures to limit and manage the effects of any hazards.	*Progressively* Review risk & existing controls
			Marginal	= First Aid Accident Routine Maintenance / Repair	2				
			Negligible	= Very Minor Little consequence	1	Low	1 – 4	Low Risk - May be accepted if all reasonably practicable control measures are in place, however, if more can be done to reduce or eliminate the risk, then it should be done.	*Continually* Monitor risks and existing controls

	SAFETY MANAGEMENT SYSTEM RISK ASSESSMENT				
		Contract:	12 – 14 Greville Street	RA Ref No:	022
		Client:	Oakdean	Rev:	00
		Activity:	Sinking Shafts	Date:	27/02/19

ACTIVITY:	SINKING SHAFTS									RISK RATING
Activity affecting (Tick appropriate box)	EMPLOYEE	✓	THIRD PARTY	✓	VEHICLE		PLANT		PROPERTY	FREQUENCY X SEVERITY

NO	HAZARD	POSSIBLE CONSEQUENCES	PRE- CONTROL	CONTROL MEASURES	POST-CONTROL
1	Working Around Holes open edges	Fall of Persons from Height Materials Falling From Height	3 x 5 = 15 Very High	• Ensure only trained, experienced operatives are used. • Barriers are erected around all holes. • All barriers to have double handrails, and toe-boards • Where work involves leaning out beyond a barrier or open edge, then full body harness must be worn with lanyard and or inertia reel device. An adequate anchorage must be provided/used. • Where edges are open during debris clearance then operatives must be clearly briefed and supervised. • Area around tops of shafts must be kept clear of materials arisings • Tied ladder accesses to be provided with secure landings as necessary • Ensure the shaft propping is installed as per designed system. • Ensure that excavations are inspected on a daily basis • Ensure only trained, experienced operatives are used. • All personnel involved must be briefed on contents of method statement and risk assessment. • Establish regime of gas monitoring. • Establish forced ventilation if necessary. NOTE. Any alarm of gas monitor will necessitate review of risk assessment with full confined space controls being implemented.	1 x 4 = 4 Low
2	Collapse of excavation	Crush injuries, entrapment			
3	Restricted working area.	Collapse of personnel working in shaft.			

LIKELIHOOD			SCORE	SEVERITY OF: INJURY / DAMAGE OR LOSS			SCORE	RISK RATING		ACTION	TIMESCALE
Probable	=	Likely to occur several times in the relevant period	3	Catastrophic	=	Death or total systems loss	5	Very High	10 – 15	Very High Risk - Not acceptable. Apply mitigation to eliminate or to further reduce the risk.	*Immediate* Action plan to progress reduction
Occasional	=	Likely to occur at least once in relevant period	2	Critical	=	Major injury or illness Major Damage Major environmental impact	4				
Remote	=	Unlikely to occur in the relevant period	1	Serious	=	Loss of time/injury Illness or damage Environmental Impact	3	High	5 – 9	High Risk - Apply mitigation to eliminate or reduce the risk, and if it remains a high risk, develop robust control measures to limit and manage the effects of any hazards.	*Progressively* Review risk & existing controls
				Marginal	=	First Aid Accident Routine Maintenance / Repair	2	Low	1 – 4	Low Risk - May be accepted if all reasonably practicable control measures are in place, however, if more can be done to reduce or eliminate the risk, then it should be done.	*Continually* Monitor risks and existing controls
				Negligible	=	Very Minor Little consequence	1				

	SAFETY MANAGEMENT SYSTEM RISK ASSESSMENT				
		Contract	12-14 Greville Street	RA Ref No	028
		Client	Oakdean	Rev	00
		Activity	Using Reciprocating Saws	Date	15/02/19

ACTIVITY	USING RECIPROCATING SAWS									RISK RATING
Activity affecting (Tick appropriate box)	EMPLOYEE	✓	THIRD PARTY	✓	VEHICLE		PLANT		PROPERTY	FREQUENCY X SEVERITY

NO	HAZARD	POSSIBLE CONSEQUENCES	PRE- CONTROL	CONTROL MEASURES	POST-CONTROL
1	Using Reciprocating Saws	Injury from flying debris/blade shattering	3 x 5 = 15 Very High	• Ensure only trained, experienced operatives are used • Whenever possible establish exclusion zone, limiting personnel in area.	1 x 4 = 4 Low
		Eye injury	3 x 4 = 12 Very High	• Eye Protection must be worn to BS EN 166B Impact Grade 1	1 x 4 = 4 Low
		Damage to hearing		• Hearing protection to be worn to BS EN 352	
		Inhalation of dusts		• Good ventilation. If not then forced ventilation • All within exclusion zone to wear particle filter mask to BS EN 143	
		Cuts and abrasions		• Wear protective gloves to BS EN 374	

LIKELIHOOD			SCORE	SEVERITY OF: INJURY / DAMAGE OR LOSS			SCORE	RISK RATING		ACTION	TIMESCALE
Probable	=	Likely to occur several times in the relevant period	3	Catastrophic	=	Death or total systems loss	5	Very High	10 – 15	Very High Risk - Not acceptable. Apply mitigation to eliminate or to further reduce the risk.	*Immediate* Action plan to progress reduction
Occasional	=	Likely to occur at least once in relevant period	2	Critical	=	Major injury or illness Major Damage Major environmental impact	4				
Remote	=	Unlikely to occur in the relevant period	1	Serious	=	Loss of time/injury Illness or damage Environmental Impact	3	High	5 – 9	High Risk - Apply mitigation to eliminate or reduce the risk, and if it remains a high risk, develop robust control measures to limit and manage the effects of any hazards.	*Progressively* Review risk & existing controls
				Marginal	=	First Aid Accident Routine Maintenance / Repair	2	Low	1 – 4	Low Risk - May be accepted if all reasonably practicable control measures are in place, however, if more can be done to reduce or eliminate the risk, then it should be done.	*Continually* Monitor risks and existing controls
				Negligible	=	Very Minor Little consequence	1				

Appendix B – COSHH

No.	COSHH Assessment
001	Diesel
002	Oxygen
003	Propane
004	Grease
006	Hydraulic Fluid
009	Petrol
021	Dust

COSHH Risk Assessment Record			Ref: 001
Project/Premises:	12-14 Greville Street	Company:	Generic
Substance/Material:	Diesel	Hazardous Contents:	Hydrocarbon mixture

						
Harmful	Hazardous to Environmental					

Process:	Pumping/Pouring	Activity:	Fuel

Frequency of exposure	Once a day	Duration of exposure	Once a day

Risk To Health
Harmful by inhalation. Harmful if swallowed. Irritating to eyes. Possible risks of irreversible. Skin, irritation and dermatitis may result from prolonged contact.

Control Measures
Wear Nitrile Gloves. Keep skin covered (over-alls). Wear eye goggles if splash likely. Work in well ventilated area. No smoking, eating or drinking. Wash after contact. Change clothes if heavily soiled.

Storage	Disposal
Store away from heat and source of ignition. Containers should not be left unsealed. Wear hand protection.	Dispose of in accordance with Local Authority Regulations

Spillage	Fire Information
Ventilate area. Shut off at source. Eliminate all sources of ignition. Absorb in sand/spill kit. Collect in container and keep sealed.	Toxic fumes are produced if product burns. Wear self-contained breathing apparatus. Powder – Foam – Carbon Dioxide. **Do Not Use Water.**

First Aid	
Eye Contact	Inhalation
Irrigate with plenty of water for at least 15 minutes. If irritation persists seek medical advice.	Remove to fresh air and rest. After significant exposure call for medical assistance.
Skin Contact	Ingestion
Wash with soap/cleanser and rinse with plenty of water.	Do not induce vomiting. Drink plenty of water. Get prompt medical attention.

Other Controls	Monitoring	Health Surveillance
	Record Attached ☐ Not Applicable ☑	Record Attached ☐ Not Applicable ☑

Training/Instruction Required			
Verbal Instruction		Written Instruction	
Tool Box Talk		Specialist Training	

Assessed by:	Michael O'Donnell	Date:	

COSHH Risk Assessment Record			Ref: 002
Project/Premises:	12-14 Greville Street	Company:	Generic
Substance/Material:	Oxygen	Hazardous Contents:	Low Hazard

						
Flammable	Compressed Gas					

Process:	Burning & Cutting	Activity:	Used as fuel for burning & cutting works

Frequency of exposure	Daily	Duration of exposure	Possibly whole shift (8 hours)

Risk To Health
May explode on contact with heat or oxidisable materials.

Control Measures
When using do not smoke. Flash back arrester fitted to bottles. Regular daily checks of all hoses.

Storage	Disposal
Store away from heat and source of ignition. Stored in appropriate marked cages.	Not applicable

Spillage	Fire Information
Not Applicable	Alchohol Resistant Foam (Cream)

First Aid	
Eye Contact	Inhalation
Not Applicable	Not Applicable
Skin Contact	Ingestion
Not Applicable	Not Applicable

Other Controls	Monitoring		Health Surveillance	
	Record Attached ☐	Not Applicable ✓	Record Attached ☐	Not Applicable ✓

Training/Instruction Required			
Verbal Instruction		Written Instruction	
Tool Box Talk		Specialist Training	

Assessed by:	Michael O'Donnell	Date:	

COSHH Risk Assessment Record			Ref: 003
Project/Premises:	12-14 Greville Street	Company:	Generic
Substance/Material:	Propane	Hazardous Contents:	Liquified Petroleum

						
Flammable	Compressed Gas					

Process:	Burning & Cutting	Activity:	Used for burning & cutting works

Frequency of exposure	Daily	Duration of exposure	Possibly whole shift (8 hours)

Risk To Health
Extremely flammable liquefied gas.

Control Measures
Always use in well ventilated areas. When using do not smoke, eat or drink. Flash back arrester fitted to bottles. Regular daily checks of all hoses. Precautionary measures to be taken to avoid static discharges. Protect hands (leather gloves).

Storage	Disposal
Store away from heat and source of ignition. Stored in appropriate well ventilated marked cages.	Not applicable

Spillage	Fire Information
Evacuate area. Ventilate area. Eliminate all sources of ignition.	Call fire brigade. Shut of at source. Keep containers cool with water spray.

First Aid	
Eye Contact	Inhalation
Not Applicable	Remove to fresh air and rest. After significant exposure call for medical assistance immediately.
Skin Contact	Ingestion
Not Applicable	Not Applicable

Other Controls	Monitoring		Health Surveillance	
	Record Attached ☐	Not Applicable ☑	Record Attached ☐	Not Applicable ☑

Training/Instruction Required			
Verbal Instruction		Written Instruction	
Tool Box Talk		Specialist Training	

Assessed by:	Michael O'Donnell	Date:	

COSHH Risk Assessment Record				Ref:	004
Project/Premises:	12-14 Greville Street		Company:	Generic	
Substance/Material:	Grease (mineral)		Hazardous Contents:	Mineral Oils	

						
Irritant						

Process:	Lubrication	Activity:	Lubricating plant using grease gun

Frequency of exposure	Daily	Duration of exposure	>30 minutes

Risk To Health
Used mineral oil may cause skin cancer. May be harmful if ingested in quantity. Mildly irritating to eyes. Prolonged contact may cause skin irritation or dermatitis.

Control Measures
Always use in well ventilated areas. Do not breathe mists. When using do not smoke, eat or drink. Wear Nitrile Gloves. Keep skin covered (over-alls). Wear eye goggles if splash likely. Wash after contact. Change clothes if heavily soiled.

Storage	Disposal
Store away from heat and source of ignition.	Dispose of in accordance with Local Authority Regulations.

Spillage	Fire Information
Absorb in sand or inert absorbent material. Collect in container and seal. Clean with detergents. Vitrile rubber gloves to be worn.	Toxic fumes are produced if product burns. Wear self-contained breathing apparatus. Powder – Foam – Carbon Dioxide. **Do Not Use Water.**

First Aid	
Eye Contact	**Inhalation**
Irrigate with plenty of water for at least 15 minutes. If irritation persists seek medical advice.	Remove to fresh air and rest.
Skin Contact	**Ingestion**
Wash with soap/cleanser and rinse with plenty of water.	Do not induce vomiting. Drink plenty of water. Get prompt medical attention if exposure significant. High pressure injection of grease into skin must be immediately refered to hospital.

Other Controls	Monitoring	Health Surveillance
	Record Attached ☐ Not Applicable ☑	Record Attached ☐ Not Applicable ☑

Training/Instruction Required			
Verbal Instruction		Written Instruction	
Tool Box Talk		Specialist Training	

Assessed by:		Date:	

COSHH Risk Assessment Record			Ref: 006
Project/Premises:	12-14 Greville Street	Company:	Generic
Substance/Material:	Hydraulic Fluid	Hazardous Contents:	Polyalkylene glycol, ether, additives

						
Harmful						

Process:		Activity:	Charging Hydraulic systems on plant.
Frequency of exposure	Once a day	Duration of exposure	>30 minutes

Risk To Health
Harmful if swallowed. Irritating to eyes and skin.

Control Measures
Wear Nitrile Gloves. Keep skin covered (over-alls). Wear eye goggles if splash likely. Work in well ventilated area. No smoking, eating or drinking. Wash after contact. Change clothes if heavily soiled.

Storage	Disposal
Store away from heat and source of ignition. Containers should not be left unsealed. Wear hand protection.	Dispose of in accordance with Local Authority Regulations.

Spillage	Fire Information
Absorb in sand or inert absorbant material. Collect in container and keep sealed. Do not allow to enter drains/sewers/watercourses. PVC gloves to be worn	Toxic fumes are produced if product burns. Wear self-contained breathing apparatus. Powder – Foam – Carbon Dioxide. **Do Not Use Water.**

First Aid	
Eye Contact	Inhalation
Irrigate with plenty of water for at least 15 minutes. If irritation persists seek medical advice.	Not applicable
Skin Contact	Ingestion
Wash with soap/cleanser and rinse with plenty of water.	Do not induce vomiting. Drink plenty of water. Get prompt medical attention.

Other Controls	Monitoring		Health Surveillance	
	Record Attached ☐	Not Applicable ☑	Record Attached ☐	Not Applicable ☑

Training/Instruction Required			
Verbal Instruction		Written Instruction	
Tool Box Talk		Specialist Training	

Assessed by:		Date:	

COSHH Risk Assessment Record			Ref: 009
Project/Premises:	12-14 Greville Street	Company:	Generic
Substance/Material:	Petrol	Hazardous Contents:	Hydrocarbon mixture incl. benzene

						
Harmful	Flammable					

Process:		Activity:	Fuelling small tools

Frequency of exposure	Once a day	Duration of exposure	>30 minutes

Risk To Health
Highly flammable. Harmful by inhalation. Harmful if swallowed. Irritating to eyes. Possible risks of irreversible. Skin, irritation and dermatitis may result from prolonged contact.

Control Measures
Wear Nitrile Gloves. Keep skin covered (over-alls). Wear eye goggles if splash likely. Work in well ventilated area. No smoking, eating or drinking. Wash after contact. Change clothes if heavily soiled.

Storage	Disposal
Store away from heat and source of ignition. Containers should not be left unsealed. Store in lockable, well ventilated cage/box.	Dispose of in accordance with Local Authority Regulations.

Spillage	Fire Information
Ventilate area. Shut off at source. Eliminate all sources of ignition. Absorb in sand or inert absorbant material. Collect in container and keep sealed. Wear nitrile rubber gloves. Do not allow spillage to enter drain/sewer/water course.	Toxic fumes are produced if product burns. Wear self-contained breathing apparatus. Powder – Foam – Carbon Dioxide. Do Not Use Water.

First Aid	
Eye Contact	Inhalation
Irrigate with plenty of water for at least 15 minutes. If irritation persists seek medical advice.	Remove to fresh air and rest.
Skin Contact	Ingestion
Wash with soap/cleanser and rinse with plenty of water.	Do not induce vomiting. Drink plenty of water. Get prompt medical attention.

Other Controls	Monitoring	Health Surveillance
	Record Attached ☐ Not Applicable ☑	Record Attached ☐ Not Applicable ☑

Training/Instruction Required			
Verbal Instruction		Written Instruction	
Tool Box Talk		Specialist Training	

Assessed by:	Michael O'Donnell	Date:	

COSHH Risk Assessment Record			Ref:	021

Project/Premises:	12-14 Greville Street	Company:	Generic
Substance/Material:	Dust	Hazardous Contents:	Cement, Aggregate

						
Health Hazard						

Process:	Breaking	Activity:	Breaking with Hand Held Tools

Frequency of exposure	Daily	Duration of exposure	Up to 4 hours

Risk To Health
Can cause allergic dermatitis through contact with cromates. Can cause Burns/skin ulceration. Contact can cause irritant contact dermatitis. Irritaing to eyes and respiratory system. Inhalation of respirable Quartz causes long term hazard.

Control Measures
Disposable P3 face mask. Eye goggles. Rubber gloves and boots. Cover skin. When using do not smoke, eat or drink. Wash after contact. Damp down then sweep up.

Storage	Disposal
Not applicable	Dispose of in accordance with Local Authority Regulations

Spillage	Fire Information
Wear rubber gloves,boots and protective over-alls. Do not dry sweep. Damp down and vacuum to clear.	Non combustible material.

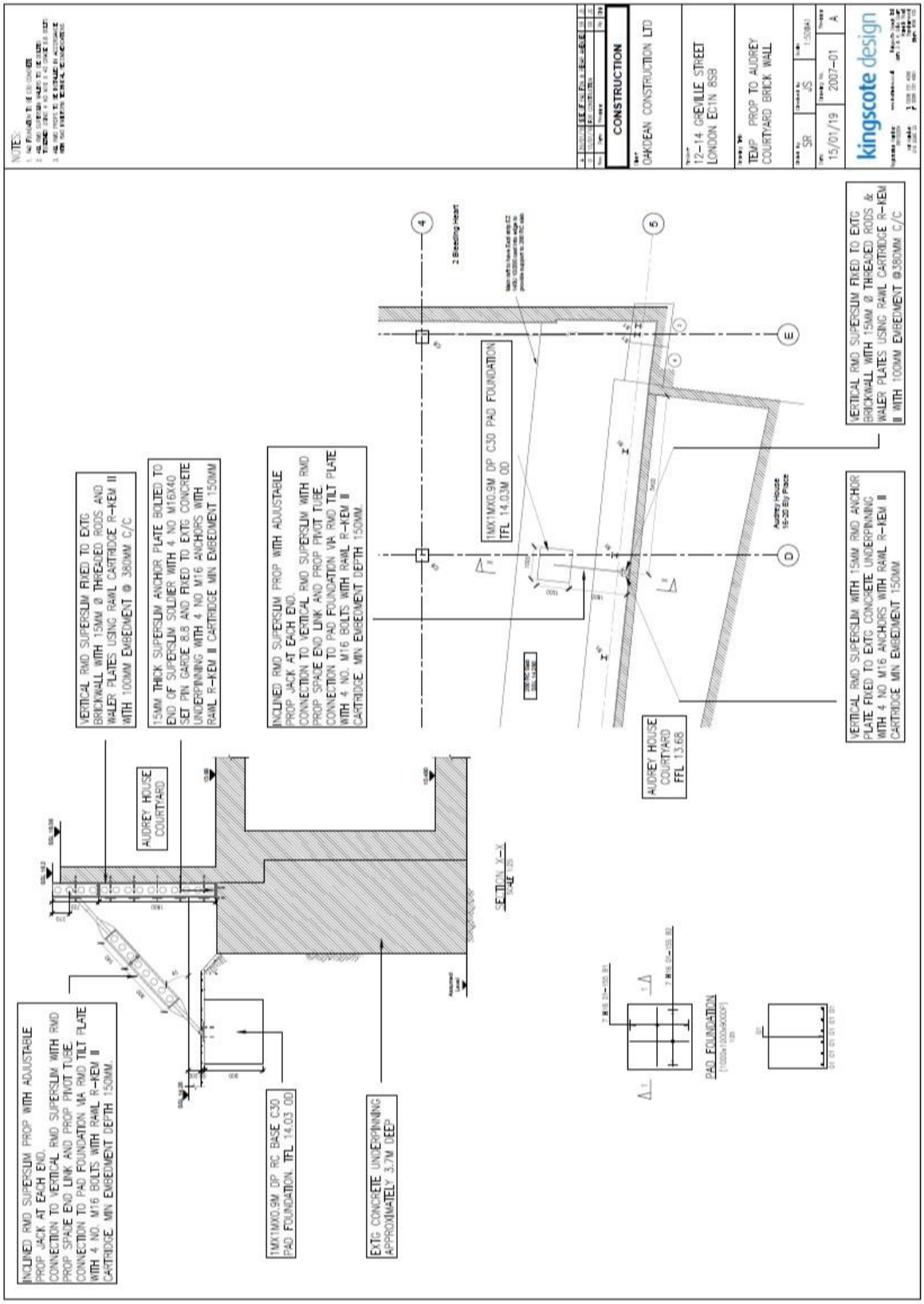
First Aid	
Eye Contact	Inhalation
Irrigate with plenty of water for at least 15 minutes. If irritation persists seek medical advice.	Remove to fresh air and rest.
Skin Contact	Ingestion
Wash with soap/cleanser and rinse with plenty of water.	Drink plenty of water.

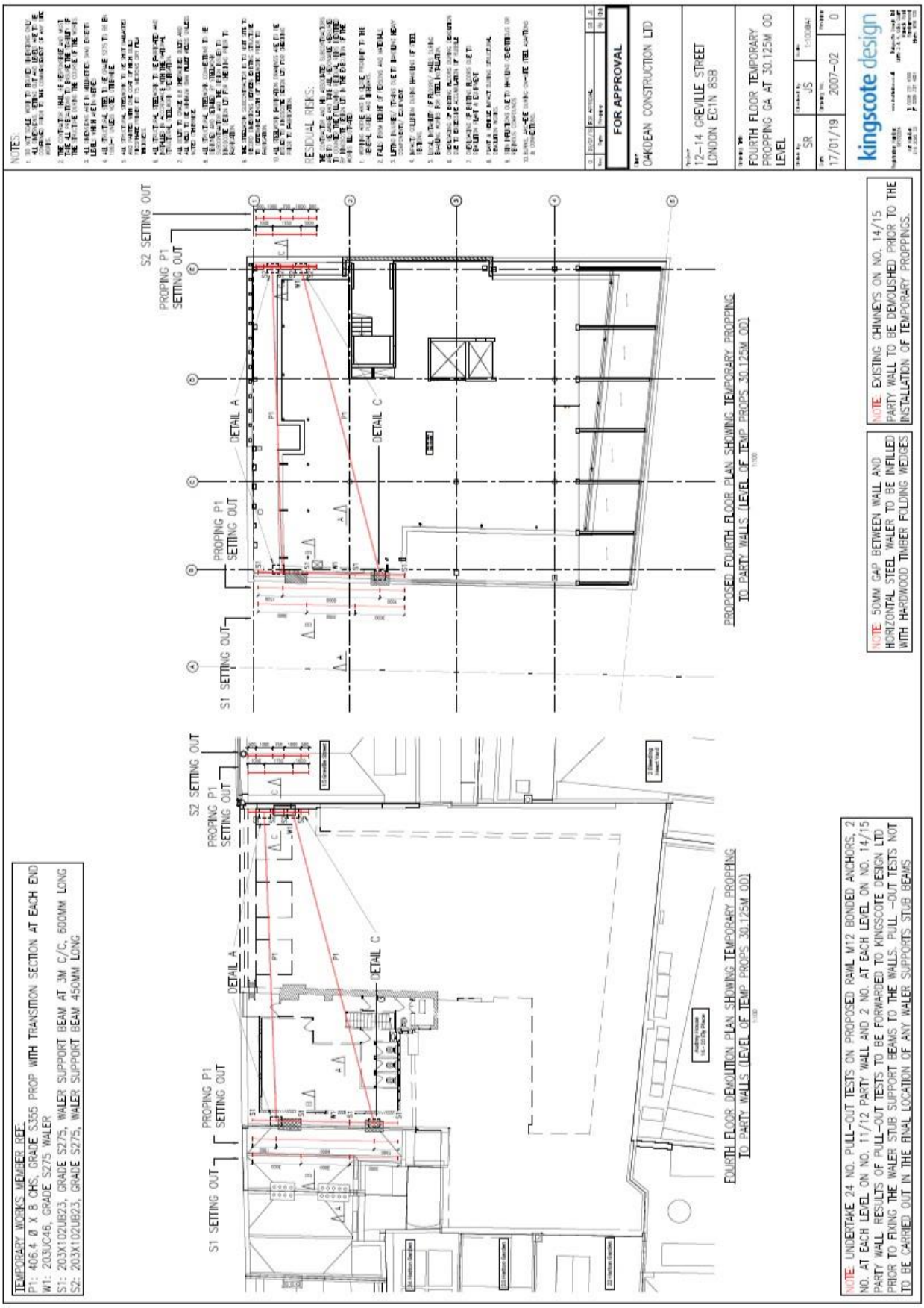
Other Controls	Monitoring	Health Surveillance
	Record Attached ☐ Not Applicable ☑	Record Attached ☐ Not Applicable ☑

Training/Instruction Required			
Verbal Instruction		Written Instruction	
Tool Box Talk		Specialist Training	

Assessed by:	Michael O'Donnell	Date:	

Appendix C – Temporary Works Drawings

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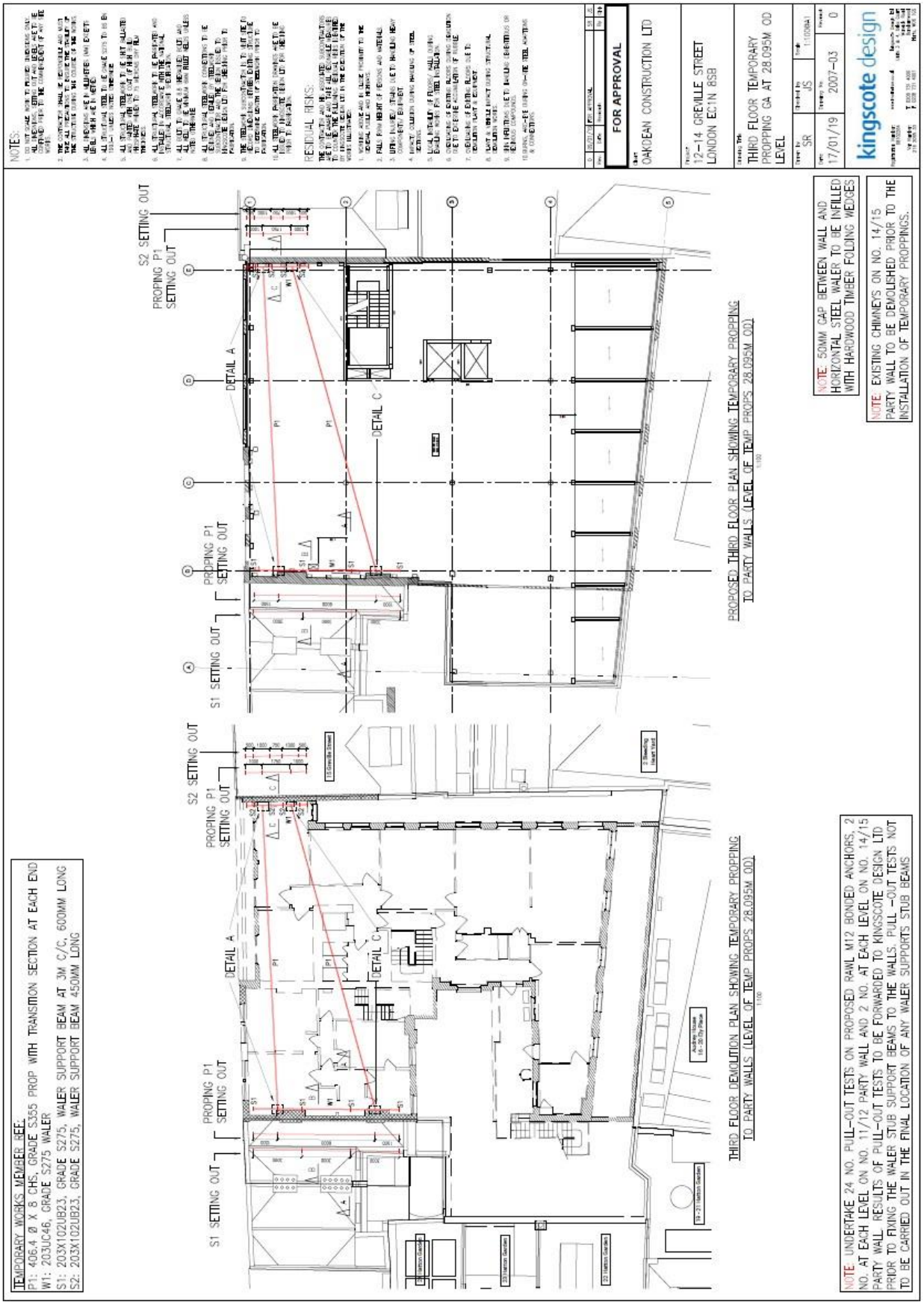
RESIDUAL RISKS:
FOR APPROVAL
OAKDEAN CONSTRUCTION LTD
12-14 GREVILLE STREET
LONDON EC1N 8SB
FOURTH FLOOR TEMPORARY PROPPING GA AT 30.125M OD LEVEL
SR
JS
17/01/19
2007-02
0
kingscote design
S2 SETTING OUT
PROPING P1 SETTING OUT
S1 SETTING OUT
DETAIL A
DETAIL C
PROPOSED FOURTH FLOOR PLAN SHOWING TEMPORARY PROPPING TO PARTY WALLS (LEVEL OF TEMP PROPS 30.125M OD)
NOTE: EXISTING CHIMNEYS ON NO. 14/15 PARTY WALL TO BE DEMOLISHED PRIOR TO THE INSTALLATION OF TEMPORARY PROPPINGS.
NOTE: 50MM GAP BETWEEN WALL AND HORIZONTAL STEEL WALER TO BE INFILLED WITH HARDWOOD TIMBER FOLDING WEDGES
TEMPORARY WORKS MEMBER REF.
P1: 406.4 Ø X 8 CHS, GRADE S355 PROP WITH TRANSITION SECTION AT EACH END
W1: 203UC46, GRADE S275 WALER
S1: 203X102UB23, GRADE S275, WALER SUPPORT BEAM AT 3M C/C, 600MM LONG
S2: 203X102UB23, GRADE S275, WALER SUPPORT BEAM 450MM LONG
NOTE: UNDERTAKE 24 NO. PULL-OUT TESTS ON PROPOSED RAWL M12 BONDED ANCHORS, 2 NO. AT EACH LEVEL ON NO. 11/12 PARTY WALL AND 2 NO. AT EACH LEVEL ON NO. 14/15 PARTY WALL RESULTS OF PULL-OUT TESTS TO BE FORWARDED TO KINGSCOTE DESIGN LTD PRIOR TO FIXING THE WALER STUB SUPPORT BEAMS TO THE WALLS. PULL -OUT TESTS NOT TO BE CARRIED OUT IN THE FINAL LOCATION OF ANY WALER SUPPORTS STUB BEAMS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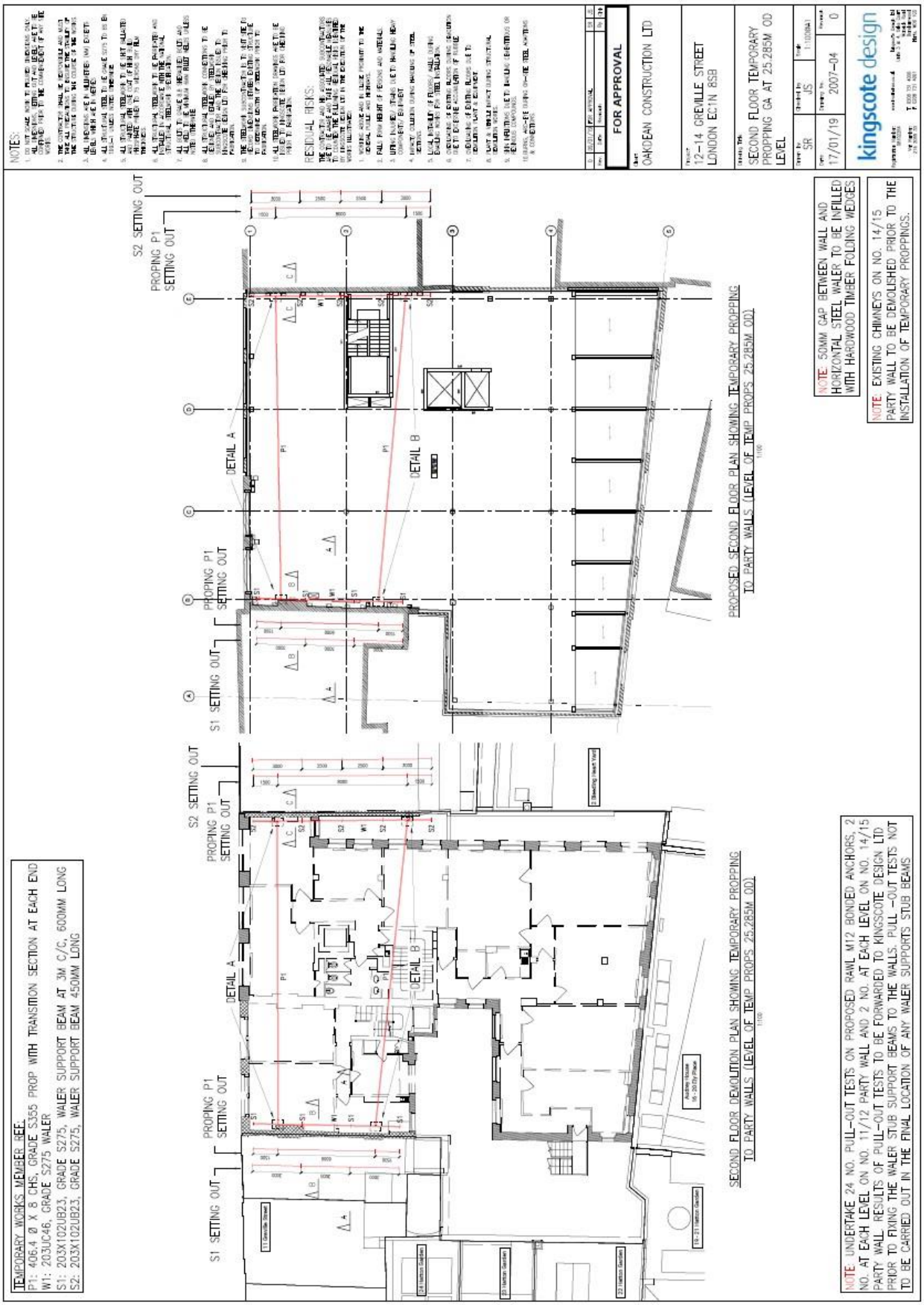
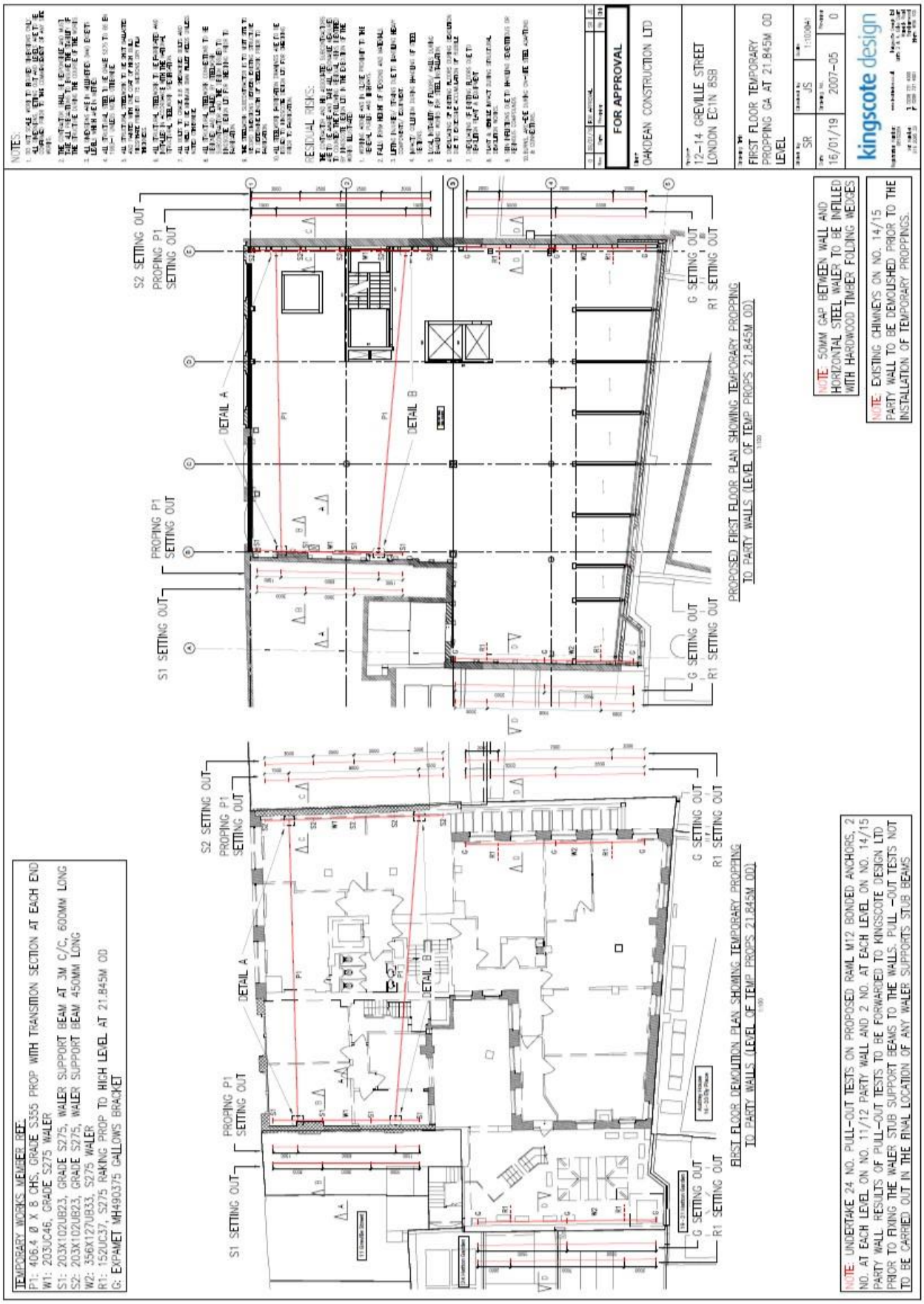
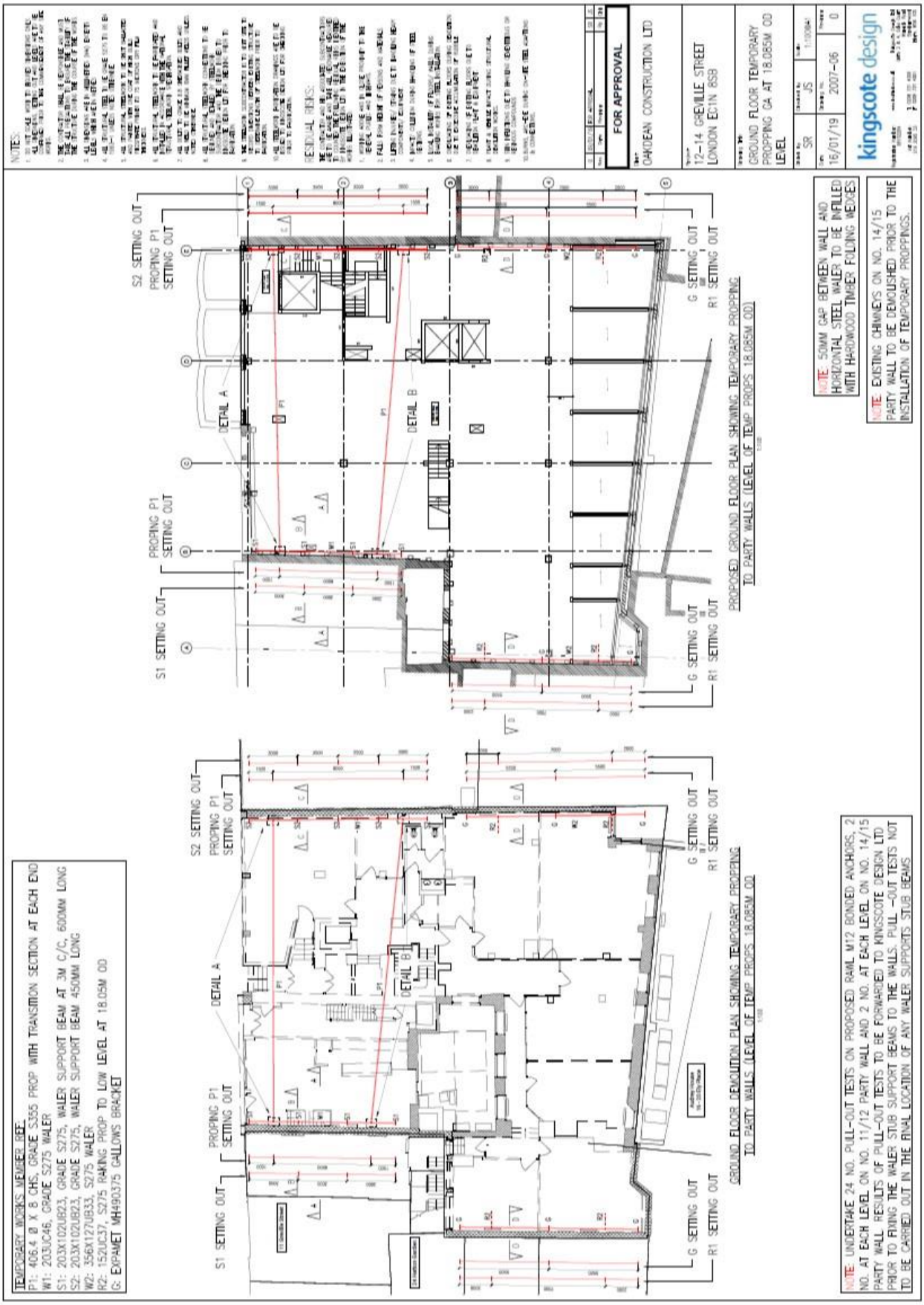
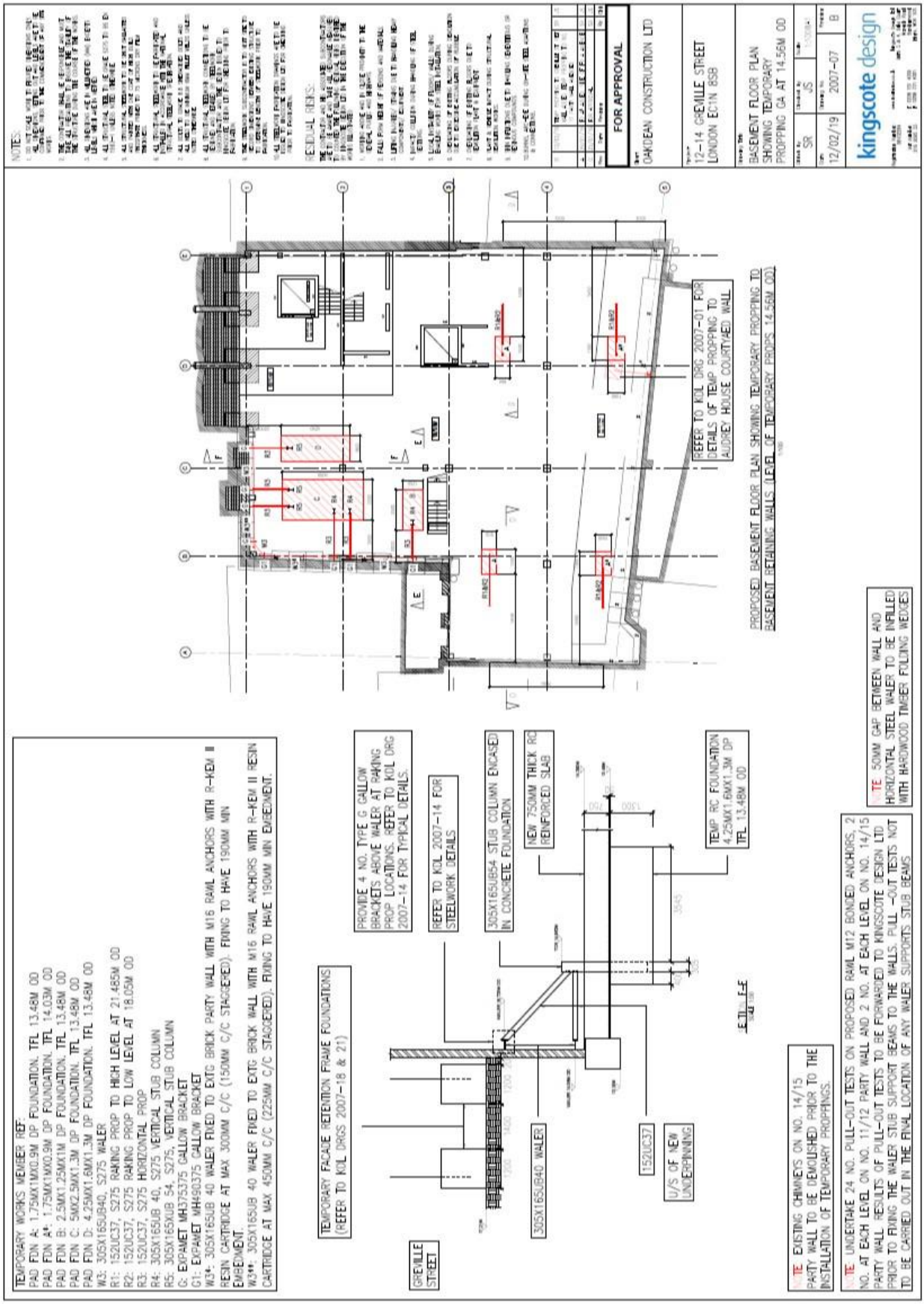
RESIDUAL RISKS:
FOR APPROVAL
OAKDEAN CONSTRUCTION LTD
12-14 GREVILLE STREET
LONDON EC1N 8SB
THIRD FLOOR TEMPORARY
PROPPING GA AT 28.095M OD
LEVEL
17/01/19
2007-03
kingscote design
TEMPORARY WORKS MEMBER SIZE
P1: 406.4 Ø X 8 CHS, GRADE S355 PROP WITH TRANSITION SECTION AT EACH END
W1: 203UC46, GRADE S275 WALER
S1: 203X102UB23, GRADE S275, WALER SUPPORT BEAM AT 3M C/C, 600MM LONG
S2: 203X102UB23, GRADE S275, WALER SUPPORT BEAM 450MM LONG
S2 SETTING OUT
PROPING P1 SETTING OUT
S1 SETTING OUT
DETAIL A
DETAIL C
PROPOSED THIRD FLOOR PLAN SHOWING TEMPORARY PROPPING TO PARTY WALLS (LEVEL OF TEMP PROPS 28.095M OD)
THIRD FLOOR DEMOLITION PLAN SHOWING TEMPORARY PROPPING TO PARTY WALLS (LEVEL OF TEMP PROPS 28.095M OD)
NOTE: 50MM GAP BETWEEN WALL AND HORIZONTAL STEEL WALER TO BE INFILLED WITH HARDWOOD TIMBER FOLDING WEDGES
NOTE: EXISTING CHIMNEYS ON NO. 14/15 PARTY WALL TO BE DEMOLISHED PRIOR TO THE INSTALLATION OF TEMPORARY PROPPINGS.
NOTE: UNDERTAKE 24 NO. PULL-OUT TESTS ON PROPOSED RAWL M12 BONDED ANCHORS, 2 NO. AT EACH LEVEL ON NO. 11/12 PARTY WALL AND 2 NO. AT EACH LEVEL ON NO. 14/15 PARTY WALL. RESULTS OF PULL-OUT TESTS TO BE FORWARDED TO KINGSCOTE DESIGN LTD PRIOR TO FIXING THE WALER STUB SUPPORT BEAMS TO THE WALLS. PULL-OUT TESTS NOT TO BE CARRIED OUT IN THE FINAL LOCATION OF ANY WALER SUPPORTS STUB BEAMS


NOTE:
RESIDUAL RISKS:
FOR APPROVAL
OAKDEAN CONSTRUCTION LTD
12–14 GREVILLE STREET
LONDON EC1N 8SB
SECOND FLOOR TEMPORARY PROPPING GA AT 25.285M OD LEVEL
17/01/19
2007–04
kingscote design
S2 SETTING OUT
PROPING P1 SETTING OUT
S1 SETTING OUT
DETAIL A
DETAIL B
PROPOSED SECOND FLOOR PLAN SHOWING TEMPORARY PROPPING TO PARTY WALLS (LEVEL OF TEMP PROPS 25.285M OD)
SECOND FLOOR DEMOLITION PLAN SHOWING TEMPORARY PROPPING TO PARTY WALLS (LEVEL OF TEMP PROPS 25.285M OD)
NOTE 50MM GAP BETWEEN WALL AND HORIZONTAL STEEL WALER TO BE INFILLED WITH HARDWOOD TIMBER FOLDING WEDGES
NOTE EXISTING CHIMNEYS ON NO. 14/15 PARTY WALL TO BE DEMOLISHED PRIOR TO THE INSTALLATION OF TEMPORARY PROPPINGS.
NOTE UNDERTAKE 24 NO. PULL–OUT TESTS ON PROPOSED RAWL M12 BONDED ANCHORS, 2 NO. AT EACH LEVEL ON NO. 11/12 PARTY WALL AND 2 NO. AT EACH LEVEL ON NO. 14/15 PARTY WALL RESULTS OF PULL–OUT TESTS TO BE FORWARDED TO KINGSCOTE DESIGN LTD PRIOR TO FIXING THE WALER STUB SUPPORT BEAMS TO THE WALLS. PULL –OUT TESTS NOT TO BE CARRIED OUT IN THE FINAL LOCATION OF ANY WALER SUPPORTS STUB BEAMS
TEMPORARY WORKS MEMBER REF:
P1: 406.4 Ø X 8 CHS, GRADE S355 PROP WITH TRANSITION SECTION AT EACH END
W1: 203UC46, GRADE S275 WALER
S1: 203X102UB23, GRADE S275, WALER SUPPORT BEAM AT 3M C/C, 600MM LONG
S2: 203X102UB23, GRADE S275, WALER SUPPORT BEAM 450MM LONG


NOTES:
RESIDUAL ITEMS:
FOR APPROVAL
OAKDEAN CONSTRUCTION LTD
12-14 GREVILLE STREET
LONDON EC1N 8SB
FIRST FLOOR TEMPORARY PROPPING GA AT 21.845M OD LEVEL
SR
JS
16/01/19
2007-05
0
kingscote design
S2 SETTING OUT
PROPING P1 SETTING OUT
S1 SETTING OUT
G SETTING OUT
R1 SETTING OUT
DETAIL A
DETAIL B
PROPOSED FIRST FLOOR PLAN SHOWING TEMPORARY PROPPING TO PARTY WALLS (LEVEL OF TEMP PROPS 21.845M OD)
NOTE: 50MM GAP BETWEEN WALL AND HORIZONTAL STEEL WALER TO BE INFILLED WITH HARDWOOD TIMBER FOLDING WEDGES
NOTE: EXISTING CHIMNEYS ON NO. 14/15 PARTY WALL TO BE DEMOLISHED PRIOR TO THE INSTALLATION OF TEMPORARY PROPPINGS.
TEMPORARY WORKS MEMBER REF
P1: 406.4 Ø X 8 CHS, GRADE S355 PROP WITH TRANSMISION SECTION AT EACH END
W1: 203UC46, GRADE S275 WALER
S1: 203X102UB23, GRADE S275, WALER SUPPORT BEAM AT 3M C/C, 600MM LONG
S2: 203X102UB23, GRADE S275, WALER SUPPORT BEAM 450MM LONG
W2: 356X127UB33, S275 WALER
R1: 152UC37, S275 RAKING PROP TO HIGH LEVEL AT 21.845M OD
G: EXPAMET MH490375 GALLOWS BRACKET
FIRST FLOOR DEMOLITION PLAN SHOWING TEMPORARY PROPPING TO PARTY WALLS (LEVEL OF TEMP PROPS 21.845M OD)
NOTE: UNDERTAKE 24 NO. PULL-OUT TESTS ON PROPOSED RAWL M12 BONDED ANCHORS, 2 NO. AT EACH LEVEL ON NO. 11/12 PARTY WALL AND 2 NO. AT EACH LEVEL ON NO. 14/15 PARTY WALL. RESULTS OF PULL-OUT TESTS TO BE FORWARDED TO KINGSCOTE DESIGN LTD PRIOR TO FIXING THE WALER STUB SUPPORT BEAMS TO THE WALLS. PULL-OUT TESTS NOT TO BE CARRIED OUT IN THE RIVAL LOCATION OF ANY WALER SUPPORTS STUB BEAMS


NOTES:
FOR APPROVAL
CHADEAN CONSTRUCTION LTD
12-14 GREVILLE STREET
LONDON EC1N 8SB
GROUND FLOOR TEMPORARY PROPPING GA AT 18.085M OD LEVEL
SR
JS
16/01/19
2007-06
0
kingscote design
TEMPORARY WORKS MEMBER REF:
P1: 406.4 Ø X 8 CHS, GRADE S355 PROP WITH TRANSITION SECTION AT EACH END
W1: 203UC46, GRADE S275 WALER
S1: 203X102UB23, GRADE S275, WALER SUPPORT BEAM AT 3M C/C, 600MM LONG
S2: 203X102UB23, GRADE S275, WALER SUPPORT BEAM 450MM LONG
W2: 356X127UB33, S275 WALER
R2: 152UC37, S275 RAKING PROP TO LOW LEVEL AT 18.05M OD
G: EXPAMET MH490375 GALLOWS BRACKET
S2 SETTING OUT
PROPING P1 SETTING OUT
S1 SETTING OUT
G SETTING OUT
R1 SETTING OUT
DETAIL A
DETAIL B
PROPOSED GROUND FLOOR PLAN SHOWING TEMPORARY PROPPING TO PARTY WALLS (LEVEL OF TEMP PROPS 18.085M OD)
NOTE 50MM GAP BETWEEN WALL AND HORIZONTAL STEEL WALER TO BE INFILLED WITH HARDWOOD TIMBER FOLDING WEDGES
NOTE EXISTING CHIMNEYS ON NO. 14/15 PARTY WALL TO BE DEMOLISHED PRIOR TO THE INSTALLATION OF TEMPORARY PROPPINGS.
GROUND FLOOR DEMOLITION PLAN SHOWING TEMPORARY PROPPING TO PARTY WALLS (LEVEL OF TEMP PROPS 18.085M OD)
NOTE UNDERTAKE 24 NO. PULL-OUT TESTS ON PROPOSED RAWL M12 BONDED ANCHORS, 2 NO. AT EACH LEVEL ON NO. 11/12 PARTY WALL AND 2 NO. AT EACH LEVEL ON NO. 14/15 PARTY WALL RESULTS OF PULL-OUT TESTS TO BE FORWARDED TO KINGSCOTE DESIGN LTD PRIOR TO FIXING THE WALER STUB SUPPORT BEAMS TO THE WALLS. PULL-OUT TESTS NOT TO BE CARRIED OUT IN THE FINAL LOCATION OF ANY WALER SUPPORTS STUB BEAMS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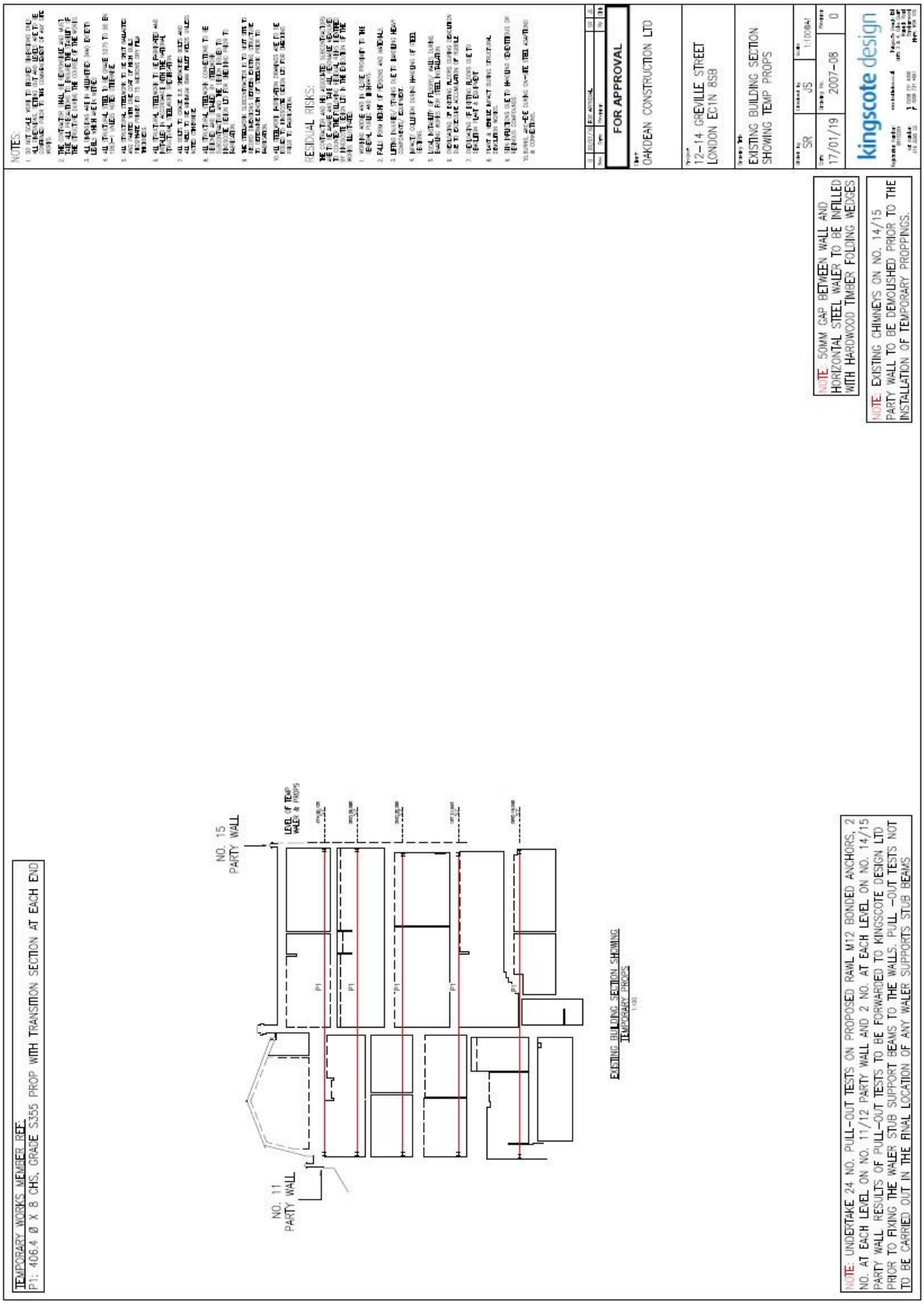
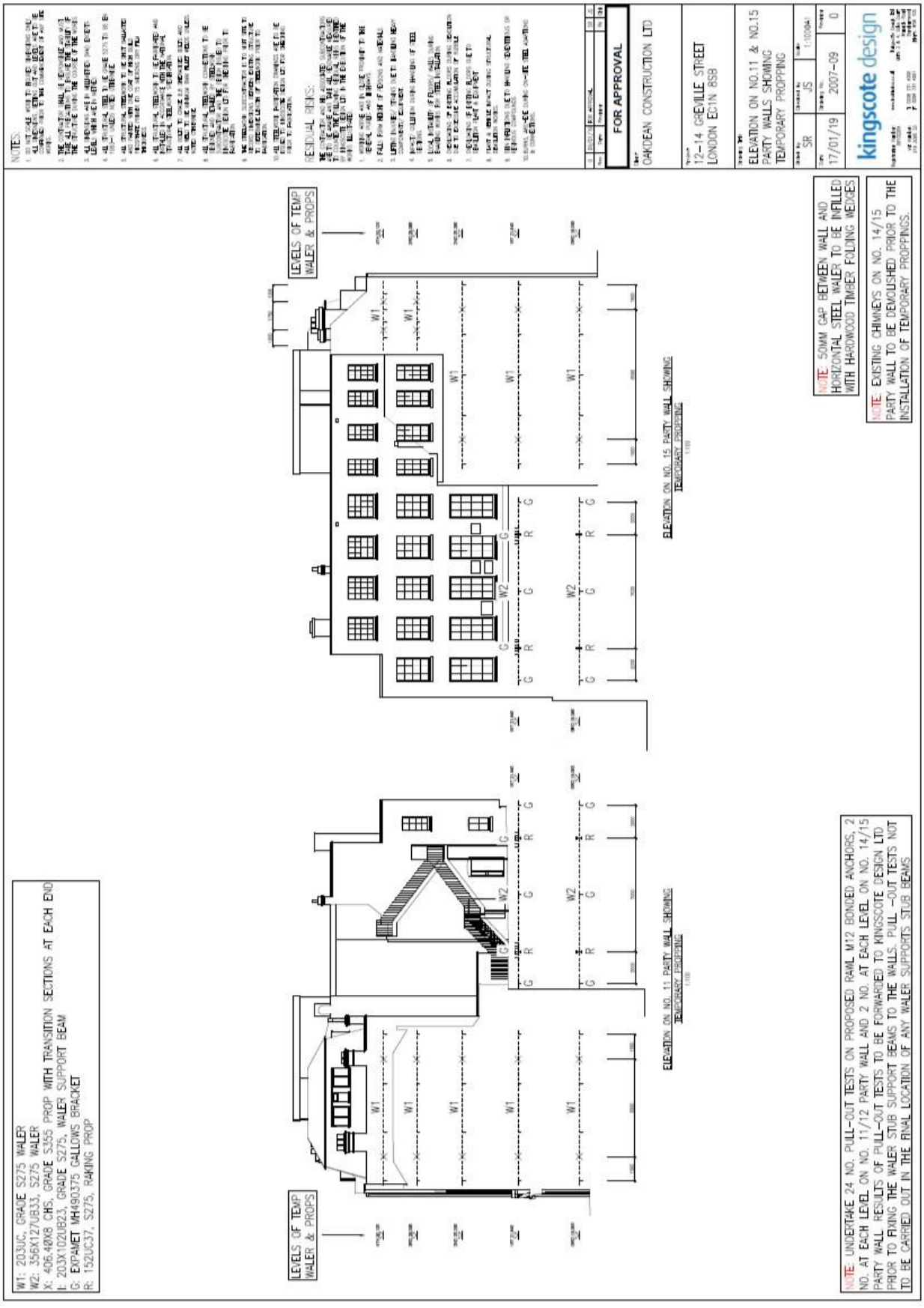
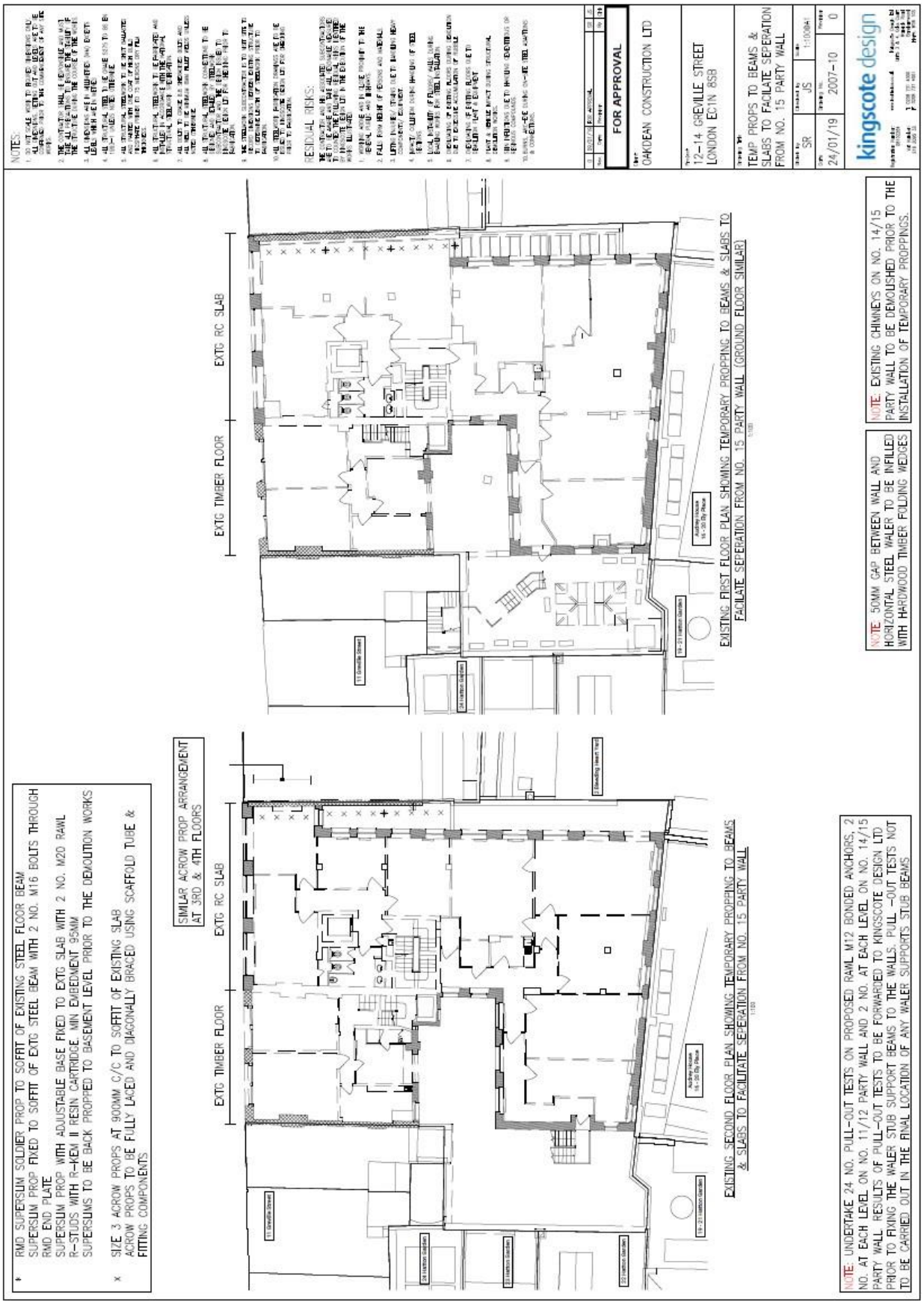
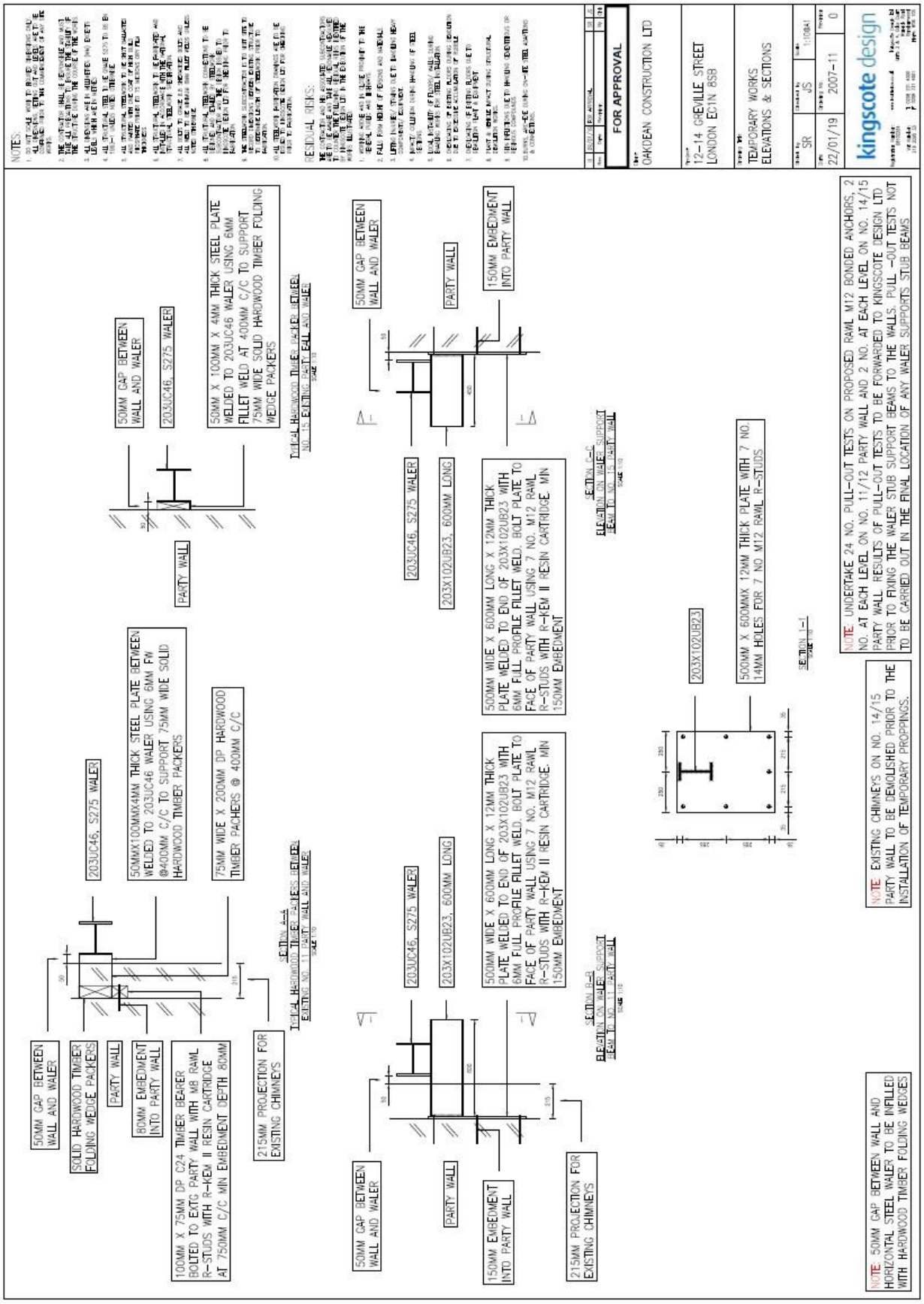
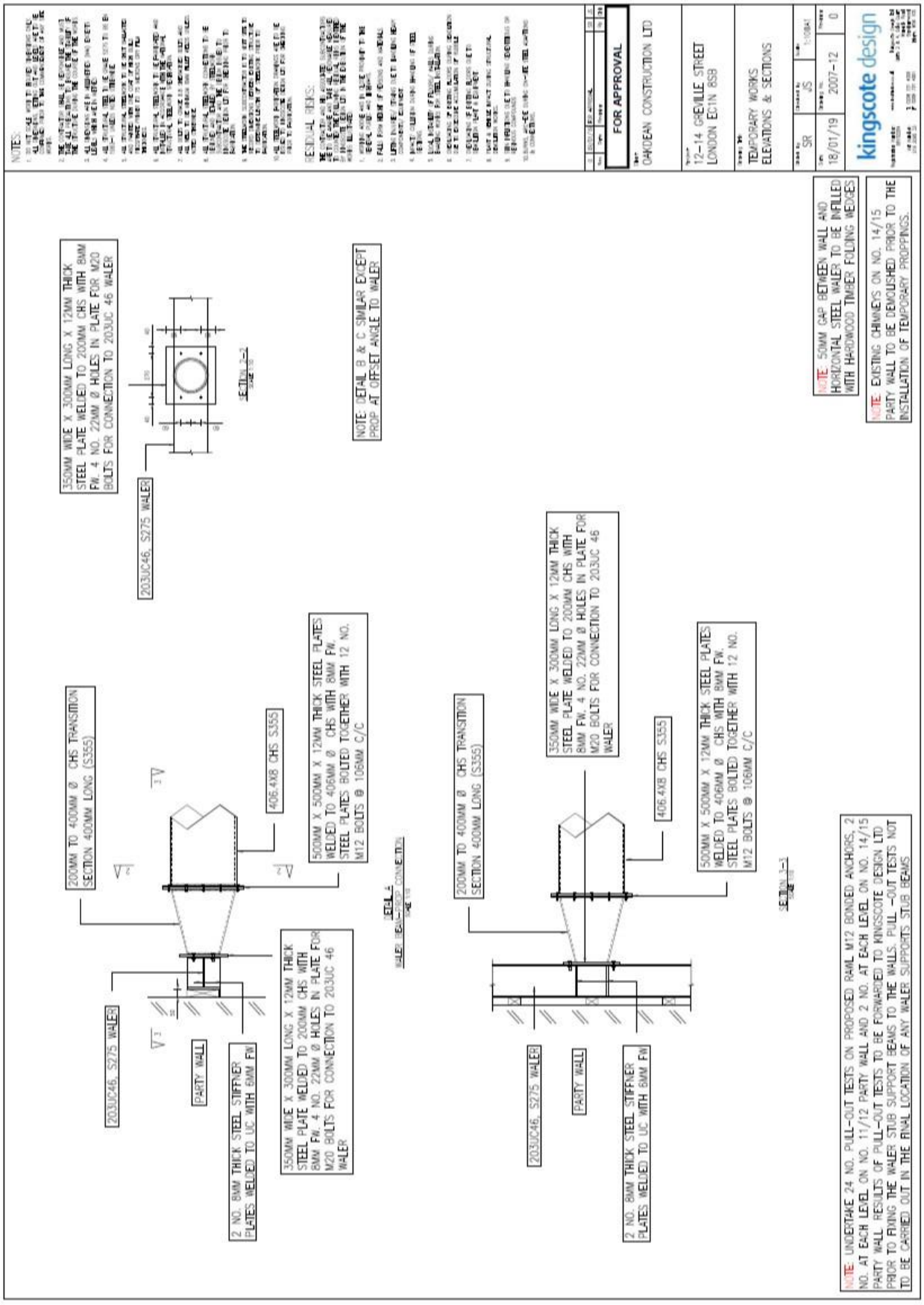
RESIDUAL RISKS:
FOR APPROVAL
OAKDEAN CONSTRUCTION LTD
12–14 GREVILLE STREET
LONDON EC1N 8SB
BASEMENT FLOOR PLAN
SHOWING TEMPORARY
PROPPING @4 AT 14.56M OD
SR
JS
12/02/19
2007-07
B
kingscote design
REFER TO KDL DRG 2007-01 FOR DETAILS OF TEMP PROPPING TO AUDREY HOUSE COURTYARD WALL
PROPOSED BASEMENT FLOOR PLAN SHOWING TEMPORARY PROPPING TO BASEMENT RETAINING WALLS (LEVEL OF TEMPORARY PROPS 14.56M OD)
TEMPORARY WORKS MEMBER REF:
PAD FDN A: 1.75MX1MX0.9M DP FOUNDATION. TFL 13.48M OD
PAD FDN A1: 1.75MX1MX0.9M DP FOUNDATION. TFL 14.03M OD
PAD FDN B: 2.5MX1.25MX1M DP FOUNDATION. TFL 13.48M OD
PAD FDN C: 5MX2.5MX1.3M DP FOUNDATION. TFL 13.48M OD
PAD FDN D: 4.25MX1.6MX1.3M DP FOUNDATION. TFL 13.48M OD
W3: 305X165UB40, S275 WALER
R1: 152UC37, S275 RAKING PROP TO HIGH LEVEL AT 21.485M OD
R2: 152UC37, S275 RAKING PROP TO LOW LEVEL AT 18.05M OD
R3: 152UC37, S275 HORIZONTAL PROP
R4: 305X165UB 40, S275 VERTICAL STUB COLUMN
R5: 305X165XUB 54, S275, VERTICAL STUB COLUMN
G: EXPAMET WH375375 GALLOW BRACKET
G1: EXPAMET WH490375 GALLOW BRACKET
W3*: 305X165UB 40 WALER FIXED TO EXTG BRICK PARTY WALL WITH M16 RAWL ANCHORS WITH R-KEM II RESIN CARTRIDGE AT MAX 300MM C/C (150MM C/C STAGGERED). FIXING TO HAVE 190MM MIN EMBEDMENT.
W3**: 305X165UB 40 WALER FIXED TO EXTG BRICK WALL WITH M16 RAWL ANCHORS WITH R-KEM II RESIN CARTRIDGE AT MAX 450MM C/C (225MM C/C STAGGERED). FIXING TO HAVE 190MM MIN EMBEDMENT.
TEMPORARY FACADE RETENTION FRAME FOUNDATIONS (REFER TO KDL DRGS 2007-18 & 21)
PROVIDE 4 NO. TYPE G GALLOW BRACKETS ABOVE WALER AT RAKING PROP LOCATIONS. REFER TO KDL DRG 2007-14 FOR TYPICAL DETAILS.
REFER TO KDL 2007-14 FOR STEELWORK DETAILS
305X165UB54 STUB COLUMN ENCASED IN CONCRETE FOUNDATION
NEW 750MM THICK RC REINFORCED SLAB
TEMP RC FOUNDATION 4.25MX1.6MX1.3M DP TFL 13.48M OD
GREVILLE STREET
305X165UB40 WALER
152UC37
U/S OF NEW UNDERPINNING
NOTE EXISTING CHIMNEYS ON NO. 14/15 PARTY WALL TO BE DEMOLISHED PRIOR TO THE INSTALLATION OF TEMPORARY PROPPINGS.
NOTE UNDERTAKE 24 NO. PULL-OUT TESTS ON PROPOSED RAWL M12 BONDED ANCHORS; 2 NO. AT EACH LEVEL ON NO. 11/12 PARTY WALL AND 2 NO. AT EACH LEVEL ON NO. 14/15 PARTY WALL. RESULTS OF PULL-OUT TESTS TO BE FORWARDED TO KINGSCOTE DESIGN LTD PRIOR TO FIXING THE WALER STUB SUPPORT BEAMS TO THE WALLS. PULL-OUT TESTS NOT TO BE CARRIED OUT IN THE FINAL LOCATION OF ANY WALER SUPPORTS STUB BEAMS
NOTE 50MM GAP BETWEEN WALL AND HORIZONTAL STEEL WALER TO BE INFILLED WITH HARDWOOD TIMBER FOLING WEDGES

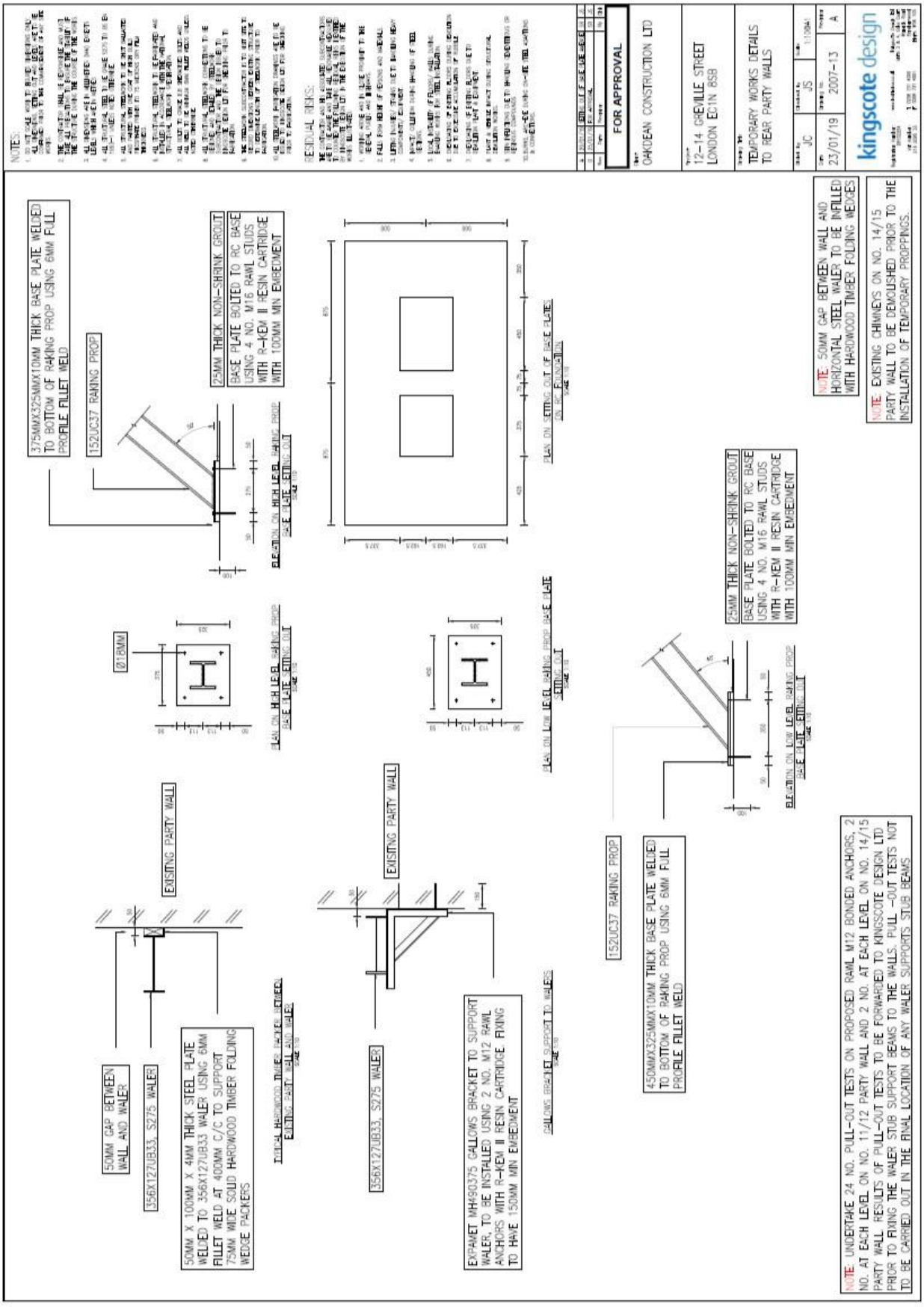

NOTES:
RESIDUAL RISKS:
FOR APPROVAL
OAKDEAN CONSTRUCTION LTD
12–14 GREVILLE STREET
LONDON EC1N 8SB
EXISTING BUILDING SECTION
SHOWING TEMP PROPS
SR
JS
17/01/19
2007–08
0
kingscote design
NOTE 50MM GAP BETWEEN WALL AND HORIZONTAL STEEL WALER TO BE INFILLED WITH HARDWOOD TIMBER FOLDING WEDGES
NOTE EXISTING CHIMNEYS ON NO. 14/15 PARTY WALL TO BE DEMOLISHED PRIOR TO THE INSTALLATION OF TEMPORARY PROPPINGS.
NOTE: UNDERTAKE 24 NO. PULL-OUT TESTS ON PROPOSED RAWL M12 BONDED ANCHORS, 2 NO. AT EACH LEVEL ON NO. 11/12 PARTY WALL AND 2 NO. AT EACH LEVEL ON NO. 14/15 PARTY WALL. RESULTS OF PULL-OUT TESTS TO BE FORWARDED TO KINGSCOTE DESIGN LTD PRIOR TO FIXING THE WALER STUB SUPPORT BEAMS TO THE WALLS. PULL-OUT TESTS NOT TO BE CARRIED OUT IN THE FINAL LOCATION OF ANY WALER SUPPORTS STUB BEAMS
EXISTING BUILDING SECTION SHOWING TEMPORARY PROPS
NO. 15 PARTY WALL
NO. 11 PARTY WALL
LEVEL OF TEMP WALER & PROPS
TEMPORARY WORKS MEMBER REF.
P1: 406.4 Ø X 8 CHS, GRADE S355 PROP WITH TRANSITION SECTION AT EACH END

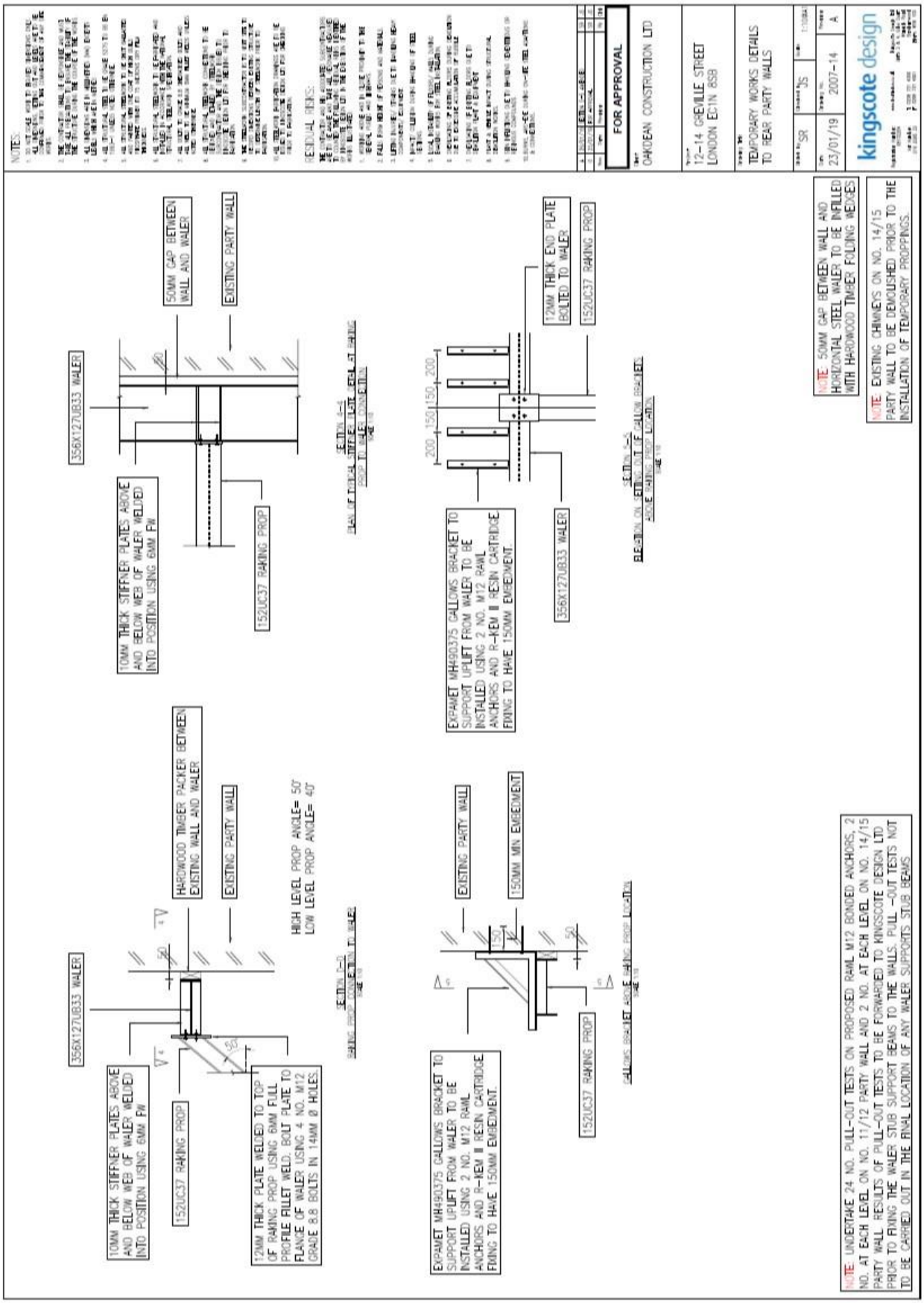

NOTES:
RESIDUAL RISKS:
FOR APPROVAL
OAKLEAN CONSTRUCTION LTD
12-14 GREVILLE STREET
LONDON EC1N 8SB
ELEVATION ON NO.11 & NO.15
PARTY WALLS SHOWING
TEMPORARY PROPPING
SR
JS
17/01/19
2007-09
kingscote design
LEVELS OF TEMP WALER & PROPS
ELEVATION ON NO.15 PARTY WALL SHOWING TEMPORARY PROPPING
ELEVATION ON NO.11 PARTY WALL SHOWING TEMPORARY PROPPING
NOTE: 50MM GAP BETWEEN WALL AND HORIZONTAL STEEL WALER TO BE INFILLED WITH HARDWOOD TIMBER FOLDING WEDGES
NOTE: EXISTING CHIMNEYS ON NO. 14/15 PARTY WALL TO BE DEMOLISHED PRIOR TO THE INSTALLATION OF TEMPORARY PROPPINGS.
NOTE: UNDERTAKE 24 NO. PULL-OUT TESTS ON PROPOSED RAWL M12 BONDED ANCHORS, 2 NO. AT EACH LEVEL ON NO. 11/12 PARTY WALL AND 2 NO. AT EACH LEVEL ON NO. 14/15 PARTY WALL RESULTS OF PULL-OUT TESTS TO BE FORWARDED TO KINGSCOTE DESIGN LTD PRIOR TO FIXING THE WALER STUB SUPPORT BEAMS TO THE WALLS. PULL -OUT TESTS NOT TO BE CARRIED OUT IN THE RIVAL LOCATION OF ANY WALER SUPPORTS STUB BEAMS
W1: 203UC, GRADE S275 WALER
W2: 356X127UB33, S275 WALER
X: 406.4ØX8 CHS, GRADE S355 PROP WITH TRANSITION SECTIONS AT EACH END
I: 203X102UB23, GRADE S275, WALER SUPPORT BEAM
G: EXPAMET MH490375 GALLOWS BRACKET
R: 152UC37, S275, RAKING PROP

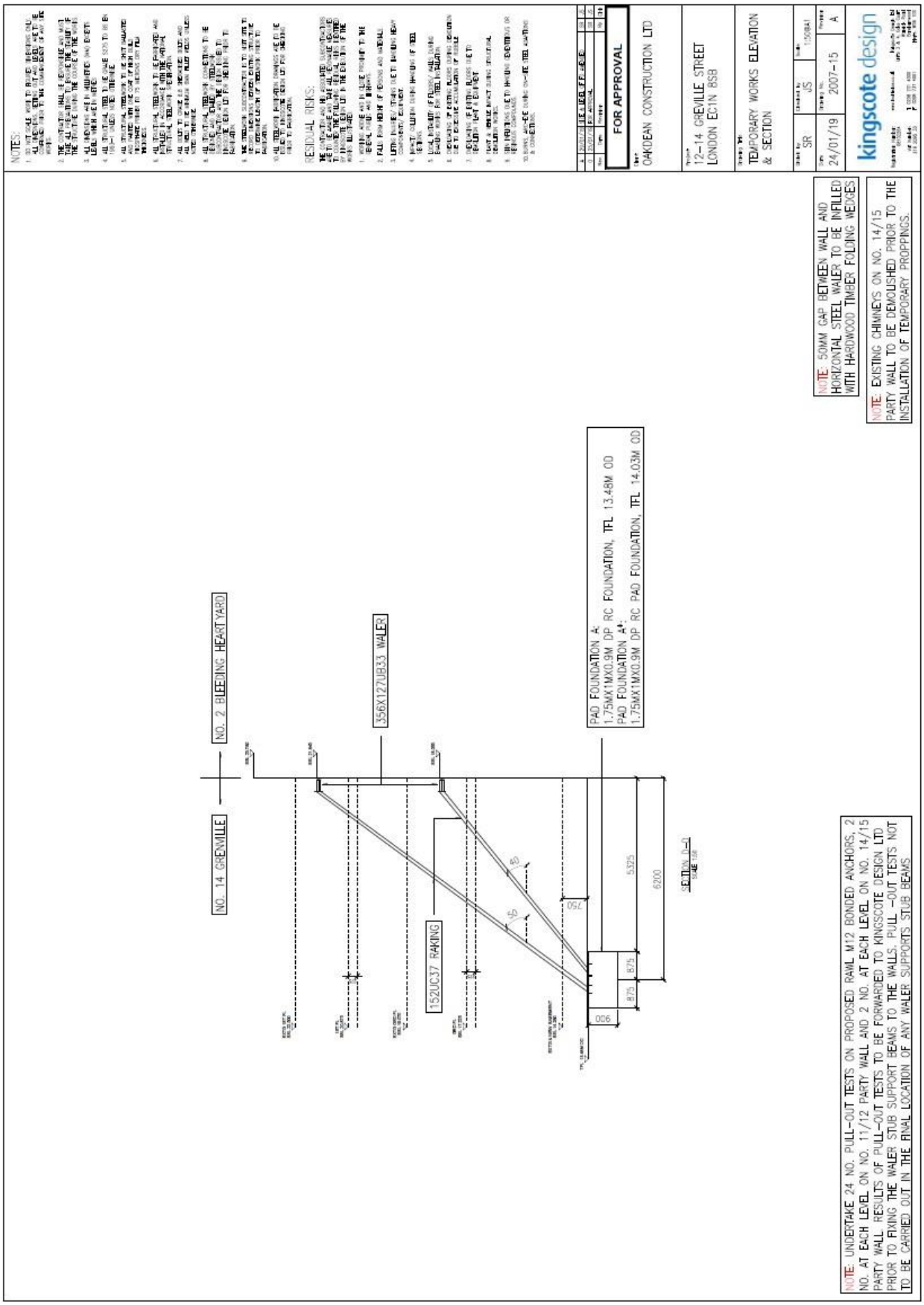

NOTES:
RESIDUAL RISKS:
FOR APPROVAL
OAKDEAN CONSTRUCTION LTD
12-14 GREVILLE STREET
LONDON EC1N 8SB
TEMP PROPS TO BEAMS & SLABS TO FACILATE SEPERATION FROM NO. 15 PARTY WALL
SR
JS
24/01/19
2007-10
0
kingscote design
EXTG TIMBER FLOOR
EXTG RC SLAB
EXISTING FIRST FLOOR PLAN SHOWING TEMPORARY PROPPING TO BEAMS & SLABS TO FACILATE SEPERATION FROM NO. 15 PARTY WALL (GROUND FLOOR SIMILAR)
SIMILAR ACROW PROP ARRANGEMENT AT 3RD & 4TH FLOORS
EXISTING SECOND FLOOR PLAN SHOWING TEMPORARY PROPPING TO BEAMS & SLABS TO FACILITATE SEPERATION FROM NO. 15 PARTY WALL
RMD SUPERSLIM SOLDIER PROP TO SOFFIT OF EXISTING STEEL FLOOR BEAM
SUPERSLIM PROP FIXED TO SOFFIT OF EXTG STEEL BEAM WITH 2 NO. M16 BOLTS THROUGH RMD END PLATE
SUPERSLIM PROP WITH ADJUSTABLE BASE FIXED TO EXTG SLAB WITH 2 NO. M20 RAWL R-STUDS WITH R-KEM II RESIN CARTRIDGE. MIN EMBEDMENT 95MM
SUPERSLIMS TO BE BACK PROPPED TO BASEMENT LEVEL PRIOR TO THE DEMOLITION WORKS
SIZE 3 ACROW PROPS AT 900MM C/C TO SOFFIT OF EXISTING SLAB
ACROW PROPS TO BE FULLY LACED AND DIAGONALLY BRACED USING SCAFFOLD TUBE & FITTING COMPONENTS
NOTE: UNDERTAKE 24 NO. PULL-OUT TESTS ON PROPOSED RAWL M12 BONDED ANCHORS, 2 NO. AT EACH LEVEL ON NO. 11/12 PARTY WALL AND 2 NO. AT EACH LEVEL ON NO. 14/15 PARTY WALL RESULTS OF PULL-OUT TESTS TO BE FORWARDED TO KINGSCOTE DESIGN LTD PRIOR TO FIXING THE WALER STUB SUPPORT BEAMS TO THE WALLS. PULL-OUT TESTS NOT TO BE CARRIED OUT IN THE AVAL LOCATION OF ANY WALER SUPPORTS STUB BEAMS
NOTE 50MM GAP BETWEEN WALL AND HORIZONTAL STEEL WALER TO BE INFILLED WITH HARDWOOD TIMBER FOLDING WEDGES
NOTE: EXISTING CHIMNEYS ON NO. 14/15 PARTY WALL TO BE DEMOLISHED PRIOR TO THE INSTALLATION OF TEMPORARY PROPPINGS.

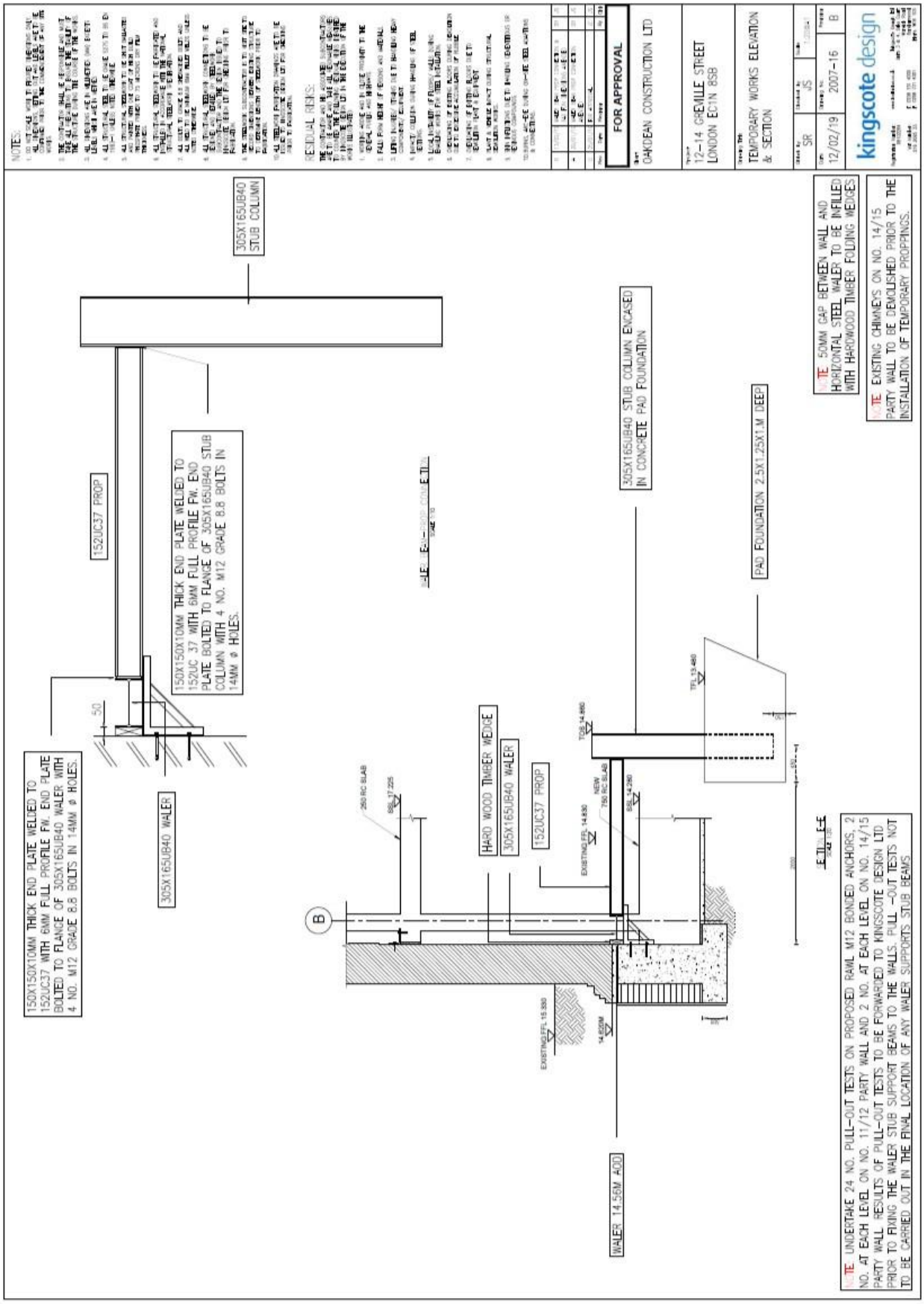

NOTES:
RESIDUAL RISKS:
FOR APPROVAL
OAKDEAN CONSTRUCTION LTD
12-14 GREVILLE STREET
LONDON EC1N 8SB
TEMPORARY WORKS
ELEVATIONS & SECTIONS
SR
JS
1:100@A1
22/01/19
2007-11
0
kingscote design
50MM GAP BETWEEN WALL AND WALER
203UC46, S275 WALER
PARTY WALL
50MM X 100MM X 4MM THICK STEEL PLATE WELDED TO 203UC46 WALER USING 6MM FILLET WELD AT 400MM C/C TO SUPPORT 75MM WIDE SOLID HARDWOOD TIMBER FOLDING WEDGE PACKERS
TYPICAL HARDWOOD TIMBER PACKER BETWEEN NO. 15 EXISTING PARTY WALL AND WALER
150MM EMBEDMENT INTO PARTY WALL
203X102UB23, 600MM LONG
500MM WIDE X 600MM LONG X 12MM THICK PLATE WELDED TO END OF 203X102UB23 WITH 6MM FULL PROFILE FILLET WELD. BOLT PLATE TO FACE OF PARTY WALL USING 7 NO. M12 RAWL R-STUDS WITH R-KEM II RESIN CARTRIDGE. MIN 150MM EMBEDMENT
SECTION C–C
ELEVATION ON WALER SUPPORT BEAM TO NO. 11 PARTY WALL
50MMX100MMX4MM THICK STEEL PLATE BETWEEN WELDED TO 203UC46 WALER USING 6MM FW @400MM C/C TO SUPPORT 75MM WIDE SOLID HARDWOOD TIMBER PACKERS
75MM WIDE X 200MM DP HARDWOOD TIMBER PACKERS @ 400MM C/C
SECTION A–A
TYPICAL HARDWOOD TIMBER PACKERS BETWEEN EXISTING NO. 11 PARTY WALL AND WALER
SOLID HARDWOOD TIMBER FOLDING WEDGE PACKERS
80MM EMBEDMENT INTO PARTY WALL
100MM X 75MM DP C24 TIMBER BEARER BOLTED TO EXTG PARTY WALL WITH M8 RAWL R-STUDS WITH R-KEM II RESIN CARTRIDGE AT 750MM C/C MIN EMBEDMENT DEPTH 80MM
215MM PROJECTION FOR EXISTING CHIMNEYS
SECTION B–B
ELEVATION ON WALER SUPPORT BEAM TO NO. 11 PARTY WALL
NOTE: UNDERTAKE 24 NO. PULL-OUT TESTS ON PROPOSED RAWL M12 BONDED ANCHORS, 2 NO. AT EACH LEVEL ON NO. 11/12 PARTY WALL AND 2 NO. AT EACH LEVEL ON NO. 14/15 PARTY WALL RESULTS OF PULL-OUT TESTS TO BE FORWARDED TO KINGSCOTE DESIGN LTD PRIOR TO FIXING THE WALER STUB SUPPORT BEAMS TO THE WALLS. PULL-OUT TESTS NOT TO BE CARRIED OUT IN THE FINAL LOCATION OF ANY WALER SUPPORTS STUB BEAMS
NOTE: EXISTING CHIMNEYS ON NO. 14/15 PARTY WALL TO BE DEMOLISHED PRIOR TO THE INSTALLATION OF TEMPORARY PROPPINGS.
500MM X 600MMX 12MM THICK PLATE WITH 7 NO. 14MM HOLES FOR 7 NO M12 RAWL R-STUDS
SECTION 1–1
NOTE: 50MM GAP BETWEEN WALL AND HORIZONTAL STEEL WALER TO BE INFILLED WITH HARDWOOD TIMBER FOLDING WEDGES

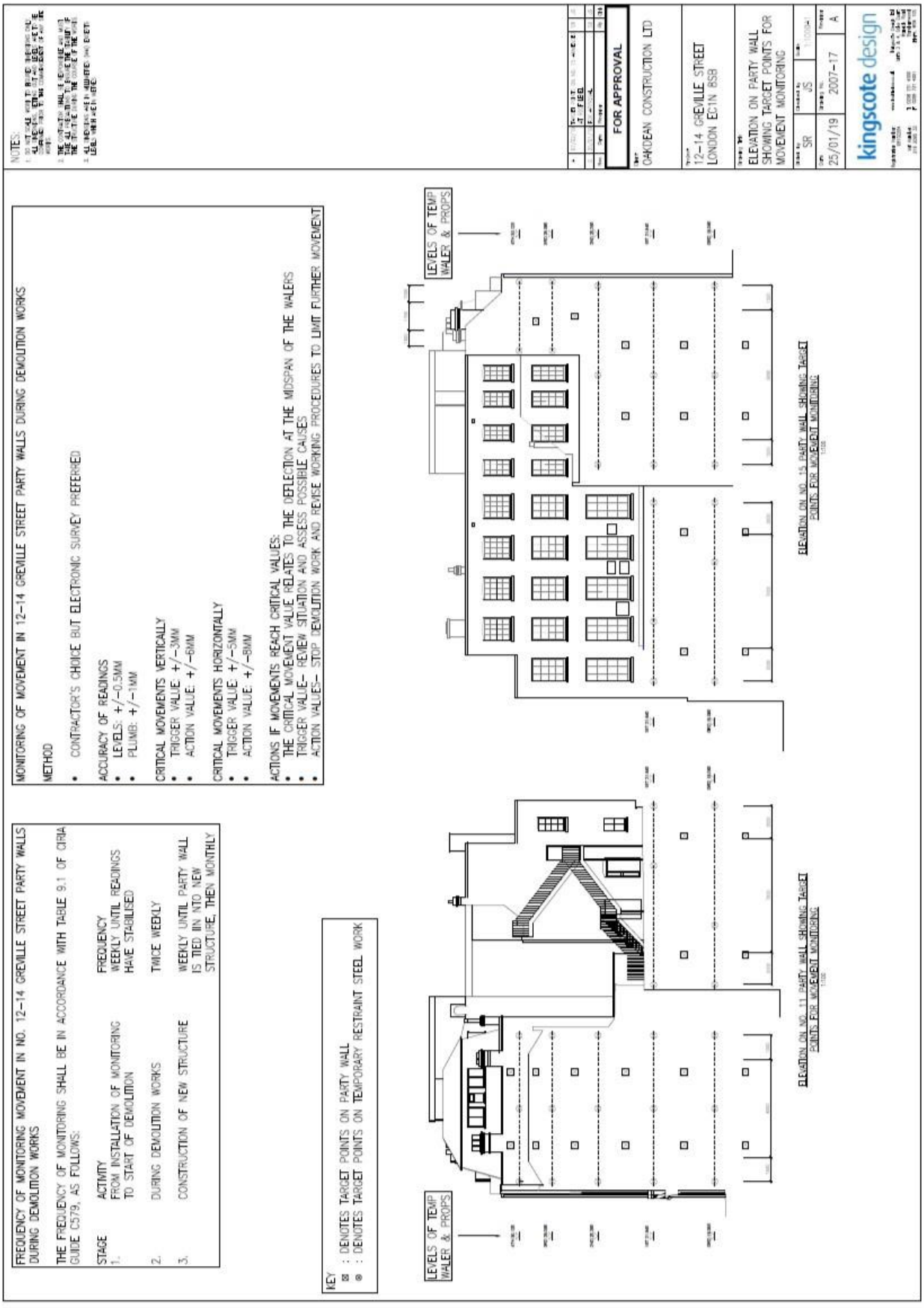

NOTE:
RESIDUAL ITEMS:
FOR APPROVAL
OAKDEAN CONSTRUCTION LTD
12-14 GREVILLE STREET
LONDON EC1N 8SB
TEMPORARY WORKS
ELEVATIONS & SECTIONS
SR
JS
18/01/19
2007-12
0
kingscote design
350MM WIDE X 300MM LONG X 12MM THICK STEEL PLATE WELDED TO 200MM CHS WITH 8MM FW. 4 NO. 22MM Ø HOLES IN PLATE FOR M20 BOLTS FOR CONNECTION TO 203UC 46 WALER
203UC46, S275 WALER
SECTION A-2
NOTE DETAIL B & C SIMILAR EXCEPT PROP AT OFFSET ANGLE TO WALER
NOTE 50MM GAP BETWEEN WALL AND HORIZONTAL STEEL WALER TO BE INFILLED WITH HARDWOOD TIMBER FOLDING WEDGES
NOTE EXISTING CHIMNEYS ON NO. 14/15 PARTY WALL TO BE DEMOLISHED PRIOR TO THE INSTALLATION OF TEMPORARY PROPPINGS.
200MM TO 400MM Ø CHS TRANSITION SECTION 400MM LONG (S355)
406.4X8 CHS S355
500MM X 500MM X 12MM THICK STEEL PLATES WELDED TO 406MM Ø CHS WITH 8MM FW. STEEL PLATES BOLTED TOGETHER WITH 12 NO. M12 BOLTS @ 106MM C/C
DETAIL A
WALER BEAM-PROP CONNECTION
350MM WIDE X 300MM LONG X 12MM THICK STEEL PLATE WELDED TO 200MM CHS WITH 8MM FW. 4 NO. 22MM Ø HOLES IN PLATE FOR M20 BOLTS FOR CONNECTION TO 203UC 46 WALER
203UC46, S275 WALER
PARTY WALL
2 NO. 8MM THICK STEEL STIFFNER PLATES WELDED TO UC WITH 6MM FW
SECTION 1-1
NOTE: UNDERTAKE 24 NO. PULL-OUT TESTS ON PROPOSED RAWL M12 BONDED ANCHORS, 2 NO. AT EACH LEVEL ON NO. 11/12 PARTY WALL AND 2 NO. AT EACH LEVEL ON NO. 14/15 PARTY WALL RESULTS OF PULL-OUT TESTS TO BE FORWARDED TO KINGSCOTE DESIGN LTD PRIOR TO FIXING THE WALER STUB SUPPORT BEAMS TO THE WALLS. PULL -OUT TESTS NOT TO BE CARRIED OUT IN THE FIXAL LOCATION OF ANY WALER SUPPORTS STUB BEAMS

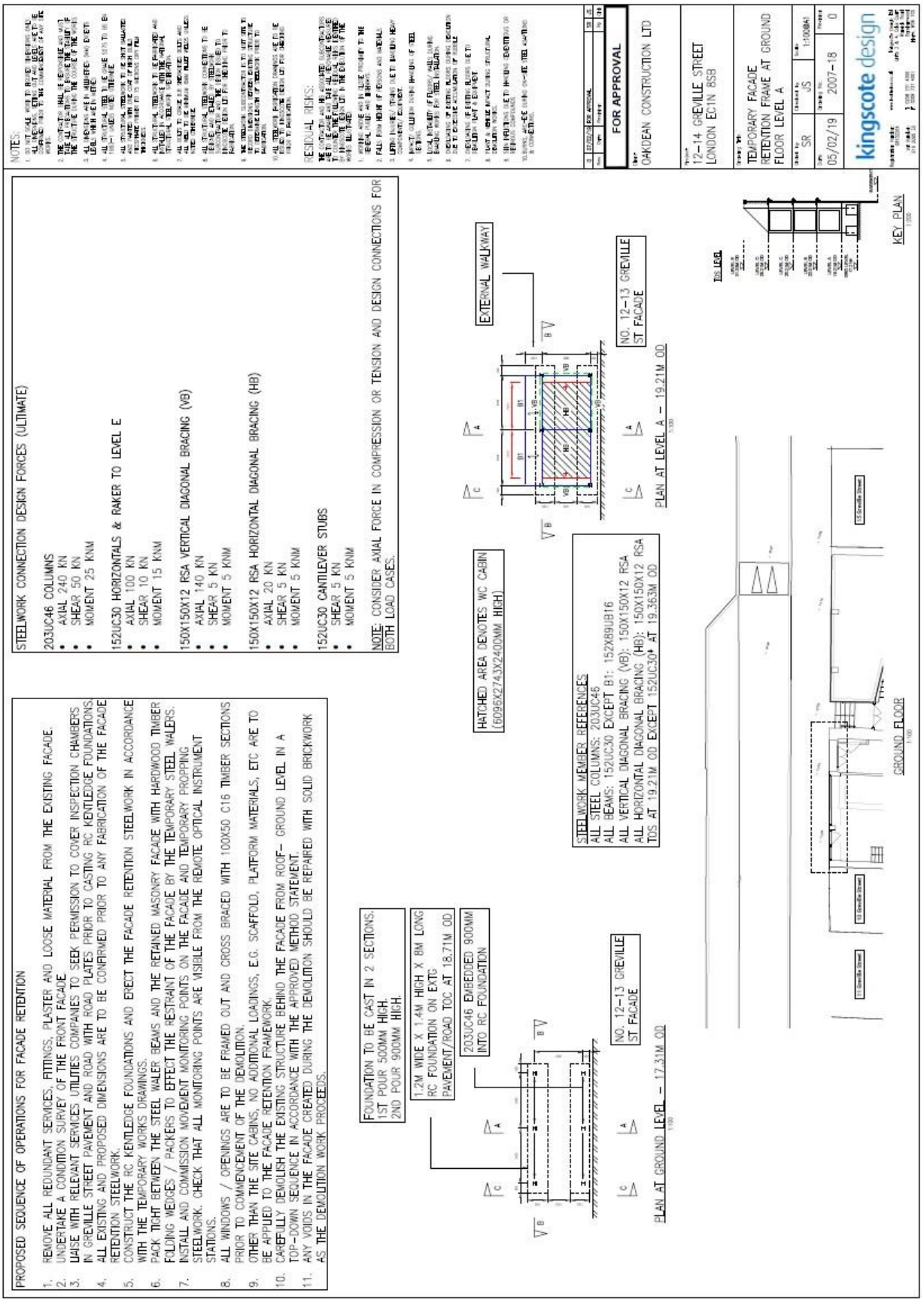

NOTE:
RESIDUAL RISKS:
FOR APPROVAL
OAKDEAN CONSTRUCTION LTD
12-14 GREVILLE STREET
LONDON EC1N 8SB
TEMPORARY WORKS DETAILS
TO REAR PARTY WALLS
JC
JS
23/01/19
2007-13
A
kingscote design
375MMX325MMX10MM THICK BASE PLATE WELDED TO BOTTOM OF RAKING PROP USING 6MM FULL PROFILE FILLET WELD
152UC37 RAKING PROP
25MM THICK NON-SHRINK GROUT BASE PLATE BOLTED TO RC BASE USING 4 NO. M16 RAWL STUDS WITH R-KEM II RESIN CARTRIDGE WITH 100MM MIN EMBEDMENT
PLAN ON HIGH LEVEL RAKING PROP BASE PLATE SETTING OUT
ELEVATION ON HIGH LEVEL RAKING PROP BASE PLATE SETTING OUT
PLAN ON SETTING OUT OF BASE PLATES ON RC FOUNDATIONS
NOTE: 50MM GAP BETWEEN WALL AND HORIZONTAL STEEL WALER TO BE INFILLED WITH HARDWOOD TIMBER FOLDING WEDGES
NOTE: EXISTING CHIMNEYS ON NO. 14/15 PARTY WALL TO BE DEMOLISHED PRIOR TO THE INSTALLATION OF TEMPORARY PROPPINGS.
Ø18MM
PLAN ON HIGH LEVEL RAKING PROP BASE PLATE SETTING OUT
PLAN ON LOW LEVEL RAKING PROP BASE PLATE SETTING OUT
25MM THICK NON-SHRINK GROUT BASE PLATE BOLTED TO RC BASE USING 4 NO. M16 RAWL STUDS WITH R-KEM II RESIN CARTRIDGE WITH 100MM MIN EMBEDMENT
ELEVATION ON LOW LEVEL RAKING PROP BASE PLATE SETTING OUT
EXISTING PARTY WALL
50MM GAP BETWEEN WALL AND WALER
356X127UB33, S275 WALER
50MM X 100MM X 4MM THICK STEEL PLATE WELDED TO 356X127UB33 WALER USING 6MM FILLET WELD AT 400MM C/C TO SUPPORT 75MM WIDE SOLID HARDWOOD TIMBER FOLDING WEDGE PACKERS
TYPICAL HARDWOOD TIMBER PACKER BETWEEN EXISTING PARTY WALL AND WALER
EXISTING PARTY WALL
356X127UB33, S275 WALER
EXPAMET MH490375 GALLOWS BRACKET TO SUPPORT WALER, TO BE INSTALLED USING 2 NO. M12 RAWL ANCHORS WITH R-KEM II RESIN CARTRIDGE FIXING TO HAVE 150MM MIN EMBEDMENT
GALLOWS BRACKET TO SUPPORT TO WALERS
152UC37 RAKING PROP
450MMX325MMX10MM THICK BASE PLATE WELDED TO BOTTOM OF RAKING PROP USING 6MM FULL PROFILE FILLET WELD)
NOTE: UNDERTAKE 24 NO. PULL-OUT TESTS ON PROPOSED RAWL M12 BONDED ANCHORS, 2 NO. AT EACH LEVEL ON NO. 11/12 PARTY WALL AND 2 NO. AT EACH LEVEL ON NO. 14/15 PARTY WALL RESULTS OF PULL-OUT TESTS TO BE FORWARDED TO KINGSCOTE DESIGN LTD PRIOR TO FIXING THE WALER STUB SUPPORT BEAMS TO THE WALLS. PULL-OUT TESTS NOT TO BE CARRIED OUT IN THE FINAL LOCATION OF ANY WALER SUPPORTS STUB BEAMS

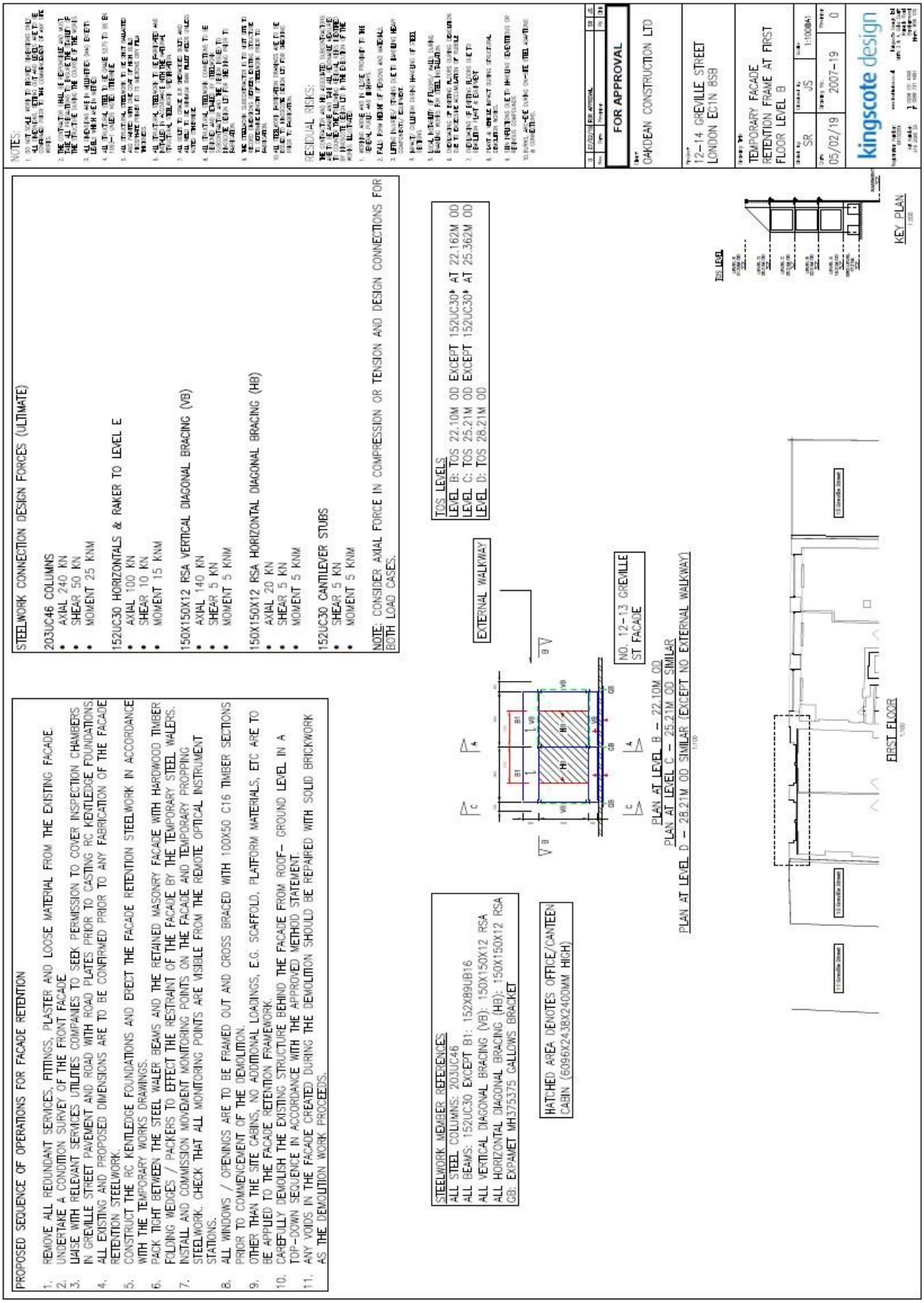

NOTES:
RESIDUAL RISKS:
FOR APPROVAL
OAKDEAN CONSTRUCTION LTD
12-14 GREVILLE STREET
LONDON EC1N 8SB
TEMPORARY WORKS DETAILS
TO REAR PARTY WALLS
23/01/19
2007-14
A
kingscote design
50MM GAP BETWEEN WALL AND
HORIZONTAL STEEL WALER TO BE INFILLED
WITH HARDWOOD TIMBER FOLDING WEDGES
NOTE EXISTING CHIMNEYS ON NO. 14/15
PARTY WALL TO BE DEMOLISHED PRIOR TO THE
INSTALLATION OF TEMPORARY PROPPINGS.
NOTE UNDERTAKE 24 NO. PULL-OUT TESTS ON PROPOSED RAWL M12 BONDED ANCHORS, 2
NO. AT EACH LEVEL ON NO. 11/12 PARTY WALL AND 2 NO. AT EACH LEVEL ON NO. 14/15
PARTY WALL RESULTS OF PULL-OUT TESTS TO BE FORWARDED TO KINGSCOTE DESIGN LTD
PRIOR TO FIXING THE WALER STUB SUPPORT BEAMS TO THE WALLS. PULL-OUT TESTS NOT
TO BE CARRIED OUT IN THE FINAL LOCATION OF ANY WALER SUPPORTS STUB BEAMS
356X127UB33 WALER
10MM THICK STIFFNER PLATES ABOVE
AND BELOW WEB OF WALER WELDED
INTO POSITION USING 6MM FW
152UC37 RAKING PROP
50MM GAP BETWEEN
WALL AND WALER
EXISTING PARTY WALL
12MM THICK PLATE WELDED TO TOP
OF RAKING PROP USING 6MM FULL
PROFILE FILLET WELD. BOLT PLATE TO
FLANGE OF WALER USING 4 NO. M12
GRADE 8.8 BOLTS IN 14MM Ø HOLES.
HARDWOOD TIMBER PACKER BETWEEN
EXISTING WALL AND WALER
HIGH LEVEL PROP ANGLE= 50°
LOW LEVEL PROP ANGLE= 40°
EXPAMET WH490375 GALLOWS BRACKET TO
SUPPORT UPLIFT FROM WALER TO BE
INSTALLED USING 2 NO. M12 RAWL
ANCHORS AND R-KEM ■ RESIN CARTRIDGE
FIXING TO HAVE 150MM EMBEDMENT
150MM MIN EMBEDMENT
12MM THICK END PLATE
BOLTED TO WALER
200 150 150 200
SECTION 1-1
SECTION 2-2
SECTION 3-3
SECTION 4-4

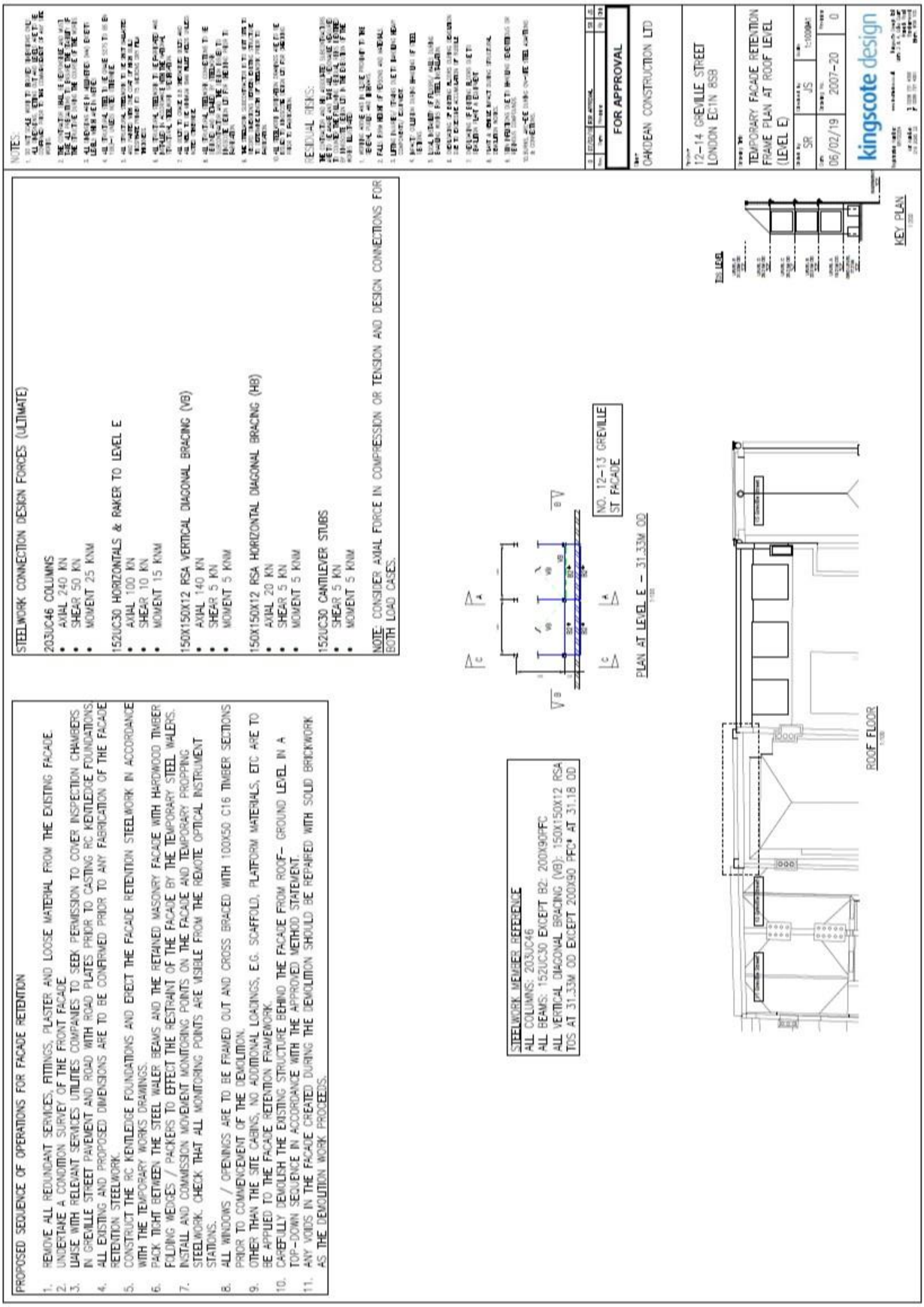

NOTES:
RESIDUAL RISKS:
FOR APPROVAL
OAKDEAN CONSTRUCTION LTD
12–14 GREVILLE STREET
LONDON EC1N 8SB
TEMPORARY WORKS ELEVATION & SECTION
24/01/19
2007–15
A
kingscote design
NO. 14 GREVILLE
NO. 2 BLEEDING HEART YARD
356X127UB33 WALER
152UC37 RAKING
PAD FOUNDATION A:
1.75MX1MX0.9M DP RC FOUNDATION, TFL 13.48M OD
PAD FOUNDATION A*:
1.75MX1MX0.9M DP RC PAD FOUNDATION, TFL 14.03M OD
SECTION D-D
NOTE: 50MM GAP BETWEEN WALL AND HORIZONTAL STEEL WALER TO BE INFILLED WITH HARDWOOD TIMBER FOLDING WEDGES
NOTE: EXISTING CHIMNEYS ON NO. 14/15 PARTY WALL TO BE DEMOLISHED PRIOR TO THE INSTALLATION OF TEMPORARY PROPPINGS.
NOTE: UNDERTAKE 24 NO. PULL-OUT TESTS ON PROPOSED RAWL M12 BONDED ANCHORS, 2 NO. AT EACH LEVEL ON NO. 11/12 PARTY WALL AND 2 NO. AT EACH LEVEL ON NO. 14/15 PARTY WALL RESULTS OF PULL-OUT TESTS TO BE FORWARDED TO KINGSCOTE DESIGN LTD PRIOR TO FIXING THE WALER STUB SUPPORT BEAMS TO THE WALLS. PULL-OUT TESTS NOT TO BE CARRIED OUT IN THE RIVAL LOCATION OF ANY WALER SUPPORTS STUB BEAMS

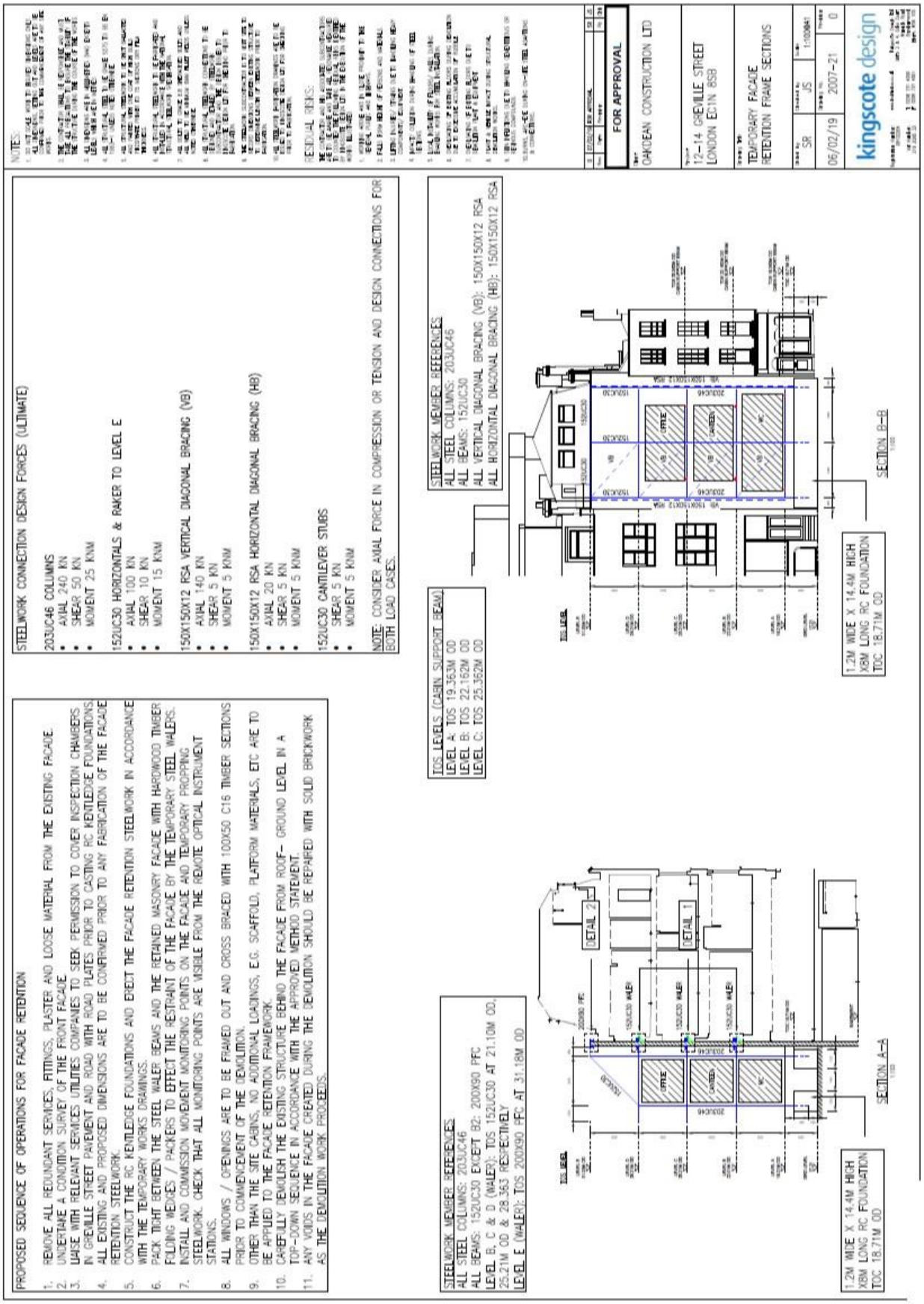

NOTES:
RESIDUAL RISKS:
FOR APPROVAL
OAKDEAN CONSTRUCTION LTD
12-14 GREVILLE STREET
LONDON EC1N 8SB
TEMPORARY WORKS ELEVATION & SECTION
12/02/19
2007-16
B
kingscote design
305X165UB40 STUB COLUMN
152UC37 PROP
150X150X10MM THICK END PLATE WELDED TO 152UC 37 WITH 6MM FULL PROFILE FW. END PLATE BOLTED TO FLANGE OF 305X165UB40 STUB COLUMN WITH 4 NO. M12 GRADE 8.8 BOLTS IN 14MM ø HOLES.
305X165UB40 WALER
150X150X10MM THICK END PLATE WELDED TO 152UC37 WITH 6MM FULL PROFILE FW. END PLATE BOLTED TO FLANGE OF 305X165UB40 WALER WITH 4 NO. M12 GRADE 8.8 BOLTS IN 14MM ø HOLES.
305X165UB40 STUB COLUMN ENCASED IN CONCRETE PAD FOUNDATION
PAD FOUNDATION 2.5X1.25X1.1M DEEP
HARD WOOD TIMBER WEDGE
305X165UB40 WALER
152UC37 PROP
250 RC SLAB
NEW 750 RC SLAB
EXISTING FFL 14.830
WALER 14.56M AOD
B
NOTE 50MM GAP BETWEEN WALL AND HORIZONTAL STEEL WALER TO BE INFILLED WITH HARDWOOD TIMBER FOLDING WEDGES
NOTE EXISTING CHIMNEYS ON NO. 14/15 PARTY WALL TO BE DEMOLISHED PRIOR TO THE INSTALLATION OF TEMPORARY PROPPINGS.
NOTE UNDERTAKE 24 NO. PULL-OUT TESTS ON PROPOSED RAWL M12 BONDED ANCHORS, 2 NO. AT EACH LEVEL ON NO. 11/12 PARTY WALL AND 2 NO. AT EACH LEVEL ON NO. 14/15 PARTY WALL RESULTS OF PULL-OUT TESTS TO BE FORWARDED TO KINGSCOTE DESIGN LTD PRIOR TO FIXING THE WALER STUB SUPPORT BEAMS TO THE WALLS. PULL -OUT TESTS NOT TO BE CARRIED OUT IN THE FINAL LOCATION OF ANY WALER SUPPORTS STUB BEAMS

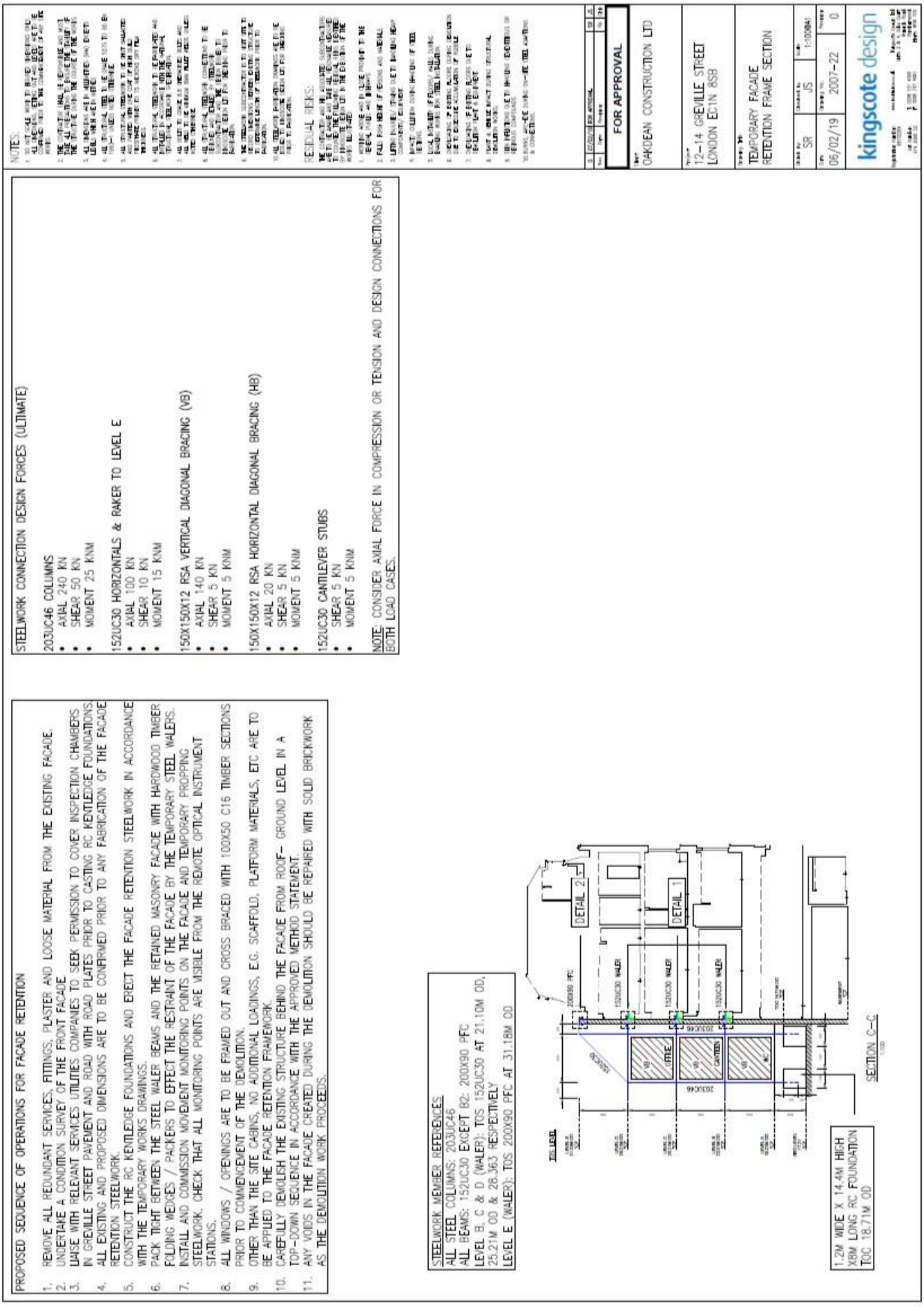

NOTES:
FOR APPROVAL
OAKDEAN CONSTRUCTION LTD
12-14 GREVILLE STREET
LONDON EC1N 8SB
ELEVATION ON PARTY WALL SHOWING TARGET POINTS FOR MOVEMENT MONITORING
SR
JS
25/01/19
2007-17
A
kingscote design
FREQUENCY OF MONITORING MOVEMENT IN NO. 12-14 GREVILLE STREET PARTY WALLS DURING DEMOLITION WORKS
THE FREQUENCY OF MONITORING SHALL BE IN ACCORDANCE WITH TABLE 9.1 OF CIRIA GUIDE C579, AS FOLLOWS:
STAGE
ACTIVITY
FREQUENCY
1. FROM INSTALLATION OF MONITORING TO START OF DEMOLITION
WEEKLY UNTIL READINGS HAVE STABILISED
2. DURING DEMOLITION WORKS
TWICE WEEKLY
3. CONSTRUCTION OF NEW STRUCTURE
WEEKLY UNTIL PARTY WALL IS TIED IN NTO NEW STRUCTURE, THEN MONTHLY
MONITORING OF MOVEMENT IN 12-14 GREVILLE STREET PARTY WALLS DURING DEMOLITION WORKS
METHOD
• CONTRACTOR'S CHOICE BUT ELECTRONIC SURVEY PREFERRED
ACCURACY OF READINGS
• LEVELS: +/-0.5MM
• PLUMB: +/-1MM
CRITICAL MOVEMENTS VERTICALLY
• TRIGGER VALUE: +/-3MM
• ACTION VALUE: +/-6MM
CRITICAL MOVEMENTS HORIZONTALLY
• TRIGGER VALUE: +/-5MM
• ACTION VALUE: +/-8MM
ACTIONS IF MOVEMENTS REACH CRITICAL VALUES:
• THE CRITICAL MOVEMENT VALUE RELATES TO THE DEFLECTION AT THE MIDSPAN OF THE WALERS
• TRIGGER VALUE– REVIEW SITUATION AND ASSESS POSSIBLE CAUSES
• ACTION VALUES– STOP DEMOLITION WORK AND REMSE WORKING PROCEDURES TO LIMIT FURTHER MOVEMENT
KEY
⊠ : DENOTES TARGET POINTS ON PARTY WALL
⊗ : DENOTES TARGET POINTS ON TEMPORARY RESTRAINT STEEL WORK
LEVELS OF TEMP WALER & PROPS
LEVELS OF TEMP WALER & PROPS
ELEVATION ON NO. 11 PARTY WALL SHOWING TARGET POINTS FOR MOVEMENT MONITORING
ELEVATION ON NO. 13 PARTY WALL SHOWING TARGET POINTS FOR MOVEMENT MONITORING

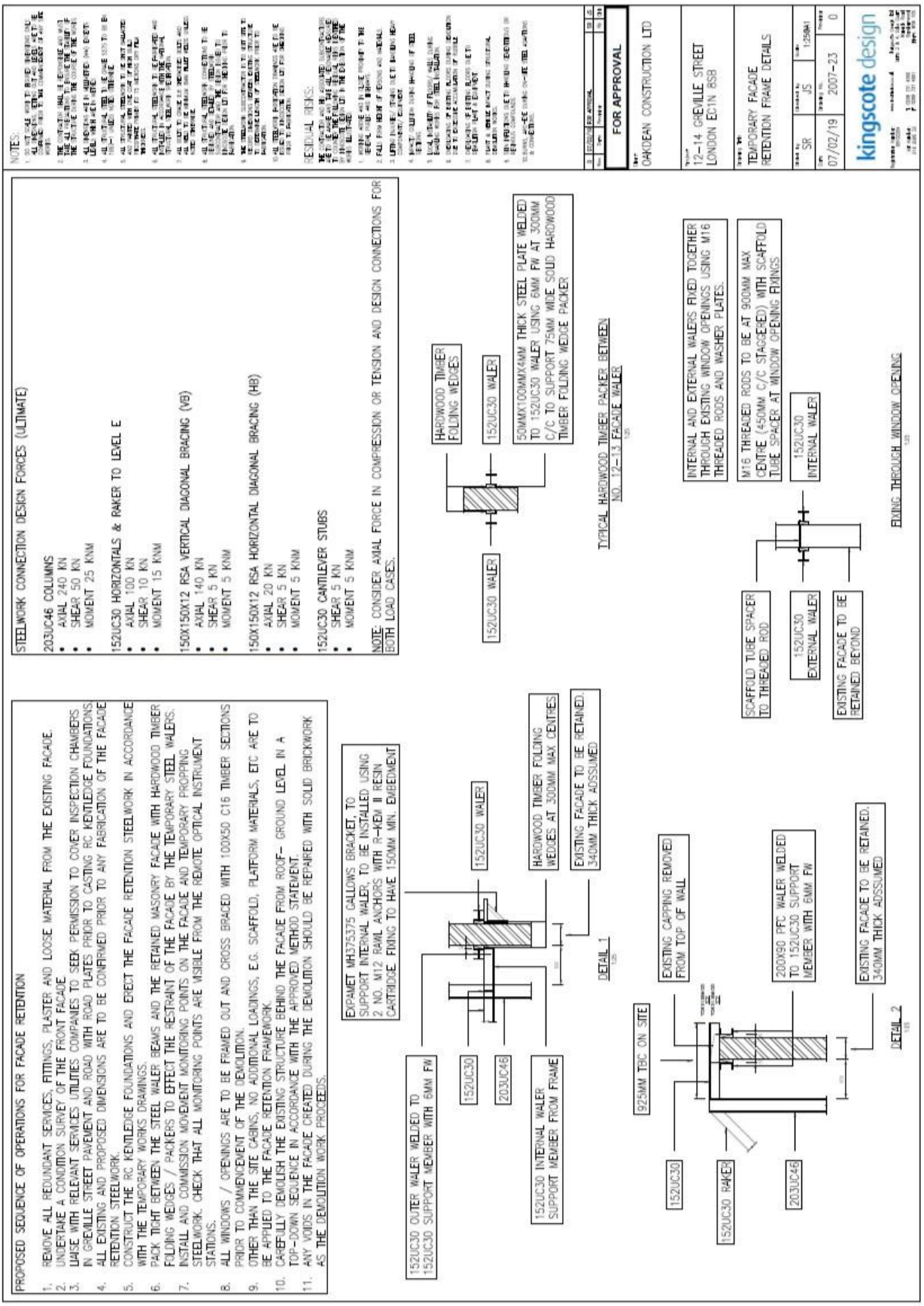

NOTES:
RESIDUAL RISKS:
FOR APPROVAL
OAKDEAN CONSTRUCTION LTD
12-14 GREVILLE STREET
LONDON EC1N 8SB
TEMPORARY FACADE
RETENTION FRAME AT GROUND
FLOOR LEVEL A
SR
JS
1:100@A1
05/02/19
2007-18
0
kingscote design
STEELWORK CONNECTION DESIGN FORCES (ULTIMATE)
203UC46 COLUMNS
AXIAL 240 KN
SHEAR 50 KN
MOMENT 25 KNM
152UC30 HORIZONTALS & RAKER TO LEVEL E
AXIAL 100 KN
SHEAR 10 KN
MOMENT 15 KNM
150X150X12 RSA VERTICAL DIAGONAL BRACING (VB)
AXIAL 140 KN
SHEAR 5 KN
MOMENT 5 KNM
150X150X12 RSA HORIZONTAL DIAGONAL BRACING (HB)
AXIAL 20 KN
SHEAR 5 KN
MOMENT 5 KNM
152UC30 CANTILEVER STUBS
SHEAR 5 KN
MOMENT 5 KNM
NOTE: CONSIDER AXIAL FORCE IN COMPRESSION OR TENSION AND DESIGN CONNECTIONS FOR BOTH LOAD CASES.
PROPOSED SEQUENCE OF OPERATIONS FOR FACADE RETENTION
1. REMOVE ALL REDUNDANT SERVICES, FITTINGS, PLASTER AND LOOSE MATERIAL FROM THE EXISTING FACADE.
2. UNDERTAKE A CONDITION SURVEY OF THE FRONT FACADE
3. LIAISE WITH RELEVANT SERVICES UTILITIES COMPANIES TO SEEK PERMISSION TO COVER INSPECTION CHAMBERS IN GREVILLE STREET PAVEMENT AND ROAD WITH ROAD PLATES PRIOR TO CASTING RC KENTLEDGE FOUNDATIONS.
4. ALL EXISTING AND PROPOSED DIMENSIONS ARE TO BE CONFIRMED PRIOR TO ANY FABRICATION OF THE FACADE RETENTION STEELWORK.
5. CONSTRUCT THE RC KENTLEDGE FOUNDATIONS AND ERECT THE FACADE RETENTION STEELWORK IN ACCORDANCE WITH THE TEMPORARY WORKS DRAWINGS.
6. PACK TIGHT BETWEEN THE STEEL WALER BEAMS AND THE RETAINED MASONRY FACADE WITH HARDWOOD TIMBER FOLDING WEDGES / PACKERS TO EFFECT THE RESTRAINT OF THE FACADE BY THE TEMPORARY STEEL WALERS.
7. INSTALL AND COMMISSION MOVEMENT MONITORING POINTS ON THE FACADE AND TEMPORARY PROPPING STEELWORK. CHECK THAT ALL MONITORING POINTS ARE VISIBLE FROM THE REMOTE OPTICAL INSTRUMENT STATIONS.
8. ALL WINDOWS / OPENINGS ARE TO BE FRAMED OUT AND CROSS BRACED WITH 100X50 C16 TIMBER SECTIONS PRIOR TO COMMENCEMENT OF THE DEMOLITION.
9. OTHER THAN THE SITE CABINS, NO ADDITIONAL LOADINGS, E.G. SCAFFOLD, PLATFORM MATERIALS, ETC ARE TO BE APPLIED TO THE FACADE RETENTION FRAMEWORK.
10. CAREFULLY DEMOLISH THE EXISTING STRUCTURE BEHIND THE FACADE FROM ROOF– GROUND LEVEL IN A TOP–DOWN SEQUENCE IN ACCORDANCE WITH THE APPROVED METHOD STATEMENT.
11. ANY VOIDS IN THE FACADE CREATED DURING THE DEMOLITION SHOULD BE REPAIRED WITH SOLID BRICKWORK AS THE DEMOLITION WORK PROCEEDS.
FOUNDATION TO BE CAST IN 2 SECTIONS.
1ST POUR 500MM HIGH.
2ND POUR 900MM HIGH.
1.2M WIDE X 1.4M HIGH X 8M LONG RC FOUNDATION ON EXTG PAVEMENT/ROAD TOC AT 18.71M OD
203UC46 EMBEDDED 900MM INTO RC FOUNDATION
NO. 12–13 GREVILLE ST FACADE
PLAN AT GROUND LEVEL – 17.31M OD
HATCHED AREA DENOTES WC CABIN (6096X2743X2400MM HIGH)
STEELWORK MEMBER REFERENCES
ALL STEEL COLUMNS: 203UC46
ALL BEAMS: 152UC30 EXCEPT B1: 152X89UB16
ALL VERTICAL DIAGONAL BRACING (VB): 150X150X12 RSA
ALL HORIZONTAL DIAGONAL BRACING (HB): 150X150X12 RSA
TOS AT 19.21M OD EXCEPT 152UC30* AT 19.363M OD
EXTERNAL WALKWAY
NO. 12–13 GREVILLE ST FACADE
PLAN AT LEVEL A – 19.21M OD
KEY PLAN
GROUND FLOOR

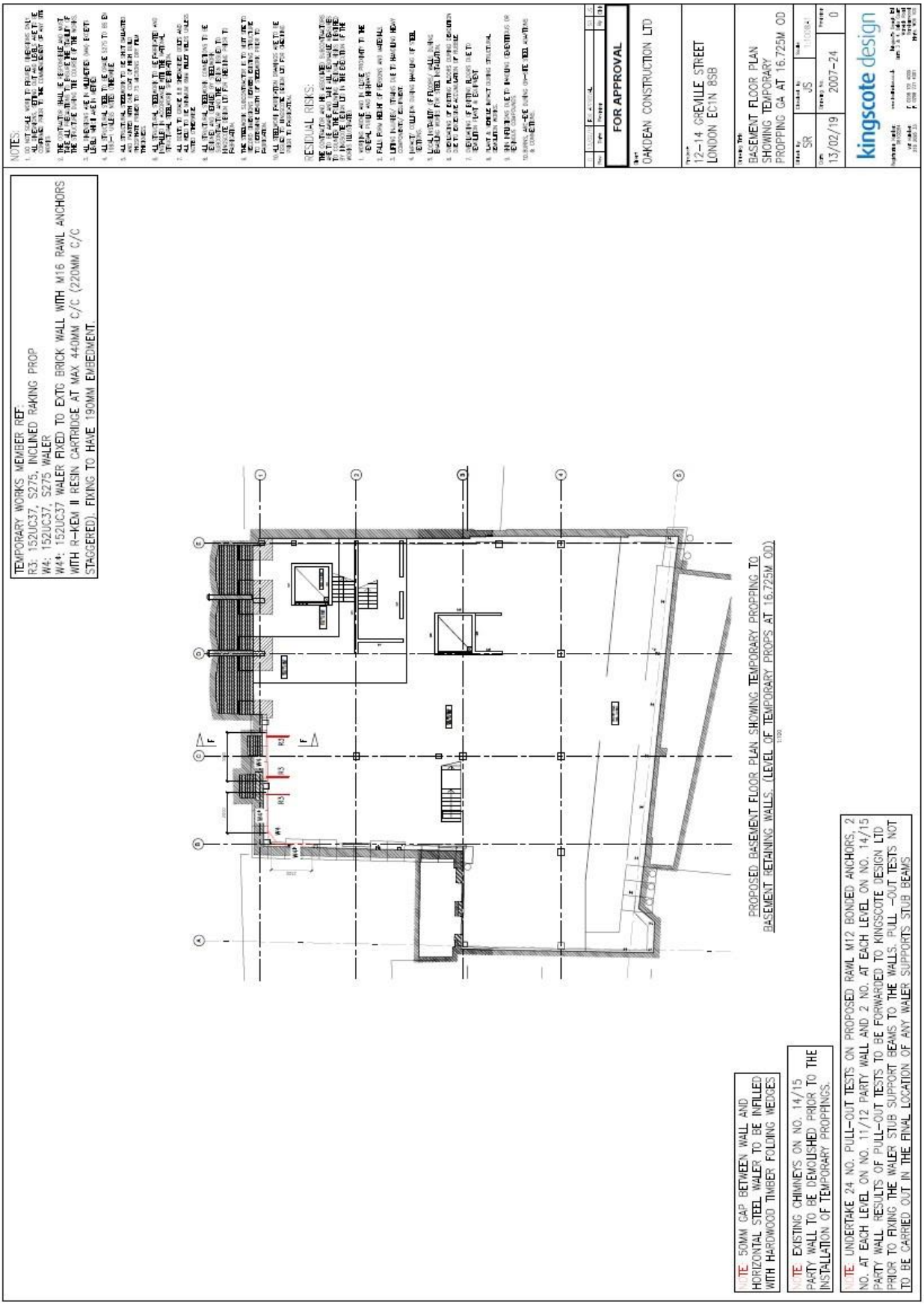

NOTE:
RESIDUAL RISKS:
FOR APPROVAL
OAKDEAN CONSTRUCTION LTD
12–14 GREVILLE STREET
LONDON EC1N 8SB
TEMPORARY FACADE
RETENTION FRAME AT FIRST
FLOOR LEVEL B
SR
JS
1:100@A1
05/02/19
2007–19
0
kingscote design
STEELWORK CONNECTION DESIGN FORCES (ULTIMATE)
203UC46 COLUMNS
AXIAL 240 KN
SHEAR 50 KN
MOMENT 25 KNM
152UC30 HORIZONTALS & RAKER TO LEVEL E
AXIAL 100 KN
SHEAR 10 KN
MOMENT 15 KNM
150X150X12 RSA VERTICAL DIAGONAL BRACING (VB)
AXIAL 140 KN
SHEAR 5 KN
MOMENT 5 KNM
150X150X12 RSA HORIZONTAL DIAGONAL BRACING (HB)
AXIAL 20 KN
SHEAR 5 KN
MOMENT 5 KNM
152UC30 CANTILEVER STUBS
SHEAR 5 KN
MOMENT 5 KNM
NOTE: CONSIDER AXIAL FORCE IN COMPRESSION OR TENSION AND DESIGN CONNECTIONS FOR BOTH LOAD CASES.
TOS LEVELS
LEVEL B: TOS 22.10M OD EXCEPT 152UC30▲ AT 22.162M OD
LEVEL C: TOS 25.21M OD EXCEPT 152UC30▲ AT 25.362M OD
LEVEL D: TOS 28.21M OD
PROPOSED SEQUENCE OF OPERATIONS FOR FACADE RETENTION
1. REMOVE ALL REDUNDANT SERVICES, FITTINGS, PLASTER AND LOOSE MATERIAL FROM THE EXISTING FACADE.
2. UNDERTAKE A CONDITION SURVEY OF THE FRONT FACADE
3. LIAISE WITH RELEVANT SERVICES UTILITIES COMPANIES TO SEEK PERMISSION TO COVER INSPECTION CHAMBERS IN GREVILLE STREET PAVEMENT AND ROAD WITH ROAD PLATES PRIOR TO CASTING RC KENTLEDGE FOUNDATIONS
4. ALL EXISTING AND PROPOSED DIMENSIONS ARE TO BE CONFIRMED PRIOR TO ANY FABRICATION OF THE FACADE RETENTION STEELWORK.
5. CONSTRUCT THE RC KENTLEDGE FOUNDATIONS AND ERECT THE FACADE RETENTION STEELWORK IN ACCORDANCE WITH THE TEMPORARY WORKS DRAWINGS.
6. PACK TIGHT BETWEEN THE STEEL WALER BEAMS AND THE RETAINED MASONRY FACADE WITH HARDWOOD TIMBER FOLDING WEDGES / PACKERS TO EFFECT THE RESTRAINT OF THE FACADE BY THE TEMPORARY STEEL WALERS.
7. INSTALL AND COMMISSION MOVEMENT MONITORING POINTS ON THE FACADE AND TEMPORARY PROPPING STEELWORK. CHECK THAT ALL MONITORING POINTS ARE VISIBLE FROM THE REMOTE OPTICAL INSTRUMENT STATIONS.
8. ALL WINDOWS / OPENINGS ARE TO BE FRAMED OUT AND CROSS BRACED WITH 100X50 C16 TIMBER SECTIONS PRIOR TO COMMENCEMENT OF THE DEMOLITION.
9. OTHER THAN THE SITE CABINS, NO ADDITIONAL LOADINGS, E.G. SCAFFOLD, PLATFORM MATERIALS, ETC ARE TO BE APPLIED TO THE FACADE RETENTION FRAMEWORK.
10. CAREFULLY DEMOLISH THE EXISTING STRUCTURE BEHIND THE FACADE FROM ROOF– GROUND LEVEL IN A TOP–DOWN SEQUENCE IN ACCORDANCE WITH THE APPROVED METHOD STATEMENT.
11. ANY VOIDS IN THE FACADE CREATED DURING THE DEMOLITION SHOULD BE REPAIRED WITH SOLID BRICKWORK AS THE DEMOLITION WORK PROCEEDS.
STEELWORK MEMBER REFERENCES
ALL STEEL COLUMNS: 203UC46
ALL BEAMS: 152UC30 EXCEPT B1: 152X89UB16
ALL VERTICAL DIAGONAL BRACING (VB): 150X150X12 RSA
ALL HORIZONTAL DIAGONAL BRACING (HB): 150X150X12 RSA
GB: EXPAMET MH375375 GALLOWS BRACKET
HATCHED AREA DENOTES OFFICE/CANTEEN CABIN (6096X2438X2400MM HIGH)
EXTERNAL WALKWAY
NO. 12–13 GREVILLE ST FACADE
PLAN AT LEVEL B – 22.10M OD
PLAN AT LEVEL C – 25.21M OD SIMILAR
PLAN AT LEVEL D – 28.21M OD SIMILAR (EXCEPT NO EXTERNAL WALKWAY)
FIRST FLOOR
KEY PLAN
TOS LEVEL
15 Greville Street
13 Greville Street
12 Greville Street


NOTES:
RESIDUAL RISKS:
FOR APPROVAL
OAKDEAN CONSTRUCTION LTD
12-14 GREVILLE STREET
LONDON EC1N 8SB
TEMPORARY FACADE RETENTION
FRAME PLAN AT ROOF LEVEL
(LEVEL E)
SR
JS
06/02/19
2007-20
0
kingscote design
KEY PLAN
PROPOSED SEQUENCE OF OPERATIONS FOR FACADE RETENTION
1. REMOVE ALL REDUNDANT SERVICES, FITTINGS, PLASTER AND LOOSE MATERIAL FROM THE EXISTING FACADE.
2. UNDERTAKE A CONDITION SURVEY OF THE FRONT FACADE
3. LIAISE WITH RELEVANT SERVICES UTILITIES COMPANIES TO SEEK PERMISSION TO COVER INSPECTION CHAMBERS IN GREVILLE STREET PAVEMENT AND ROAD WITH ROAD PLATES PRIOR TO CASTING RC KENTLEDGE FOUNDATIONS
4. ALL EXISTING AND PROPOSED DIMENSIONS ARE TO BE CONFIRMED PRIOR TO ANY FABRICATION OF THE FACADE RETENTION STEELWORK.
5. CONSTRUCT THE RC KENTLEDGE FOUNDATIONS AND ERECT THE FACADE RETENTION STEELWORK IN ACCORDANCE WITH THE TEMPORARY WORKS DRAWINGS.
6. PACK TIGHT BETWEEN THE STEEL WALER BEAMS AND THE RETAINED MASONRY FACADE WITH HARDWOOD TIMBER FOLDING WEDGES / PACKERS TO EFFECT THE RESTRAINT OF THE FACADE BY THE TEMPORARY STEEL WALERS.
7. INSTALL AND COMMISSION MOVEMENT MONITORING POINTS ON THE FACADE AND TEMPORARY PROPPING STEELWORK. CHECK THAT ALL MONITORING POINTS ARE VISIBLE FROM THE REMOTE OPTICAL INSTRUMENT STATIONS.
8. ALL WINDOWS / OPENINGS ARE TO BE FRAMED OUT AND CROSS BRACED WITH 100X50 C16 TIMBER SECTIONS PRIOR TO COMMENCEMENT OF THE DEMOLITION.
9. OTHER THAN THE SITE CABINS, NO ADDITIONAL LOADINGS, E.G. SCAFFOLD, PLATFORM MATERIALS, ETC ARE TO BE APPLIED TO THE FACADE RETENTION FRAMEWORK.
10. CAREFULLY DEMOLISH THE EXISTING STRUCTURE BEHIND THE FACADE FROM ROOF– GROUND LEVEL IN A TOP–DOWN SEQUENCE IN ACCORDANCE WITH THE APPROVED METHOD STATEMENT.
11. ANY VOIDS IN THE FACADE CREATED DURING THE DEMOLITION SHOULD BE REPAIRED WITH SOLID BRICKWORK AS THE DEMOLITION WORK PROCEEDS.
STEELWORK CONNECTION DESIGN FORCES (ULTIMATE)
203UC46 COLUMNS
• AXIAL 240 KN
• SHEAR 50 KN
• MOMENT 25 KNM
152UC30 HORIZONTALS & RAKER TO LEVEL E
• AXIAL 100 KN
• SHEAR 10 KN
• MOMENT 15 KNM
150X150X12 RSA VERTICAL DIAGONAL BRACING (VB)
• AXIAL 140 KN
• SHEAR 5 KN
• MOMENT 5 KNM
150X150X12 RSA HORIZONTAL DIAGONAL BRACING (HB)
• AXIAL 20 KN
• SHEAR 5 KN
• MOMENT 5 KNM
152UC30 CANTILEVER STUBS
• SHEAR 5 KN
• MOMENT 5 KNM
NOTE: CONSIDER AXIAL FORCE IN COMPRESSION OR TENSION AND DESIGN CONNECTIONS FOR BOTH LOAD CASES.
STEELWORK MEMBER REFERENCE
ALL COLUMNS: 203UC46
ALL BEAMS: 152UC30 EXCEPT B2: 200X90PFC
ALL VERTICAL DIAGONAL BRACING (VB): 150X150X12 RSA
TOS AT 31.33M OD EXCEPT 200X90 PFC* AT 31.18 OD
NO. 12–13 GREVILLE ST FACADE
PLAN AT LEVEL E – 31.33M OD
ROOF FLOOR


NOTES:
FOR APPROVAL
OAKDEAN CONSTRUCTION LTD
12-14 GREVILLE STREET
LONDON EC1N 8SB
TEMPORARY FACADE
RETENTION FRAME SECTIONS
06/02/19
2007-21
kingscote design
STEELWORK CONNECTION DESIGN FORCES (ULTIMATE)
203UC46 COLUMNS
AXIAL 240 KN
SHEAR 50 KN
MOMENT 25 KNM
152UC30 HORIZONTALS & RAKER TO LEVEL E
AXIAL 100 KN
SHEAR 10 KN
MOMENT 15 KNM
150X150X12 RSA VERTICAL DIAGONAL BRACING (VB)
AXIAL 140 KN
SHEAR 5 KN
MOMENT 5 KNM
150X150X12 RSA HORIZONTAL DIAGONAL BRACING (HB)
AXIAL 20 KN
SHEAR 5 KN
MOMENT 5 KNM
152UC30 CANTILEVER STUBS
SHEAR 5 KN
MOMENT 5 KNM
NOTE: CONSIDER AXIAL FORCE IN COMPRESSION OR TENSION AND DESIGN CONNECTIONS FOR BOTH LOAD CASES.
PROPOSED SEQUENCE OF OPERATIONS FOR FACADE RETENTION
1. REMOVE ALL REDUNDANT SERVICES, FITTINGS, PLASTER AND LOOSE MATERIAL FROM THE EXISTING FACADE
2. UNDERTAKE A CONDITION SURVEY OF THE FRONT FACADE
3. LIAISE WITH RELEVANT SERVICES UTILITIES COMPANIES TO SEEK PERMISSION TO COVER INSPECTION CHAMBERS IN GREVILLE STREET PAVEMENT AND ROAD WITH ROAD PLATES PRIOR TO CASTING RC KENTLEDGE FOUNDATIONS
4. ALL EXISTING AND PROPOSED DIMENSIONS ARE TO BE CONFIRMED PRIOR TO ANY FABRICATION OF THE FACADE RETENTION STEELWORK.
5. CONSTRUCT THE RC KENTLEDGE FOUNDATIONS AND ERECT THE FACADE RETENTION STEELWORK IN ACCORDANCE WITH THE TEMPORARY WORKS DRAWINGS.
6. PACK TIGHT BETWEEN THE STEEL WALER BEAMS AND THE RETAINED MASONRY FACADE WITH HARDWOOD TIMBER FOLDING WEDGES / PACKERS TO EFFECT THE RESTRAINT OF THE FACADE BY THE TEMPORARY STEEL WALERS.
7. INSTALL AND COMMISSION MOVEMENT MONITORING POINTS ON THE FACADE AND TEMPORARY PROPPING STEELWORK. CHECK THAT ALL MONITORING POINTS ARE VISIBLE FROM THE REMOTE OPTICAL INSTRUMENT STATIONS.
8. ALL WINDOWS / OPENINGS ARE TO BE FRAMED OUT AND CROSS BRACED WITH 100X50 C16 TIMBER SECTIONS PRIOR TO COMMENCEMENT OF THE DEMOLITION.
9. OTHER THAN THE SITE CABINS, NO ADDITIONAL LOADINGS, E.G. SCAFFOLD, PLATFORM MATERIALS, ETC ARE TO BE APPLIED TO THE FACADE RETENTION FRAMEWORK.
10. CAREFULLY DEMOLISH THE EXISTING STRUCTURE BEHIND THE FACADE FROM ROOF– GROUND LEVEL IN A TOP–DOWN SEQUENCE IN ACCORDANCE WITH THE APPROVED METHOD STATEMENT.
11. ANY VOIDS IN THE FACADE CREATED DURING THE DEMOLITION SHOULD BE REPAIRED WITH SOLID BRICKWORK AS THE DEMOLITION WORK PROCEEDS.
STEELWORK MEMBER REFERENCES
ALL STEEL COLUMNS: 203UC46
ALL BEAMS: 152UC30 EXCEPT B2: 200X90 PFC
LEVEL B, C & D (WALER): TOS 152UC30 AT 21.10M OD, 25.21M OD & 28.363 RESPECTIVELY
LEVEL E (WALER): TOS 200X90 PFC AT 31.18M OD
TOS LEVELS (CABIN SUPPORT BEAM)
LEVEL A: TOS 19.363M OD
LEVEL B: TOS 22.162M OD
LEVEL C: TOS 25.362M OD
STEELWORK MEMBER REFERENCES
ALL STEEL COLUMNS: 203UC46
ALL BEAMS: 152UC30
ALL VERTICAL DIAGONAL BRACING (VB): 150X150X12 RSA
ALL HORIZONTAL DIAGONAL BRACING (HB): 150X150X12 RSA
1.2M WIDE X 14.4M HIGH X8M LONG RC FOUNDATION TOC: 18.71M OD
1.2M WIDE X 14.4M HIGH X8M LONG RC FOUNDATION TOC: 18.71M OD
SECTION A–A
SECTION B–B
DETAIL 1
DETAIL 2


NOTES:
RESIDUAL RISKS:
FOR APPROVAL
OAKDEAN CONSTRUCTION LTD
12-14 GREVILLE STREET
LONDON EC1N 8SB
TEMPORARY FACADE
RETENTION FRAME SECTION
SR
JS
1:100@A1
06/02/19
2007-22
0
kingscote design
PROPOSED SEQUENCE OF OPERATIONS FOR FACADE RETENTION
1. REMOVE ALL REDUNDANT SERVICES, FITTINGS, PLASTER AND LOOSE MATERIAL FROM THE EXISTING FACADE.
2. UNDERTAKE A CONDITION SURVEY OF THE FRONT FACADE.
3. LIAISE WITH RELEVANT SERVICES UTILITIES COMPANIES TO SEEK PERMISSION TO COVER INSPECTION CHAMBERS IN GREVILLE STREET PAVEMENT AND ROAD WITH ROAD PLATES PRIOR TO CASTING RC KENTLEDGE FOUNDATIONS.
4. ALL EXISTING AND PROPOSED DIMENSIONS ARE TO BE CONFIRMED PRIOR TO ANY FABRICATION OF THE FACADE RETENTION STEELWORK.
5. CONSTRUCT THE RC KENTLEDGE FOUNDATIONS AND ERECT THE FACADE RETENTION STEELWORK IN ACCORDANCE WITH THE TEMPORARY WORKS DRAWINGS.
6. PACK TIGHT BETWEEN THE STEEL WALER BEAMS AND THE RETAINED MASONRY FACADE WITH HARDWOOD TIMBER FOLDING WEDGES / PACKERS TO EFFECT THE RESTRAINT OF THE FACADE BY THE TEMPORARY STEEL WALERS.
7. INSTALL AND COMMISSION MOVEMENT MONITORING POINTS ON THE FACADE AND TEMPORARY PROPPING STEELWORK. CHECK THAT ALL MONITORING POINTS ARE VISIBLE FROM THE REMOTE OPTICAL INSTRUMENT STATIONS.
8. ALL WINDOWS / OPENINGS ARE TO BE FRAMED OUT AND CROSS BRACED WITH 100X50 C16 TIMBER SECTIONS PRIOR TO COMMENCEMENT OF THE DEMOLITION.
9. OTHER THAN THE SITE CABINS, NO ADDITIONAL LOADINGS, E.G. SCAFFOLD, PLATFORM MATERIALS, ETC ARE TO BE APPLIED TO THE FACADE RETENTION FRAMEWORK.
10. CAREFULLY DEMOLISH THE EXISTING STRUCTURE BEHIND THE FACADE FROM ROOF– GROUND LEVEL IN A TOP–DOWN SEQUENCE IN ACCORDANCE WITH THE APPROVED METHOD STATEMENT.
11. ANY VOIDS IN THE FACADE CREATED DURING THE DEMOLITION SHOULD BE REPAIRED WITH SOLID BRICKWORK AS THE DEMOLITION WORK PROCEEDS.
STEELWORK CONNECTION DESIGN FORCES (ULTIMATE)
203UC46 COLUMNS
• AXIAL 240 KN
• SHEAR 50 KN
• MOMENT 25 KNM
152UC30 HORIZONTALS & RAKER TO LEVEL E
• AXIAL 100 KN
• SHEAR 10 KN
• MOMENT 15 KNM
150X150X12 RSA VERTICAL DIAGONAL BRACING (VB)
• AXIAL 140 KN
• SHEAR 5 KN
• MOMENT 5 KNM
150X150X12 RSA HORIZONTAL DIAGONAL BRACING (HB)
• AXIAL 20 KN
• SHEAR 5 KN
• MOMENT 5 KNM
152UC30 CANTILEVER STUBS
• SHEAR 5 KN
• MOMENT 5 KNM
NOTE: CONSIDER AXIAL FORCE IN COMPRESSION OR TENSION AND DESIGN CONNECTIONS FOR BOTH LOAD CASES.
STEELWORK MEMBER REFERENCES
ALL STEEL COLUMNS: 203UC46
ALL BEAMS: 152UC30 EXCEPT B2: 200X90 PFC
LEVEL B, C & D (WALER): TOS 152UC30 AT 21.10M OD, 25.21M OD & 28.363 RESPECTIVELY
LEVEL E (WALER): TOS 200X90 PFC AT 31.18M OD
1.2M WIDE X 14.4M HIGH X6M LONG RC FOUNDATION TOC 18.71M OD
DETAIL 1
DETAIL 2
SECTION C–C


PROPOSED SEQUENCE OF OPERATIONS FOR FACADE RETENTION
1. REMOVE ALL REDUNDANT SERVICES, FITTINGS, PLASTER AND LOOSE MATERIAL FROM THE EXISTING FACADE.
2. UNDERTAKE A CONDITION SURVEY OF THE FRONT FACADE
3. LIAISE WITH RELEVANT SERVICES UTILITIES COMPANIES TO SEEK PERMISSION TO COVER INSPECTION CHAMBERS IN GREVILLE STREET PAVEMENT AND ROAD WITH ROAD PLATES PRIOR TO CASTING RC KENTLEDGE FOUNDATIONS.
4. ALL EXISTING AND PROPOSED DIMENSIONS ARE TO BE CONFIRMED PRIOR TO ANY FABRICATION OF THE FACADE RETENTION STEELWORK.
5. CONSTRUCT THE RC KENTLEDGE FOUNDATIONS AND ERECT THE FACADE RETENTION STEELWORK IN ACCORDANCE WITH THE TEMPORARY WORKS DRAWINGS.
6. PACK TIGHT BETWEEN THE STEEL WALER BEAMS AND THE RETAINED MASONRY FACADE WITH HARDWOOD TIMBER FOLDING WEDGES / PACKERS TO EFFECT THE RESTRAINT OF THE FACADE BY THE TEMPORARY STEEL WALERS.
7. INSTALL AND COMMISSION MOVEMENT MONITORING POINTS ON THE FACADE AND TEMPORARY PROPPING STEELWORK. CHECK THAT ALL MONITORING POINTS ARE VISIBLE FROM THE REMOTE OPTICAL INSTRUMENT STATIONS.
8. ALL WINDOWS / OPENINGS ARE TO BE FRAMED OUT AND CROSS BRACED WITH 100X50 C16 TIMBER SECTIONS PRIOR TO COMMENCEMENT OF THE DEMOLITION.
9. OTHER THAN THE SITE CABINS, NO ADDITIONAL LOADINGS, E.G. SCAFFOLD, PLATFORM MATERIALS, ETC ARE TO BE APPLIED TO THE FACADE RETENTION FRAMEWORK.
10. CAREFULLY DEMOLISH THE EXISTING STRUCTURE BEHIND THE FACADE FROM ROOF– GROUND LEVEL IN A TOP–DOWN SEQUENCE IN ACCORDANCE WITH THE APPROVED METHOD STATEMENT.
11. ANY VOIDS IN THE FACADE CREATED DURING THE DEMOLITION SHOULD BE REPAIRED WITH SOLID BRICKWORK AS THE DEMOLITION WORK PROCEEDS.
STEELWORK CONNECTION DESIGN FORCES (ULTIMATE)
203UC46 COLUMNS
• AXIAL 240 KN
• SHEAR 50 KN
• MOMENT 25 KNM
152UC30 HORIZONTALS & RAKER TO LEVEL E
• AXIAL 100 KN
• SHEAR 10 KN
• MOMENT 15 KNM
150X150X12 RSA VERTICAL DIAGONAL BRACING (VB)
• AXIAL 140 KN
• SHEAR 5 KN
• MOMENT 5 KNM
150X150X12 RSA HORIZONTAL DIAGONAL BRACING (HB)
• AXIAL 20 KN
• SHEAR 5 KN
• MOMENT 5 KNM
152UC30 CANTILEVER STUBS
• SHEAR 5 KN
• MOMENT 5 KNM
NOTE: CONSIDER AXIAL FORCE IN COMPRESSION OR TENSION AND DESIGN CONNECTIONS FOR BOTH LOAD CASES.
NOTES:
RESIDUAL ITEMS:
FOR APPROVAL
OAKDEAN CONSTRUCTION LTD
12–14 GREVILLE STREET
LONDON EC1N 8SB
TEMPORARY FACADE
RETENTION FRAME DETAILS
SR
JS
1:25@A1
07/02/19
2007–23
0
kingscote design
HARDWOOD TIMBER
FOLDING WEDGES
152UC30 WALER
50MMX100MMX4MM THICK STEEL PLATE WELDED TO 152UC30 WALER USING 6MM FW AT 300MM C/C TO SUPPORT 75MM WIDE SOLID HARDWOOD TIMBER FOLDING WEDGE PACKER
TYPICAL HARDWOOD TIMBER PACKER BETWEEN NO. 12–13 FACADE WALER
INTERNAL AND EXTERNAL WALERS FIXED TOGETHER THROUGH EXISTING WINDOW OPENINGS USING M16 THREADED RODS AND WASHER PLATES.
M16 THREADED RODS TO BE AT 900MM MAX CENTRE (450MM C/C STAGGERED) WITH SCAFFOLD TUBE SPACER AT WINDOW OPENING FIXINGS
152UC30
INTERNAL WALER
SCAFFOLD TUBE SPACER TO THREADED ROD
152UC30
EXTERNAL WALER
EXISTING FACADE TO BE RETAINED BEYOND
FIXING THROUGH WINDOW OPENING
EXPAMET MH375375 CALLOWS BRACKET, TO SUPPORT INTERNAL WALER, TO BE INSTALLED USING 2 NO. M12 RAWL ANCHORS WITH R–KEM II RESIN CARTRIDGE FIXING TO HAVE 150MM MIN. EMBEDMENT
152UC30 OUTER WALER WELDED TO 152UC30 SUPPORT MEMBER WITH 6MM FW
152UC30
203UC46
152UC30 WALER
HARDWOOD TIMBER FOLDING WEDGES AT 300MM MAX CENTRES
152UC30 INTERNAL WALER SUPPORT MEMBER FROM FRAME
EXISTING FACADE TO BE RETAINED. 340MM THICK ADSSUMED
DETAIL 1
925MM TBC ON SITE
EXISTING CAPPING REMOVED FROM TOP OF WALL
200X90 PFC WALER WELDED TO 152UC30 SUPPORT MEMBER WITH 6MM FW
EXISTING FACADE TO BE RETAINED. 340MM THICK ADSSUMED
152UC30
152UC30 RAKER
203UC46
DETAIL 2


NOTES:
RESIDUAL RISKS:
TEMPORARY WORKS MEMBER REF:
R3: 152UC37, S275, INCLINED RAKING PROP
W4: 152UC37, S275 WALER
W44: 152UC37 WALER FIXED TO EXTG BRICK WALL WITH M16 RAWL ANCHORS WITH R-KEM II RESIN CARTRIDGE AT MAX 440MM C/C (220MM C/C STAGGERED). FIXING TO HAVE 190MM EMBEDMENT.
FOR APPROVAL
OAKDEAN CONSTRUCTION LTD
12-14 GREVILLE STREET
LONDON EC1N 8SB
BASEMENT FLOOR PLAN
SHOWING TEMPORARY
PROPPING GA AT 16.725M OD
SR
JS
13/02/19
2007-24
0
kingscote design
PROPOSED BASEMENT FLOOR PLAN SHOWING TEMPORARY PROPPING TO BASEMENT RETAINING WALLS. (LEVEL OF TEMPORARY PROPS AT 16.725M OD)
NOTE: 50MM GAP BETWEEN WALL AND HORIZONTAL STEEL WALER TO BE INFILLED WITH HARDWOOD TIMBER FOLDING WEDGES
NOTE: EXISTING CHIMNEYS ON NO. 14/15 PARTY WALL TO BE DEMOLISHED PRIOR TO THE INSTALLATION OF TEMPORARY PROPPINGS.
NOTE: UNDERTAKE 24 NO. PULL-OUT TESTS ON PROPOSED RAWL M12 BONDED ANCHORS, 2 NO. AT EACH LEVEL ON NO. 11/12 PARTY WALL AND 2 NO. AT EACH LEVEL ON NO. 14/15 PARTY WALL RESULTS OF PULL-OUT TESTS TO BE FORWARDED TO KINGSCOTE DESIGN LTD PRIOR TO FIXING THE WALER STUB SUPPORT BEAMS TO THE WALLS. PULL -OUT TESTS NOT TO BE CARRIED OUT IN THE FINAL LOCATION OF ANY WALER SUPPORTS STUB BEAMS

Appendix D – Briefing Register

Acknowledgement Sign Off Sheet			
Document No.	GREVILLE – MS – 03	Person Giving Talk:	

Attendees

	Name	Signature I have read or have been communicated this SSoW and understand its content and will not deviate from it	Date
1			
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Operative Feedback and Suggestions

If you have any comments or ideas on safer methods of working then write them here and discuss them with the instructor