

SAL-1285 – 29-33 Chalk Farm Road – Camden Town – Northern Line - Southbound Running Tunnel - Condition Survey R0

Lateral Reference (Ring Number)	Longitude Reference (Tunnel Section Part)	Condition Details	Photograph Reference
	Right Axis	Missing Bolt	
	Right Knee	Residue from Historic Water Ingress	
674	Right Axis	Missing Bolt	
677	Left Axis	Residue from Historic Water Ingress	NL-SB-20
678	Left Knee	Residue from Historic Water Ingress	
	Right Axis	Missing Bolt	
679	Right Shoulder	Damaged Segment	NL-SB-21
682	Right Axis	Missing Bolt	
684	Left Shoulder	Residue from Historic Water Ingress	
686	Left Shoulder	Residue from Historic Water Ingress	
	Right Axis	Missing Bolt	
687	Crown	Residue from Historic Water Ingress	
688	Left Axis	Residue from Historic Water Ingress	
689	Right Axis	Residue from Historic Water Ingress	
690	Left Axis	Residue from Historic Water Ingress	NL-SB-22
	Right Axis	Missing Bolt	
692	Left Knee	Residue from Historic Water Ingress	
694	Right Axis	Missing Bolt	
698	Right Shoulder	Residue from Historic Water Ingress	
699	Right Knee	Residue from Historic Water Ingress	
701	Left Axis	Residue from Historic Water Ingress	
	Left Shoulder	Residue from Historic Water Ingress	
702	Right Axis	Missing Bolt	
705	Right Knee	Residue from Historic Water Ingress	
706	Right Axis	2x Missing Bolt	
707	Left Knee	Residue from Historic Water Ingress	
710	Right Axis	Missing Bolt	
713	Left Knee	Residue from Historic Water Ingress	
	Crown	Residue from Historic Water Ingress	NL-SB-23
714	Left Axis	Residue from Historic Water Ingress	
	Left Shoulder	Residue from Historic Water Ingress	
	Right Axis	Missing Bolt	
715	Left Axis	Residue from Historic Water Ingress	
	Left Shoulder	Residue from Historic Water Ingress	
717	Left Knee	Residue from Historic Water Ingress	
718	Left Axis	Residue from Historic Water Ingress	
	Left Shoulder	Residue from Historic Water Ingress	
	Right Axis	2x Missing Bolt	
719	Right Axis	Missing Bolt	
	Right Knee	Missing Bolt	
721	Left Knee	Residue from Historic Water Ingress	
	Right Knee	Missing Bolt	
722	Left Knee	Residue from Historic Water Ingress	
	Right Axis	Missing Bolt	
723	Left Shoulder	Residue from Historic Water Ingress	NL-SB-24
	Right Shoulder	Residue from Historic Water Ingress	
724	Right Axis	Missing Bolt	
	Right Knee	Missing Bolt	
726	Left Knee	Residue from Historic Water Ingress	
	Right Axis	2x Missing Bolt	
730	Left Knee	Residue from Historic Water Ingress	
End point	Right Axis	Sign	NL-SB-25

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29-33 Chalk Farm Road, Camden Town, Northern Line, Southbound Running Tunnel

1. General View



2. Schedule of Condition inspection photographs



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Appendix D

Document TLF-716

Civil/Structural Engineering Design

Item No	Item	Description (Put in Not Applicable where not applicable)
CE1	Design Concept (Basement Only)	
	<p>The basement structure for the development at Collindale Avenue is to be 3.93m deep - based on Ground Floor (28.540m SSL) to Basement (24.610m SSL)</p> <p>The perimeter of the structure will be formed using contiguous auger bore piled wall with a reinforced concrete capping beam. The excavation of the basement will be formed during a controlled excavation with temporary propping to the top and bottom of the piled wall.</p>	
CE2	Design Criteria	
	<p>The design of the basement structure is based on the Geotechnical Soil Investigation undertaken by Crossfield Consulting Limited dated February 2009.</p> <p>Design is based on BS8002/CIRIA C580.</p> <p>Typical strength profile for the london Clay, Su – 25kPA at 2m depth increasing to 90kPA at 7m depth.</p> <p>The perimeter piled wall is designed for the following loads:</p> <ul style="list-style-type: none"> Surcharge Load – 10 kN/m² 	
	Loading Criteria – In Operation/Use	10 kN/m ²
	Loading Criteria – Installation	10 kN/m ²
	Loading Criteria – Removal	10 kN/m ²
	Load Transfers	NO
	Waybeam Requirements	
CE3	Foundations/Suspension/Anchorage	
	<p>The foundations are Auger Bore Piles to the perimeter and load bearing structure to the internal structure. This is split into two categories, the perimeter wall and the internal load bearing structure:</p> <ul style="list-style-type: none"> Perimeter foundations are 300mm diameter auger bore piled wall. This will be a contiguous piled wall The internal structure has load bearing pad and strip foundations. 	
CE4	Use of, or need for, Fixings or Elements built into existing assets and/or the Permanent Works	

	None Required
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Item No	Item and Description (Put in Not Applicable where not applicable)
CE5	Soil Properties and Effects on Drainage
	<p>The soil properties have been investigated – see attached Borehole logs.</p> <p>The structure being built is a basement through London Clay. All Grey water will be channelled into an internal pumping chamber for discharge to the Local Authority sewer in Chalk Farm Road.</p>
CE6	Drainage Proposals
	Parameters for proposed drainage design as part of Temporary Works, arrangements for drainage and their effects on the existing drainage system. Note that crash decks/roofed Temporary Works will require a drainage design for the effects of water and must include a proper drainage path to approved discharge.
CE7	Stability Requirements during Erection, Use and Decommissioning (If not covered in Design Criteria)
	The structure will remain stable during construction by the installation of the permanent ground floor slab with steel beams. The ground floor slab will be installed in sequence to form the prop to the piled wall prior to excavation. Elements of the slab will remain void for the removal of excavated soil. These areas of slab will be infilled once the excavation is complete. This minimises the requirement for temporary propping and associated transfer movement effects when temporary supports are removed and permanent structure is installed.
CE8	Use of proprietary systems and sub-contracted (Specialist) systems and responsibility for their design
	None Required
CE9	Corrosion
	None Required
CE10	Additional Information

SECTION C–Design Documentation**(All documents required which are not on the Project MDL must be attached)**

Document	Attached	Reference	Details / Reason for Inclusion
Design Documentation			
Approved Scope of Works (For Temporary Works)	No		
Method Statement(s) and Decommissioning Plan	No		
Calculations (Cat 0 to 2 Works)	No		
Calculations & Sketches (Supporting of Cat 3 check)	Yes	<i>Drawings embedded in Submission Document</i>	<i>Verification of Proposed Structure</i>
Drawings / Sketches	Yes	<i>Drawings embedded in Submission Document</i>	<i>Floor Plan Layouts and section showing piled wall and location of London Underground Tunnel.</i>
Testing results - pullout, plate bearing etc)	No		
Site Investigation Reports	Yes	<i>Borehole Log</i>	<i>Soil Condition and borehole logs</i>
Product Technical Data	No		
Structural Assessments & drawings (QSLA – TLF 720)	Yes		
Authorisations / Licences / Permits			
Hazardous materials (TLF-187 Submission)	No		
Fire Approvals / Bb224	No		Bb224 approval from LU FSU / LFEPA provided by the Fire Engineer to be added if required.
Materials Certification	No		
Movement of Materials Licences	No		
Storage Licence (Plant or Materials)	No/		
Hot Works Permits(s)	No		
Power Loading (Electrical Load Application)	No		
Local Authority Licences	No		
Waste Licenses	No		
Building Regulations Application (TLL)	No		

Space Allocation	No		
Access and Clearances			
Crane Plan	No		
Crane Specification	No		
Traffic Plan (Local Authority Approvals)	No		
Track Clearances	No		
Accompanying Assurance Documentation			
Emergency Preparedness Plan (EPP)	No		
CDS for Monitoring Regime (Use form TLF 444)	No		

Concessions Against Standards

	Title and Reason	Against Standard No.	Document reference	Date
Submitted				
Obtained				

SECTION D – Design Organisation’s Declaration for Items

This sections is for signatures of those relevant authorities/ competent person in the disciplines concerned

COMPANY NAME:	Pringuer-James Consulting Engineers
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Designer’s Declaration

I certify that above design complies with the design intent of the Temporary Works and integrates with other disciplines to meet all the requirements stated in items listed above & that the design has been accurately translated into theTemporary Works drawings and that the calculations, specification and drawings have been checked within the design group.

Signed:

Designer: *Teodor Perfanov*

Date: *November 2012*

Design Checker’s Declaration

I certify that above design complies with the design intent of the Temporary Works and integrates with other disciplines to meet all the requirements stated in items listed above & that the design has been accurately translated into theTemporary Works drawings and that the calculations, specification and drawings have been checked within the design group.

Signed:

Designer: *Sean Pringuer-James*

Date: *Nov 2012*

Note: The preparer and the checker are different people

Design Approver’s Declaration
Discipline: *Structural Engineer*

I certify that I have reviewed this design and confirm that it complies with the design intent in relation to Temporary Works as in the items listed above and integrates with other discipline designs to meet all the relevant requirements (except any specifically noted). I also confirm that the design has been accurately translated into the Temporary Works documents and that the calculations, specification and drawings have been check in accordance with clause 11 of the Notes to this document.

Signed:

Designer: (Print or type name)

Date:

SECTION E1 – Category 3 Checking Organisation

For Items:

Name of Company/Partnership*:(Print or type name)

 (*delete as appropriate)

I certify that the above design has been checked by my firm and that it complies with the Design Brief and the Design Statement dated (see above) and the Drawings listed. Any errors identified in the Drawings have been corrected to my satisfaction.

Signed:

Director/Partner*: (Print or type name)

Date:

SECTION E2 – Category 3 Checking Organisation

For Items:

Name of Company/Partnership*:(Print or type name)

 (*delete as appropriate)

I certify that the above design has been checked by my firm and that it complies with the Design Brief and the Design Statement dated (see above) and the Drawings listed. Any errors identified in the Drawings have been corrected to my satisfaction.

Signed:

Director/Partner*: (Print or type name)

Date:

(Add more sections E3, E4 etc as required)

SECTION F– Tube Lines’ Reviewer’s Endorsement

(Note: This Section is for Tube Lines Engineer’s Signatures Only)

This section is for the “Endorsement” by the relevant Tube Lines Ltd accredited Discipline Engineers that the Temporary Works documentation for the relevant items have been completed satisfactorily and is also used for “Approval” of TLL internally designed Temporary Works.

Tube Lines Reviewers Endorsement

Discipline:

For Items:

I certify that I have reviewed this design and confirm that it complies with the design intent in relation to Temporary Works as in the items listed above and integrates with other discipline designs to meet all the relevant requirements (except any specifically noted). I also confirm that the design has been accurately translated into the Temporary Works documents and that the calculations, specification and drawings have been independently checked in accordance with clause 11 of the Notes to this document. Any errors identified in the calculations or drawings have been corrected to my satisfaction.

Signed:

Discipline Reviewer: (Print or type name)

Date:

Tube Lines Reviewers Endorsement

Discipline:

For Items:

I certify that I have reviewed this design and confirm that it complies with the design intent in relation to Temporary Works as in the items listed above and integrates with other discipline designs to meet all the relevant requirements (except any specifically noted). I also confirm that the design has been accurately translated into the Temporary Works documents and that the calculations, specification and drawings have been independently checked in accordance with clause 11 of the Notes to this document. Any errors identified in the calculations or drawings have been corrected to my satisfaction.

Signed:

Discipline Reviewer: (Print or type name)

Date:

Tube Lines Reviewers Endorsement

Discipline:

For Items:

I certify that I have reviewed this design and confirm that it complies with the design intent in relation to Temporary Works as in the items listed above and integrates with other discipline designs to meet all the relevant requirements (except any specifically noted). I also confirm that the design has been accurately translated into the Temporary Works documents and that the calculations, specification and drawings have been independently checked in accordance with clause 11 of the Notes to this document. Any errors identified in the calculations or drawings have been corrected to my satisfaction.

Signed:

Discipline Reviewer: (Print or type name)

Date:

(Add more sections F4, F5 etc as required)