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Regulation Authority

Name:

Environment Agency

Address

National Customer Contact Centre

99 Parkway Avenue

Sheffield

S9 4WF

Tel:

03708 506 506 Fax:

0114 2626697

The Environment Agency certify that the following information is entered in the register which they maintain under regulation 28 of the Waste (England and Wales) Regulations 2011:-

Name(s) of registered carrier:

JOHN F. HUNT DEMOLITION LTD

Registered as an:

Upper Tier Carrier Dealer

Registration number:

CB/QM3741GW

Business name (if any):

Address of principal place of business:

EUROPA PARK LONDON ROAD,

GRAYS, ESSEX,

Tel: 0137 539 2333

RM20 4DB

Fax: 0137 536 6800

Date of registration:

17/02/2014

Date of expiry of registration (unless revoked):

11/02/2017

Signature of authorised officer of the regulation authority:

Land figure

Date: 17/02/2014



307609



100 AVENUE, SWISS COTTAGE

Outline Basement Construction Method Statement/ Approach to basement Construction

July 2016 60469727 /

Prepared for

Essential Living (Swiss Cottage) Ltd

Issue	Date	Details	Prepared by	Checked by	Approved by
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1. BACKGROUND

AECOM act as Structural Consultants for Essential Living (Swiss Cottage) Ltd in respect of the 100 Avenue Road Swiss Cottage development. The proposed development is sited in close proximity to the Swiss cottage London Underground Ltd's (LUL) demise. Full details of the development and it's interface with the LUL demise is set out in a separate report produced by Aecom titled "Impact Assessment Report for Interface with LUL" Ref: LORP0013.

This document is intended to provide a conceptual basement construction method statement and provide an understanding of the basement construction sequence. The particulars of this report will be further developed with the appointed main contractor and LUL.

All proposals will be subject to agreement with LUL.

2. METHOD STATEMENT

2.1 General

The outline basement construction method statement is the conceptual sequence of work is associated with temporary works, demolition and sequence of basement construction .

3. SEQUENCE OF WORKS

A Temporary Sheet pile retaining wall will be installed around the perimeter of the proposed basement prior to the basement excavation. Drawing 2140 in section 5 of this report indicated the existing and proposed basement outlines and their proximity to the LUL demise. Also indicated on this drawing is the line of proposed sheet piling.

The following sequence of operations is proposed for forming the basement.

Situation 1 - Wall of Existing Basement in Proximity of LUL Demise, Single Stage Excavation

- Undertake a pre-construction condition survey of LUL assets as set out in separate documentation produced by Aecom and agreed with LUL.
- 2. Part demolition and infilled profile for sheet piling construction platform as Section 1-1 below.
- Installation of non-vibrating sheet piles adjacent to the LUL assets/ basement wall boundaries. The sheet piles will be installed by use on noise and vibration limiting methods to the line indicated on drawing 2140 below.
- 4. The existing structure is to remain in place to provide temporary support to initial excavation during the first phase of earthworks where practical.
- Undertake bulk excavation around perimeter leaving a bund of soil against sheet pile to provide restraint to the sheets until props are installed.
- Excavated the bund locally to enable installation of temporary props to sheet piles, as Section 1-1 below. Where practical the props will be supported from existing piles as indicated on Section 3-3 below
- 7. Demolition of any existing basemen structures that remain.
- 8. Remove perimeter bunding material to provide a fully excavated basement area.
- 9. Undertake piling from low level within the excavated basement area
- 10. Undertake the construction of the basement floor structure and perimeter retaining walls within the excavation using traditional construction techniques.
- 11. Construction of the core walls and columns up to Ground Floor Level using traditional construction techniques.
- 12. Construction of the ground floor slabs using traditional construction techniques.
- 13. Props only to be removed when sufficient new works are constructed to support the excavation perimeter.
- 14. Undertake a post sub-structure construction condition survey of LUL assets as set out in separate documentation produced by Aecom and agreed with LUL.

ESSENTIAL LAND LLP\47066169 100 AVENUE ROAD SWISS COTTAGE\LORP0022/WMH/TS July 2016

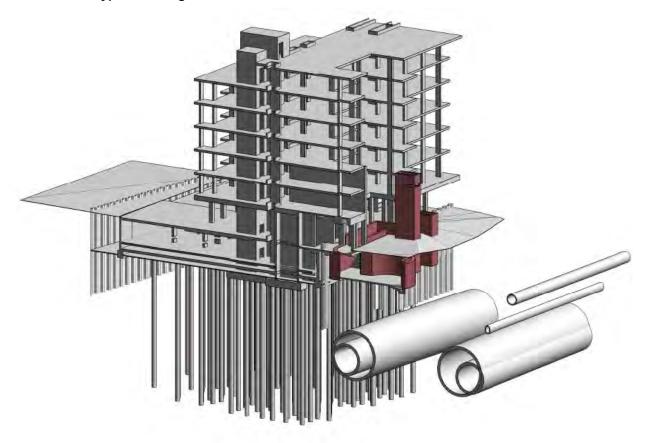
1

Situation 2 – Wall of Existing Basement in Proximity of LUL Demise, Two Stage Excavation

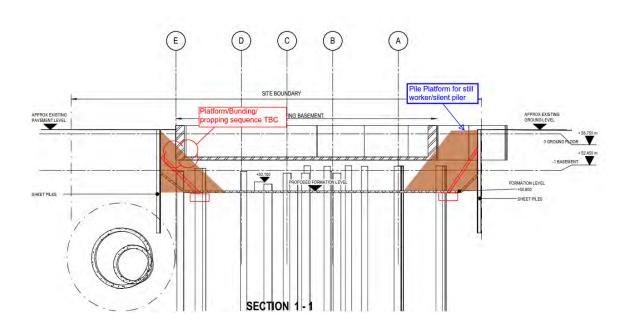
The sequence of construction would be similar to situation 1 however propping would be more extensive as indicated on Section 3-3 and 4-4 below.

4. TEMPORARY PROPPING CONDITIONS

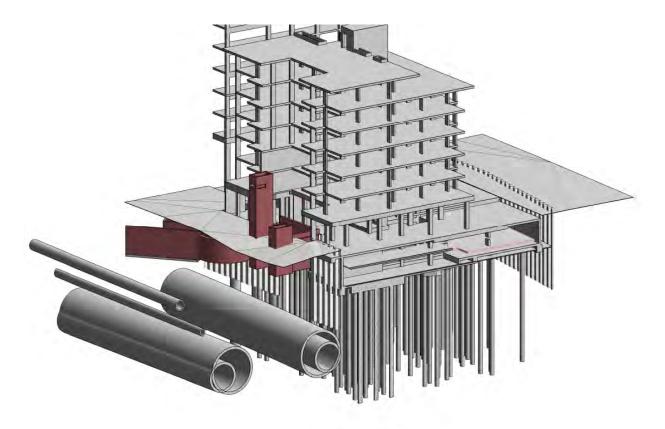
4.1 Typical Arrangement



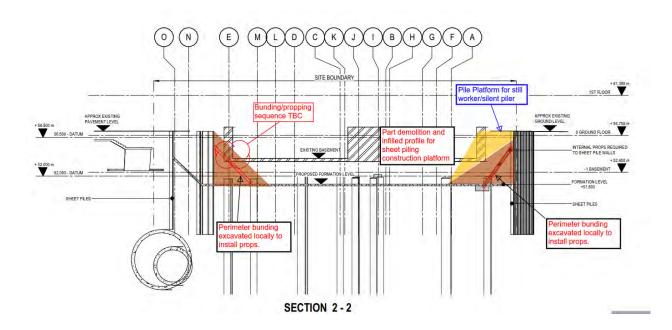
SECTION 1 - 1



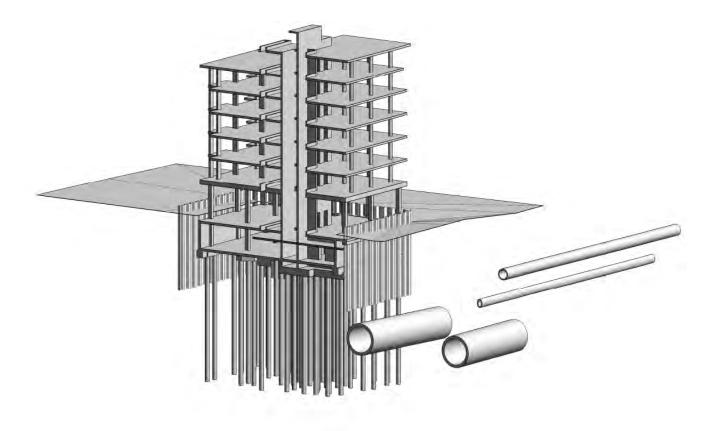
4.2 Typical Arrangement, with Retained Existing Basement Wall Acting as Temporary Support



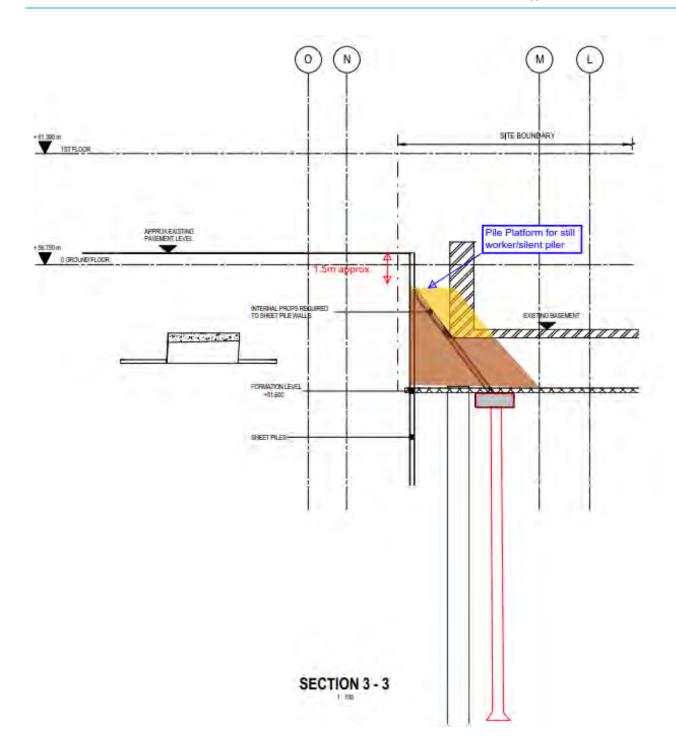
SECTION 2 - 2

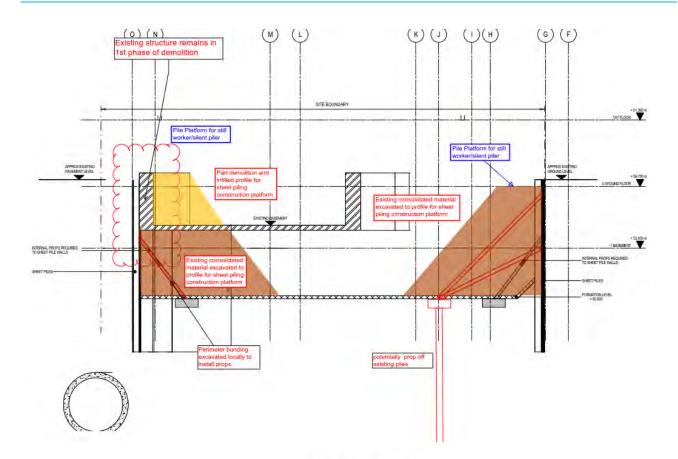


4.3 Typical Arrangement, props supported by existing piles and two stage excavation



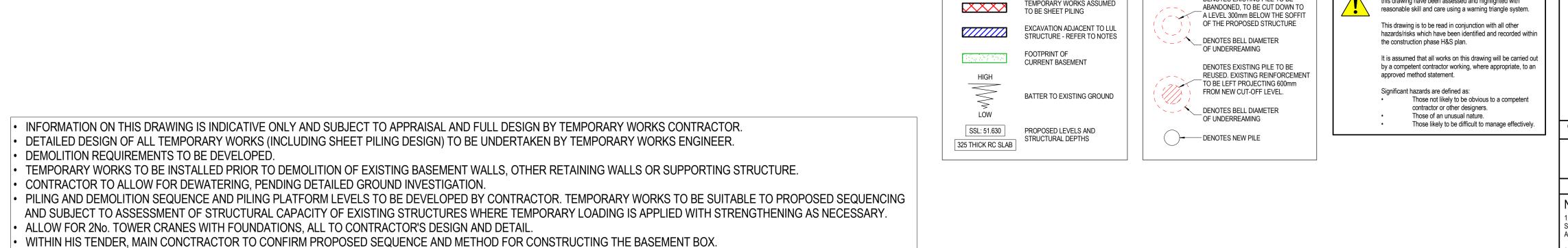
SECTION 3 - 3





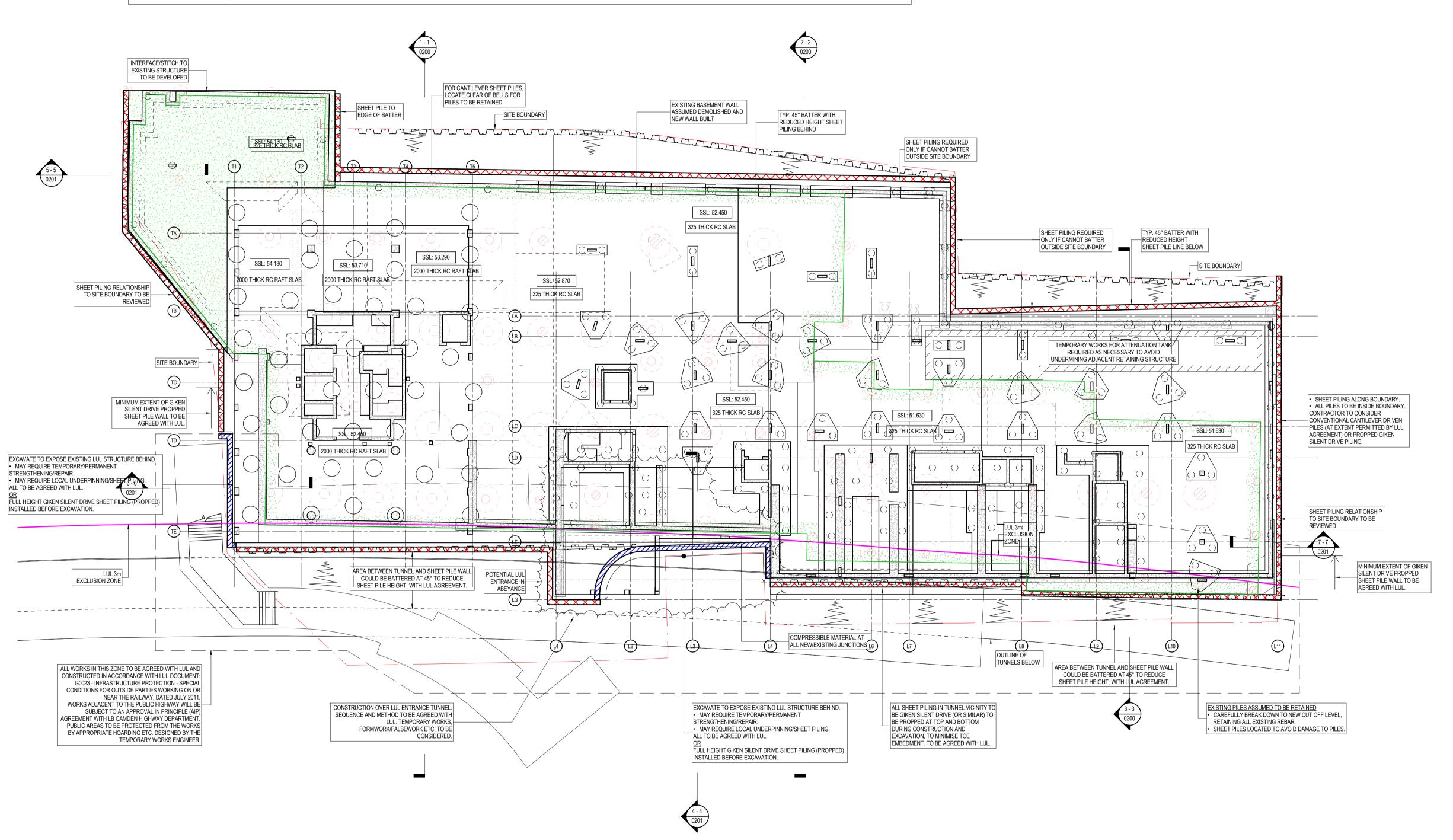
SECTION 4 - 4

5. **DRAWING 2140**



LEGEND:

TEMPORARY WORKS ASSUMED





ASBESTOS AND/OR DELETERIOUS MATERIALS IN EXISTING BUILDING. ASBESTOS SURVEY AND PRE-DEMOLITION SURVEY TO BE UNDERTAKEN.

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE FOLLOWING DOCUMENTS: RSK PHASE I DESK STUDY REPORT

URS REPORT "PROCEDURE FOR INTERFACE WITH LUL DEMISE

URS STAGE C STRUCTURAL/CIVIL REPORT

DEMOLITION RISKS MAINTENANCE / CLEANING In addition to the hazard/risks normally associated with the types of work

detailed on this drawing take note of above.

It is assumed that all works on this drawing will be carried out by a competent contractor working, where appropriate, to an appropriate method statement.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION BOX

Significant hazards relative to the structural design shown on

this drawing have been assessed and highlighted with

DENOTES EXISTING PILE TO BE

1.THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RELEVANT SPECIFICATION AND ALL OTHER RELEVANT DRAWINGS ISSUED BY THE ENGINEER

2. ALL DIMENSIONS AND LEVELS TO BE CHECKED ON SITE AND THE ENGINEER NOTIFIED OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK.

3. DO NOT SCALE FROM THIS DRAWING.

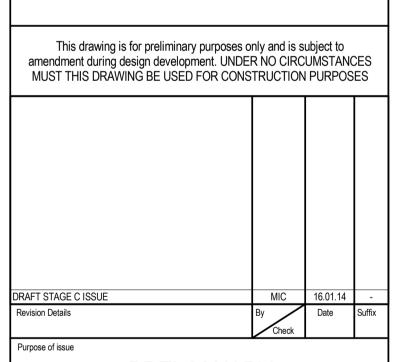
4. ALL LEVELS AND DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.

5. CONCRETE GRADES TO BE AS FOLLOWS: SLABS - GRADE C40 VERTICAL ELEMENTS (I.E. COLUMNS AND WALLS) - GRADE C60

6. REFERENCES TO DRAWING NUMBERS (USUALLY 4 DIGITS) SHALL BE PREFIXED WITH 47066169/.... UNLESS OTHERWISE NOTED.

7. CONTRACTOR TO CONFIRM ALL LEVELS AND DIMENSIONS ON SITE. ANY DIMENSIONAL VARIATION PROPOSED AS A RESULT OF IRREGULARITIES IN LINE AND LEVEL ENCOUNTERED ON SITE ARE ONLY TO BE MADE AFTER AGREEMENT WITH THE CONSTRUCTION MANAGER.

8. ALL DIMENSIONS AND LEVELS OF EXISTING STRUCTURE ARE AS SHOWN ON SURVEY DRAWINGS AND MAY NOT BE AS CONSTRUCTED ON SITE.



PRELIMINARY

ESSENTIAL LIVING (SWISS COTTAGE) LTD.

100 AVENUE ROAD **SWISS COTTAGE**

CONCEPTUAL TEMPORARY **WORKS LAYOUT**

MIC	RS	AG Approved	DEC 2013
URS Internal Project No.		Suitability.	
Scale @ A1 1:200		Zone / Mileage	
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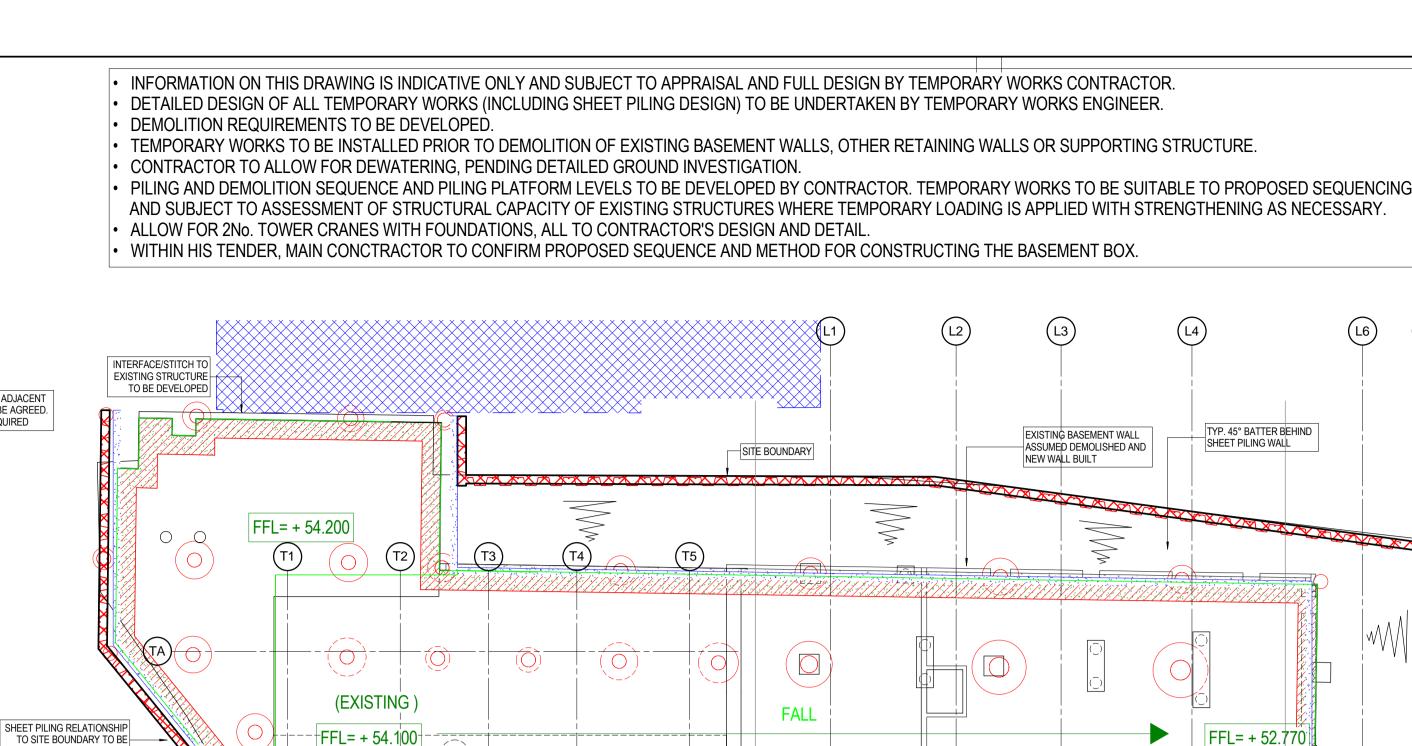
Drawing Number. 47066169/2140

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Document Page No 605

AECOM	Essential Living (Swiss Cottage) Ltd – 100 Avenue Road, Swiss Cottage –Submission for Discharge of Planning Condition 3

APPENDIX M EMERGING BASEMENT DESIGN



FFL= + 53.940

POTENTIAL FOR BATTER BEHIND SHEETPILE WALL TO BE REVIEWED WITH LUL TO REDUCE SHEETPILE DEPTH

STRUCTURE TO BE FORMED OVER TUNNEL TO

BE CONSTRUCTED AFTER THE MAIN BASEMENT

WALLS HAVE BEEN FORMED IN ORDER TO

AVOID SHEET PILLING IN THIS AREA

	WORKS ADJACENT TO THE SUBJECT TO AN AP AGREEMENT WITH LB CAMDE PUBLIC AREAS TO BE PRO BY APPROPRIATE HOARDI	RAILWAY, DATED JULY 2015. E PUBLIC HIGHWAY WILL BE- PROVAL IN PRINCIPLE (AIP) EN HIGHWAY DEPARTMENT. TECTED FROM THE WORKS NG ETC. DESIGNED BY THE PORARY WORKS ENGINEER.	
RESPONSIBILITY MATRIX	CONCEPT DESIGN	DETAIL DESIGN/WORKS	APPROVAL
DETAILS OF EXISTING STRUCTURE	AECOM	AECOM/DC	-
EXTENT OF DEMOLITION	AECOM	DC	AECOM/PW
DEMOLITION METHOD STATEMENT	AECOM SPEC	DC	AECOM/LUL/PW
TEMPORARY WORKS DESIGN	AECOM (OUTLINE CONCEPT ONLY)	DC	AECOM/LUL/MC/H/P W
PRE & POST DEMOLITION CONDITION SURVEY OF ADJACENT AREAS	DC	DC	AECOM/MC/PW
PRE & POST DEMOLITION CONDITION SURVEY OF LUL TUNNEL	JPR	JPR	LUL
GAUGING SURVEY OF LUL TUNNEL CLEARANCE	LUL/AECOM	TUBE LINES LTD	LUL/AECOM
GROUND MODEL 2D ANALYSIS FOR LUL TUNNEL	AECOM	AECOM	LUL

AECOM/(MC &/OR PC | GEOTECHNICAL SUB

AECOM/LUL

IF AVAILABLE)

AECOM = AECOM IN ASSOCIATION WITH CLIENT'S DESIGN TEAM

SHEETPILING METHODOLOGY ADJACENT

POTENTIAL FOR REUSE OF EXISTING

RETAINING WALL ALONG SITE BOUNDARY TO

BE FURTHER EXPLORED.

EXCAVATE TO EXPOSE EXISTING LUL STRUCTURE BEHIND.

FULL HEIGHT GIKEN SILENT DRIVE SHEET PILING (PROPPED)

• MAY REQUIRE LOCAL UNDERPINNING/SHEET PILING.

MAY REQUIRE TEMPORARY/PERMANENT

STRENGTHENING/REPAIR.

LUL 3m PILING

ALL WORKS IN THIS ZONE TO BE AGREED WITH LUL AND

CONSTRUCTED IN ACCORDANCE WITH LUL DOCUMENT:

G0023 - INFRASTRUCTURE PROTECTION - SPECIAL CONDITIONS FOR OUTSIDE PARTIES WORKING ON OR

EXCLUSION ZONE

ALL TO BE AGREED WITH LUL.

INSTALLED BEFORE EXCAVATION.

TO HAMPSTEAD THEATRE TO BE AGREED. GIKEN PILING MAY BE REQUIRED

REVIEWED

SITE BOUNDARY

MINIMUM EXTENT OF GIKEN

SILENT DRIVE PROPPED SHEET PILE WALL TO BE

AGREED WITH LUL.

DEMOLITION CONTRACTOR DC =

GEOTECHNICAL PHASE 2

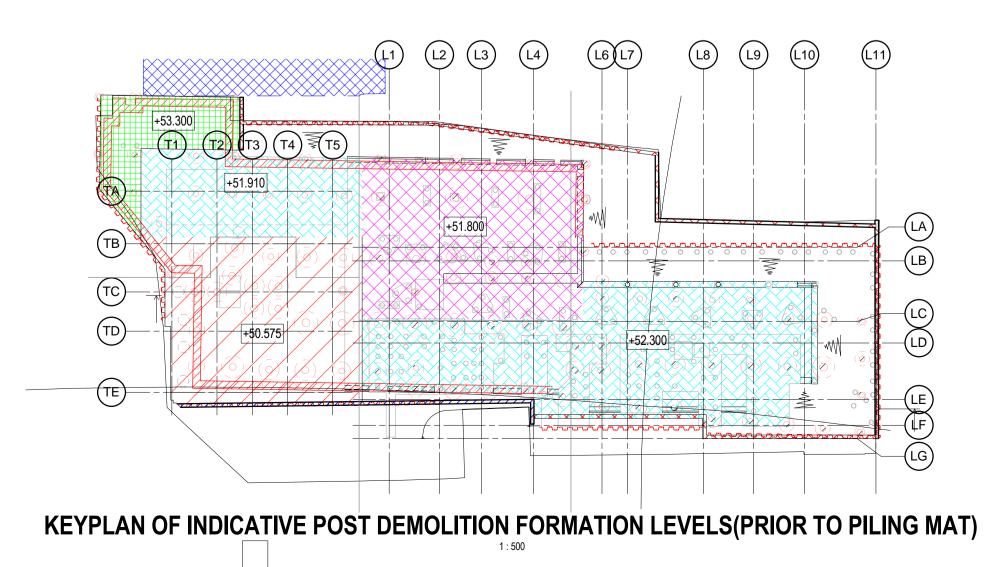
INVESTIGATION

LONDON UNDERGROUND Ltd OUTSIDE PARTIES MAIN CONTRACTOR FOR CONSTRUCTION OF NEW BUILD

LOCAL AUTHORITY HIGHWAYS H =

PARTY WALL SURVEYOR SPECIALIST GEOTECHNICAL ADVISOR (ACTING IN SUPPORT OF AECOM)

PILING SUB CONTRACTOR/DESIGNER PC = JPR= JPR SURVEYORS APPOINTED BY EL



COMPRESSIBLE MATERIAL AT

ALL NEW/EXISTING JUNCTIONS

LEGEND:

HIGH

L6

TYP. 45° BATTER BEHIND

SHEET PILING WALL

|FFL= + 52.770

(EXISTING)

+FFL= + 53.250-

EXCAVATE TO EXPOSE EXISTING LUL STRUCTURE BEHIND

MAY REQUIRE LOCAL UNDERPINNING/SHEET PILING.

FULL HEIGHT GIKEN SILENT DRIVE SHEET PILING (PROPPED)

MAY REQUIRE TEMPORARY/PERMANENT

STRENGTHENING/REPAIR.

ALL TO BE AGREED WITH LUL.

INSTALLED BEFORE EXCAVATION.

()---()

(L7)

「大」

TEMPORARY WORKS POTENTIAL

DRIVEN SHEET PILES SUBJECT

TO THIRD PARTY AND PARTY

EXCAVATION ADJACENT TO LUL

STRUCTURE - REFER TO NOTES

BATTER TO EXISTING GROUND

LOCATION OF BURIED ATTENUATION TANK

(EXISTING)

FFL= + 54.200

ALL SHEET PILING IN TUNNEL VICINITY TO

BE GIKEN SILENT DRIVE (OR SIMILAR) TO

BE PROPPED AT TOP AND BOTTOM

DURING CONSTRUCTION AND

EXCAVATION, TO MINIMISE TOE EMBEDMENT. TO BE AGREED WITH LUL. (L9)

FOOTPRINT OF PROPOSED

WALL AGREEMENTS

FOOTPRINT OF

EXISTING BASEMENT

TEMPORARY WORKS ASSUMED

TO BE SHEET PILING BY GIKEN

SILENT DRIVE MINIMUM EXTENT

(L10)

TYP. 45° BATTER BEHIND

SITE BOUNDARY

SHEET PILING WALL

+ 6

FFL= + \$4.200

AREA BETWEEN TUNNEL AND SHEET PILE WALL

COULD BE BATTERED AT 45° TO REDUCE SHEET PILE HEIGHT, WITH LUL AGREEMENT.

BEYOND LUL ASSETS

ASBESTOS AND/OR DELETERIOUS MATERIALS IN EXISTING BUILDING. ASBESTOS SURVEY AND PRE-DEMOLITION SURVEY TO BE UNDERTAKEN.

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE FOLLOWING DOCUMENTS:

- RSK PHASE I DESK STUDY REPORT AECOM REPORT "PROCEDURE FOR INTERFACE
- WITH LUL DEMISE
- AECOM STAGE 3 STRUCTURAL/CIVIL REPORT

AECOM

PROJECT

100 AVENUE ROAD **SWISS COTTAGE**

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ESSENTIAL LIVING

CONSULTANT

AECOM

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SHEET PILING ALONG BOUNDARY

CONTRACTOR TO CONSIDER

SILENT DRIVE PILING.

• ALL PILES TO BE INSIDE BOUNDARY.

CONVENTIONAL CANTILEVER DRIVEN

PILES (AT EXTENT PERMITTED BY LUL AGREEMENT) OR PROPPED GIKEN

MINIMUM EXTENT OF GIKEN

SILENT DRIVE PROPPED

SHEET PILE WALL TO BE

AGREED WITH LUL.

SHEET PILING RELATIONSHIP TO SITE BOUNDARY TO BE

REVIEWED

 \mathbf{O}

EXISTING PILES ASSUMED TO BE RETAINED

RETAINING ALL EXISTING REBAR.

CAREFULLY BREAK DOWN TO NEW CUT OFF LEVEL,

SHEET PILES LOCATED TO AVOID DAMAGE TO PILES.

LUL 3m PILING **EXCLUSION ZONE**

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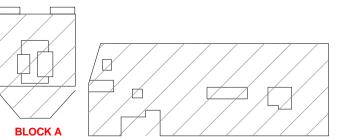
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ISSUE/REVISION

P3	19/10/16	UPDATED STAGE 3 INFORMATION
		FOR BASEMENT TENDER
P2	10/10/16	REVISED STAGE 3
P1	30/09/16	STAGE 3
I/R	DATE	DESCRIPTION

KEY PLAN



PURPOSE OF ISSUE

STAGE 3

PROJECT NUMBER

47066169

SHEET TITLE

BASEMENT DEMOLITION LAYOUT & CONCEPTUAL TEMORARY WORKS

SHEET NUMBER	REV
SC-ACS-0-S-00500	P3

SCALE @A1: As indicated

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