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LTR/PI5969/MW

31 October 2024

Simply UK (Ltd)
Stewart House,
Pochard Way,
Bellshill,
ML4 3HB

FAO Mr Neil Dobbie

Uxbridge Care Home

Dear Sir

Ref: Proposed extension to Care Home at 18 Pield Heath Road, Uxbridge UB8 3NF

In response to your request for a basement impact assessment, with regards to the planning application for the care home extension, please see below an outline of the means of construction to be provided for the lower ground floor level accommodation to the care home at the above address. While there is no basement proposed for the extension, we have outlined the construction sequence of the basement in the other part of the care home.

During site investigation, completed by Ardmore Point in July 2024, 6 No. Cable Percussive boreholes were sunk to a maximum depth of 4.00mbgl (BH01 – BH06) to explore the ground conditions, ground bearing capacity, ground, and gas water regime and to retrieve samples for contamination testing.

Made ground was encountered in all exploratory holes across the site, recorded from ground level to a maximum depth of between 0.80mbgl and 1.65mbgl. The superficial deposits underlying the made ground were generally comprised of firm (locally soft) greyish brown slightly gravelly sandy clay with occasional silt laminae. This was recorded from depths of between 0.80mbgl and 1.65mbgl to a maximum proven depth of 20.00mbgl.

As the development extends very close to boundary edges, with neighbouring properties and Pield Heath Avenue to the North and West boundaries respectively, it is not viable to form conventional open batterback excavations along these perimeter edges. We would anticipate that the firm clay material will have a safe angle repose due to the 1:2 slope, therefore on the southern boundary which runs parallel to Pield Heath Road open batterback excavations can be considered here.

In order to safely form the lower ground floor accommodation required for the care home to the footprint indicated on Simply Develop (UK) Ltd drawings received to date (Appendix A), we would recommend provision of sheet pile walls around two of the perimeter edges of the proposed development, to the approximate alignment shown on the attached Goodson Associates drawings (Appendix B). This method will help create minimal disturbance to the surrounding soil and ensure ground stability during the subsequent excavation work.

The sheet pile retaining wall will be designed and constructed as a cantilever wall to support retained earth and water pressures, as well as any surcharge loading from either neighbouring properties or the traffic on Pield Heath Avenue. Sheet pile clutch sealant should also be applied to provide additional water tightness, and allowance should be made for excavation dewatering throughout construction.

Once the sheet pile walls have been formed, then a traditional bulk excavation can be carried out to the footprint of the proposed lower ground level accommodation. The excavation will commence on the north western edge of the site and be progressively brought through to the south eastern edge of the site in a controlled, phased manner.

As the sheet piled wall will be designed as a cantilever retained construction, this will allow the bulk excavation to be taken through to formation level up to the inner face of the wall, without any further provision for temporary support works within the area of the open bulk excavation.

Across southern/south eastern boundary, a more conventional open batterback slope approach can be adopted where there is a suitable separation distance between the area of working and the Pield Heath Road boundary edge. We don't anticipate that the batterback slopes, set to a nominal 1:2 slope (angle of repose), require any supplementary support measures.

The site investigation indicated the site to be underlain by made ground, sandy clay and boulder clay. The made ground deposits are a variable degree of compaction and not considered to be suitable in their current condition. The report recommended raft foundations utilizing the stiff boulder clay to be the most suitable solution, with the boulder clay providing a bearing capacity of 125kPa. The basement floor will be formed using a 450mm thick reinforced concrete raft foundation.

Bearing material at the underside of raft slab foundation to be inspected by engineer and SI contractor, if suitable bearing is not achieved, softer material to be removed and replaced with fully compacted granular material. Plate load testing of compacted material is also required. Test results should then be reported back to engineer prior to continuing with excavation or pouring foundation.

The basement walls will be formed using 325mm thick reinforced concrete retaining walls. The RC walls should then be backfilled using 6F2/6F5, well compacted in layers no greater than 300mm.

Waterproofing for the substructure will be provided by Sika, utilising their Watertight Concrete system.

The above information summarises the means of construction for the main substructure works for the proposed care home, taking account of on site construction requirements and the need to ensure that no damage to the neighbouring properties or adjoining roads occurs.

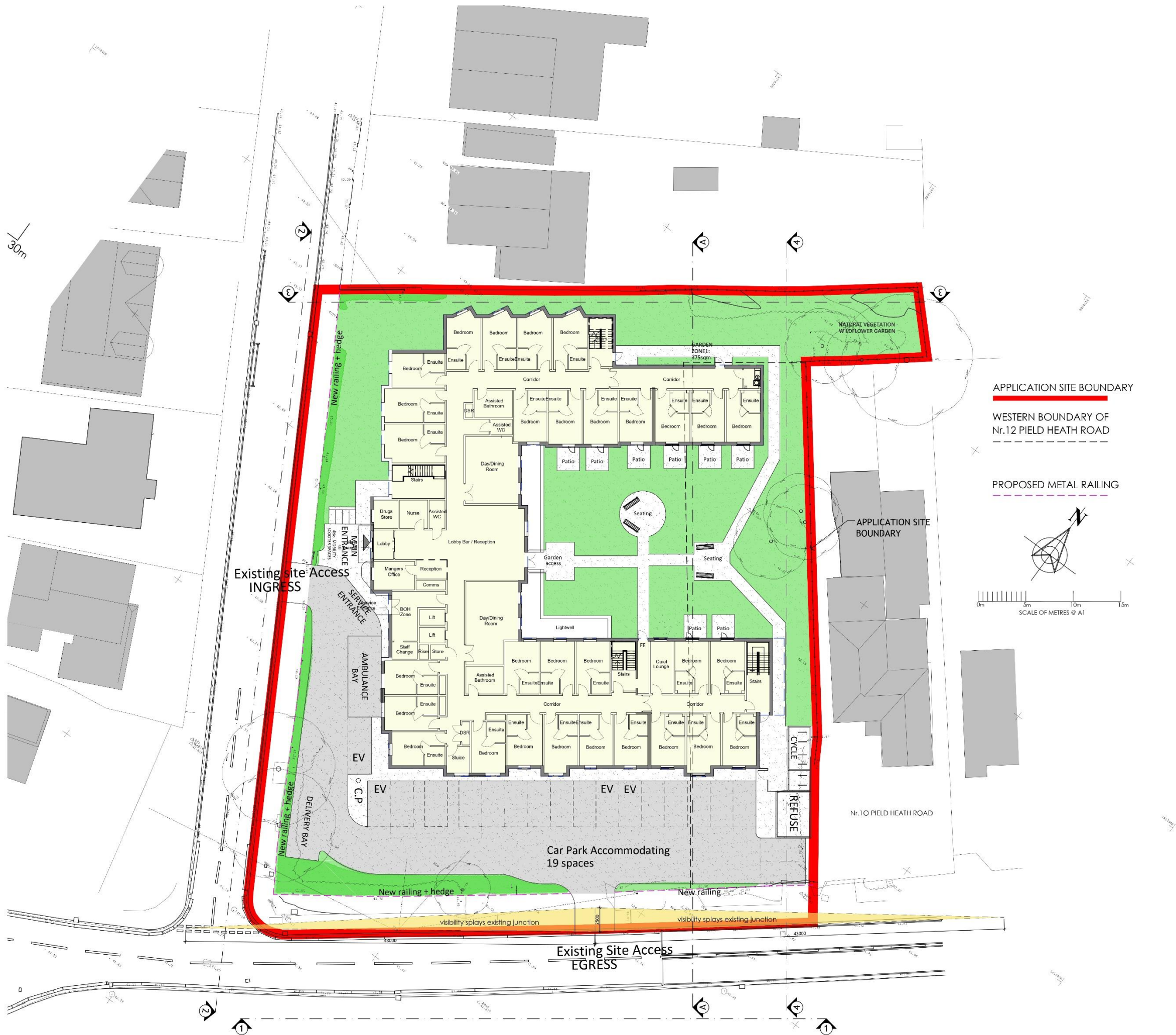
We trust that this information will meet your requirements at this time in respect to the proposed Planning Submission for the extension to the care home. Should any party require further clarification of matters referred to here or additional information in support of the information in this letter, please let us know.

Yours sincerely

A handwritten signature in black ink, appearing to read 'M Wardrop', with a stylized flourish at the end.

Mandy Wardrop
Lead Project Engineer

APPENDIX A – SIMPLY DEVELOP (UK) LTD DRAWINGS

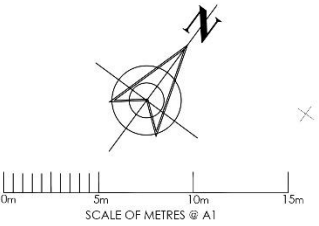


- Notes
1. All dimensions to be checked onsite prior to any manufacture and production of shop drawings by others
 2. All discrepancies to be reported to Simply Develop(UK) Ltd before works undertaken
 3. Do not scale directly from this drawing for purposes of construction
 4. Drawing to be read in conjunction with relevant consultants and specialist drawings
 5. Drawing in metric
 6. Application boundary based on assumed site boundaries as identified in Topographical survey and should not be regarded as a Title Plan. Refer to separate legal title plan for this information.
 7. No reliance on this drawing should be taken for any setting out site purposes and strictly for Planning and information purposes. Refer to separate consultants drawings for site setting out.
- Copyright of this drawing is retained by Simply Develop (UK) Ltd and issued on the condition it is not reproduced or copied or disclosed to any unauthorised persons either wholly or in part without written consent of Simply Develop (UK) Ltd.

APPLICATION SITE BOUNDARY

WESTERN BOUNDARY OF
Nr.12 FIELD HEATH ROAD

PROPOSED METAL RAILING



DATE	REVISION	INITIALS
A 03.09.2024	Distance to adjoining properties added	DF

Status

PLANNING

Project
PROPOSED 81 BEDROOM CARE HOME
18 FIELD HEATH ROAD, UXBRIDGE

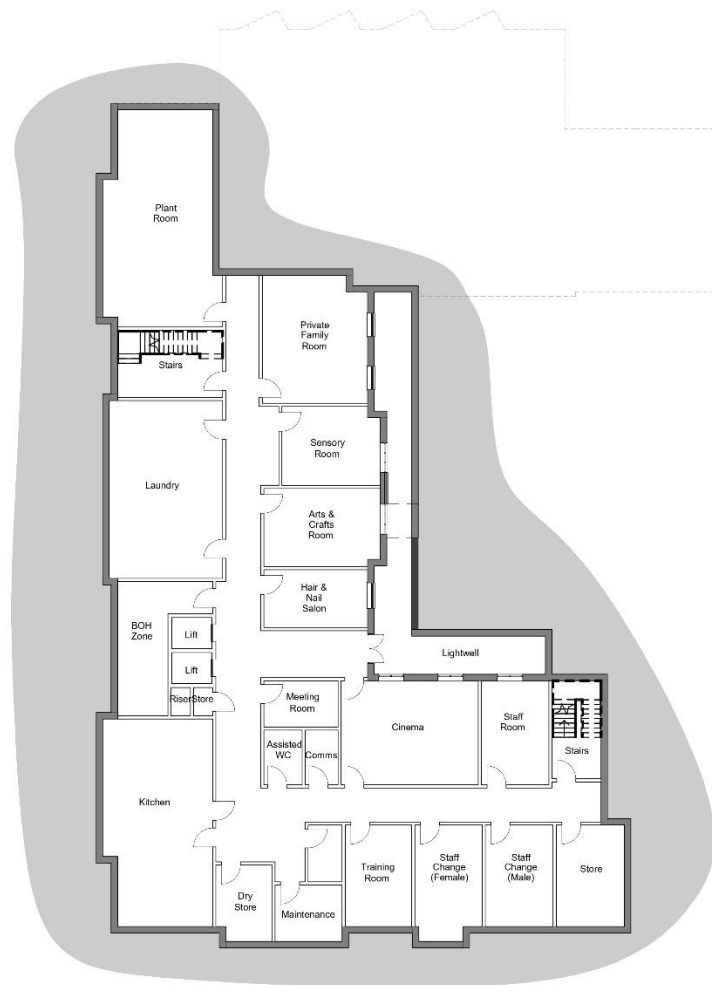
Description
SITE PLAN AS PROPOSED

Project Nr. SDU-104	Drawing Nr. 201	Revision D
Date 25.06.2024	Drawn	Scale 1:200@A1



Simply Develop

Stewart House,
Pochard Way,
Balsall Heath, M4 3HB
Tel: 0141 333 1495
Web: www.simplyuk.co



1 -00-BASEMENT



2 00-GRD - 31 Bedrooms

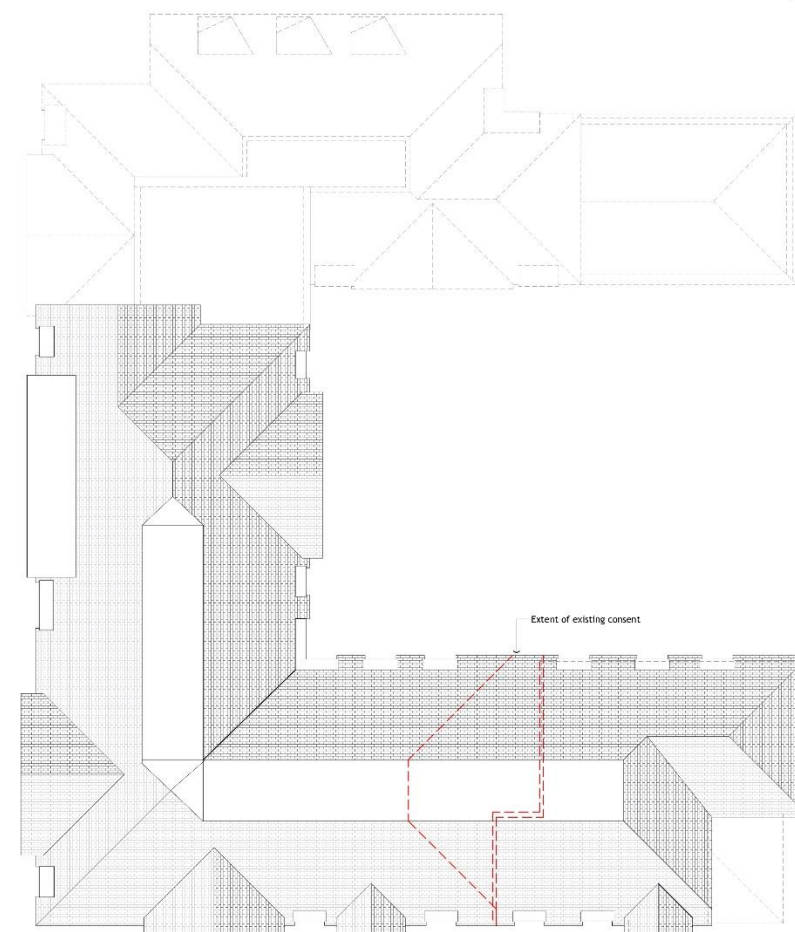


3 01-1ST - 30 Bedrooms

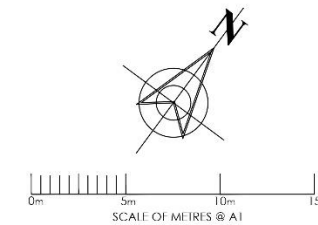
81 Beds over three floors



4 02-2ND - 20 Bedrooms



5 03-ROOF



DATE	REVISION	INITIALS
#	#	#

Status

PLANNING

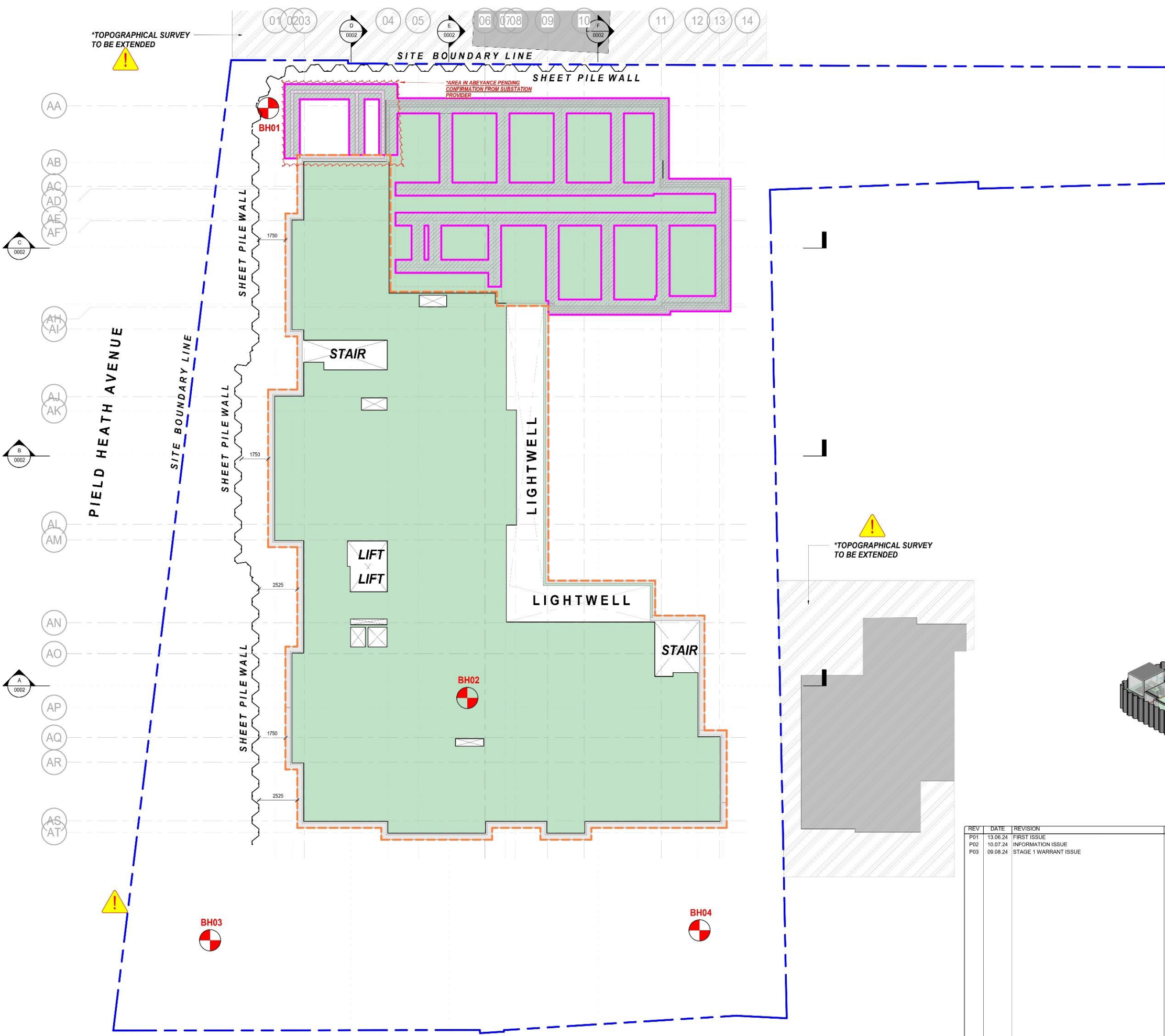
Project
PROPOSED 81 BEDROOM CARE HOME
18 FIELD HEATH ROAD, UXBRIDGE

Description
FLOOR PLANS AS PROPOSED

Project Nr. SDU-104	Drawing Nr. 300	Revision F
Date 25.06.2024	Drawn	Scale 1:250@A1

Simply Develop
Stewart House,
Pochard Way,
Beltahill, M4 3HB
Tel: 0141 333 1495
Web: www.simplyuk.co

APPENDIX B – GOODSON ASSOCIATES DRAWINGS



DO NOT SCALE, IF IN DOUBT ASK, DO NOT INTERROGATE DIGITAL BASE

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECT, ENGINEER AND SPECIALIST DRAWINGS AND SPECIFICATIONS.

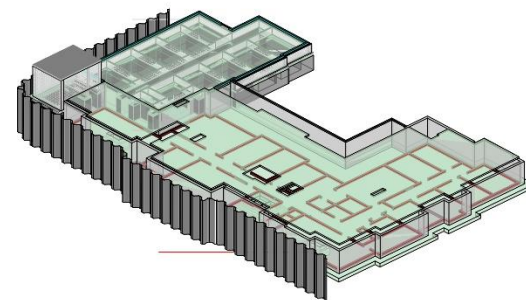
LEGEND

- DENOTES LOCATION OF EXISTING HOUSES
- DENOTES SITE BOUNDARY LINE
- DENOTES LOCATION OF EXISTING BUILDINGS TO BE DEMOLISHED. CLIENT TO CONFIRM.
- DENOTES EXTENT OF GENS TRENCH FILL BELOW STRIP FOUNDATIONS TAKEN DOWN TO SUITABLE BEARING STRATA. TRENCH FILL TO BE ON 'HIT & MISS BASIS'
- DENOTES LOCATION OF SACRIFICIAL SHEET PILING.
- DENOTES OUTLINE OF BASEMENT
- BH... DENOTES LOCATION OF BOREHOLES UNDERTAKEN. DEPTHS NOTED BELOW
- BH01 DEPTH TAKEN TO 20.000m
- BH02 DEPTH TAKEN TO 20.000m
- BH03 DEPTH TAKEN TO 20.000m
- BH04 DEPTH TAKEN TO 20.000m
- DENOTES EXISTING TREE TO BE CAREFULLY REMOVED

ALL SHEET PILING TO BE CONTRACTOR DESIGNED

STAGE 1 FOUNDATION TANKING NOTES

- ALL WATERPROOFING / TANKING DETAILS AND SPECIFICATIONS ARE BY OTHERS AND TO BE CONSIDERED IN CONJUNCTION WITH THE STRUCTURAL DRAWINGS AND THOSE OF THE ARCHITECT AND BUILDING SERVICES ENGINEER PRIOR TO MATERIAL PROCUREMENT AND CONSTRUCTION.
- ALL PENETRATIONS THROUGH THE REINFORCED CONCRETE WALLS AND SLABS ARE BY OTHERS AND TO BE CONSIDERED IN CONJUNCTION WITH THESE DRAWINGS AND THOSE OF THE ARCHITECT AND BUILDING SERVICES ENGINEER PRIOR TO MATERIAL PROCUREMENT AND CONSTRUCTION. APPROPRIATE REVISIONS OR SUPPLEMENTARY STRUCTURAL DRAWINGS WILL BE PROVIDED IF NECESSARY AT A TIME WHEN TANKING ARRANGEMENTS ARE CONFIRMED BY THE APPROPRIATE APPOINTED SPECIALIST PENETRATIONS THROUGH REINFORCED CONCRETE WALLS AND SLABS INCLUDE THOSE ASSOCIATED WITH FLOOR GULLIES, TOILET AND STORM DRAINAGE, AIR SOURCE HEAT PUMP DUCTS AND ELECTRICAL DISTRIBUTION.
- THE REINFORCED CONCRETE MATERIAL SPECIFICATION IS TO BE CONFIRMED IN CONJUNCTION WITH ANY WATERPROOFING ADMIXTURES THAT MAY BE REQUIRED. THE SPECIFICATION FOR WATERPROOFING ADMIXTURES IS BY THE APPROPRIATE TANKING SPECIALIST.
- CONSIDERATION IS TO BE GIVEN FOR THE EFFECTS OF WATERPROOFING ADMIXTURES ON CONCRETE CURING TIMES AND STRENGTH DEVELOPMENT. THE APPROPRIATE SPECIALISTS ARE TO BE CONSULTED.
- THE REINFORCED CONCRETE STRUCTURE HAS BEEN DESIGNED FOR A MINIMUM FLEXURAL CRACK WIDTH OF 0.3mm. THIS IS TO BE CONFIRMED AS SUITABLE BY THE APPROPRIATE TANKING SPECIALIST.



PERSPECTIVE VIEW

SCALE

REV	DATE	REVISION	BY	CHK
P01	13.06.24	FIRST ISSUE	SJ	GH
P02	10.07.24	INFORMATION ISSUE	SJ	GH
P03	09.08.24	STAGE 1 WARRANT ISSUE	SJ	GH

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EDINBURGH

GLASGOW

PURPOSE OF ISSUE

INFORMATION

ORIGINATOR'S JOB No.

P15969

DATE CREATED

JUN 24

SCALE

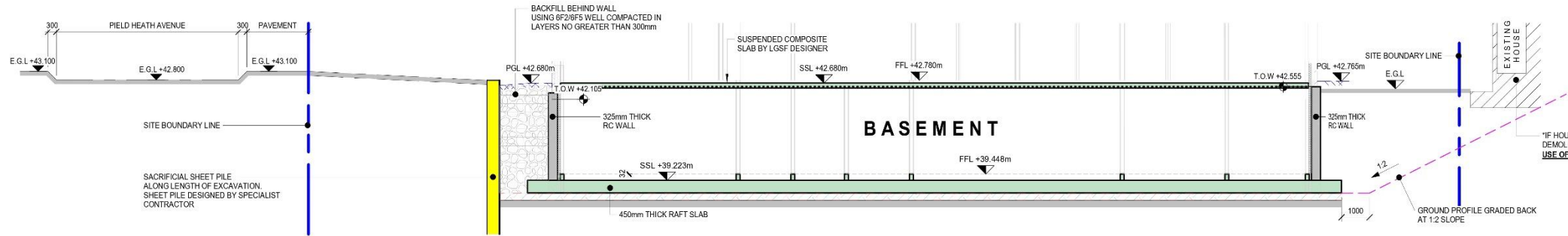
As indicated @ A1

DRAWING No.

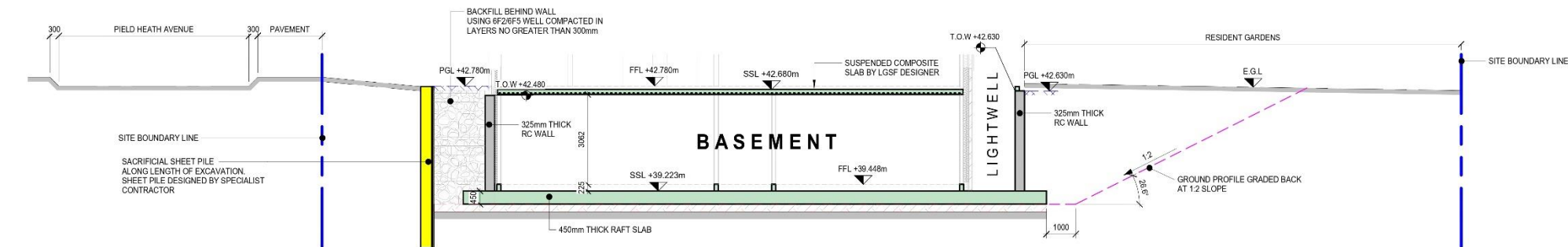
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REV

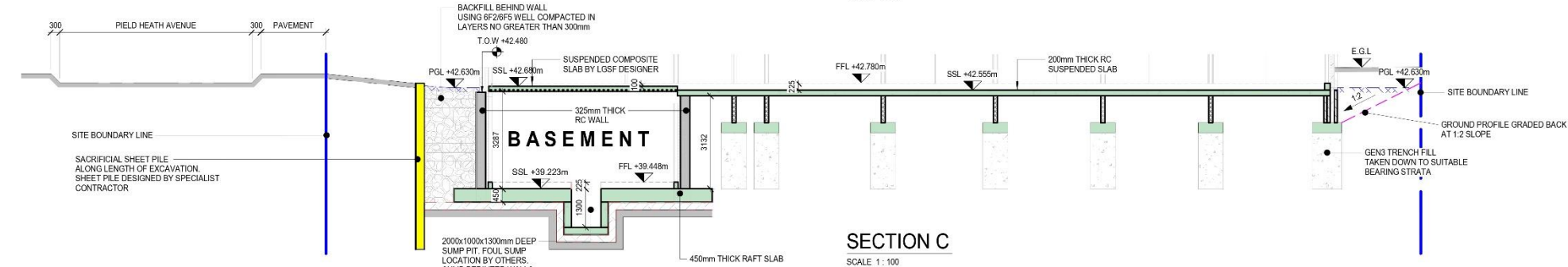
P03



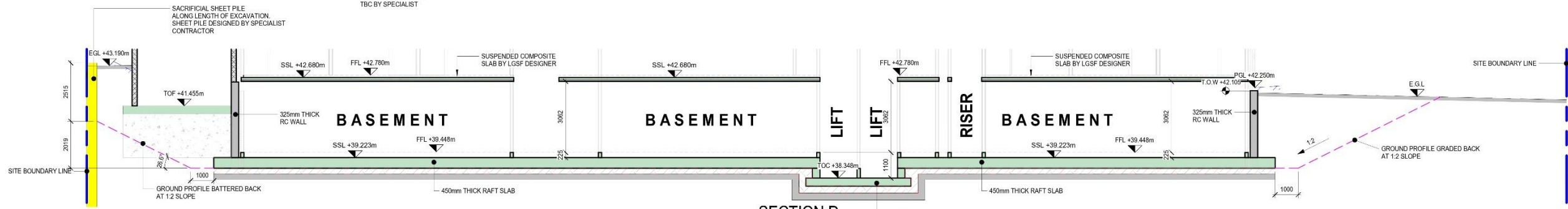
SECTION A
SCALE 1:100



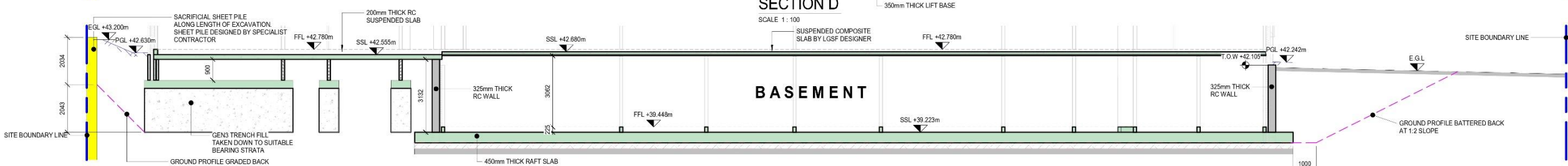
SECTION B
SCALE 1:100



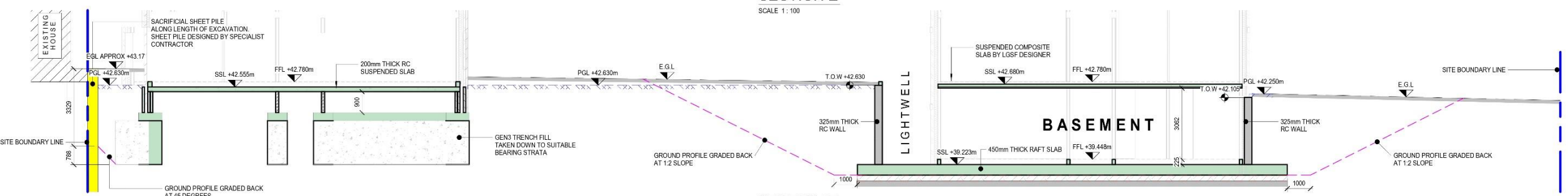
SECTION C
SCALE 1:100



SECTION D
SCALE 1:100



SECTION E
SCALE 1:100



SECTION F
SCALE 1:100

DO NOT SCALE. IF IN DOUBT ASK DO NOT INTERROGATE DIGITAL BASE

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECT, ENGINEER AND SPECIALIST DRAWINGS AND SPECIFICATIONS.

LEGEND

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ALL SHEET PILING TO BE CONTRACTOR DESIGNED

STAGE 1 FOUNDATION TANKING NOTES

1. ALL WATERPROOFING / TANKING DETAILS AND SPECIFICATIONS ARE BY OTHERS AND TO BE CONSIDERED IN CONJUNCTION WITH THE STRUCTURAL DRAWINGS AND THOSE OF THE ARCHITECT AND BUILDING SERVICES ENGINEER PRIOR TO MATERIAL PROCUREMENT AND CONSTRUCTION.
2. ALL PENETRATIONS THROUGH THE REINFORCED CONCRETE WALLS AND SLABS ARE BY OTHERS AND TO BE CONSIDERED IN CONJUNCTION WITH THESE DRAWINGS AND THOSE OF THE ARCHITECT AND BUILDING SERVICES ENGINEER PRIOR TO MATERIAL PROCUREMENT AND CONSTRUCTION. APPROPRIATE REVISIONS OR SUPPLEMENTARY STRUCTURAL DRAWINGS WILL BE PROVIDED IF NECESSARY AT A TIME WHEN TANKING ARRANGEMENTS ARE CONFIRMED BY THE APPROPRIATE APPOINTED SPECIALIST PENETRATIONS THROUGH REINFORCED CONCRETE WALLS AND SLABS INCLUDE THOSE ASSOCIATED WITH: FLOOR GULLIES, FOUL AND STORM DRAINAGE, AIR SOURCE HEAT PUMP DUCTS AND ELECTRICAL DISTRIBUTION.
3. THE REINFORCED CONCRETE MATERIAL SPECIFICATION IS TO BE CONFIRMED IN CONJUNCTION WITH ANY WATERPROOFING ADMIXTURES THAT MAY BE REQUIRED. THE SPECIFICATION FOR WATERPROOFING ADMIXTURES IS BY THE APPROPRIATE TANKING SPECIALIST.
4. CONSIDERATION IS TO BE GIVEN FOR THE EFFECTS OF WATERPROOFING ADMIXTURES ON CONCRETE CURING TIMES AND STRENGTH DEVELOPMENT. THE APPROPRIATE SPECIALISTS ARE TO BE CONSULTED.
5. THE REINFORCED CONCRETE STRUCTURE HAS BEEN DESIGNED FOR A MINIMUM FLEXURAL CRACK WIDTH OF 0.3mm. THIS IS TO BE CONFIRMED AS SUITABLE BY THE APPROPRIATE TANKING SPECIALIST.

REV	DATE	REVISION	BY	CHK
P01	13.06.24	FIRST ISSUE	SJ	GH
P02	10.07.24	INFORMATION ISSUE	SJ	GH
P03	09.08.24	STAGE 1 WARRANTY ISSUE	SJ	GH
P04	13.08.24	DRAWING UPDATES	SJ	GH

SIMPLY DEVELOP
PROPOSED 81 BED CARE HOME,
18 FIELD HEATH ROAD, UXBRIDGE

LONGITUDINAL SECTIONS THRO' SITE

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PURPOSE OF ISSUE	
INFORMATION	
ORIGINATOR'S JOB No. P15969	
DATE CREATED JUN 24	SCALE As indicated @ A1
DRAWING No. 15969-GOO-XX-XX-SK-C-0002	REV P04



1. ALL WATERPROOFING / TANKING DETAILS AND SPECIFICATIONS ARE BY OTHERS AND TO BE CONSIDERED IN CONJUNCTION WITH THE STRUCTURAL DRAWINGS AND THOSE OF THE ARCHITECT AND BUILDING SERVICES ENGINEER PRIOR TO MATERIAL PROCUREMENT AND CONSTRUCTION.
2. ALL PENETRATIONS THROUGH THE REINFORCED CONCRETE WALLS AND SLABS ARE TO BE PROVIDED WITH APPROPRIATE DETAILED SPECIFICATIONS AND TO BE APPROVED BY THOSE OF THE ARCHITECT AND BUILDING SERVICES ENGINEER PRIOR TO MATERIAL PROCUREMENT AND CONSTRUCTION. APPROPRIATE REVISIONS OR SUPPLEMENTARY STRUCTURAL DRAWINGS WILL BE PROVIDED IF NECESSARY AT THE TIME WHEN THE RELEVANT WORK IS BEING ORDERED.
3. SPECIAL PENETRATIONS THROUGH REINFORCED CONCRETE WALLS AND SLABS INCLUDE THOSE ASSOCIATED WITH FLOOR GULLIES, FOUL AND STORM DRAINAGE, EXHAUST AND PURGE PIPES, AIR HANDLING UNITS, ETC.
4. THE REINFORCED CONCRETE MATERIAL SPECIFICATION IS TO BE CONFIRMED IN CONJUNCTION WITH ANY WATERPROOFING ADJUTANTS THAT MAY BE REQUIRED FOR THE REINFORCED CONCRETE. THE ADJUTANTS IS BY THE APPROPRIATE TANKING SPECIALIST.
5. CONSIDERATION IS TO BE GIVEN FOR THE EFFECTS OF WATERPROOFING ON EXISTING AND PROPOSED STRUCTURAL STRENGTH DEVELOPMENT. THE APPROPRIATE SPECIALISTS ARE TO BE CONSULTED.
6. THE REINFORCED CONCRETE STRUCTURE HAS BEEN DESIGNED FOR A MINIMUM EXPOSURE TO WEATHER. THIS IS TO BE CONFIRMED AS SUITABLE BY THE APPROPRIATE TANKING SPECIALIST.



SCALE 1 : 25

1. ALL DRAWINGS TO BE READ IN CONJUNCTION WITH ANY RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS AND THE GEOTECHNICAL AND GEOENVIRONMENTAL INTERPRETATIVE REPORT BY ARDMORE POINT, DATED APRIL 2008.
2. THE SHEET PILING SCHEME SHOWN IS INTENDED TO FORM A SACRIFICIAL COFFERDAM FOR THE CONSTRUCTION OF THE PERMANENT REINFORCED CONCRETE BASEMENT.
3. THE SACRIFICIAL SHEET PILE WALL IS A CONTRACTOR DESIGNED ITEM TO BE FULLY DESIGNED AND DETAILED BY THE CONTRACTOR IN ACCORDANCE WITH THE ICE SPECIFICATION FOR PILING AND EMBEDDED RETAINING WALLS (3RD EDITION) AND BS 5936:1997-2004 AND ALL OTHER CURRENT AND RELEVANT EUROCODES. THE WALL SHALL BE DESIGNED AS A CANTILEVERED RETAINING WALL WITH NO PROPPING IN THE EXCAVATION. THE PERFORMANCE OF THE WALL SHALL BE VERIFIED BY DESIGN AND FOUNDING CRITERIA IS TO BE DETERMINED BY THE PILING CONTRACTOR IN AGREEMENT WITH THE ENGINEER.
4. THE CONTRACTOR SHALL ALLOW FOR SHEET PILING IN CONJUNCTION WITH ALL NECESSARY DRAINAGE, WATER AND CUTLIP SEALANT MEASURES TO MANAGE THE EFFECTS OF HYDROSTATIC PRESSURE AND UNCONTROLLED GROUNDWATER INGRESS INTO THE EXCAVATION. THE GROUND INVESTIGATION REPORT SUBJECT TO THE CONTRACTOR'S OBLIGATION OF GOOD PRACTICE SHALL BE USED.
5. THE PILE SETTING OUT PROVIDED IS PRELIMINARY. IT IS TO BE USED FOR TENDER PURPOSES ONLY. FINAL SETTING OUT SHALL BE AGREED BETWEEN PILING CONTRACTOR AND THE ENGINEER.
6. THE PERMANENT SUBSTRUCTURE HAS BEEN DESIGNED ON THE BASIS THAT THE SHEET PILE WALL IS FULLY DETACHED FROM THE PERMANENT STRUCTURE AND THAT THE EXCAVATION IS TO BE DRY.
7. FULL DESIGN CALCULATIONS AND DRAWINGS ARE TO BE PROVIDED TO THE STRUCTURAL ENGINEER, ALONG WITH DETAILS OF THE COMPETENCE OF THE DESIGNER, A MINIMUM OF TWO WEEKS PRIOR TO SUBMISSION OF DESIGN TO BUILDING CONTROL.
8. THE CONTRACTOR MUST ENSURE THAT DESIGNS ARE CHECKED BY A SUITABLY QUALIFIED INDIVIDUAL OTHER THAN THE ORIGINAL DESIGNER IN LINE WITH THE REQUIREMENTS OF THE DESIGN CODES AND THE BUILDING REGULATIONS.
9. THE CONTRACTOR IS TO CARRY OUT A DILATION SURVEY OF ADJACENT EXISTING FOUNDATIONS PRIOR TO THE START OF SITE. REGULAR MONITORING SHOULD CONTINUE THROUGHOUT THE WORKS.
10. THE SITE IS TO BE CLEARED OF ANY NEAR SURFACE OBSTRUCTIONS, INCLUDING CONCRETE, BRICKWORK, CURBS, ETC. AND ALL EXISTING EXCAVATED MATERIAL OR IN LAYERS, COMPACTED GRAVEL MATERIAL.
11. ANY SERVICE RUNS CROSSING THE AREA TO BE PILED ARE TO BE DIVERTED OR DISCONNECTED PRIOR TO THE WORKS COMMENCING. WRITTEN CONFIRMATION OF THE LOCATION AND DISCONNECTION OF EACH SERVICE IS REQUIRED PRIOR TO THE WORKS COMMENCING.
12. A SUITABLE WORKING PLATFORM (TYPICALLY TYPE 2 GRANULAR MATERIAL OF A MINIMUM OF 150MM TO 200MM THICK) IS TO BE PROVIDED TO THE PILING CONTRACTOR ARRIVING ON SITE. THE LEVEL OF THE PLATFORM RELATIVE TO ORDNANCE DATUM IS TO BE AGREED BETWEEN THE PILING CONTRACTOR AND ENGINEER. THE PLATFORM IS TO BE USED FOR PILING AND SHALL BE PROVIDED TO THE ENGINEER FOR PILING PLATFORM DESIGN.
13. ALL PILING WORKS ARE TO BE COMPLETED IN STRICT ACCORDANCE WITH THE ICE SPECIFICATION FOR PILING AND EMBEDDED RETAINING WALLS (3RD EDITION) AND BS 5936:1997-2004 AND ALL OTHER CURRENT AND RELEVANT EUROCODES.
14. ALL PILES ARE TO BE LOCATED TO WITHIN 75mm OF THE POSITION INDICATED ON THE PILE LAYOUT DRAWING. SHOULD A PILE EXCEED THIS TOLERANCE, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
15. RECORDS ARE TO BE PROVIDED TO ALL PARTIES UPON COMPLETION OF THE WORKS BY THE SPECIALIST CONTRACTOR. THE RECORDS SHOULD NOTE LOCATION, DATE, TIME AND METHOD OF TESTING OF EACH PILE.
16. THE BUILDING RISK CLASSIFICATION WHERE RELEVANT SHOULD BE TAKEN AS DA.

 SPECIALIST DEWATERING CONTRACTOR TO BE CONSULTED TO SUFFICIENTLY LOWER GROUND WATER TABLE BENEATH FORMATION AND PREVENT NEGATIVE IMPACTS OF SEEPAGE DURING WORKS.

SIMPLY DEVELOP
PROPOSED 81 BED CARE HOME,
18 PIELD HEATH ROAD, UXBRIDGE

SHEET PILING LAYOUT & PERFORMANCE SPECIFICATION



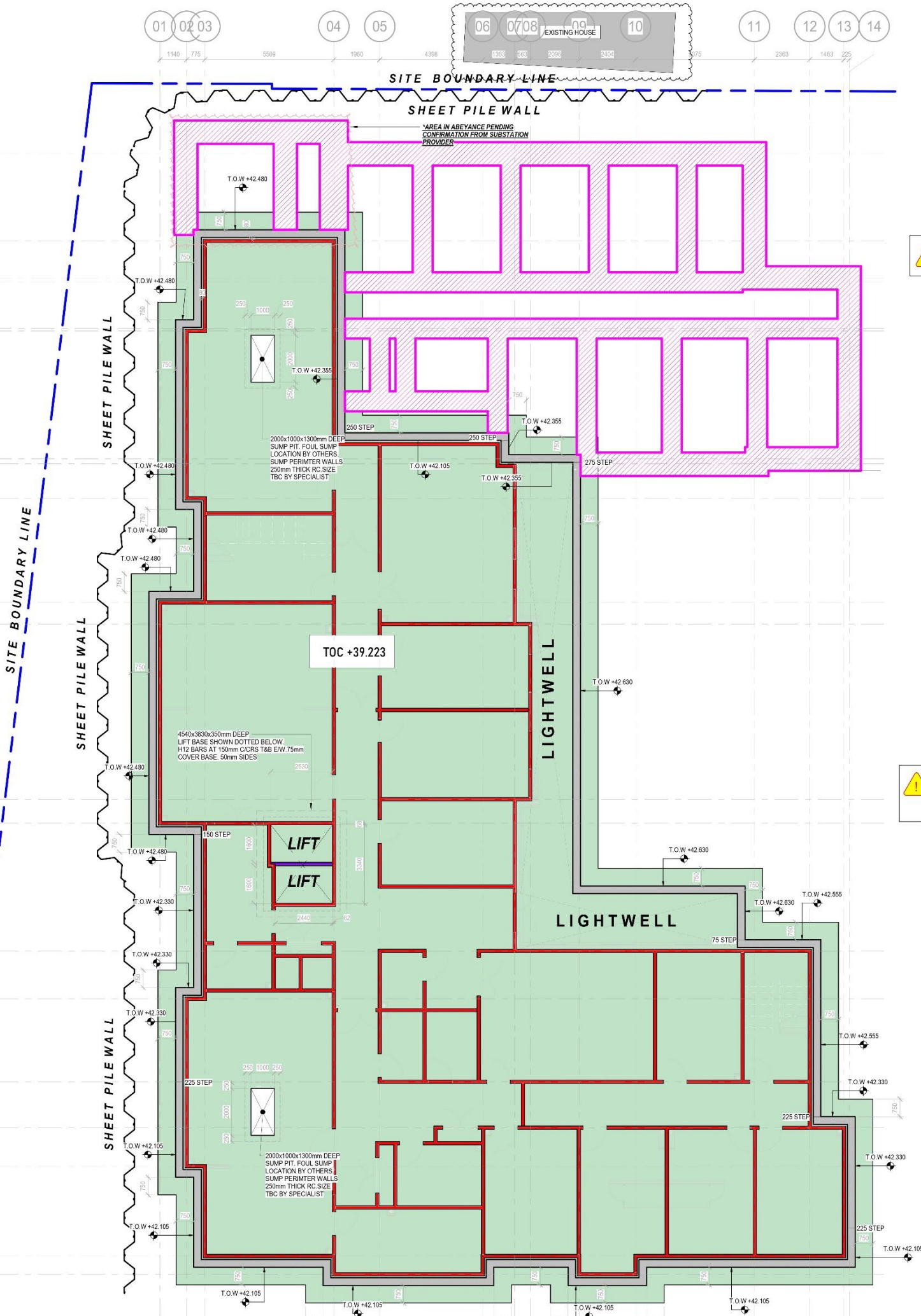
TENDER

ORIGINATOR'S JOB No. P15969

SCALE As indicated @ A1

DRAWING No. P15969-GOO-XX-XX-DR-C-0010

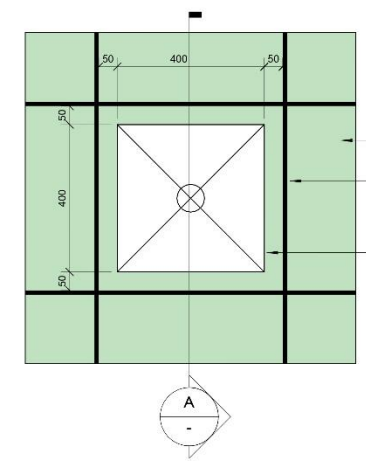
REV
P03



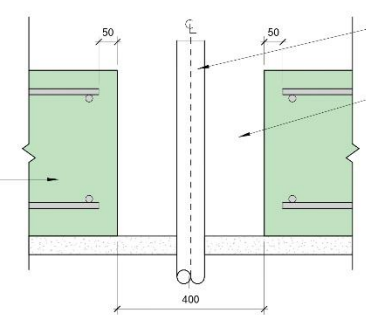
PROPOSED BASEMENT SLAB LAYOUT
SCALE 1:100

REFER TO ARCHITECT'S DRAWINGS FOR SETTING OUT OF FLOOR GULLIES.

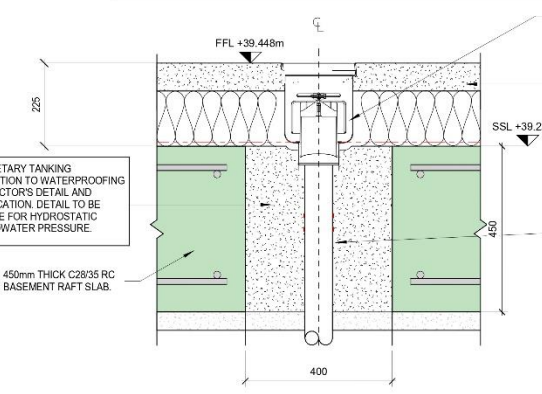
PROPRIETARY TANKING CONNECTION TO WATERPROOFING CONTRACTORS DETAIL AND SPECIFICATION. DETAIL TO BE SUITABLE FOR HYDROSTATIC GROUNDWATER PRESSURE.



- BASEMENT RAFT
- ADDITIONAL 1500mm LONG H20 STRAIGHT BARS, 1 TOP & 1 BOTTOM TO FRAME POCKET.
- TEMPORARY SLAB POCKET TO ALLOW GULLY INSTALLATION. DETAIL T.B.C BY WATERPROOFING SPECIALIST.



SECTION A-A - TEMPORARY CONDITION



SECTION A-A - FINAL CONDITION

TYPICAL FLOOR GULLY DETAIL BASEMENT
SCALE 1:10

REV	DATE	REVISION	BY	CHK
P01	09.08.24	STAGE 1 WARRANT ISSUE	SJ	GH
P02	13.08.24	DRAWING UPDATES		

- DO NOT SCALE, IF IN DOUBT ASK. DO NOT INTERROGATE DIGITAL BASE
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECT, ENGINEER AND SPECIALIST DRAWINGS AND SPECIFICATIONS.
- STAGE 1 FOUNDATION NOTES**
- ALL DRAWINGS TO BE READ IN CONJUNCTION WITH ANY RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS AND THE SITE INVESTIGATION REPORT.
 - ALL FOUNDATIONS TO BE CENTERED UNDER WALLS AND COLUMNS U.N.O.
 - ALL SHALLOW STRIP, PAD AND RAFT FOUNDATIONS HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 125kN/m² ON NON-COHESIVE SOILS. REFER TO THE SI REPORT BY CGL REVISION 1, DATED SEPTEMBER 2022.
 - THE BASEMENT RAFT FOUNDATION HAS BEEN DESIGNED WITH AN ELASTIC SPRING STIFFNESS OF 2.5 MN/m² AND FOR AN ALLOWABLE BEARING CAPACITY OF 100 kN/m² FOLLOWING GUIDANCE FROM THE SI SUBCONTRACTOR. REFER TO PRELIMINARY SETTLEMENT ANALYSIS, CGL DATED 27th JULY.
 - ANTICIPATED FORMATION LEVELS VARY FROM 15.655m TO 13.528m. WHERE NOTED IN THE PLANS, FOUNDATION EXCAVATIONS ARE TO BE STEPPED TO ENSURE CONSISTENT FORMATION MATERIAL.
 - THE ENGINEER IS TO BE NOTIFIED AND GIVEN THE OPPORTUNITY TO INSPECT FORMATION PRIOR TO PLACING OF CONCRETE.
 - ALL EXCAVATIONS ARE TO BE BLINDED AS SOON AS THEY ARE CARRIED OUT TO PROTECT THE FORMATION LAYER. ALL LOOSE SPOTS TO BE REMOVED BEFORE BLINDING.
 - SUITABLE PUMPING ARRANGEMENTS SHALL BE UTILISED IN THE EVENT THAT INGRESS OF WATER INTO EXCAVATIONS OCCURS TO ENSURE WATER IS REMOVED BEFORE POURING CONCRETE.
 - ALL CONCRETE WORKS TO BE CARRIED OUT IN ACCORDANCE WITH BS EN 13670:2009 & EXECUTION CLASS 2.
 - ALL REINFORCEMENT TO BE HIGH YIELD IN ACCORDANCE WITH BS EN 10080:2016 AND BS EN 10082:2016.
 - REINFORCEMENT SHOULD BE BENT IN ACCORDANCE WITH BS 8666:2020.
 - ALL MESH REINFORCEMENT TO BE TO BS 4483:2005 AND SUPPLIED IN FLAT SHEETS. MINIMUM LAP LENGTH TO BE 400mm EACH END AND LAPS ARE TO BE STAGGERED.
 - WHERE STRIP FOUNDATIONS ARE SPECIFIED AS REINFORCED ADOPT A BOTTOM LAYER OF A252 MESH. MESH TO HAVE 75mm BOTTOM AND SIDE COVER.
 - UNDER BUILDING CAVITY WALLS ARE TO BE FILLED WITH LEAN MIX CONCRETE TO WITHIN 150mm OF DPC.
 - ALL REINFORCED CONCRETE TO BE STRENGTH C 28/35 TO BS EN 206:2013+A2:2021.
- DESIGNED CONCRETE SPECIFICATION FOR FOUNDATION CONCRETE**
- THE CONCRETE SHALL BE PRODUCED IN ACCORDANCE WITH BS8500-2.
- | | |
|-------------------------------------|-----------------------|
| COMPRESSIVE STRENGTH CLASS: | C28/35 |
| MAXIMUM WATER/CEMENT RATIO: | 0.45 |
| MINIMUM CEMENT/COMBINATION CONTENT: | 360 KG/M ³ |
| CEMENT AND COMBINATION DESIGNATION: | IIIB + SR |
| MAXIMUM AGGREGATE SIZE: | 20mm |
| CHLORIDE CONTENT CLASS: | CL 0.40 |
| CONSISTENCE CLASS: | S4 |
| ACEC CLASS: | AC1 |
| DESIGN SULPHATE CLASS: | DS-1 |
15. ALL MASS CONCRETE TO BE FND-4 TO BS EN 206:2013+A2:2021.
16. ALL BLINDING CONCRETE TO BE GRADE GEN-1 TO BS EN 206:2013+A2:2021.

- STAGE 1 FOUNDATION TANKING NOTES**
- ALL WATERPROOFING / TANKING DETAILS AND SPECIFICATIONS ARE BY OTHERS AND TO BE CONSIDERED IN CONJUNCTION WITH THE STRUCTURAL DRAWINGS AND THOSE OF THE ARCHITECT AND BUILDING SERVICES ENGINEER PRIOR TO MATERIAL PROCUREMENT AND CONSTRUCTION.
 - ALL PENETRATIONS THROUGH THE REINFORCED CONCRETE WALLS AND SLABS ARE BY OTHERS AND TO BE CONSIDERED IN CONJUNCTION WITH THESE DRAWINGS AND THOSE OF THE ARCHITECT AND BUILDING SERVICES ENGINEER PRIOR TO MATERIAL PROCUREMENT AND CONSTRUCTION. APPROPRIATE REVISIONS OR SUPPLEMENTARY STRUCTURAL DRAWINGS WILL BE PROVIDED IF NECESSARY AT A TIME WHEN TANKING ARRANGEMENTS ARE CONFIRMED BY THE APPROPRIATE APPOINTED SPECIALIST. PENETRATIONS THROUGH REINFORCED CONCRETE WALLS AND SLABS INCLUDE THOSE ASSOCIATED WITH: FLOOR GULLIES, FOUL AND STORM DRAINAGE, AIR SOURCE HEAT PUMP DUCTS AND ELECTRICAL DISTRIBUTION.
 - THE REINFORCED CONCRETE MATERIAL SPECIFICATION IS TO BE CONFIRMED IN CONJUNCTION WITH ANY WATERPROOFING ADMIXTURES THAT MAY BE REQUIRED. THE SPECIFICATION FOR WATERPROOFING ADMIXTURES IS BY THE APPROPRIATE TANKING SPECIALIST.
 - CONSIDERATION IS TO BE GIVEN FOR THE EFFECTS OF WATERPROOFING ADMIXTURES ON CONCRETE CURING TIMES AND STRENGTH DEVELOPMENT. THE APPROPRIATE SPECIALISTS ARE TO BE CONSULTED.
 - THE REINFORCED CONCRETE STRUCTURE HAS BEEN DESIGNED FOR A MINIMUM FLEXURAL CRACK WIDTH OF 0.3mm. THIS IS TO BE CONFIRMED AS SUITABLE BY THE APPROPRIATE TANKING SPECIALIST.

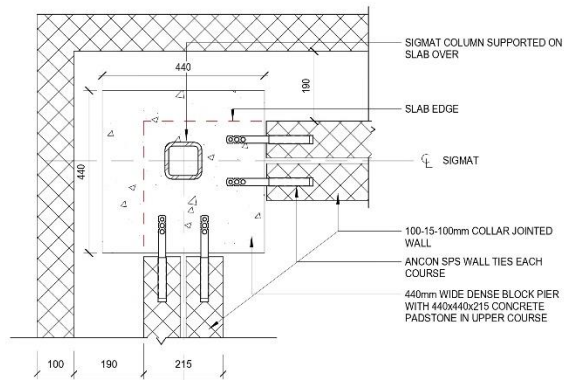
- BASEMENT LEGEND**
- DENOTES EXTENT OF NEW 450mm THICK RC GRADE C28/35 RAFT SLAB H20 @ 175mm C/CRS T1 & T2 50mm COVER TOP, H20 @ 175mm C/CRS B1 & B2 15mm COVER BOTTOM
 - DENOTES EXTENT OF NEW 140mm WIDE x 225mm HIGH RC UPSTAND H6 U-BARS @ 200mm C/CRS. H6 CORNER LACER BARS. TOC **+39.448m**
 - DENOTES EXTENT OF NEW 140mm WIDE x 405mm HIGH RC UPSTAND H6 U-BARS @ 200mm C/CRS. H6 CORNER LACER BARS. TOC **+38.753m**
 - DENOTES EXTENT OF NEW 325mm THICK RC GRADE C28/35 WALL, H16 @ 150mm VERTICAL C/CRS NF1 / FF1, H16 @ 150mm HORIZONTAL C/CRS NF2 & FF2
 - DENOTES EXTENT OF GEN1 TRENCH FILL BELOW STRIP FOUNDATIONS TAKEN DOWN TO SUITABLE BEARING STRATA. TRENCH FILL TO BE ON HT & M55 BASIS

SIMPLY DEVELOP
PROPOSED 81 BED CARE HOME,
18 FIELD HEATH ROAD, UXBRIDGE

PROPOSED BASEMENT SLAB LAYOUT

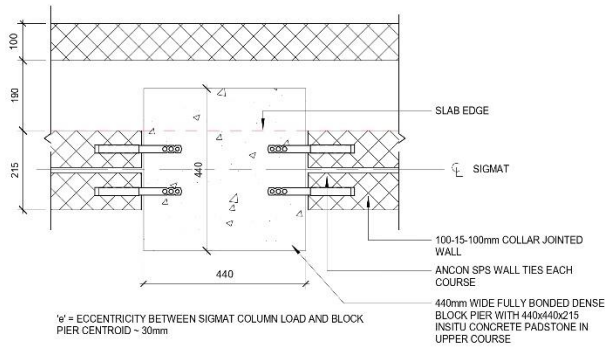
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PURPOSE OF ISSUE	WARRANT
ORIGINATOR'S JOB No.	P15969
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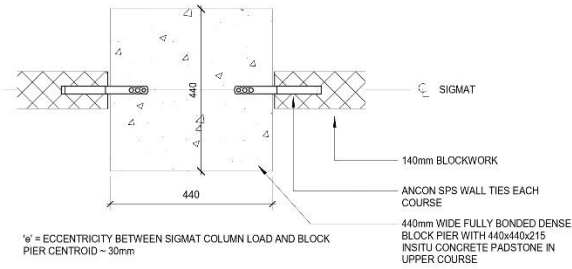
TYPICAL BLOCKWORK PLINTH AT CORNER

SCALE 1:10



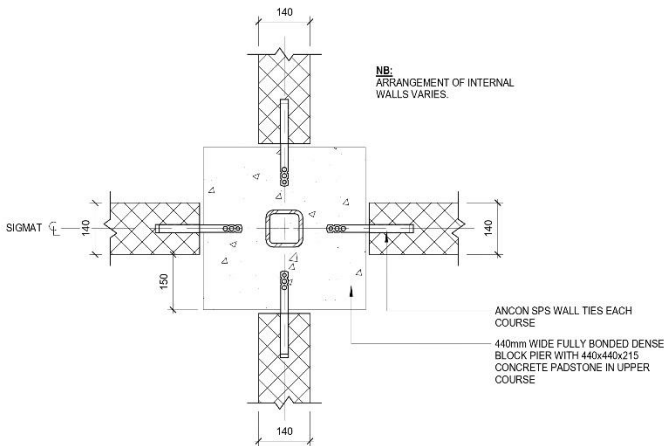
TYPICAL BLOCKWORK PLINTH EXTERNAL PLAN

SCALE 1:10



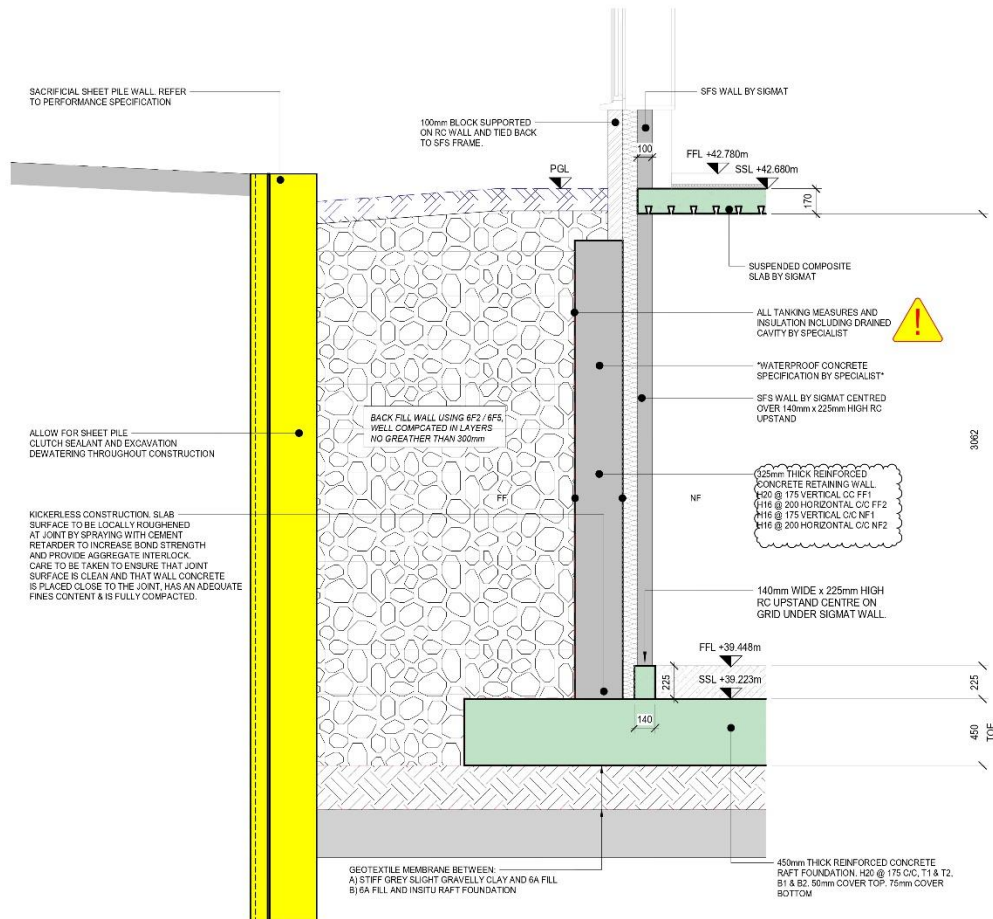
TYPICAL BLOCKWORK PLINTH INTERNAL PLAN

SCALE 1:10



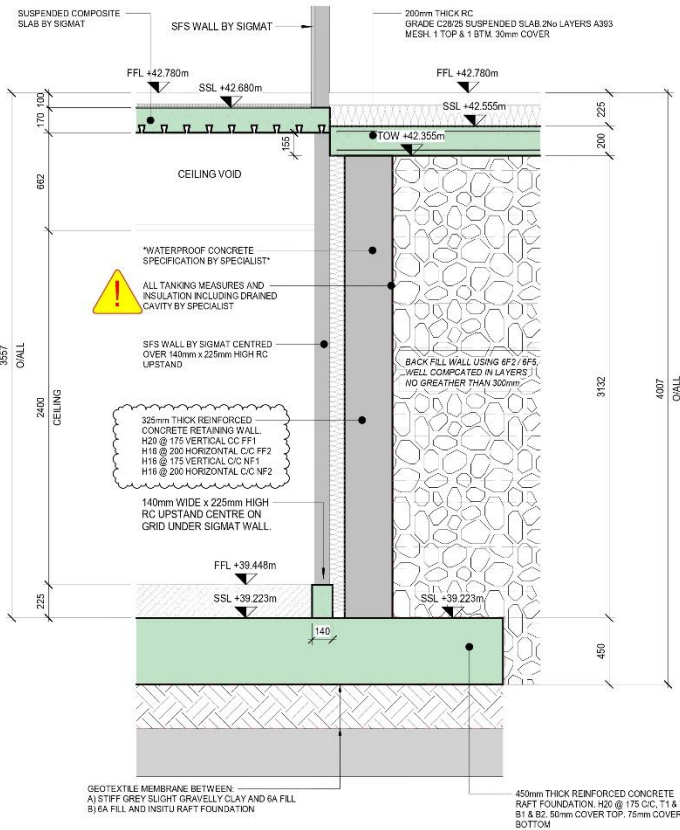
TYPICAL BLOCKWORK PLINTH INTERNAL - 140 WALLS

SCALE 1:10



BASEMENT WALL EXTERNAL (PIELD HEATH AVENUE)

SCALE 1:25



TYPICAL BASEMENT WALL (INTERNAL)

SCALE 1:25

DO NOT SCALE, IF IN DOUBT ASK, DO NOT INTERROGATE DIGITAL BASE

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECT, ENGINEER AND SPECIALIST DRAWINGS AND SPECIFICATIONS.

STAGE 1 FOUNDATION TANKING NOTES

1. ALL WATERPROOFING / TANKING DETAILS AND SPECIFICATIONS ARE BY OTHERS AND TO BE CONSIDERED IN CONJUNCTION WITH THE STRUCTURAL DRAWINGS AND THOSE OF THE ARCHITECT AND BUILDING SERVICES ENGINEER PRIOR TO MATERIAL PROCUREMENT AND CONSTRUCTION.
2. ALL PENETRATIONS THROUGH THE REINFORCED CONCRETE WALLS AND SLABS ARE BY OTHERS AND TO BE CONSIDERED IN CONJUNCTION WITH THESE DRAWINGS AND THOSE OF THE ARCHITECT AND BUILDING SERVICES ENGINEER PRIOR TO MATERIAL PROCUREMENT AND CONSTRUCTION. APPROPRIATE REVISIONS OR SUPPLEMENTARY STRUCTURAL DRAWINGS WILL BE PROVIDED IF NECESSARY AT A TIME WHEN TANKING ARRANGEMENTS ARE CONFIRMED BY THE APPROPRIATE APPOINTED SPECIALIST PENETRATIONS THROUGH REINFORCED CONCRETE WALLS AND SLABS INCLUDE THOSE ASSOCIATED WITH FLOOR GULLIES, FOUL AND STORM DRAINAGE, AIR SOURCE HEAT PUMP DUCTS AND ELECTRICAL DISTRIBUTION.
3. THE REINFORCED CONCRETE MATERIAL SPECIFICATION IS TO BE CONFIRMED IN CONJUNCTION WITH ANY WATERPROOFING ADMIXTURES THAT MAY BE REQUIRED. THE SPECIFICATION FOR WATERPROOFING ADMIXTURES IS BY THE APPROPRIATE TANKING SPECIALIST.
4. CONSIDERATION IS TO BE GIVEN FOR THE EFFECTS OF WATERPROOFING ADMIXTURES ON CONCRETE CURING TIMES AND STRENGTH DEVELOPMENT. THE APPROPRIATE SPECIALISTS ARE TO BE CONSULTED.
5. THE REINFORCED CONCRETE STRUCTURE HAS BEEN DESIGNED FOR A MINIMUM FLEXURAL CRACK WIDTH OF 0.3mm. THIS IS TO BE CONFIRMED AS SUITABLE BY THE APPROPRIATE TANKING SPECIALIST.

STAGE 1 BLOCKWORK UNDERBUILD NOTES

1. ALL DRAWINGS TO BE READ IN CONJUNCTION WITH ANY RELEVANT ARCHITECTS, ENGINEERS AND SPECIALISTS DRAWINGS AND SPECIFICATIONS.
2. ALL CONCRETE WORKS TO BE CARRIED OUT IN ACCORDANCE WITH BS EN 13670:2009.
3. ALL REINFORCED CONCRETE FOR SUSPENDED GROUND FLOOR SLABS TO BE GRADE RC28/35 TO BS EN 206:2013+A2:2021.
4. ALL REINFORCEMENT TO BE HIGH YIELD IN ACCORDANCE WITH BS 4449:2005+A3:2016.
5. ALL MESH REINFORCEMENT TO BE TO BS 4483:2005 AND SUPPLIED IN FLAT SHEETS.
6. MINIMUM LAP LENGTH TO BE 400mm EACH END AND LAPS ARE TO BE STAGGERED AND INSTALLED WITH FLYING ENDS.
7. MINIMUM 1200 GAUGE DPM (OR AS OTHERWISE SPECIFIED BY THE ARCHITECT) TO BE LAID AND JOINTED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
8. SLABS TO BE CAST ON 50mm SHARP SAND BLINDING ON MINIMUM 150mm WELL COMPACTED TYPE 1 ROLLED IN ACCORDANCE WITH CLAUSE 803 OF THE SPECIFICATION FOR HIGHWAY WORKS.
9. FINISHED SLAB SURFACE FLATNESS TO HAVE A +0.6mm TOLERANCE OVER A 2m STRAIGHT EDGE. SURFACE TO BE PLANED AS REQUIRED TO ACHIEVE STATED TOLERANCE.

IF SPECIFIED MASONRY UNITS HAVE A MASS GREATER THAN 20kg, EITHER A 2 MAN LIFT OR MECHANICAL LIFTING EQUIPMENT SHOULD BE CONSIDERED.

THE REQUIRED SEQUENCE OF ERECTION OF MASONRY TO BE DISCUSSED & AGREED WITH THE ENGINEER AS PANELS MAY REQUIRE SUPPORT IN THE TEMPORARY CONDITION.

SUBBASE PREPARATION KEY:

ALL FOUNDATIONS TO BEAR ON TO STIFF CLAY WITH BEARING CAPACITY OF 125kPa. AS NOTED ON ARDMORE POINT REPORT

BEARING MATERIAL AT UNDERSIDE OF RAFT TO BE INSPECTED BY ENGINEER AND SI CONTRACTOR. IF SUITABLE BEARING IS NOT ACHIEVED, SOFTER MATERIAL TO BE REMOVED AND REPLACED WITH FULLY COMPACTED GRANULAR MATERIAL. PLATE LOAD TESTING OF COMPACTED MATERIAL REQUIRED.

BEARING MATERIAL AT UNDERSIDE OF RAFT TO BE STIFF CLAYS PROVIDING A BEARING CAPACITY OF 125kPa. SUITABLE IN-SITU TESTING OF BEARING MATERIAL TO BE UNDERTAKEN TO CONFIRM SUITABILITY OF MATERIAL. TEST RESULTS TO BE REPORTED BACK TO ENGINEER PRIOR TO CONTINUING WITH EXCAVATION OR POURING FOUNDATION.

GEOTEXTILE MEMBRANE

SPECIALIST DEWATERING CONTRACTOR TO BE CONSULTED TO SUFFICIENTLY LOWER GROUND WATER TABLE BENEATH FORMATION AND PREVENT NEGATIVE IMPACTS OF SEEPAGE DURING WORKS.

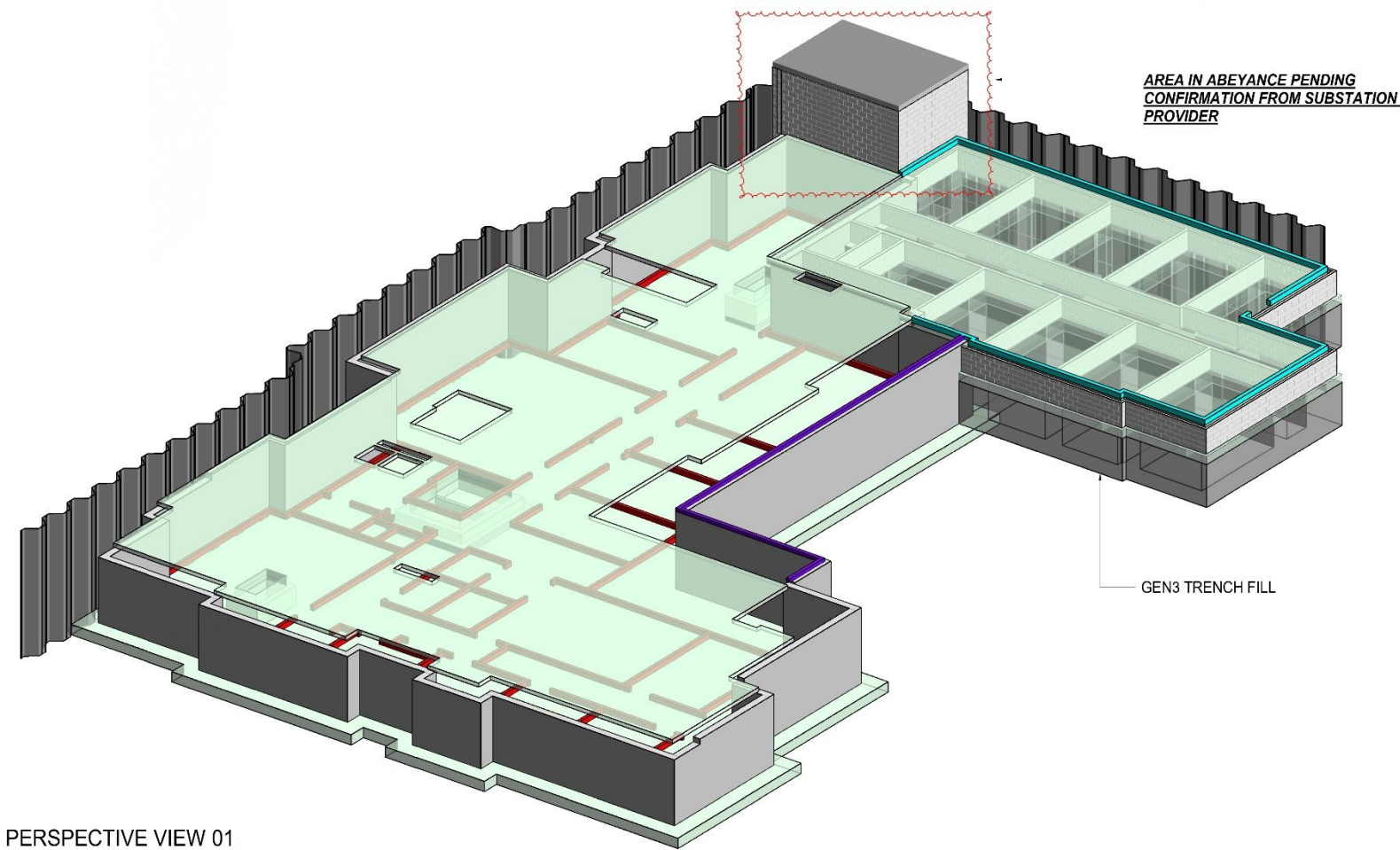
REV	DATE	REVISION	BY	CHK
P01	09.08.24	STAGE 1 WARRANT ISSUE	SJ	GH
P02	13.08.24	DARWING UPDATES	SJ	GH

SIMPLY DEVELOP
PROPOSED 81 BED CARE HOME,
18 PIELD HEATH ROAD, UXBRIDGE

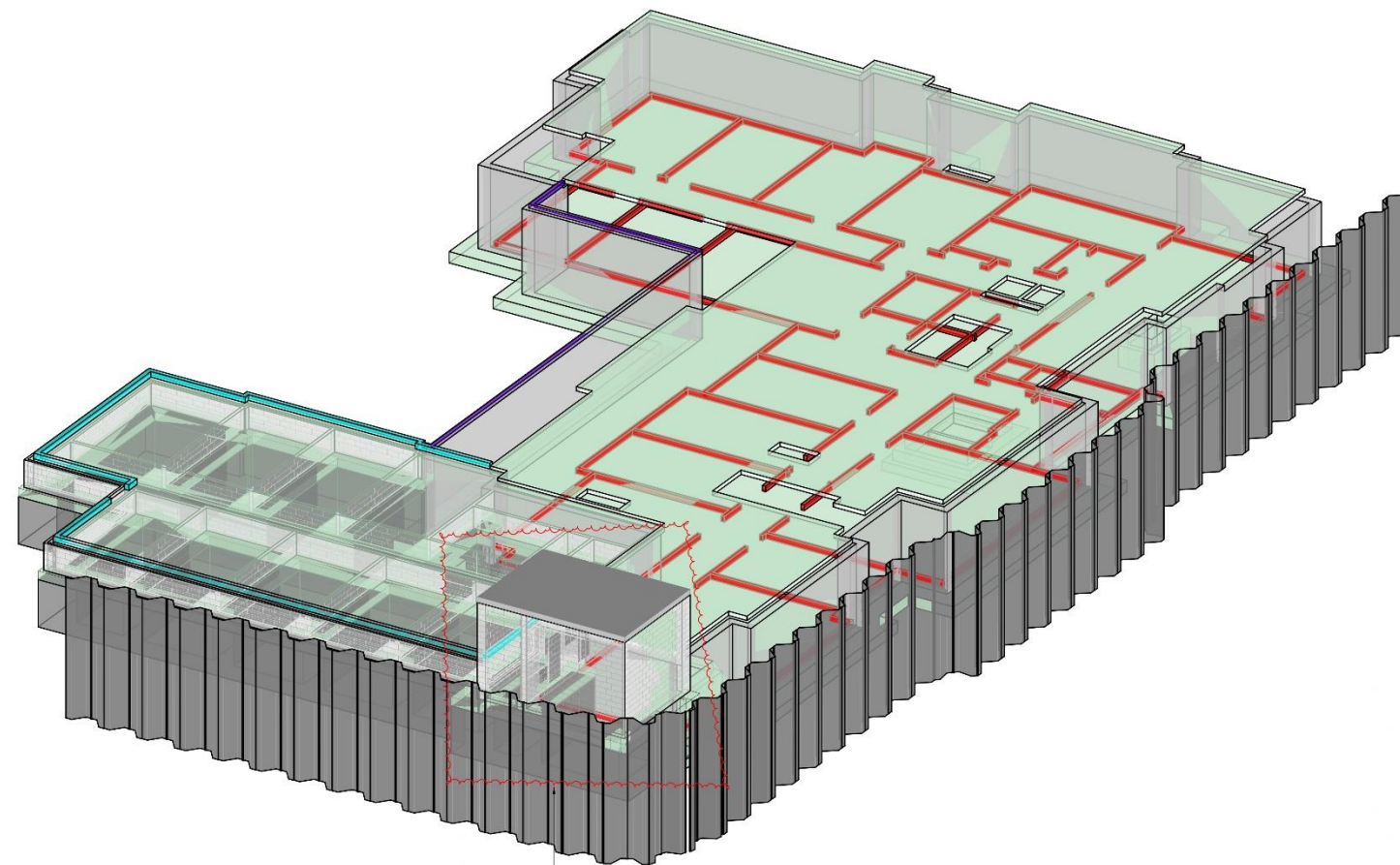
SUBSTRUCTURE DETAIL - SHEET 2

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PERSPECTIVE VIEW 01
SCALE



PERSPECTIVE VIEW 02
SCALE

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SIMPLY DEVELOP
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PERSPECTIVE VIEWS

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P15969-GOO-XX-ZZ-VS-S-0060	P01