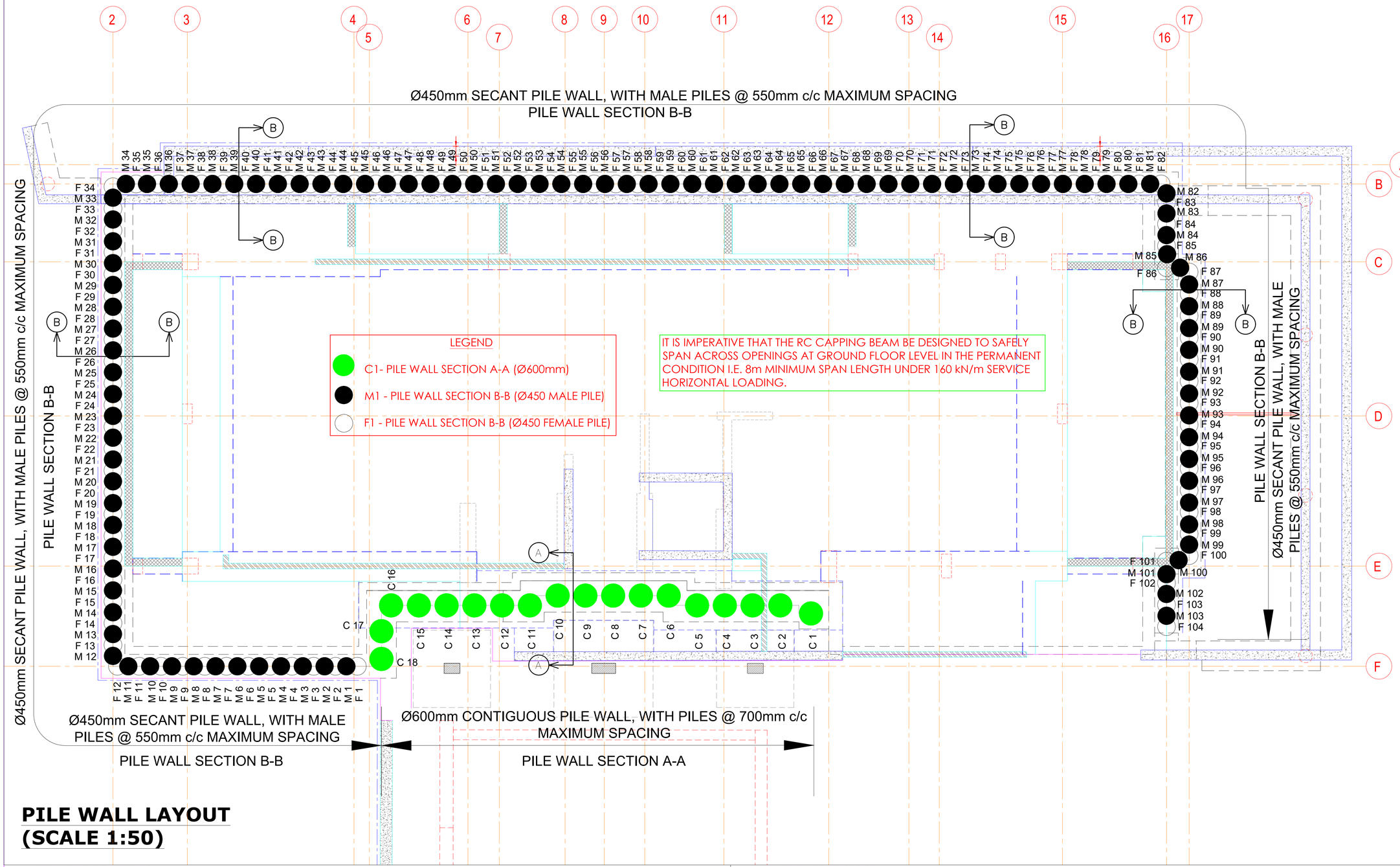

PILE WALL LAYOUT (SCALE 1:50)

IMPORTANT CONSTRUCTION NOTES

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL LEVELS ARE IN METRES UNLESS NOTED OTHERWISE.
3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS, AND SPECIALISTS LATEST DRAWINGS AND SPECIFICATIONS. ANY DISCREPANCIES MUST BE REPORTED TO DFS, ENGINEER AND ARCHITECT IMMEDIATELY.
4. ONLY FIGURED DIMENSIONS ARE TO BE USED. ANY QUERIES MUST BE REFERRED TO DFS.
5. 50mm COVER TO PILE REINFORCEMENT.
6. STRICT SUPERVISION OF BULK EARTH WORKS IS REQUIRED TO ENSURE THAT EXCAVATIONS DO NOT EXCEED THE DESIGN DEPTH SHOWN IN THESE DRAWINGS (4.83m).
7. SECANT & CONTIGUOUS PILE WALLS SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE ICE SPECIFICATIONS FOR PILING AND EMBEDDED RETAINING WALLS (ICESPERW, 2017).
8. THE SECANT & CONTIGUOUS PILE WALLS ARE DESIGNED FOR BOTH TEMPORARY AND PERMANENT USE.
9. THE SECANT & CONTIGUOUS PILE WALLS ARE DESIGNED TO SUPPORT FULL HYDROSTATIC PRESSURE IN THE LONG-TERM, ONCE FACED WITH A PERMANENT RC LINER WALL, IN ACCORDANCE WITH THE RECOMMENDATION OF THE BS8102 (2009).
10. THE TEMPORARY WORKS ENGINEER (DFS) WILL VISIT SITE TO INSPECT AND APPROVE IN WRITING, THE TEMPORARY WORKS INSTALLATION AT THE CRITICAL STAGES E.G. LOADING/UNLOADING STAGES, PILED WALL PROPPING, INSTALLATIONS OF BRACES, APPLICATION OF DRYPACK TO EACH PIN, AND DURING GENERAL EXCAVATION FOR THE UNDERPINNING WORKS, E.T.C. TO COMPLETION, AND MUST PROVIDE A COPY OF THESE WRITTEN APPROVALS & RTA SITE VISIT REPORTS IN CONTRACTOR'S SITE PROGRESS REPORTS, WHICH ARE TO BE ISSUED TO THE PARTY WALL SURVEYORS ON REQUEST.

HEALTH, SAFETY AND ENVIRONMENT

1. THIS GEO-STRUCTURAL DESIGN HAS BEEN CARRIED OUT AND REVIEWED IN ACCORDANCE WITH THE CONSTRUCTION, DESIGN & MANAGEMENT (CDM) REGULATIONS 2015 AND DOES NOT INCLUDE ANY ABNORMAL RISK ITEM THAT A COMPETENT CONTRACTOR WOULD NOT BE AWARE OF WHEN UNDERTAKING CONSTRUCTION WORKS SHOWN.
2. THE PILE WALL DESIGNS ACCOUNT FOR 1:100 VERTICALITY TOLERANCE (WITH HEAVY DUTY AUGERS), 25mm HORIZONTAL POSITIONAL TOLERANCE (WITH A TEMPORARY GUIDE WALL IN-PLACE) AND 30mm OVER-BREAK IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE ICE SPECIFICATION FOR PILING & EMBEDDED RETAINING WALLS (ICE SPERW, 2015). BASED ON THESE, THERE ARE POTENTIALS FOR PILES IN THE SECANT WALL TO ENCROACH INTO THE BASEMENT AREA BY MAGNITUDES OF UP TO 105MM. IT IS IMPERATIVE THAT THE ARCHITECT, PROJECT STRUCTURAL ENGINEER AND PRINCIPAL CONTRACTOR MAKE ALLOWANCE FOR THIS.
3. THE PRINCIPAL CONTRACTOR AND ASSOCIATED SUB-CONTRACTORS MUST CARRY OUT INDEPENDENT RISK ASSESSMENTS THAT ARE APPLICABLE TO THEIR WORKS AND FULLY COMPLY WITH THE ABOVE STATED REGULATION.
4. THE PRINCIPAL CONTRACTOR AND ASSOCIATED SUB-CONTRACTORS MUST REVIEW THE SITE-SPECIFIC AND HISTORICAL BOREHOLE LOGS OF THE SITE TO HAVE ADEQUATE KNOWLEDGE OF GROUND CONDITIONS ON THE SITE, PRIOR TO COMMENCEMENT OF WORKS.
5. DURING SITE OPERATIONS, IF OBSERVED GROUND CONDITIONS DIFFER FROM THE GENERALISED STRATIGRAPHY SHOWN IN THIS SET OF DRAWINGS, DFS MUST BE INFORMED IMMEDIATELY.
6. IT IS THE RESPONSIBILITY OF THE PRINCIPAL CONTRACTOR AND ASSOCIATED SUB-CONTRACTORS TO ENSURE THAT SITE OPERATIVES ARE COMPETENT AND EXPERIENCED IN THE AREA OF WORKS TO BE UNDERTAKEN.

HEALTH, SAFETY AND ENVIRONMENT

7 IN ADDITION TO THE RISK/HAZARD TYPICALLY ASSOCIATED WITH THE GROUND ENGINEERING WORKS DETAILED IN THIS DRAWING, ADDITIONAL SITE/WORK-SPECIFIC HAZARDS HAVE BEEN IDENTIFIED THROUGH DESIGN RISK ASSESSMENT. THESE ARE OUTLINED IN 7.1 – 7.3 BELOW. ALL SITE OPERATIONS MUST ACCOUNT FOR ALL USUAL AND SITE/WORK-SPECIFIC HAZARDS.

7.1 PILING PLATFORM LEVEL IS UNCONFIRMED AT THIS STAGE. HOWEVER, FOR DESIGN PURPOSE, THE PILING MAT LEVEL FOR THE PERIMETER PILE WALLS AND BEARING PILES IS GENERALLY TAKEN TO BE THE PROPOSED GROUND FLOOR LEVEL; APPROX. +44.600M OD. NONETHELESS, THE PRINCIPAL CONTRACTOR MUST CONFIRM ACTUAL PILING PLATFORM LEVEL(S) PRIOR TO THE COMMENCEMENT OF PILING WORKS ON THE SITE, SO THAT THE PILE WALL SCHEDULE & BEARING PILE SCHEDULE MAY BE AMENDED ACCORDINGLY.

7.2 A REINFORCED CONCRETE CAPPING BEAM MUST BE CONSTRUCTED ON THE PILE WALL, WHILE TEMPORARY PROPS MUST BE INSTALLED AT LEVELS SPECIFIED BY DFS PRIOR TO THE COMMENCEMENT OF BULK EXCAVATION FOR THE NEW BASEMENT.

7.3 IN ADDITION, IT IS IMPERATIVE THAT THE CONCRETE MIX DESIGN FOR THE PILES IN THE CONTIGUOUS WALL ACCOUNTS FOR 10MM MAXIMUM AGGREGATE SIZE AND SET-RETARDING ADMIXTURES IN ORDER TO EASE THE INSTALLATION OF REINFORCEMENT CAGES INTO CONCRETED DRILLHOLES. REINFORCEMENT CAGE VIBRATORS MAY ALSO BE REQUIRED TO FORCE THE STEEL CAGES DOWN TO THE DESIGN DEPTHS.

DEEP FOUNDATIONS SPECIALISTS LIMITED
2nd FLOOR, THE PORTER BUILDING 1 BRUNEL WAY
SLOUGH SL1 1FQ
TELEPHONE: 01753 396498

CLIENT: ARMA PILING LIMITED

JOB TITLE: BROXWOOD VIEW, 29 ST. EDMUND'S TERRACE LONDON NW8 7QH

DRAWING TITLE: PILE WALL LAYOUT

DATE	DRAWN	CHECKED
12 AUGUST 2023	AR	AA

DRAWING No. DFS221011-01 REV. 08 SCALE 1:50 @ A1

HEALTH, SAFETY AND ENVIRONMENT

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2. THE PILE WALL DESIGNS ACCOUNT FOR 1:100 VERTICALITY TOLERANCE (WITH HEAVY DUTY AUGERS), 25mm HORIZONTAL POSITIONAL TOLERANCE (WITH A TEMPORARY GUIDE WALL IN–PLACE) AND 30mm OVER–BREAK IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE ICE SPECIFICATION FOR PILING & EMBEDDED RETAINING WALLS (ICE SPERW, 2015). BASED ON THESE, THERE ARE POTENTIALS FOR PILES IN THE SECANT WALL TO ENCROACH INTO THE BASEMENT AREA BY MAGNITUDES OF UP TO 105MM. IT IS IMPERATIVE THAT THE ARCHITECT, PROJECT STRUCTURAL ENGINEER AND PRINCIPAL CONTRACTOR MAKE ALLOWANCE FOR THIS.

3. THE PRINCIPAL CONTRACTOR AND ASSOCIATED SUB–CONTRACTORS MUST CARRY OUT INDEPENDENT RISK ASSESSMENTS THAT ARE APPLICABLE TO THEIR WORKS AND FULLY COMPLY WITH THE ABOVE STATED REGULATION.

4. THE PRINCIPAL CONTRACTOR AND ASSOCIATED SUB–CONTRACTORS MUST REVIEW THE SITE–SPECIFIC AND HISTORICAL BOREHOLE LOGS OF THE SITE TO HAVE ADEQUATE KNOWLEDGE OF GROUND CONDITIONS ON THE SITE, PRIOR TO COMMENCEMENT OF WORKS.

5. DURING SITE OPERATIONS, IF OBSERVED GROUND CONDITIONS DIFFER FROM THE GENERALISED STRATIGRAPHY SHOWN IN THIS SET OF DRAWINGS, DFS MUST BE INFORMED IMMEDIATELY.

6. IT IS THE RESPONSIBILITY OF THE PRINCIPAL CONTRACTOR AND ASSOCIATED SUB–CONTRACTORS TO ENSURE THAT SITE OPERATIVES ARE COMPETENT AND EXPERIENCED IN THE AREA OF WORKS TO BE UNDERTAKEN.

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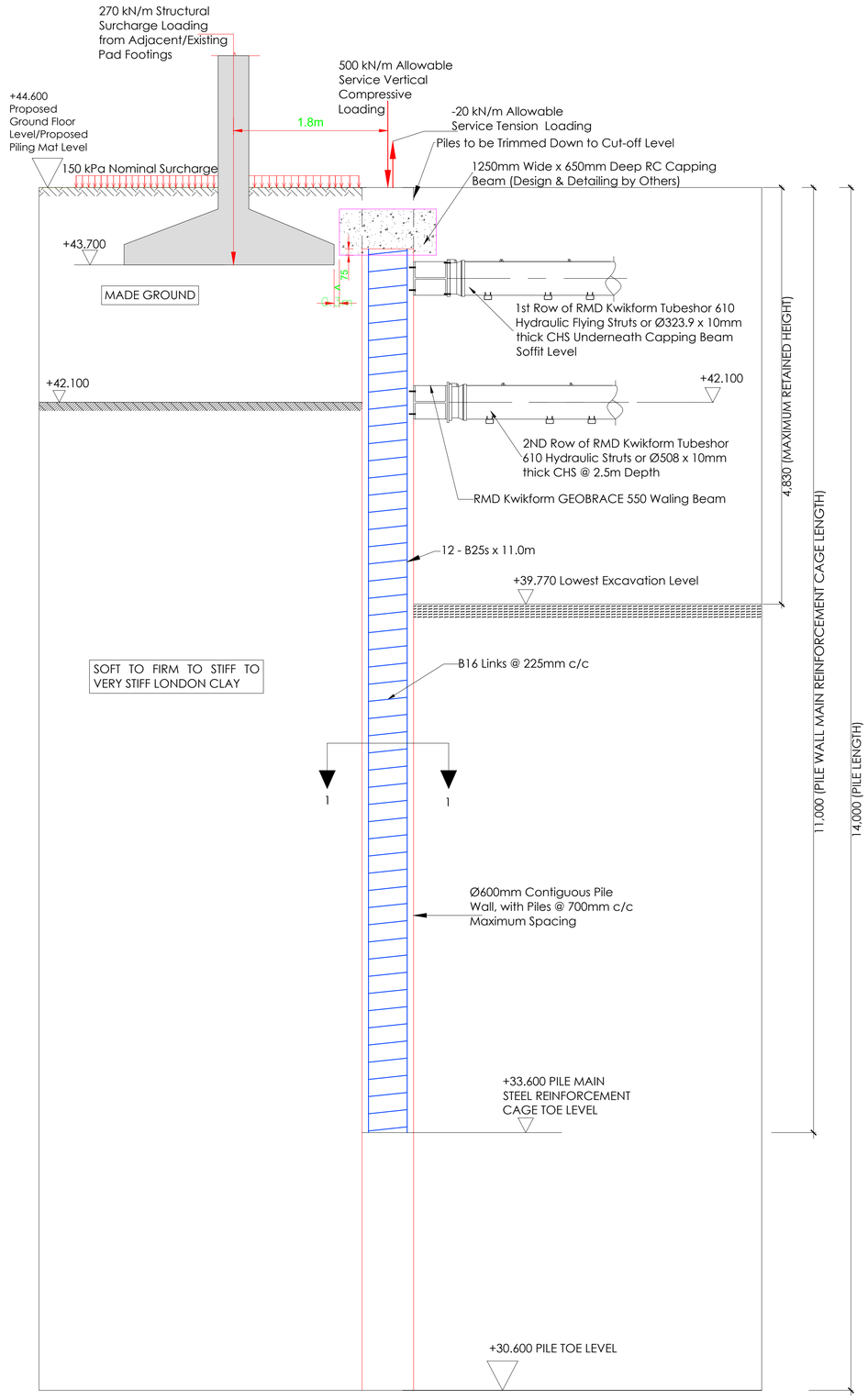
7.2. A REINFORCED CONCRETE CAPPING BEAM MUST BE CONSTRUCTED ON THE PILE WALL, WHILE TEMPORARY PROPS MUST BE INSTALLED AT LEVELS SPECIFIED BY DFS PRIOR TO THE COMMENCEMENT OF BULK EXCAVATION FOR THE NEW BASEMENT.

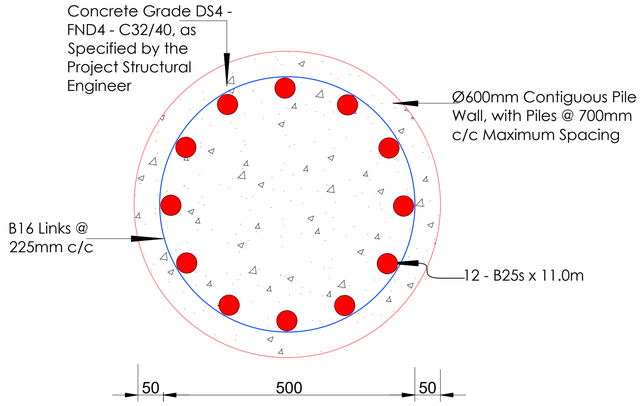
7.3. IN ADDITION, IT IS IMPERATIVE THAT THE CONCRETE MIX DESIGN FOR THE PILES IN THE SECANT & CONTIGUOUS WALL ACCOUNTS FOR 10MM MAXIMUM AGGREGATE SIZE AND SET–RETARDING ADMIXTURES IN ORDER TO EASE THE INSTALLATION OF REINFORCEMENT CAGES INTO CONCRETED DRILLHOLES. REINFORCEMENT CAGE VIBRATORS MAY ALSO BE REQUIRED TO FORCE THE STEEL CAGES DOWN TO THE DESIGN DEPTHS.

EXPECTED MAXIMUM WALL LATERAL DEFLECTION < 10mm

STRICT SUPERVISION OF BULK EXCAVATION BY MAIN CONTRACTOR IS REQUIRED, SO AS TO ENSURE THAT BULK EXCAVATION DOES NOT PROGRESS BELOW THE DIG DEPTH SHOWN IN THIS DRAWING



CONTIGUOUS PILE WALL SECTION A-A



SECTION 1-1 (SCALE 1:6)

PROPOSED SEQUENCE OF CONSTRUCTION:

PILE WALL SECTION A-A (Ø600 PERIMETER CONTIGUOUS PILE WALL, DOUBLY PROPPED, ADJACENT TO EXISTING HEAVILY LOADED FOUNDATIONS UNDERNEATH BARRIE HOUSE BUILDING)

A. INSTALL TEMPORARY GUIDE WALL PRIOR TO THE COMMENCEMENT OF CONTIGUOUS PILE WALL CONSTRUCTION.
B. INSTALL Ø600 PILES @ 700mm C/C INTERVALS FROM PILING PLATFORM LEVEL (+44.600) TO DEPTHS SPECIFIED BY DFS TO FORM CONTIGUOUS PILE WALL; SEE DFS' PILE WALL CONSTRUCTION SCHEDULE FOR MORE DETAILED INFORMATION.
C. BREAK DOWN PILES TO 75mm ABOVE PROPOSED SOFFIT LEVEL OF RC CAPPING BEAM.
D. CONSTRUCT RC CAPPING BEAM AND ON PILE WALL.
E. CARRY OUT INITIAL EXCAVATION DOWN TO A MAXIMUM DEPTH OF 1.5m.
F. INSTALL 1ST ROW OF TEMPORARY PROPS & STRUCTURAL STEEL WALING BEAM UNDERNEATH CAPPING BEAM SOFFIT LEVEL.
G. CONTINUE L BULK EXCAVATION DOWN TO 3M DEPTH.
H. INSTALL 2ND ROW OF TEMPORARY PROPS AND ASSOCIATED STRUCTURAL STEEL WALING BEAM AT 2.5m DEPTH (+42.100).
I. COMPLETE BULK EXCAVATION DOWN TO BASEMENT FORMATION LEVEL; +39.770.
J. PLACE BLINDING OF 50mm MINIMUM THICKNESS AT FORMATION LEVEL.
K. CONSTRUCT 950mm THICK REINFORCED CONCRETE RAFT/BASEMENT FLOOR SLAB WITH WATER-PROOF CONCRETE AND DOWEL INTO PILE RETAINING WALL.
L. COMMENCE THE CONSTRUCTION OF RC LINER WALL WITH WATER-PROOF CONCRETE, IN FRONT OF PILE RETAINING WALL, FROM BASEMENT LEVEL, UP TO 3m DEPTH.
M. REMOVE 2ND ROW OF TEMPORARY PROPS AND ASSOCIATED STRUCTURAL STEEL WALING BEAM AT 2.5m DEPTH (+42.100).
N. CONTINUE THE CONSTRUCTION OF RC LINER WALL UP TO LEVEL OF FIRST ROW OF PROPS.
O. CONSTRUCT GROUND FLOOR SLAB AND CONNECT SAME TO CAPPING BEAM.
P. REMOVE 1ST ROW OF PROPS & WALING BEAM.
Q. COMPLETE RC LINER WALL CONSTRUCTION AND CONNECT TO CAPPING BEAM.
R. CONSTRUCT SUPERSTRUCTURE.

IMPORTANT CONSTRUCTION NOTES

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

2. ALL LEVELS ARE IN METRES UNLESS NOTED OTHERWISE.

3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS, AND SPECIALISTS LATEST DRAWINGS AND SPECIFICATIONS. ANY DISCREPANCIES MUST BE REPORTED TO DFS, ENGINEER AND ARCHITECT IMMEDIATELY.

4. ONLY FIGURED DIMENSIONS ARE TO BE USED. ANY QUERIES MUST BE REFERRED TO DFS.

5. 50mm COVER TO PILE REINFORCEMENT.

6. STRICT SUPERVISION OF BULK EARTH WORKS IS REQUIRED TO ENSURE THAT EXCAVATIONS DO NOT EXCEED THE DESIGN DEPTH SHOWN IN THESE DRAWINGS (4.83m).

7. SECANT & CONTIGUOUS PILE WALLS SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE ICE SPECIFICATIONS FOR PILING AND EMBEDDED RETAINING WALLS (ICESPERW, 2017).

8. THE SECANT & CONTIGUOUS PILE WALLS ARE DESIGNED FOR BOTH TEMPORARY AND PERMANENT USE.

9. THE SECANT & CONTIGUOUS PILE WALLS ARE DESIGNED TO SUPPORT FULL HYDROSTATIC PRESSURE IN THE LONG–TERM, ONCE FACED WITH A PERMANENT RC LINER WALL, IN ACCORDANCE WITH THE RECOMMENDATION OF THE BS8102 (2009).

10. THE TEMPORARY WORKS ENGINEER (DFS) WILL VISIT SITE TO INSPECT AND APPROVE IN WRITING, THE TEMPORARY WORKS INSTALLATION AT THE CRITICAL STAGES E.G. LOADING/UNLOADING STAGES, PILED WALL PROPPING, INSTALLATIONS OF BRACES, APPLICATION OF DRYPACK TO EACH PIN, AND DURING GENERAL EXCAVATION FOR THE UNDERPINNING WORKS, E.T.C. TO COMPLETION, AND MUST PROVIDE A COPY OF THESE WRITTEN APPROVALS & RTA SITE VISIT REPORTS IN CONTRACTOR'S SITE PROGRESS REPORTS, WHICH ARE TO BE ISSUED TO THE PARTY WALL SURVEYORS ON REQUEST.

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TELEPHONE: 01753 396498

CLIENT: ARMA PILING LIMITED

JOB TITLE: BROXWOOD VIEW, 29 ST. EDMUND'S TERRACE LONDON NW8 7QH

DRAWING TITLE: CONTIGUOUS PILE WALL SECTION A-A

DATE	DRAWN	CHECKED
12 AUGUST 2023	AR	AA

DRAWING No.	REV	SCALE
DFS221011-02	08	SCALE IS AS SHOWN @ A1

HEALTH, SAFETY AND ENVIRONMENT

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2. THE PILE WALL DESIGNS ACCOUNT FOR 1:100 VERTICALITY TOLERANCE (WITH HEAVY DUTY AUGERS), 25mm HORIZONTAL POSITIONAL TOLERANCE (WITH A TEMPORARY GUIDE WALL IN–PLACE) AND 30mm OVER–BREAK IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE ICE SPECIFICATION FOR PILING & EMBEDDED RETAINING WALLS (ICE SPERW, 2015). BASED ON THESE, THERE ARE POTENTIALS FOR PILES IN THE SECANT WALL TO ENCROACH INTO THE BASEMENT AREA BY MAGNITUDES OF UP TO 105MM. IT IS IMPERATIVE THAT THE ARCHITECT, PROJECT STRUCTURAL ENGINEER AND PRINCIPAL CONTRACTOR MAKE ALLOWANCE FOR THIS.

3. THE PRINCIPAL CONTRACTOR AND ASSOCIATED SUB–CONTRACTORS MUST CARRY OUT INDEPENDENT RISK ASSESSMENTS THAT ARE APPLICABLE TO THEIR WORKS AND FULLY COMPLY WITH THE ABOVE STATED REGULATION.

4. THE PRINCIPAL CONTRACTOR AND ASSOCIATED SUB–CONTRACTORS MUST REVIEW THE SITE–SPECIFIC AND HISTORICAL BOREHOLE LOGS OF THE SITE TO HAVE ADEQUATE KNOWLEDGE OF GROUND CONDITIONS ON THE SITE, PRIOR TO COMMENCEMENT OF WORKS.

5. DURING SITE OPERATIONS, IF OBSERVED GROUND CONDITIONS DIFFER FROM THE GENERALISED STRATIGRAPHY SHOWN IN THIS SET OF DRAWINGS, DFS MUST BE INFORMED IMMEDIATELY.

6. IT IS THE RESPONSIBILITY OF THE PRINCIPAL CONTRACTOR AND ASSOCIATED SUB–CONTRACTORS TO ENSURE THAT SITE OPERATIVES ARE COMPETENT AND EXPERIENCED IN THE AREA OF WORKS TO BE UNDERTAKEN.

7. IN ADDITION TO THE RISK/HAZARD TYPICALLY ASSOCIATED WITH THE GROUND ENGINEERING WORKS DETAILED IN THIS DRAWING, ADDITIONAL SITE/WORK–SPECIFIC HAZARDS HAVE BEEN IDENTIFIED THROUGH DESIGN RISK ASSESSMENT. THESE ARE OUTLINED IN 7.1 – 7.3 BELOW. ALL SITE OPERATIONS MUST ACCOUNT FOR ALL USUAL AND SITE/WORK–SPECIFIC HAZARDS.

7.1. PILING PLATFORM LEVEL IS UNCONFIRMED AT THIS STAGE. HOWEVER, FOR DESIGN PURPOSE, THE PILING MAT LEVEL FOR THE PERIMETER PILE WALLS AND BEARING PILES IS GENERALLY TAKEN TO BE THE PROPOSED GROUND LEVEL; APPROX. +44.600M OD. NONETHELESS, THE PRINCIPAL CONTRACTOR MUST CONFIRM ACTUAL PILING PLATFORM LEVEL(S) PRIOR TO THE COMMENCEMENT OF PILING WORKS ON THE SITE, SO THAT THE PILE WALL SCHEDULE & BEARING PILE SCHEDULE MAY BE AMENDED ACCORDINGLY.

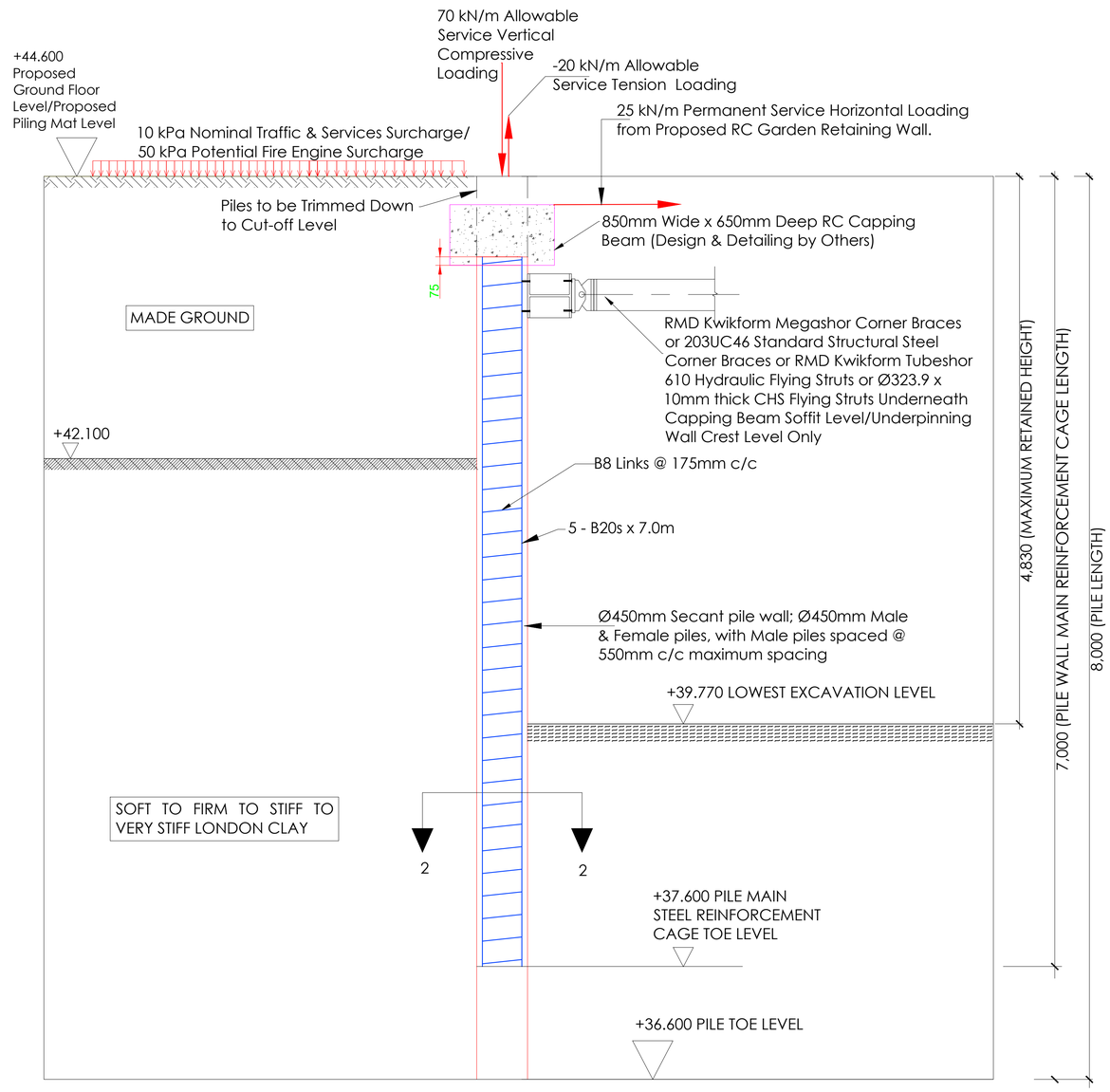
7.2. A REINFORCED CONCRETE CAPPING BEAM MUST BE CONSTRUCTED ON THE PILE WALL, WHILE TEMPORARY PROPS MUST BE INSTALLED AT LEVELS SPECIFIED BY DFS PRIOR TO THE COMMENCEMENT OF BULK EXCAVATION FOR THE NEW BASEMENT.

7.3. IN ADDITION, IT IS IMPERATIVE THAT THE CONCRETE MIX DESIGN FOR THE PILES IN THE SECANT & CONTIGUOUS WALL ACCOUNTS FOR 10MM MAXIMUM AGGREGATE SIZE AND SET–RETARDING ADMIXTURES IN ORDER TO EASE THE INSTALLATION OF REINFORCEMENT CAGES INTO CONCRETED DRILLHOLES. REINFORCEMENT CAGE VIBRATORS MAY ALSO BE REQUIRED TO FORCE THE STEEL CAGES DOWN TO THE DESIGN DEPTHS.

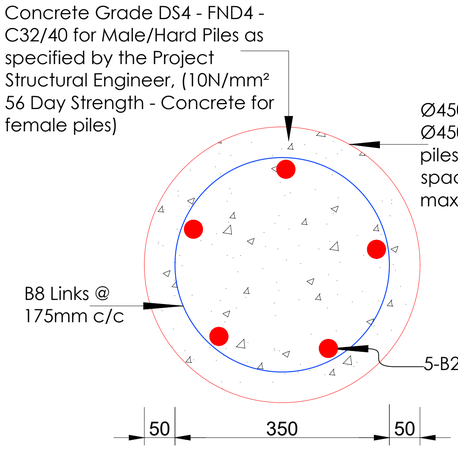
EXPECTED MAXIMUM WALL LATERAL DEFLECTION < 10mm

INSTALL FEMALE PILES TO 6.0m DEPTH ONLY

STRICT SUPERVISION OF BULK EXCAVATION BY MAIN CONTRACTOR IS REQUIRED, SO AS TO ENSURE THAT BULK EXCAVATION DOES NOT PROGRESS BELOW THE DIG DEPTH SHOWN IN THIS DRAWING



SECANT PILE WALL SECTION B-B (SCALE 1:25)



SECTION 2-2 (SCALE 1:5)

PROPOSED SEQUENCE OF CONSTRUCTION:

PILE WALL SECTION B - B (Ø450 PERIMETER SECANT PILE WALL, SINGLY PROPPED, OTHER AREAS OF PROPOSED BASEMENT.

A. INSTALL TEMPORARY GUIDE WALL PRIOR TO THE COMMENCEMENT OF SECANT PILE WALL CONSTRUCTION.
B. INSTALL Ø450 INTERLOCKING MALE AND FEMALE PILES, WITH MALE PILES SPACED @ 550mm C/C INTERVALS FROM PILING PLATFORM LEVEL (+44.600) TO DEPTHS SPECIFIED BY DFS TO FORM SECANT PILE WALL; SEE DFS' PILE WALL CONSTRUCTION SCHEDULE FOR MORE DETAILED INFORMATION.
C. BREAK DOWN PILES TO 75mm ABOVE PROPOSED SOFFIT LEVEL OF RC CAPPING BEAM.
D. CONSTRUCT RC CAPPING BEAM ON PILE WALL.
E. CARRY OUT INITIAL EXCAVATION DOWN TO A MAXIMUM DEPTH OF 1.5m.
F. INSTALL TEMPORARY PROPS AND STRUCTURAL STEEL WALING BEAM UNDERNEATH CAPPING BEAM SOFFIT LEVEL.
G. CONTINUE BULK EXCAVATION DOWN TO BASEMENT FORMATION LEVEL; +39.770.
H. PLACE BLINDING OF 50mm MINIMUM THICKNESS AT FORMATION LEVEL.
I. CONSTRUCT 950mm THICK REINFORCED CONCRETE RAFT/BASEMENT FLOOR SLAB WITH WATER-PROOF CONCRETE AND DOWEL INTO PILE RETAINING WALL.
J. COMMENCE THE CONSTRUCTION OF RC LINER WALL WITH WATER-PROOF CONCRETE, IN FRONT OF PILE RETAINING WALL, FROM BASEMENT LEVEL, UP TO WALING BEAM SOFFIT LEVEL.
K. CONSTRUCT GROUND FLOOR SLAB AND CONNECT SAME TO CAPPING BEAM.
L. REMOVE TEMPORARY PROPS AND WALING BEAM.
M. COMPLETE RC LINER WALL CONSTRUCTION AND CONNECT TO CAPPING BEAM.
N. CONSTRUCT SUPERSTRUCTURE.

IMPORTANT CONSTRUCTION NOTES

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4. ONLY FIGURED DIMENSIONS ARE TO BE USED. ANY QUERIES MUST BE REFERRED TO DFS.
5. 50mm COVER TO PILE REINFORCEMENT.
6. STRICT SUPERVISION OF BULK EARTH WORKS IS REQUIRED TO ENSURE THAT EXCAVATIONS DO NOT EXCEED THE DESIGN DEPTHS SHOWN IN THESE DRAWINGS (4.83m).
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8. THE SECANT & CONTIGUOUS PILE WALLS ARE DESIGNED FOR BOTH TEMPORARY AND PERMANENT USE.
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CLIENT: ARMA PILING LIMITED

JOB TITLE: BROXWOOD VIEW, 29 ST. EDMUND'S TERRACE LONDON NW8 7QH

DRAWING TITLE: SECANT PILE WALL SECTION B-B

DATE	DRAWN	CHECKED
12 AUGUST 2023	AR	AA

DRAWING No.	REV.	SCALE
DFS221011-03	08	SCALE IS AS SHOWN @ A1

HEALTH, SAFETY AND ENVIRONMENT

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2. THE PILE WALL DESIGNS ACCOUNT FOR 1:100 VERTICALITY TOLERANCE (WITH HEAVY DUTY AUGERS), 25mm HORIZONTAL POSITIONAL TOLERANCE (WITH A TEMPORARY GUIDE WALL IN–PLACE) AND 30mm OVER–BREAK IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE ICE SPECIFICATION FOR PILING & EMBEDDED RETAINING WALLS (ICE SPERW, 2015). BASED ON THESE, THERE ARE POTENTIALS FOR PILES IN THE SECANT WALL TO ENCROACH INTO THE BASEMENT AREA BY MAGNITUDES OF UP TO 105MM. IT IS IMPERATIVE THAT THE ARCHITECT, PROJECT STRUCTURAL ENGINEER AND PRINCIPAL CONTRACTOR MAKE ALLOWANCE FOR THIS.

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5. DURING SITE OPERATIONS, IF OBSERVED GROUND CONDITIONS DIFFER FROM THE GENERALISED STRATIGRAPHY SHOWN IN THIS SET OF DRAWINGS, DFS MUST BE INFORMED IMMEDIATELY.

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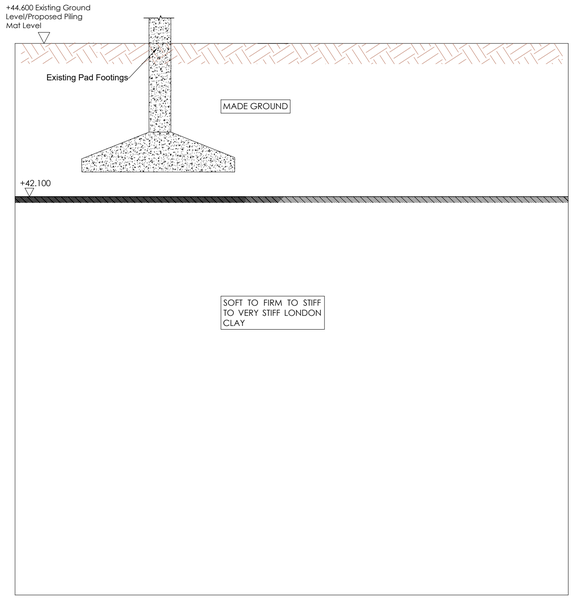
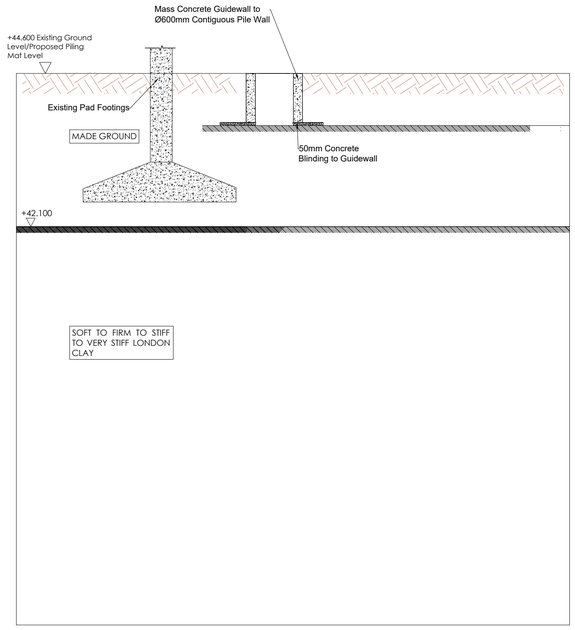


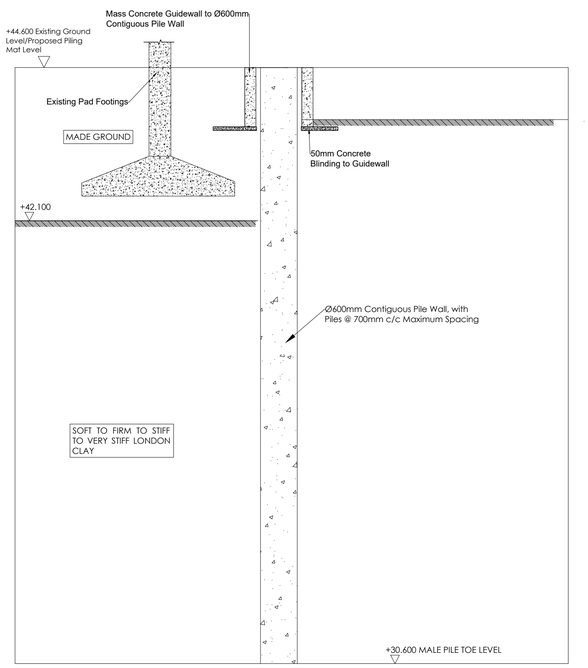
STAGE 0:

PRE-PILING SITE CONDITIONS



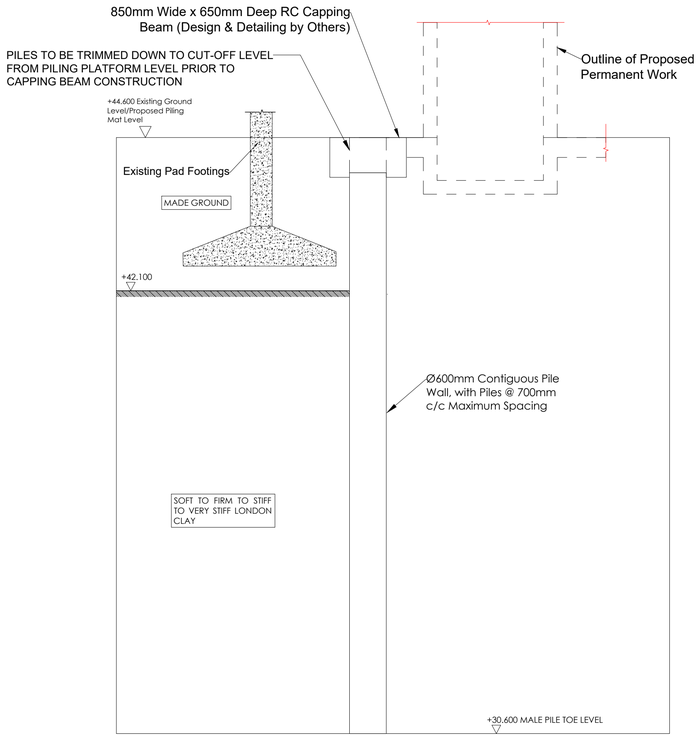
STAGE 1:

INSTALL TEMPORARY GUIDE WALL PRIOR TO THE COMMENCEMENT OF CONTIGUOUS PILE WALL CONSTRUCTION.



STAGE 2:

INSTALL Ø600 PILES @ 700mm C/C INTERVALS FROM PILING PLATFORM LEVEL (+44.600) TO DEPTHS SPECIFIED BY DFS TO FORM CONTIGUOUS PILE WALL



STAGE 3:

BREAK DOWN PILES TO 75MM ABOVE PROPOSED SOFFIT LEVEL OF RC CAPPING BEAM AND CONSTRUCT RC CAPPING BEAM ON PILES.

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TELEPHONE: 01753 396498

CLIENT
ARMA PILING LIMITED

JOB TITLE
BROXWOOD VIEW, 29 ST. EDMUND'S TERRACE LONDON NW8 7QH

DRAWING TITLE
PROPOSED CONSTRUCTION SEQUENCE SHEET -1

DATE	DRAWN	CHECKED
12 AUGUST 2023	AR	AA

DRAWING NO.	REV.	SCALE
DFS221011-04	08	SCALE IS AS SHOWN @ A1

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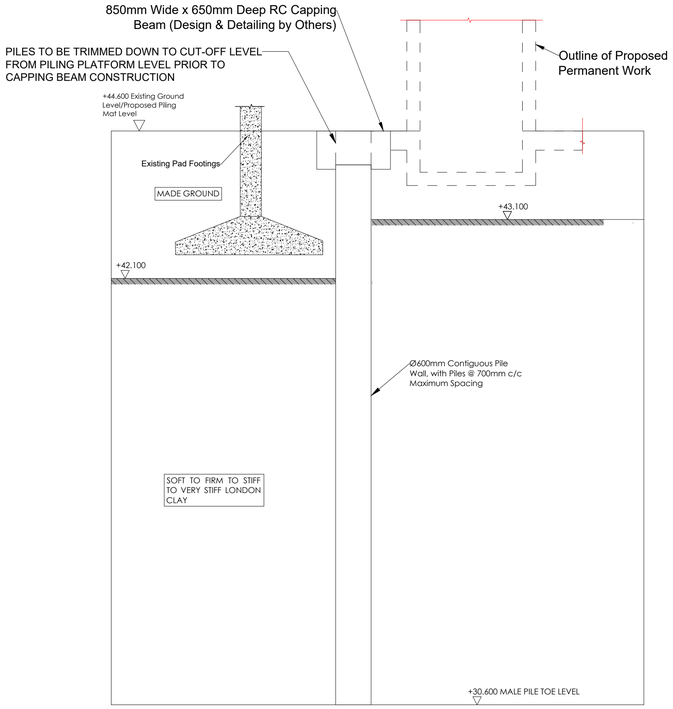
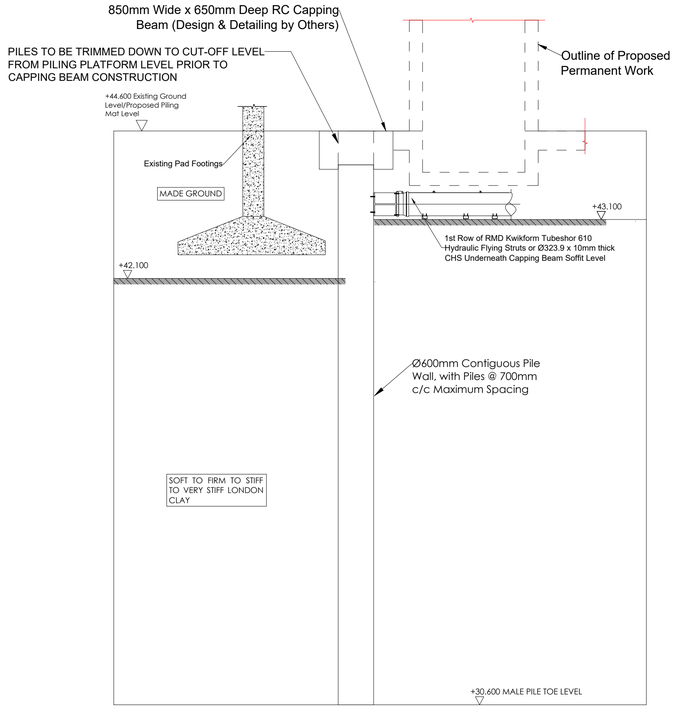


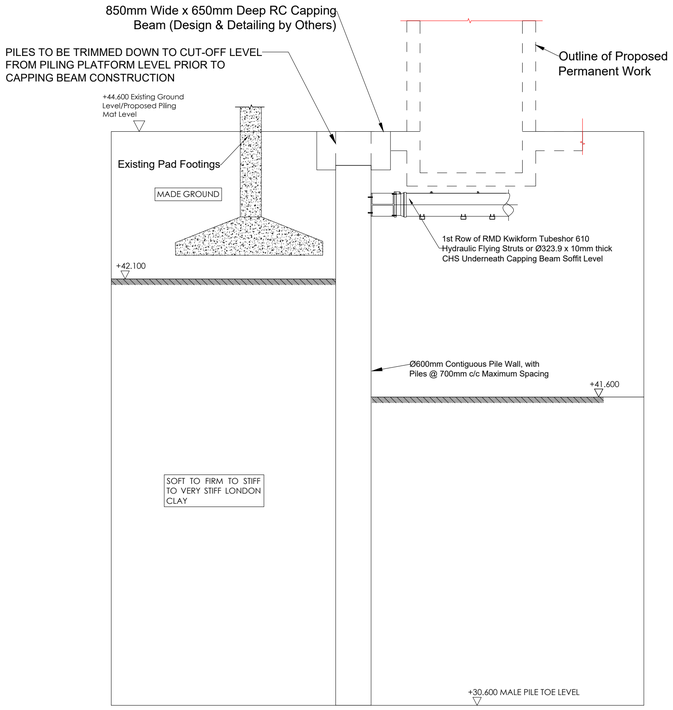
STAGE 4:

CARRY OUT INITIAL EXCAVATION DOWN TO A MAXIMUM DEPTH OF 1.5m.



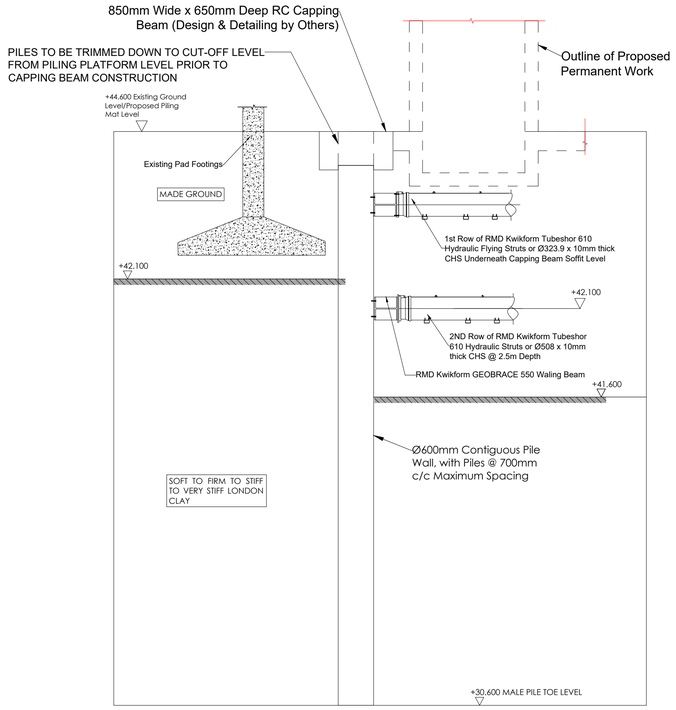
STAGE 5:

INSTALL 1ST ROW OF TEMPORARY PROPS & STRUCTURAL STEELWALING BEAM UNDERNEATH CAPPING BEAM SOFFIT LEVEL.



STAGE 6:

CONTINUE L BULK EXCAVATION DOWN TO 3M DEPTH.



STAGE 7:

INSTALL 2ND ROW OF TEMPORARY PROPS AND ASSOCIATED STRUCTURAL STEEL WALING BEAM AT 2.5m DEPTH (+42.100)

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CLIENT: ARMA PILING LIMITED

JOB TITLE: BROXWOOD VIEW, 29 ST. EDMUND'S TERRACE LONDON NW8 7QH

DRAWING TITLE: PROPOSED CONSTRUCTION SEQUENCE SHEET -2

DATE	DRAWN	CHECKED
12 AUGUST 2023	AR	AA

DRAWING No.	REV.	SCALE
DFS221011-05	08	SCALE IS AS SHOWN @ A1

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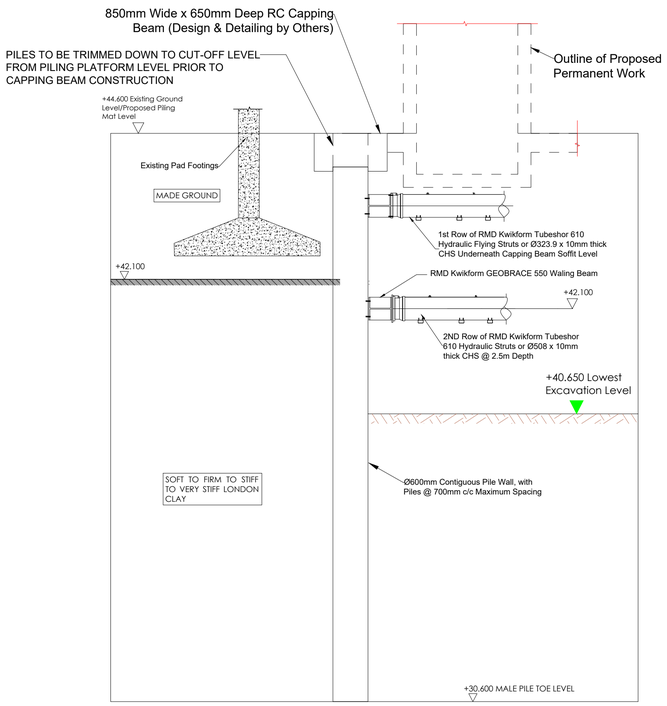
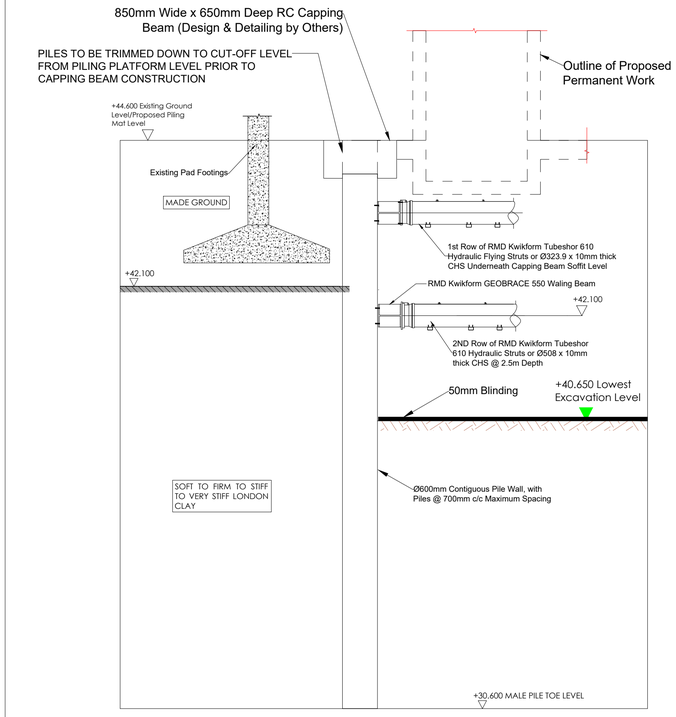


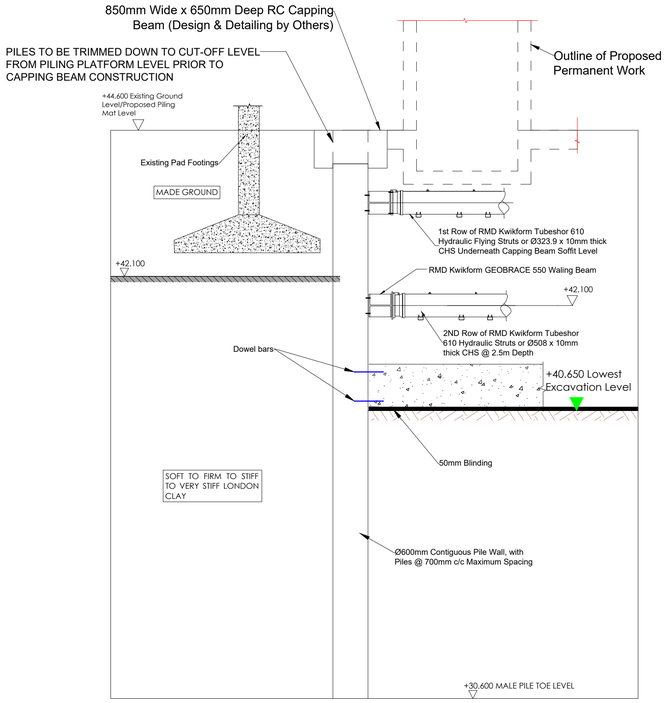
STAGE 8:

COMPLETE BULK EXCAVATION DOWN TO BASEMENT FORMATION LEVEL; +39.770.



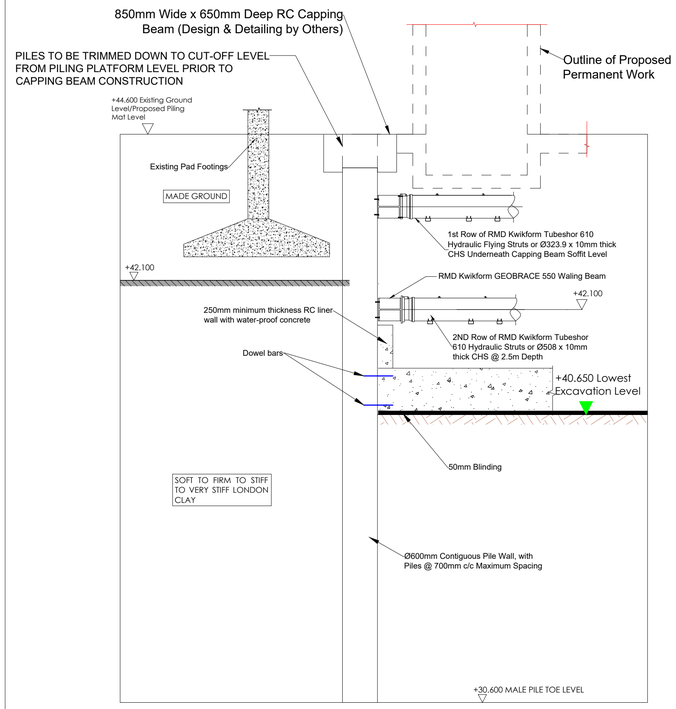
STAGE 9:

PLACE BLINDING OF 50mm MINIMUM THICKNESS AT FORMATION LEVEL.



STAGE 10:

CONSTRUCT 950mm THICK REINFORCED CONCRETE RAFT/BASEMENT FLOOR SLAB WITH WATER-PROOF CONCRETE AND DOWEL INTO PILE RETAINING WALL.



STAGE 11:

COMMENCE THE CONSTRUCTION OF RC LINER WALL WITH WATER-PROOF CONCRETE, IN FRONT OF PILE RETAINING WALL, FROM BASEMENT LEVEL, UP TO 3m DEPTH.

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DATE	DRAWN	CHECKED
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DRAWING No.	REV.	SCALE
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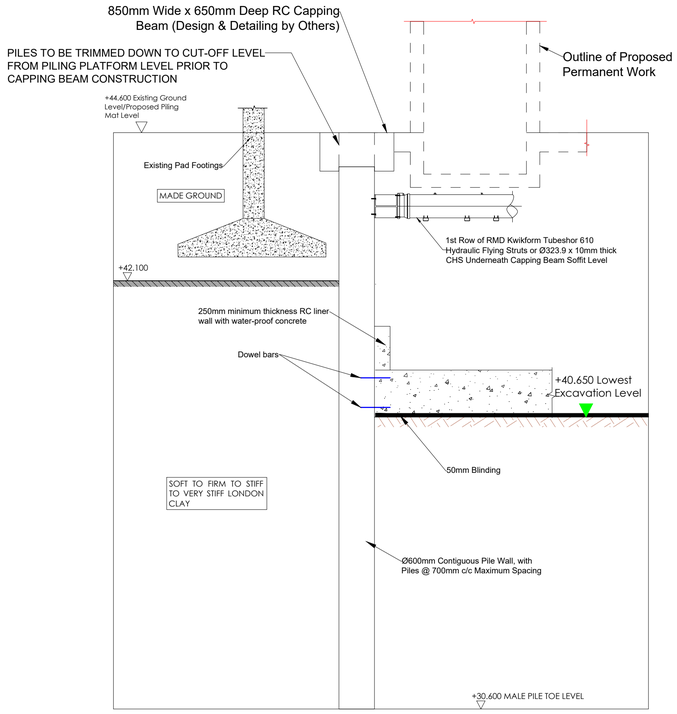
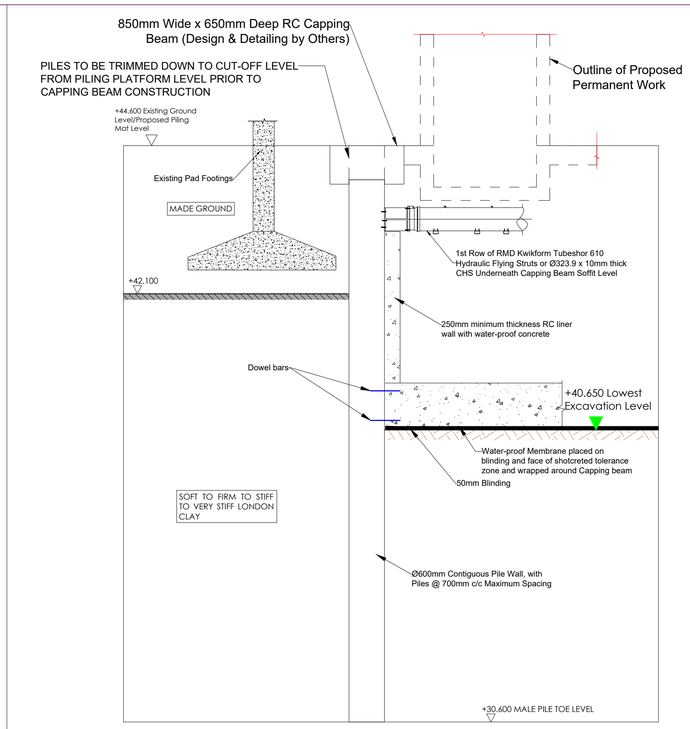
7.3. IN ADDITION, IT IS IMPERATIVE THAT THE CONCRETE MIX DESIGN FOR THE PILES IN THE SECANT & CONTIGUOUS WALL ACCOUNTS FOR 10MM MAXIMUM AGGREGATE SIZE AND SET-RETARDING ADMIXTURES IN ORDER TO EASE THE INSTALLATION OF REINFORCEMENT CAGES INTO CONCRETED DRILLHOLES. REINFORCEMENT CAGE VIBRATORS MAY ALSO BE REQUIRED TO FORCE THE STEEL CAGES DOWN TO THE DESIGN DEPTHS.



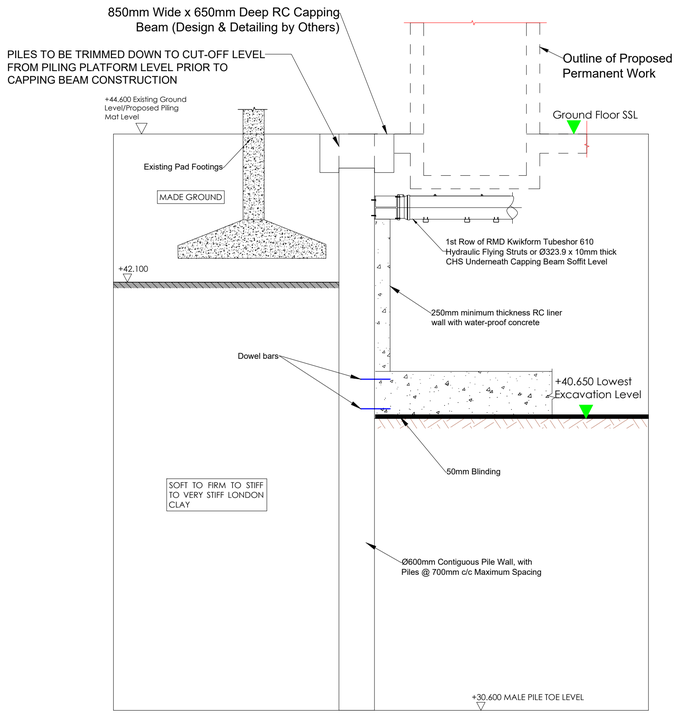
STAGE 12:

REMOVE 2ND ROW OF TEMPORARY PROPS AND ASSOCIATED STRUCTURAL STEEL WALING BEAM AT 2.5m DEPTH (+42.100).



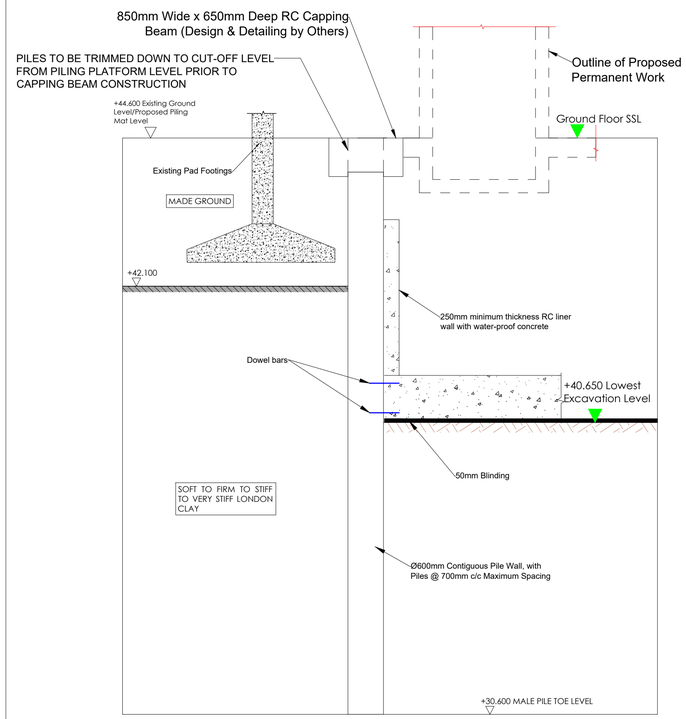
STAGE 13:

CONTINUE THE CONSTRUCTION OF RC LINER WALL UP TO LEVEL OF FIRST ROW OF PROPS.



STAGE 14:

CONSTRUCT GROUND FLOOR SLAB AND CONNECT SAME TO CAPPING BEAM.



STAGE 15:

REMOVE 1ST ROW OF PROPS & WALING BEAM.

IMPORTANT CONSTRUCTION NOTES

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

2. ALL LEVELS ARE IN METRES UNLESS NOTED OTHERWISE.

3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS, AND SPECIALISTS LATEST DRAWINGS AND SPECIFICATIONS. ANY DISCREPANCIES MUST BE REPORTED TO DFS, ENGINEER AND ARCHITECT IMMEDIATELY.

4. ONLY FIGURED DIMENSIONS ARE TO BE USED. ANY QUERIES MUST BE REFERRED TO DFS.

5. 50mm COVER TO PILE REINFORCEMENT.

6. STRICT SUPERVISION OF BULK EARTH WORKS IS REQUIRED TO ENSURE THAT EXCAVATIONS DO NOT EXCEED THE DESIGN DEPTH SHOWN IN THESE DRAWINGS (4.83m).

7. SECANT & CONTIGUOUS PILE WALLS SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE ICE SPECIFICATIONS FOR PILING AND EMBEDDED RETAINING WALLS (ICESPERW, 2017).

8. THE SECANT & CONTIGUOUS PILE WALLS ARE DESIGNED FOR BOTH TEMPORARY AND PERMANENT USE.

9. THE SECANT & CONTIGUOUS PILE WALLS ARE DESIGNED TO SUPPORT FULL HYDROSTATIC PRESSURE IN THE LONG-TERM, ONCE FACED WITH A PERMANENT RC LINER WALL, IN ACCORDANCE WITH THE RECOMMENDATION OF THE BS8102 (2009).

10. THE TEMPORARY WORKS ENGINEER (DFS) WILL VISIT SITE TO INSPECT AND APPROVE IN WRITING, THE TEMPORARY WORKS INSTALLATION AT THE CRITICAL STAGES E.G. LOADING/UNLOADING STAGES, PILED WALL PROPPING, INSTALLATIONS OF BRACES, APPLICATION OF DRYPACK TO EACH PIN, AND DURING GENERAL EXCAVATION FOR THE UNDERPINNING WORKS, E.T.C. TO COMPLETION, AND MUST PROVIDE A COPY OF THESE WRITTEN APPROVALS & RTA SITE VISIT REPORTS IN CONTRACTOR'S SITE PROGRESS REPORTS, WHICH ARE TO BE ISSUED TO THE PARTY WALL SURVEYORS ON REQUEST.

DEEP FOUNDATIONS SPECIALISTS LIMITED
2nd FLOOR, THE PORTER BUILDING 1 BRUNEL WAY
SLOUGH SL1 1FQ
TELEPHONE: 01753 396498

CLIENT

ARMA PILING LIMITED

JOB TITLE

BROXWOOD VIEW, 29 ST. EDMUND'S TERRACE LONDON NW8 7QH

DRAWING TITLE

PROPOSED CONSTRUCTION SEQUENCE SHEET -4

DATE	DRAWN	CHECKED
12 AUGUST 2023	AR	AA

DRAWING No	REV	SCALE
DFS221011-07	08	SCALE IS AS SHOWN @ A1

HEALTH, SAFETY AND ENVIRONMENT

1. THIS GEO-STRUCTURAL DESIGN HAS BEEN CARRIED OUT AND REVIEWED IN ACCORDANCE WITH THE CONSTRUCTION, DESIGN & MANAGEMENT (CDM) REGULATIONS 2015 AND DOES NOT INCLUDE ANY ABNORMAL RISK ITEM THAT A COMPETENT CONTRACTOR WOULD NOT BE AWARE OF WHEN UNDERTAKING CONSTRUCTION WORKS SHOWN.

2. THE PILE WALL DESIGNS ACCOUNT FOR 1:100 VERTICALITY TOLERANCE (WITH HEAVY DUTY AUGERS), 25mm HORIZONTAL POSITIONAL TOLERANCE (WITH A TEMPORARY GUIDE WALL IN-PLACE) AND 30mm OVER-BREAK IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE ICE SPECIFICATION FOR PILING & EMBEDDED RETAINING WALLS (ICE SPERW, 2015). BASED ON THESE, THERE ARE POTENTIALS FOR PILES IN THE SECANT WALL TO ENCROACH INTO THE BASEMENT AREA BY MAGNITUDES OF UP TO 105MM. IT IS IMPERATIVE THAT THE ARCHITECT, PROJECT STRUCTURAL ENGINEER AND PRINCIPAL CONTRACTOR MAKE ALLOWANCE FOR THIS.

3. THE PRINCIPAL CONTRACTOR AND ASSOCIATED SUB-CONTRACTORS MUST CARRY OUT INDEPENDENT RISK ASSESSMENTS THAT ARE APPLICABLE TO THEIR WORKS AND FULLY COMPLY WITH THE ABOVE STATED REGULATION.

4. THE PRINCIPAL CONTRACTOR AND ASSOCIATED SUB-CONTRACTORS MUST REVIEW THE SITE-SPECIFIC AND HISTORICAL BOREHOLE LOGS OF THE SITE TO HAVE ADEQUATE KNOWLEDGE OF GROUND CONDITIONS ON THE SITE, PRIOR TO COMMENCEMENT OF WORKS.

5. DURING SITE OPERATIONS, IF OBSERVED GROUND CONDITIONS DIFFER FROM THE GENERALISED STRATIGRAPHY SHOWN IN THIS SET OF DRAWINGS, DFS MUST BE INFORMED IMMEDIATELY.

6. IT IS THE RESPONSIBILITY OF THE PRINCIPAL CONTRACTOR AND ASSOCIATED SUB-CONTRACTORS TO ENSURE THAT SITE OPERATIVES ARE COMPETENT AND EXPERIENCED IN THE AREA OF WORKS TO BE UNDERTAKEN.

7. IN ADDITION TO THE RISK/HAZARD TYPICALLY ASSOCIATED WITH THE GROUND ENGINEERING WORKS DETAILED IN THIS DRAWING, ADDITIONAL SITE/WORK-SPECIFIC HAZARDS HAVE BEEN IDENTIFIED THROUGH DESIGN RISK ASSESSMENT. THESE ARE OUTLINED IN 7.1 – 7.3 BELOW. ALL SITE OPERATIONS MUST ACCOUNT FOR ALL USUAL AND SITE/WORK-SPECIFIC HAZARDS.

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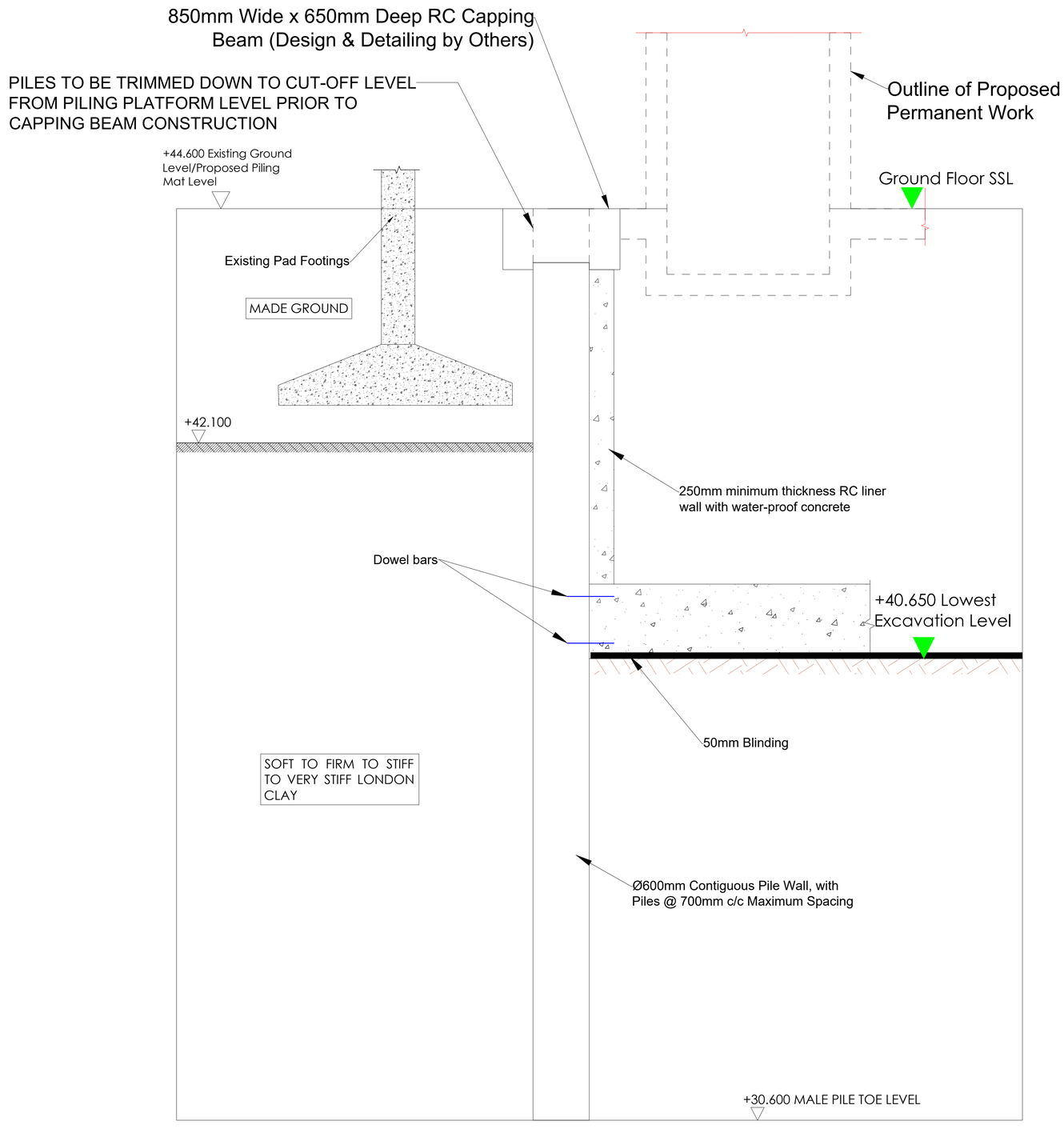

STAGE 16:

COMPLETE RC LINER WALL CONSTRUCTION AND CONNECT TO CAPPING BEAM & CONSTRUCT SUPERSTRUCTURE.

IMPORTANT CONSTRUCTION NOTES

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DRAWING TITLE: PROPOSED CONSTRUCTION SEQUENCE SHEET - 5

DATE	DRAWN	CHECKED
12 AUGUST 2023	AR	AA

DRAWING No.	REV	SCALE
DFS221011-08	08	SCALE IS AS SHOWN @ A1