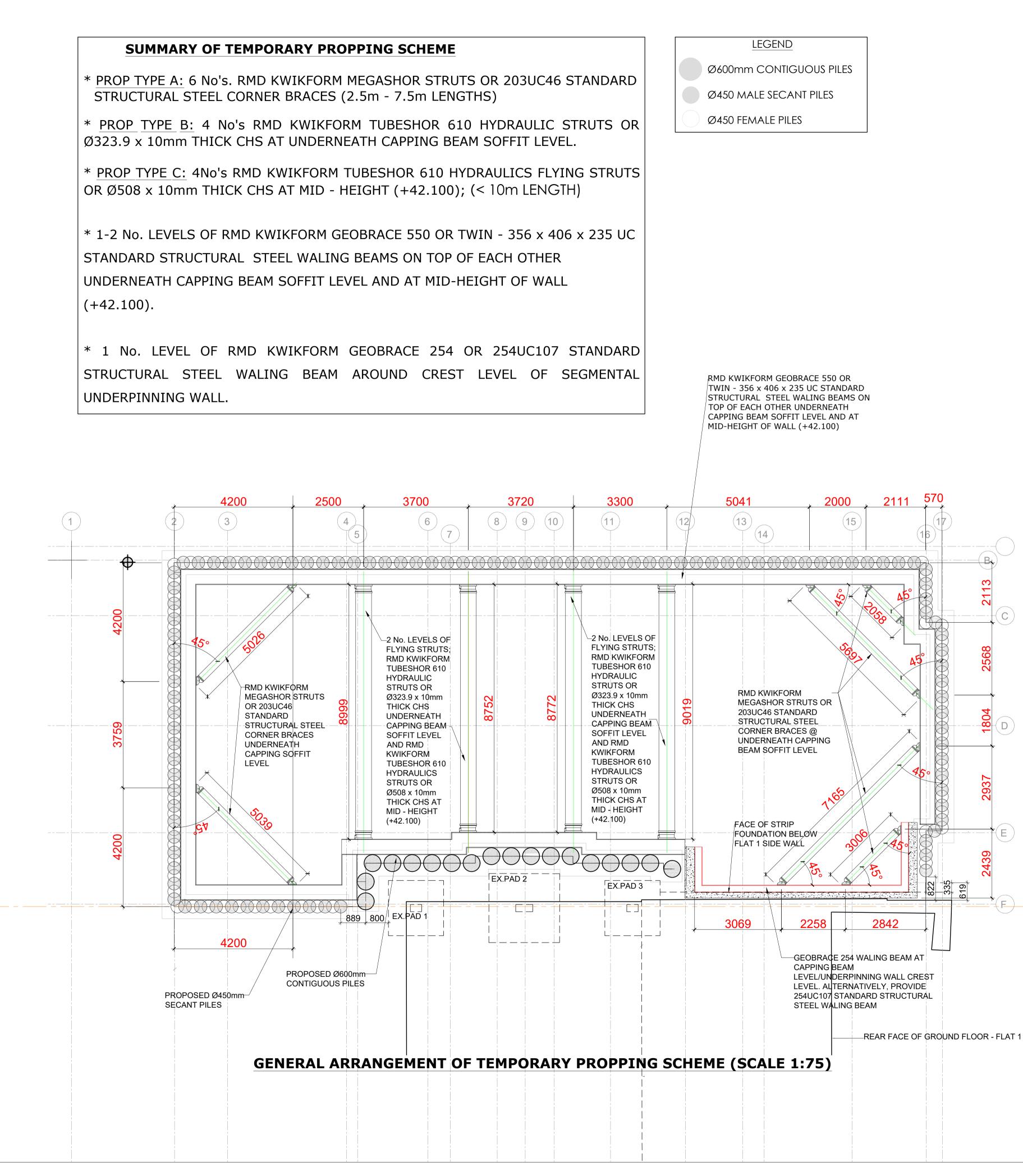
HEALTH. SAFETY AND ENVIRONMENT

- . 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. DFS PILE WALL LAYOUT AND DESIGN ACCOUNT FOR 1:100 VERTICALITY TOLERANCE (WITH CFA DRILLING TECHNIQUE, USING 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 PROPOSED BASEMENT AREA BY MAGNITUDES OF UP TO 105mm. IT IS IMPERATIVE THAT THE ARCHITECT, PROJECT STRUCTURAL ENGINEER AND PRINCIPAL CONTRACTOR MAKE ALLOWANCE FOR THIS.
- 5. 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.
- 5. 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.
- . 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 7.4 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 EXISTING GROUND LEVEL IN THE AREA OF PROPOSED WORKS; APPROX. +45.500M 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 DURING BULK EXCAVATION FOR THE NEW BASEMENT AS ILLUSTRATED IN THESE DRAWINGS.
- 7.3. A TEMPORARY GUIDE WALL MUST BE PUT IN-PLACE PRIOR TO THE INSTALLATION OF PILE WALLS.
- 7.4. IN ADDITION, IT IS IMPERATIVE THAT THE CONCRETE MIX DESIGN FOR THE HARD PILES IN THE BORED PILE WALLS ACCOUNT 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.



IMPORTANT CONSTRUCTION NOTES

- I. ALL DIMENSIONS ARE IN UNLESS MILLIMETERS NOTED OTHERWISE.
- 2. ALL LEVELS ARE IN METRES UNLESS NOTED OTHERWISE.
- 3. THIS DRAWING SHALL BE READ IN CONJUNCTION ALL WITH 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 ТО ENSURE REQUIRED THAT EXCAVATIONS DO NOT EXCEED THE DESIGN DEPTH SHOWN IN THESE DRAWINGS (4.85m)
- 7. BORED PILE WALL SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE ICE SPECIFICATIONS FOR PILING AND EMBEDDED RETAINING WALLS (ICESPERW, 2016).
- 8. THE BORED PILE WALLS ARE DESIGNED FOR BOTH TEMPORARY AND PERMANENT USE.



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GENERAL ARRANGEMENT OF TEMPORARY PROPPING SCHEME

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