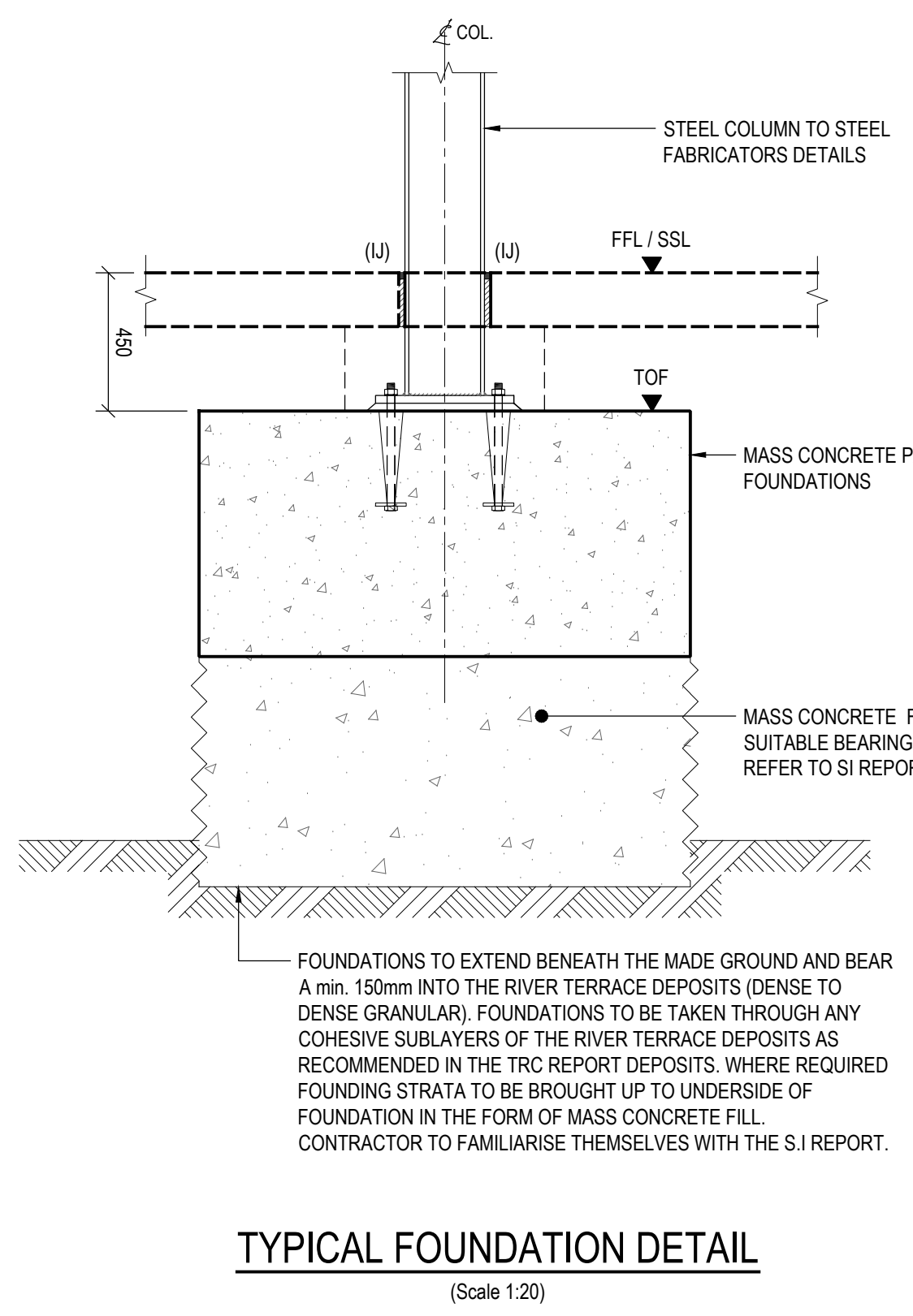
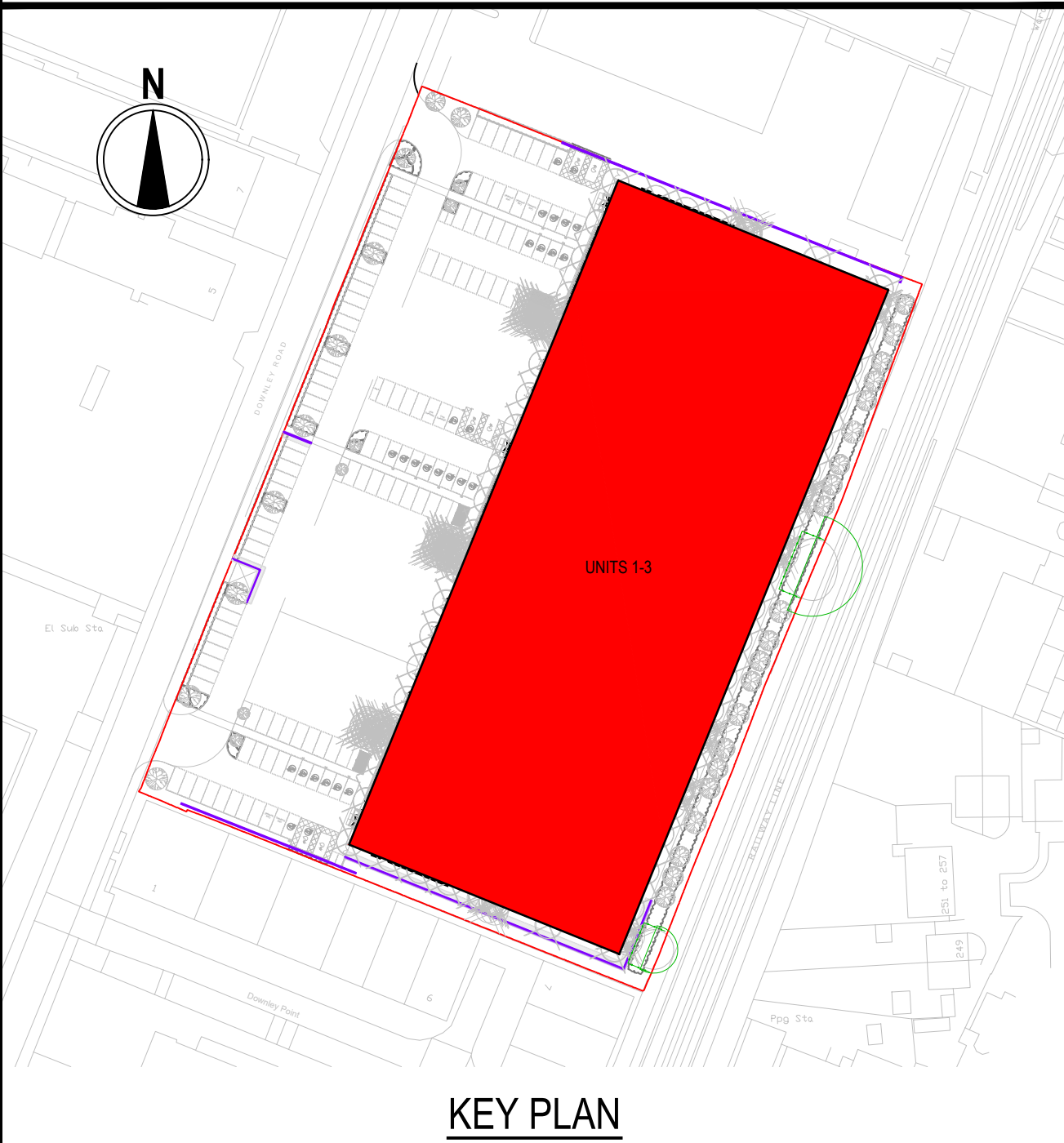
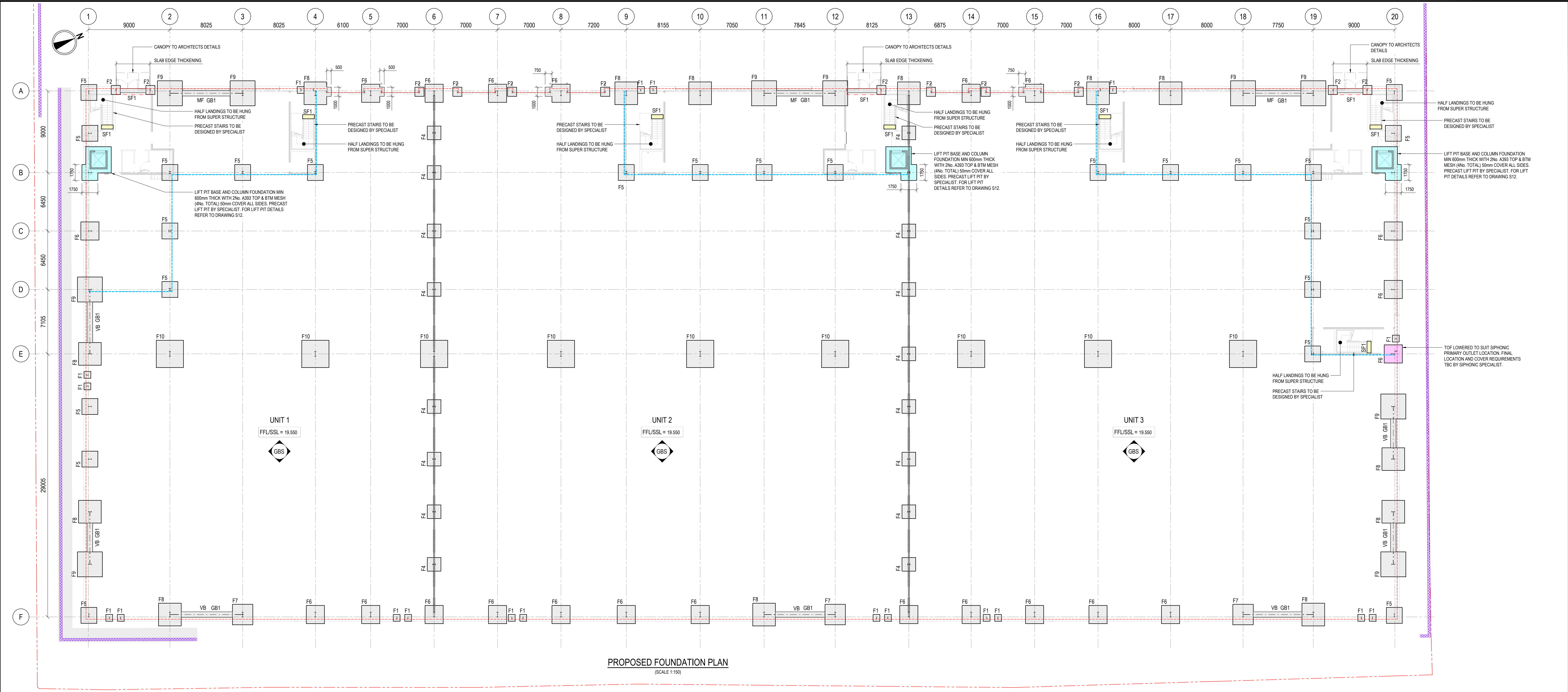




PAD FOUNDATION SCHEDULE			
REF.	DIMENSIONS	MIN. DEPTH	REINFORCEMENT
F1	750 x 750	500	MASS CONC
F2	1000 x 1000	500	MASS CONC
F3	1250 x 1250	600	MASS CONC
F4	1500 x 1500	750	MASS CONC
F5	1750 x 1750	850	MASS CONC
F6	2000 x 2000	1000	MASS CONC
F7	2250 x 2250	1100	MASS CONC
F8	2500 x 2500	1250	MASS CONC
F9	2750 x 2750	1350	MASS CONC
F10	3000 x 3000	1500	MASS CONC
F11	3250 x 3250	1500	MASS CONC
SF1	450 WIDE	500	MASS CONC
SF2	600 WIDE	500	MASS CONC

FOR EXTENTS AND DETAILS OF FIRE BOUNDARY CONDITIONS REFER TO ARCHITECT'S DRAWINGS / SPECIFICATION. ALL FOUNDATIONS HAVE BEEN DESIGNED AS 'NON-CONSTRAINED'. FIRE PROTECTION OF BOUNDARY WALL AND ASSOCIATED STEELWORK TO BE DETAILED ACCORDINGLY.

GROUND BEAM SCHEDULE		
REF.	SIZE	REINFORCEMENT
GB1	600 x 600	ALLOW 150 kg/m ³

FORMATION NOTES:

- THE FOLLOWING TO BE READ IN CONJUNCTION WITH THE TRC GROUND INVESTIGATION REPORTS DATED DECEMBER 2023.
- CARRY OUT SITE STRIP TO REMOVE ALL VEGETATION AND TOP SOIL.
 - ANY EXCAVATED MATERIAL IF REMOVED FROM SITE MUST BE TAKEN TO A SUITABLY LICENSED TIP. MATERIAL TAKEN TO LANDFILL SITES MUST MEET THE RELEVANT WASTE ACCEPTANCE CRITERIA (WAC). IT IS THE RESPONSIBILITY OF THE MAIN CONTRACTOR TO ENSURE THAT THE CORRECT INFORMATION OF THE MATERIAL IS SUPPLIED TO THE LANDFILL OPERATOR.
 - ALL FOUNDATIONS INCLUDING RETAINING WALL BASES HAVE BEEN DESIGNED FOR A MINIMUM GROUND BEARING PRESSURE OF 180kN/m² & ARE TO BEAR WITHIN THE RIVER TERRACE DEPOSITS (DENSE TO DENSE GRANULAR). FOUNDATIONS TO BE TAKEN THROUGH ANY COHESIVE SUBLAYERS OF THE RIVER TERRACE DEPOSITS AS RECOMMENDED IN THE TRC REPORT. WHERE REQUIRED FOUNDING STRATA TO BE BROUGHT UP TO UNDERSIDE OF FOUNDATION IN THE FORM OF MASS CONCRETE FILL. ALTERNATIVELY MADE GROUND TO BE IMPROVED TO 150kN/m² VIA RAPID IMPACT COMPACTION (RIC) OR VIBRO STONE COLUMNS (VSC).
 - MADE GROUND BELOW WAREHOUSE SLAB TO BE IMPROVED TO MEET THE SLAB LOADING CRITERIA AS REFERENCED ON DRAWING S20. IMPROVEMENT TO BE CARRIED OUT IN THE FORM OF VIBRO STONE COLUMNS (VSC).
 - GROUND IMPROVEMENT DESIGNED BY A SPECIALIST GROUND IMPROVEMENT CONTRACTOR IN CONJUNCTION WITH THE SITE INVESTIGATION REPORTS. A REPORT OF THEIR PROPOSALS + TESTING REGIME TO BE PROVIDED FOR THE ENGINEER TO REVIEW.
 - GROUND IMPROVEMENT TO LIMIT SETTLEMENT TO 25mm AND DIFFERENTIAL SETTLEMENT TO 1 IN 500.
 - VALIDATION TESTING TO BE CARRIED OUT BY GROUND IMPROVEMENT CONTRACTOR IN THE FORM OF 800mm DIA PLATE TESTS LOADED TO 3 TIMES WORKING LOAD OR 11 TONNES, WHICHEVER IS GREATER. TESTS TO BE CARRIED OUT AT A RATE OF 1 PER 100 VIBRO STONE COLUMNS OR 1 PER RIG PER DAY, WHICHEVER IS GREATER.
 - A COMPLETION REPORT SHALL BE PROVIDED DETAILING THE GROUND IMPROVEMENT WORKS UNDERTAKEN INCLUDING ALL TEST RESULTS WITH ACCOMPANYING LOCATIONS, LEVELS & CONFIRMATION THAT THE SPECIFICATION HAS BEEN ACHIEVED.
 - WORKING PLATFORM FOR VIBRO STONE COLUMNS RIG TO TEMPORARY WORKS SPECIALIST DESIGN.
 - IN ADDITION TO SPECIFIED VIBRO STONE COLUMN GROUND TREATMENT, GROUND SLAB FORMATION TO ACHIEVE A MINIMUM K VALUE OF 0.04kN/m² PER mm AND VALIDATED VIA PLATE TESTING IN ACCORDANCE WITH SLAB PERFORMANCE SPECIFICATION.
 - SAND MAY BE USED FOR CLOSING THE SURFACE OF COARSER GRAINED MATERIALS BUT ANY RESIDUAL LAYERS OF SAND AT THE SURFACE SHOULD NOT BE MORE THAN 5mm THICK.

FOUNDATION NOTES:

- THE FOLLOWING TO BE READ IN CONJUNCTION WITH THE TRC GROUND INVESTIGATION REPORTS DATED DECEMBER 2023.
- CONCRETE GRADE DESIGNATED MIXES
 - ALL FOUNDATION CONCRETE (inc. BLINDING & MASS FILL) TO BE GRADE FND2 TO THE LATEST EDITIONS OF BS EN 206-1 & BS 8001-1 & 2. (DESIGN SULPHATE CLASS S2.2, AGGRESSIVE CHEMICAL ENVIRONMENT FOR CONCRETE CLASS AC-2).
 - TOP OF FOUNDATIONS ARE GENERALLY 450mm BELOW GROUND FLOOR SSL UNLESS NOTED OTHERWISE. TOP OF FOUNDATIONS MAY HAVE TO BE GREATER THAN 450mm BELOW GROUND TO SUIT LEVELS OR ADJACENT TO INCOMING SERVICES. FINAL RWP POSITIONS AND BELOW GROUND DRAINAGE RUNS.
 - ALL CONCRETE PAD FOUNDATIONS ARE TO BE SET OUT CENTRAL TO COLUMNS UNLESS DIMENSIONED OTHERWISE ON PLANS.
 - IF ROOTS ARE ENCOUNTERED FROM EXISTING TREES DURING CONSTRUCTION OF PAD FOUNDATIONS EXTEND DEPTH OF FOUNDATIONS AS ADVISED BY THE BUILDING CONTROL OFFICER.
 - ALL FORMATION LEVELS ARE TO BE INSPECTED BY THE BUILDING CONTROL INSPECTOR. ALLOW FOR REMOVAL OF LAST 150mm OF SOIL AT THE TIME OF INSPECTION. STRUCTURAL ENGINEER TO BE PROVIDED WITH 24 HOURS NOTICE WHEN FORMATIONS ARE READY FOR INSPECTION.
 - ENSURE THAT ALL EXCAVATIONS ARE KEPT FREE OF STANDING WATER DURING CONSTRUCTION. ALLOW SUMP AND PUMPING.
 - FOUNDATIONS ARE DESIGNED AS UNREINFORCED U.N.O. STEEL DESIGNER TO ADVISE OF ANY MESH REQUIREMENTS TO SUIT BASE PLATE HOLDING DOWN BOLTS DESIGNS ACCORDINGLY.
 - LENGTH OF 'SF' FOOTING TO MATCH STAIR WIDTH. REFER TO ARCHITECT'S DRAWING FOR STAIR WIDTH SIZE. 'SF' TOP TO BE 250mm BELOW SSL (TBC TO SUIT STAIR MANUFACTURERS DETAILS) WHERE 'SF' STAIR FOUNDATIONS ARE LOCATED WITHIN COLUMN PAD FOUNDATION ZONE. 'SF' FORMATION TO BEAR DIRECTLY ONTO FOUNDATION BASE.
 - ALL STEELWORK BELOW GROUND LEVEL TO HAVE MIN. 100mm CONCRETE SURROUND.
 - WHERE FOUNDATIONS CONSTRUCTED IN CLOSE PROXIMITY, INCREASE FOUNDATION THICKNESS TO MATCH LARGER FOUNDATION THICKNESS.
 - FOR GROUND WATER STRIKES REFER TO TRC GROUND INVESTIGATION REPORT.
 - UNEQUAL ANGLE OF PFC POSTS FOR SINGLE DOORS TO BE BUILT OFF RC SLAB / PFC EDGE BEAM OR 150x150x500p.p. MASS CONCRETE PAD FOUNDATION.
 - CONTRACTOR TO ALLOW FOR 450mm x 1000p.p. MASS CONCRETE STRIP FOOTINGS TO NEW SUBSTATION. SUBSTATION SLAB AND SUPERSTRUCTURE TO UTILITIES PROVIDERS DETAILS.
 - FOR TOTEM SIGN ALLOW 10m² OF MASS CONCRETE (SUBJECT TO FINAL DESIGN AND DETAILS).

TENDER RISKS:

- UXO - UXO RISK CONSIDERED LOW. UXO RISK MANAGEMENT PLAN AND SITE SPECIFIC UXO AWARENESS BRIEFING TO ALL PERSONNEL CONDUCTING INTRUSIVE WORK.
- EXISTING FOUNDATIONS / OBSTRUCTIONS SHOULD BE GRUBBED OUT PRIOR TO CONSTRUCTION.

LEGEND

- SITE BOUNDARY
- APPROXIMATE LINE OF GROUND FLOOR SLAB EDGE
- SLAB EDGE THICKENING
- LINE OF MEZZANINE FLOOR ABOVE
- 140 THK BLOCKWORK WALL
- GBS - GROUND BEARING SLAB REFER TO DRAWING S20 FOR DETAILS
- FFL - FINISHED FLOOR LEVEL
- SSL - STRUCTURAL SLAB LEVEL
- TOF - TOP OF FOUNDATION
- F# - PAD FOUNDATION. REFER TO SCHEDULE
- SF# - STRIP FOUNDATION. REFER TO SCHEDULE
- GB# - RC GROUND BEAM
- VB - VERTICAL BRACING
- MF - MOMENT FRAME
- TOF = SSL - 250 TBC
- TOF = SSL - 675 TBC
- TOF = SSL - 1200 TBC
- TOF = SSL - 1650 TBC

