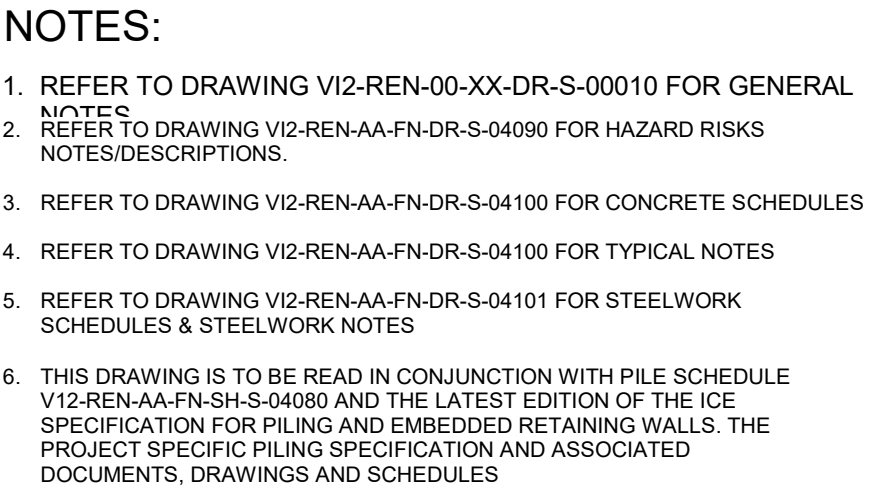




HEALTH AND SAFETY NOTES:
IN ADDITION TO THE HAZARDS AND RISKS NORMALLY ASSOCIATED WITH WORKS OF THIS NATURE, NOTE THE FOLLOWING ABNORMAL RISKS IDENTIFIED

- | | |
|---|---|
|  | EXISTING VIADUCT STRUCTURE MARKED FOR DEMOLITION WILL REMAIN IN SITU DURING PILING. ACCESSIBILITY TO BE ASSURED BY PILING CONTRACTOR. |
| 1 | |
|  | RISK OF STRIKING BURIED SERVICES AND REMNANT FOUNDATIONS DURING PILING AND EXCAVATION WORKS. PILE LOCATIONS TO BE SCANNED AND PROOT DUG TO CLEAR SERVICES AND OBSTRUCTIONS PRIOR TO WORKS |
| 2 | |
|  | TEMPORARY WORKS ARE REQUIRED IN ORDER TO FORM EXCAVATIONS AT GROUND FLOOR LEVEL BENEATH THE VIADUCT. REFER TO RENAISSANCE CONSTRUCTION METHODOLOGY DRAWING SERIES 90XXX FOR INDICATIVE CONSTRUCTION SEQUENCE AND TEMPORARY WORKS REQUIREMENTS |
| 3 | |
|  | VIBRATION AND MOVEMENT MONITORING REQUIRED DURING WORKS WITHIN ARCHES. REFER TO RENAISSANCE CONSTRUCTION METHODOLOGY DRAWING SERIES 90XXX FOR INDICATIVE CONSTRUCTION SEQUENCE |
| 4 | |
|  | GROUND CONDITIONS AND GEO-ENVIRONMENTAL ASSESSMENT TO BE DETERMINED BY SI PILING RISK ASSESSMENT TO BE PRODUCED AND SUBMITTED FOR COMMENT. SITE REMEDIATION STRATEGY REPORT TO BE FORWARDED FOR COMMENT. |
| 5 | |
|  | NOTE: PILING CONTRACTORS CONCRETE MIX DESIGN IS TO BE SUITABLE FOR ACEC CLASS AC-16 AND SULPHATE CLASS D5 IN ACCORDANCE WITH THE 600 SPECIAL DIGEST 1 'CONCRETE IN AGGRESSIVE GROUND, 2005' |
| 6 | |
|  | MAXIMUM PERMITTED SETTLEMENT OF EXISTING VIADUCT TO CONTROL CRACKING THROUGH GRADE IN VIADUCT DIFFERENTIAL SETTLEMENT BETWEEN PILES TO BE LIMITED TO 9mm ($\Delta d \leq 1/1000$) |
| 7 | |
|  | DEEP REBAR CAGES REQUIRED FOR PILED RAFT FOUNDATIONS. ANY ADDITIONAL REBAR REQUIRED FOR TEMPORARY SUPPORT OF REINFORCEMENT CAGE UPPER LAYERS, INCLUDING VERTICAL SUPPORT AND BRACING COT FOR STABILITY TO BE DESIGNED AND DETAILED BY RC FRAME CONTRACTOR |
| 8 | |
|  | LARGE AND HEAVY REBAR CAGES ARE REQUIRED. RC FRAME CONTRACTOR TO CONSIDER TEMPORARY STRUCTURE OF CAGES IN CONSTRUCTION SEQUENCE AND PROVIDE APPROPRIATE TEMPORARY SUPPORT WORKS AND/OR METHODS OR PROTECT REBAR CAGES FROM ACCIDENTAL IMPACTS FROM SITE PLANT |
| 9 | |
|  | TEMPORARY WORKS DESIGN REQUIRED FOR RESTRAINT OF TEMPORARY FOR DESIGN CONCRETE POURS. TEMPORARY WORKS DESIGN TO RC FRAME CONTRACTORS DESIGN AND DETAIL |

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90 NO. PILES OF Ø600 DIA REQUIRED, OF WHICH 69 ARE CONTIGUOUS PILES.
PILE LENGTH IS TO BE CONFIRMED BY PILING CONTRACTOR.

PILE DESIGN IS BASED ON SWL OF 4,200 kN (VERTICAL) AND 300kN (COMBINED SHEAR) OF PILES BASED ON INITIAL DISCUSSIONS WITH THE PILING CONTRACTOR OF PHASE I OF THE DEVELOPMENT.

CONTIGUOUS PILE DESIGN IS BASED ON AN ASSUMED SWL OF 3,000kN (VERTICAL) AND 300kN (COMBINED SHEAR) OF PILES, TO BE CONFIRMED BY PILING CONTRACTOR.

ALL STRUCTURAL SIZES ARE INDICATIVE TO ALLOW FOR SPATIAL CO-ORDINATION (RIBA STAGE 3) AND OUTLINE COSTING BY THE PROJECT QUANTITY SURVEYOR AND CONTRACTOR. ALL STRUCTURAL SIZES AND REINFORCEMENT RATES ARE INDICATIVE AT THIS STAGE AND ARE SUBJECT TO CONFIRMATION AND ALTERATION AS THE STAGE 4 (TECHNICAL DESIGN) IS COMPLETED.

A DESIGN CONTINGENCY OF 10-15% IS RECOMMENDED TO ALLOW FOR DESIGN DEVELOPMENT DURING RIBA STAGE 4 (TECHNICAL DESIGN) AND INPUT CONTRACTOR DESIGNED PACKAGES.



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Project

Drawing Title

Status:

Size:	Date:	Drawn By:	Designed By:	Checked By:
A1	19.10.21	NC	RW	KG

Scale: 1 : 100	Project No: 2102-09
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Project Code: Originator: Volume: Level: Type: Role: Category / Number: Rev:

VI2 - REN - AA - FN - DR - S - 04090 - P03

Model: NameXXXXX-REN-ZZ-XX-M3-S-00001