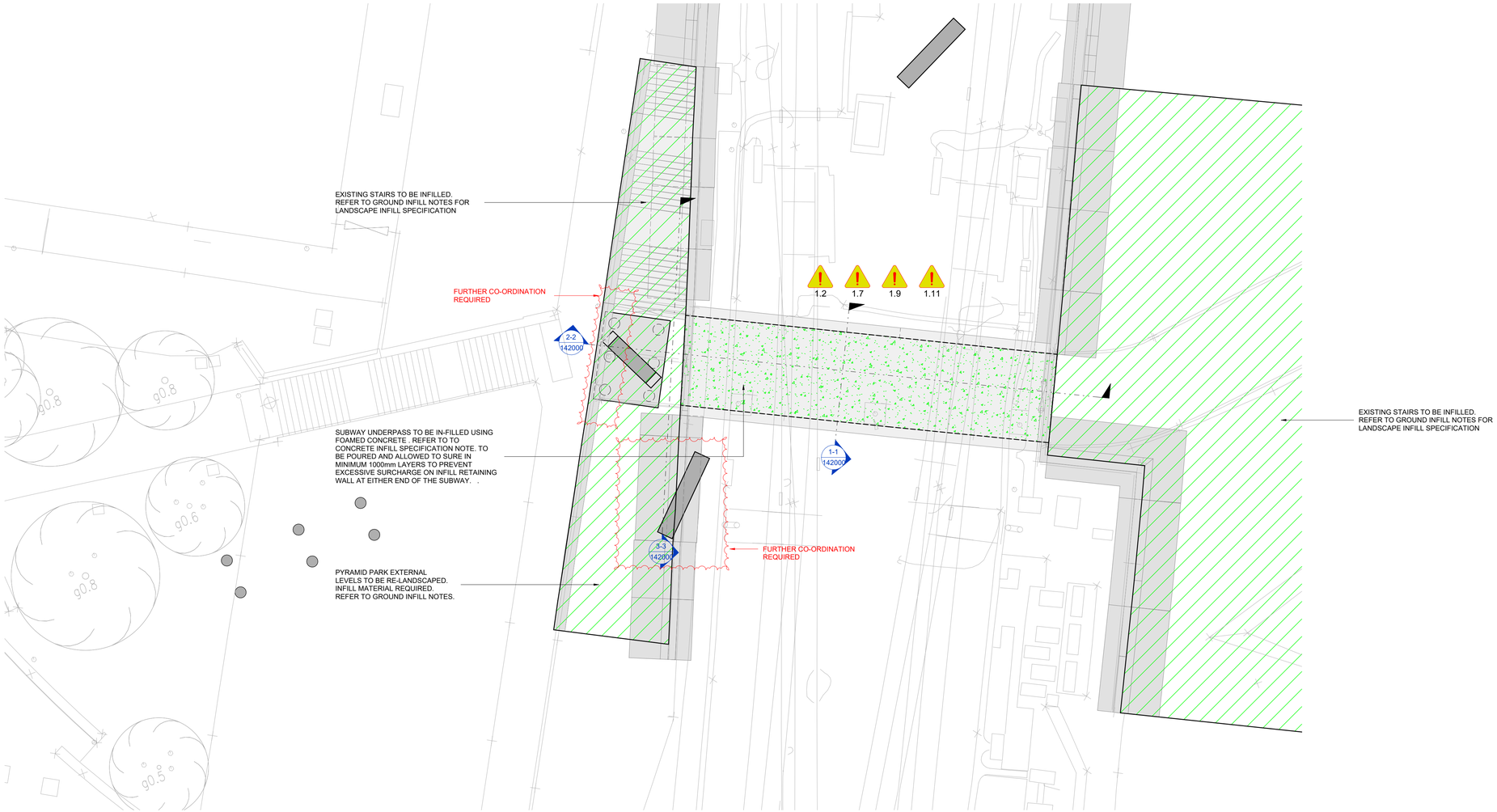


UNDERPASS PLAN

SCALE: 1 : 100

HEALTH AND SAFETY NOTES:

IN ADDITION TO THE HAZARDS AND RISKS NORMALLY ASSOCIATED WITH WORKS OF THIS NATURE, NOTE THE FOLLOWING ABNORMAL RISKS IDENTIFIED.

1.2 **RISK OF WORKING IN CLOSE PROXIMITY TO NETWORK RAIL.** CLIENT TO ENGAGE WITH METROLINK TO OBTAIN EXISTING SERVICES RECORD TO INFORM DESIGN CONSTRAINTS. MAIN CONTRACTOR TO COORDINATE ADDITIONAL INTRUSIVE SURVEYS ACCORDINGLY.

1.3 **RISK OF FLOODING UNDERPASS STRUCTURE.** MAIN CONTRACTOR TO ALLOW FOR FURTHER MEASURED SURVEY WORKS TO BE UNDERTAKEN TO MAP OUT THE EXTENT OF THE BURIED SPACE. MAIN CONTRACTOR TO ALLOW FOR DRAINGE SUVREY TO CONFIRM ARRANGEMNT AND EXTENT OF DRAINGE NETWORK. MAIN CONTRACTOR TO ENSURE ADEQUATE DEWATERING MEASURES ARE IN PLACE.

1.7 **RISK OF FLOODING UNDERPASS STRUCTURE. MAIN CONTRACTOR TO ALLOW FOR FURTHER MEASURED SURVEY WORKS TO BE UNDERTAKEN TO MAP OUT THE EXTENT OF THE BURIED SPACE.** MAIN CONTRACTOR TO ALLOW FOR DRAINGE SUVREY TO CONFIRM ARRANGEMNT AND EXTENT OF DRAINGE NETWORK. MAIN CONTRACTOR TO ENSURE ADEQUATE DEWATERING MEASURES ARE IN PLACE.

1.9 **RISK OF WORKING IN CLOSE PROXIMITY TO METROLINK INFRASTRUCTURE.** CLIENT TO ALLOW FOR COST AND TIME IN THE PROGRAMME FOR ELECTRICAL ISOLATION. MAIN CONTRACTOR TO ALLOW IN THE PROGRAMME FOR ANY ENGAGEMENT WITH THE METROLINK ASSOCIATED WITH ANY APPROVALS FOR THE PROPOSED SEQUENCE AND CONSTRUCTION OF THE DEVELOPMENT. MAIN CONTRACTOR TO SUBMIT/ APPLY FOR THE RELEVANT PERMITS TO FACILITATE THEIR INTENDED CONSTRUCTION METHODOLOGY. MAIN CONTRACTOR TO REFER TO "WORKING SAFELY NEAR METROLINK" DOCUMENTS AND ADOPT SAFETY MEASURE ACCORDINGLY.

1.11 **RISK OF WORKING DIRECTLY NEXT TO LIVE METROLINK LINES.** CLIENT TO ALLOW FOR COST AND TIME IN THE PROGRAMME FOR ELECTRICAL ISOLATION. MAIN CONTRACTOR TO ALLOW IN THE PROGRAMME FOR ANY ENGAGEMENT WITH THE METROLINK ASSOCIATED WITH ANY APPROVALS FOR THE PROPOSED SEQUENCE AND CONSTRUCTION OF THE DEVELOPMENT. MAIN CONTRACTOR TO SUBMIT/ APPLY FOR THE RELEVANT PERMITS TO FACILITATE THEIR INTENDED CONSTRUCTION METHODOLOGY. MAIN CONTRACTOR TO REFER TO "WORKING SAFELY NEAR METROLINK" DOCUMENTS AND ADOPT SAFETY WORKING MEASURES ACCORDINGLY.

1.12 **RISK OF CONSTRUCTION SITE PERSONNEL COMING INTO CONTACT WITH CONTAMINATED GROUND / GROUND GASES.** MAIN CONTRACTOR IS TO REFER TO PHASE I SITE INVESTIGATION REPORT. CLIENT TO COMMISSION DETAILED PHASE II REPORT AT STAGE 3. MAIN CONTRACTOR IS TO ENSURE THAT ALL SITE REMEDIATION WORKS ARE CONDUCTED ACCORDING TO THE GROUND REMEDIATION STRATEGY.

NOTES:

1. REFER TO DRAWING 16012-REN-XXX-XXX-D-SE-000010 FOR GENERAL NOTES.

KEY

FOAMED CONCRETE INFILL NOTE:
ALLOWANCE FOR SUBWAY TO BE INFILLED WITH HIGH DENSITY FOAMED CONCRETE, MINIMUM DENSITY 1200kg/m³. FINAL DESIGN AND SPECIFICATION OF FOAMED CONCRETE TO BE CONFIRMED BY SPECIALIST. INSTALLATION OF FOAMED CONCRETE

GROUND INFILL NOTES:
PROPOSED FILL MATERIALS
SUBMIT FULL DETAILS OF PROPOSED FILL MATERIALS TO DEMONSTRATE COMPLIANCE WITH SPECIFICATION AND REMEDIAL STRATEGY REPORT, INCLUDING:
- TYPE AND SOURCE OF IMPORTED FILL.
- PROPOSALS FOR PROCESSING AND REUSE OF MATERIAL EXCAVATED ON SITE.
- TEST REPORTS AS REQUIRED ELSEWHERE.

HAZARDOUS, AGGRESSIVE OR UNSTABLE MATERIALS
GENERAL: DO NOT USE FILL MATERIALS WHICH WOULD, EITHER IN THEMSELVES OR IN COMBINATION WITH OTHER MATERIALS OR GROUND WATER, GIVE RISE TO A HEALTH HAZARD, DAMAGE TO BUILDING STRUCTURES OR INSTABILITY IN THE FILLING, INCLUDING MATERIAL THAT IS:
- FROZEN OR CONTAINING ICE.
- ORGANIC.
- CONTAMINATED OR NOXIOUS.
- SUSCEPTIBLE TO SPONTANEOUS COMBUSTION.
- LIKELY TO ERODE OR DECAY AND CAUSE VOIDS.
- WITH EXCESSIVE MOISTURE CONTENT, SLURRY, MUD OR FROM MARSHES OR BOGS.
- CLAY OF LIQUID LIMIT EXCEEDING 80 AND/OR PLASTICITY INDEX EXCEEDING 55.
- UNACCEPTABLE, CLASS U2 AS DEFINED IN THE HIGHWAYS AGENCY 'SPECIFICATION FOR HIGHWAY WORKS', CLAUSE 601.

FROST SUSCEPTIBILITY
EXCEPT AS ALLOWED BELOW, FILL MUST BE NON-FROST-SUSCEPTIBLE AS DEFINED IN HIGHWAYS AGENCY 'SPECIFICATION FOR HIGHWAY WORKS', CLAUSE 801.8.
- FROST-SUSCEPTIBLE FILL: MAY ONLY BE USED AT DEPTHS BELOW THE FINISHED GROUND SURFACE GREATER THAN: 450 MM.

COMPACTED FILLING FOR LANDSCAPE AREAS
- FILL: MATERIALS, CAPABLE OF COMPACTION BY LIGHT EARTHMOVING PLANT.
- FILLING: LAYERS NOT MORE THAN 200 MM THICK. LIGHTLY COMPACT EACH LAYER TO PRODUCE A STABLE SOIL STRUCTURE.

PLACING FILL
- SURFACES OF EXCAVATIONS AND AREAS TO BE FILLED: FREE FROM LOOSE SOIL, TOPSOIL, ORGANIC MATERIAL, RUBBISH AND STANDING WATER.
- FREEZING CONDITIONS: DO NOT PLACE FILL ON FROZEN SURFACES. REMOVE MATERIAL AFFECTED BY FROST.
- REPLACE AND RECOMPACT IF NOT DAMAGED AFTER THAWING.
- ADJACENT STRUCTURES, MEMBRANES AND BURIED SERVICES:
- DO NOT OVERLOAD, DESTABILISE OR DAMAGE.
- SUBMIT PROPOSALS FOR TEMPORARY SUPPORT NECESSARY TO ENSURE STABILITY DURING FILLING.
- ALLOW 14 DAYS (MINIMUM) BEFORE BACKFILLING AGAINST IN SITU CONCRETE STRUCTURES.
- LAYERS: PLACE SO THAT ONLY ONE TYPE OF MATERIAL OCCURS IN EACH LAYER.
- EARTHMOVING EQUIPMENT: VARY ROUTE TO AVOID RUTTING.

STAGE 3B

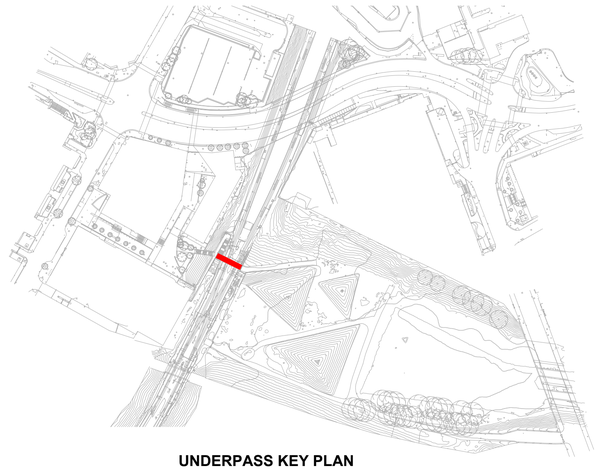
THESE DRAWINGS ARE INTENDED TO COMMUNICATE THE INITIAL CONCEPT FOR THE PROPOSED BUILDINGS AND ARE APPROPRIATE FOR RIBA STAGE 3a- (CONCEPT).

DUE TO CLIENTS PROGRAMME THESE PROPOSALS HAVE BEEN PRODUCED WITH LIMITED INPUT FROM THE WIDER DESIGN TEAM AND ARE BASED ON WORK IN PROGRESS ARCHITECTURAL PLANS AND PLANNING DRAWINGS.

ALL STRUCTURAL SIZES ARE INDICATIVE ONLY AND TO ASSIST WITH HIGH LEVEL COSTING BY THE PROJECT QUANTITY SURVEYOR AND CONTRACTOR.

ALL STRUCTURAL SIZES AND REINFORCEMENT RATES ARE INDICATIVE AT THIS STAGE AND ARE SUBJECT TO CHANGE AS THE DESIGN DEVELOPS THROUGH RIBA STAGES 3a (CONCEPT DESIGN, STAGE 3 (SPATIAL CO-ORDINATION) AND STAGE 4 (TECHNICAL DESIGN).

A DESIGN CONTINGENCY OF 15-20% IS RECOMMENDED TO ALLOW FOR DESIGN DEVELOPMENT DURING RIBA STAGE 3a, 3 AND STAGE 4 (TECHNICAL DESIGN) AND TO REFLECT INPUT FROM CONTRACTOR DESIGNED PACKAGES.



UNDERPASS KEY PLAN

Rev:	Description:	Date:	By:	Chkd:
P03	STAGE 3B UPDATE	28.02.25	AMi	AI
P02	STAGE 3B ISSUE	20.01.25	BH	AI
P01	STAGE 3A ISSUE	23.12.24	BH	BH

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Manchester
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Project:
BURY INTERCHANGE

Drawing Title:
UNDERPASS INFILL PLAN

Status:
STAGE 3B

Size:	Date:	Drawn By:	Designed By:	Checked By:
A1	DEC 24	AMi	-	SH

Scale: As indicated | Project No: 2401-09

Project Code: Originator: Volume: Level: Type: Role: Number: Rev:

16012-REN - BRY-GRF- D- SE-141110 - P03

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