Risk Register Reference	Hazard Description	Hazard Colour	Severity	Risk Rating	Risk Active at Approval	Risk Active at Construction
		Red - Major (Seek Advice)				
		Amber - Review Risk Assessment	(1-5)	(1-5)	(Y/N)	(Y/N)
		Green - Caution				

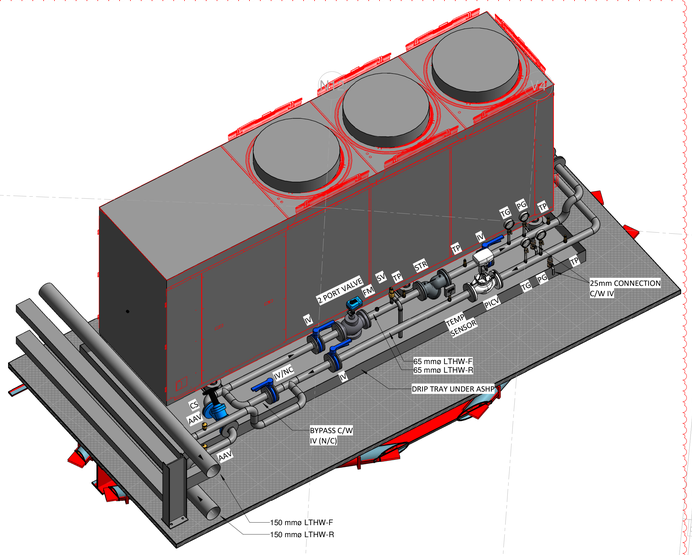
SCALE	LEVEL OF RISK
VH	EXCEPTIONAL
HIGH	ABOVE MODERATE
MODERATE	TYPICAL OR NORMAL
LOW	BELOW MODERATE
VERY LOW	WELL BELOW MODERATE

SCALE	CONSEQUENCE
VH	CATASTROPHIC
HIGH	SEVERE
MODERATE	SERIOUS
LOW	MARGINAL
VERY LOW	MINOR

SCALE	LIKELIHOOD
VH	VERY PROBABLE
HIGH	PROBABLE OR FREQUENT
MODERATE	POSSIBLE
LOW	UNLIKE OR REMOTE
VERY LOW	REMOTE

THIS RISK BOX IS FOR **GUIDANCE ONLY**. THE CONTENT HAS BEEN PRODUCED BY THE SES TEAM.
IT IS IMPERATIVE THAT THE READER OF THIS DOCUMENT REVIEWS ALL **RAMS / RISK ASSESSMENTS / TECHNICAL DOCUMENTATION & METHOD STATEMENTS** BEFORE PROCEEDING

001	Working At Height To Install Services	AMBER	3	1	N	N
002	Slip, Trip & Falls	AMBER	2	1	N	N
003	Mechanical Isolations	AMBER	2	1	N	N
004	Electrical Isolations	AMBER	4	1	N	N



2 TYPICAL AIR SOURCE HEAT PUMP CONNECTION DETAIL

1 L03-M-Plant Level Mezzanine Heating & Cooling - Zone 2

1 : 50

HEATING & COOLING PIPEWORK NOTES

1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT STRUCTURAL, ARCHITECTURAL & CONSULTANTS DRAWINGS.
2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE SERVICES SPECIFICATION & ASSOCIATED EQUIPMENT SCHEDULES.
3. DO NOT SCALE FROM THIS DRAWING, ALL DIMENSIONS TO BE VERIFIED ON SITE.
4. THIS DRAWING SHALL ONLY BE USED FOR THE SPECIFIC SERVICES INDICATED.
5. DRAWING SHOWS MAIN HORIZONTAL AND VERTICAL HEATING & COOLING SERVICES PIPEWORK.
6. ALL PENETRATIONS THROUGH FIRE COMPARTMENTS SHALL BE SEALED WITH AN APPROPRIATE SEAL.

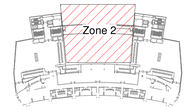
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DO NOT SCALE OFF THIS DRAWING

DRAWING STAGE DEFINITIONS (BSRIA BG6/2014)

STAGE 2	CONCEPT
STAGE 3B	DEVELOPED DESIGN
STAGE 4A	TECHNICAL DESIGN
STAGE 4B	COORDINATED WORKING
STAGE 5	INSTALLATION DRAWING/RECORD

For full definitions refer to BSRIA BG6/2014 Table 1



KEY PLAN

CLIENT DIRECT FIT OUT - WHITEBOX AREAS

DRAWING REFERENCES
THIS DRAWING HAS BEEN BASED ON INFORMATION TAKEN FROM THE FOLLOWING

POPULOUS
NSE-POP-NS-ZZ-M3-A-001000
NSE-POP-NS-ZZ-ZZ-A-002000
NSE-POP-NS-ZZ-M3-A-006000

BURO HAPPOLD STRUCTURE
NSE-BHE-NS-ZZ-M3-S-001000

WILLIAM HARE STRUCTURE
NSE-WHL-NS-XX-MR-X-000001

BANAGHER TERRACE
NSE-BPC-NS-ZZ-M3-X-001000

FK FACADE
NSE-FKG-NS-ZZ-M3-X-000001

ALL INVERT LEVELS ARE TAKEN FROM LEVEL

LEVEL 00 MAIN CONCOURSE = 60650
LEVEL 01 CLUB LEVEL = 65450
LEVEL 02 UPPER CONCOURSE = 70130
LEVEL 03 PLANT LEVEL = 77650
LEVEL 03M PLANT LEVEL MEZZANINE = 82175
LEVEL 04 SUITE LEVEL = 89650
LEVEL 05 SKY BAR = 93150
ROOF LEVEL = 98100

HEATING & COOLING PIPEWORK ABBREVIATIONS

LTHW-R - LOW TEMPERATURE HOT WATER RETURN
LTHW-F - LOW TEMPERATURE HOT WATER FLOW
IV - ISOLATION VALVE
TBV - THERMOSTATIC BALANCING VALVE
STR - STRAINER
DCV - DOUBLE CHECK VALVE
WM - WATER METER
PRV - PRESSURE REDUCING VALVE
SOV - SOLENOID VALVE
SV - SAFETY VALVE
MV - MOTORISED VALVE
DOC - DRAIN OFF COCK
TMV - THERMOSTATIC MIXING VALVE
DRV - DOUBLE REGULATING VALVE
RPZ - BACK FLOW PREVENTION VALVE
OP - ORIFICE PLATE
FA - FROM ABOVE
TB - TO BELOW
FB - FROM BELOW
TA - TO ABOVE
HL - HIGH LEVEL
LL - LOW LEVEL

LEVELS OF SERVICES ARE TAKEN AS FOLLOWS

BOC: ---- = BOTTOM OF CONTAINMENT
BOD: ---- = BOTTOM OF DUCT
BOZ: ---- = BOTTOM OF ZONE
CL: ---- = CENTRE OF PIPE / DUCT
U/S: ---- = UNDERSIDE OF EQUIPMENT
COH: ---- = CENTRE OF HOLE
BOH: ---- = BOTTOM OF HOLE

Rev	Drn	Ckd	Date	Description
C02	AR	AW	21.01.25	Pipework Routing Amended, ASHP Valve Arrangement Amended, Typical Detail Amended
C01	QM	AW	29.11.24	Issued for Construction

Scale: 1 : 50
Original Size: A0

Status: A5 - FOR AUTHORISATION AS STAGE COMPLETE

Client

Project: MCFC

Title: NORTH STAND HEATING & COOLING LAYOUT LEVEL 03M ZONE 2

Drawing No.: NSE-SEE-NS-M3-DR-M-553422
Revision: C02

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