

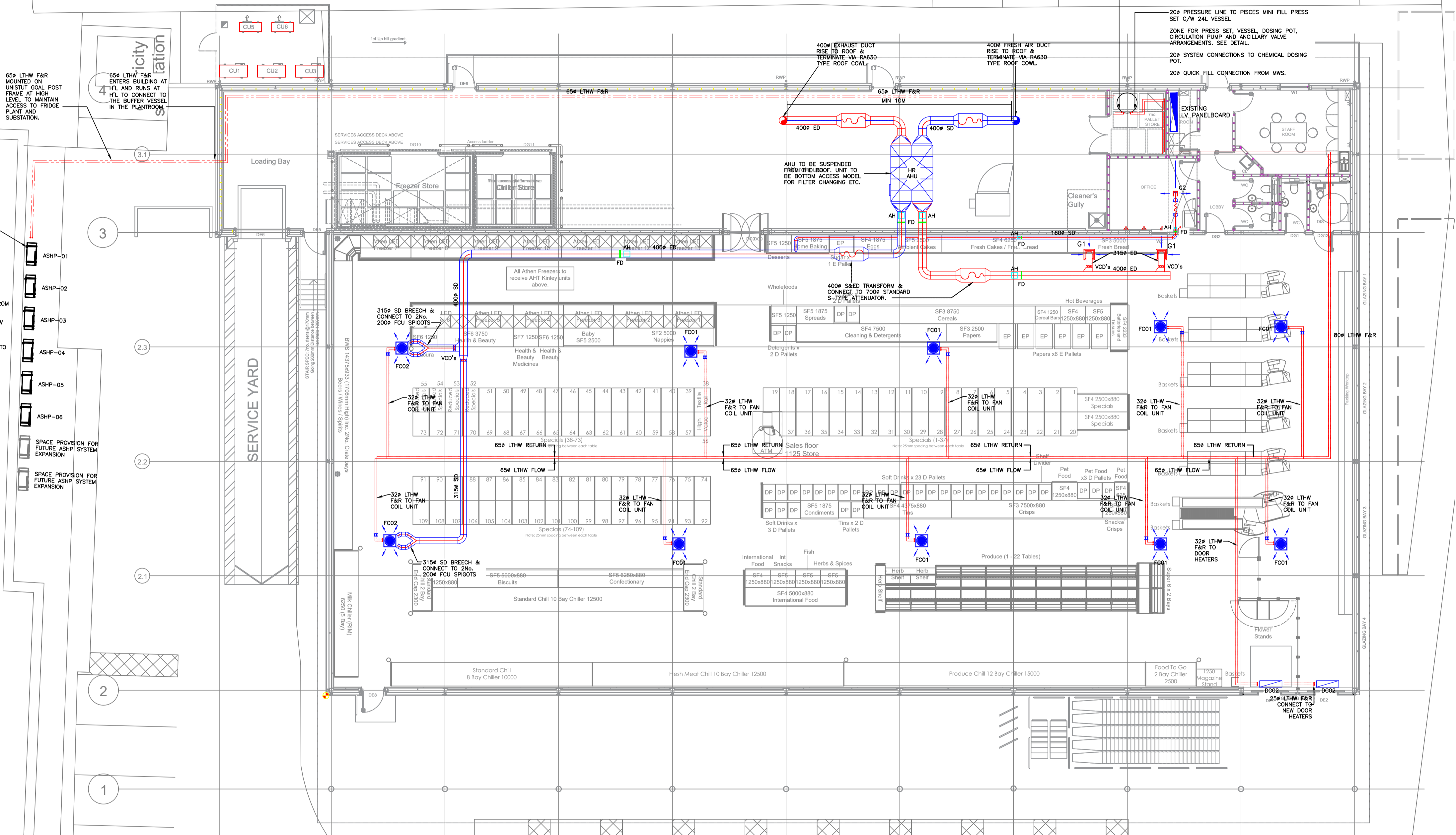
REV	DATE	DESCRIPTION	DRW	CHK
P01	27/09/2023	TENDER ISSUE FIRST ISSUE	AC	CS

GENERAL NOTES:

- THE DRAWINGS MUST BE READ IN CONJUNCTION WITH THE PROJECT SPECIFIC M&E SPECIFICATIONS AND ALL OTHER ASSOCIATED PROJECT SPECIFIC TENDER DOCUMENTATION INCLUDING THE FOLLOWING AS A MINIMUM:
 - HENDERSON WARNOCK DESIGN DRAWINGS, INCLUDING: VENTILATION, HEATING, DWS, SMALL POWER, ACCESS CONTROL & INTRUDER, LIGHTING LAYOUTS, ARCHITECTURAL & STRUCTURAL LAYOUTS, ELEVATIONS AND SECTIONS.
 - MECHANICAL AND ELECTRICAL BUILDING SERVICES SPECIFICATIONS.
 - ALDI STANDARD MECHANICAL & ELECTRICAL SPECIFICATIONS & BIW NOTIFICATIONS.
 - ALDI/BMT NATION WIDE STANDARD DESIGN DRAWINGS.
- THE TENDER DRAWINGS HAVE BEEN PRODUCED TO DETAIL DESIGN INTENT PURPOSES ONLY AND ARE NOT TO BE USED AS A WORKING DRAWING.
- THE SERVICES CONTRACTORS SHALL FULLY LIAISE WITH ALL OTHER CONTRACTORS TO ENSURE ADEQUATE PERMANENT FLOOR, WALL AND CEILING ACCESS PANELS FOR THE BUILDING SERVICES ARE FULLY DETAILED ON THE WORKING DRAWINGS, CO-ORDINATED AND INSTALLED.
- REFER TO THE ALDI STANDARD SPECIFICATION FOR MOUNTING HEIGHT DETAILS.
- THE SERVICES CONTRACTORS SHALL FULLY CO-ORDINATE THE MECHANICAL, ELECTRICAL AND PUBLIC HEALTH DRAWINGS WITH ALL OTHER CONTRACTORS, SPECIALISTS & TRADES.
- THE CONTRACTOR SHALL ENSURE DUE PROVISION SHALL BE MADE FOR THE CONTROL OF EXPANSION & CONTRACTION. THE CONTRACTOR SHALL INCORPORATE ADEQUATE PROVISION FOR EXPANSION AND CONTRACTION IN ACCORDANCE WITH SPECIALIST ADVICE.
- ALL SERVICES PASSING THROUGH FIRE & SMOKE BARRIERS/WALLS SHALL BE SUITABLY FIRE STOPPED TO THE SAME STANDARD AS THE BARRIER/WALL BEING PENETRATED. PLEASE REFER TO ARCHITECT DRAWINGS FOR FIRE ZONE DATA.
- THE MECHANICAL SUB CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE SUPPLY, INSTALLATION & TESTING OF ALL CONTROL WIRING & ANCILLARY ITEMS. ELECTRICAL POWER WIRING SHALL BE BY OTHERS.
- THE CONTRACTOR SHALL SUBMIT WORK METHOD STATEMENTS FOR COMMENT AND APPROVAL. FOR EACH ACTIVITY IN THE WORK METHOD STATEMENTS, THE RISKS SHALL BE IDENTIFIED AND CONTROL MEASURES DEVELOPED. THE WORK METHODS, ACTIVITIES, IDENTIFIED RISKS AND CONTROL MEASURES SHALL BE PRESENTED TO IN A TABLE FORMAT FOR EASY EXAMINATION BY THE CLIENT AND/OR SERVICES ENGINEER.
- THE CONTRACTOR SHALL ENSURE THEY ARE IN POSSESSION OF AND TAKE DUE COGNISANCE OF ALL INCOMING SERVICES PRIOR TO UNDERTAKING THE WORKS.
- ALL WORKS ARE TO BE CARRIED OUT IN A SAFE MANNER AND BE IN ACCORDANCE WITH THE RELEVANT STANDARDS AND THEIR AMENDMENTS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 - A) CIBSE GUIDES FOR INSTALLATION AND COMMISSIONING
 - B) BS AND EN STANDARDS
 - C) THE SCOTTISH BUILDING REGULATIONS
 - D) ALDI STANDARD DRAWINGS & SPECIFICATIONS.
- ANY WORKS CARRIED OUT SHALL NOT BE LEFT IN AN UNSAFE AND UNPROTECTED STATE, PUT LIVES OF STAFF AT RISK OR CAUSE DISRUPTION.
- CONTRACTOR TO INVESTIGATE SITE TO CONFIRM VIABILITY OF PROPOSED ASHP, BUFFER VESSEL AND POWER SUPPLY LOCATIONS SUITABILITY.
- CONTRACTOR TO IDENTIFY SUITABLE LOCATIONS TO BREAK INTO EXISTING PIPEWORK.
- CONTRACTOR TO ALLOW FOR CONNECTION OF THE ASHPs VIA THE VAILLANT SENSO COMFORT/VRC 700 SYSTEM CONFIGURATION. THE SENSOR COMFORT/VRC 700 CONTROLS SHALL CONNECT TO THE EXISTING CAREL CONTROLS PANEL VIA A MODBUS GATEWAY.
- THE CONTRACTOR SHALL ALLOW FOR ALL NECESSARY INTERFACES REQUIRED TO CONNECT THE ASHPs TO THE CAREL PANEL.
- THE CONTRACTOR SHALL ALLOW FOR EXTENDING THE CAREL PANEL TO INTEGRATE THE ASHPs.
- THE CONTRACTOR SHALL ALLOW FOR UPDATING ALL GRAPHICS REQUIRED TO INTEGRATE THE ASHPs INTO THE EXISTING CAREL PANEL.

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- 6No. ASHP's EACH SUPPLIED WITH THE FOLLOWING:
- 32A IP65 RATED SPAN ISOLATOR FROM DB 'B'
 - MCB RATING: 32A
 - SP/TD/RCD: SP 'MCB'
 - BREAKER TYPE: C
 - CABLE SIZE: 10mm²
 - CABLE TYPE: XLPE/SMA/LSF
 - FINAL POSITION TO BE COORDINATED ON SITE.
 - ALLOWANCE TO BE MADE FOR ADDITIONAL CONTAMINATION TO EXTEND FROM EXISTING INSTALLATION TO SUPPORT NEW CABLING REACHING ASHP'S.
 - ALLOWANCE TO BE MADE FOR NEW BUILDERSWORKS SECTIONS TO ALLOW FOR NEW CABLING/CONTAMINATION TO REACH ASHP'S.
 - CONDENSERS TO BE MOUNTED ON CONDENSATE TRAY GRADED TO COLLECT CONDENSATE. PIPED TO ADJACENT MANHOLE. TRAY AND PIPE TO BE TRACE HEATED TO PREVENT FREEZING.

MECHANICAL LEGEND

F&R	FLOW AND RETURN
H'L	HIGH LEVEL
IV	ISOLATION VALVE
	FLOW PIPEWORK
	RETURN PIPEWORK
	EXISTING SERVICES

SAFETY, HEALTH & ENVIRONMENTAL (SHE) INFORMATION - KEY RESIDUAL DESIGN RISKS

Risk-1:
 THERE ARE NO IDENTIFIED RESIDUAL RISKS ASSOCIATED WITH THE RISKS DETAILED ON THIS DRAWING OVER AND ABOVE THOSE EXPECTED BY A COMPETENT & QUALIFIED CONTRACTOR.

The above are the Key residual risks that have been identified by the designers. The full list of risks identified is contained within the site H&S File - copies available in the site office for further reference

Client
Aldi Stores Ltd.

Project title
Aldi - FM WORKS

Project Address
**EAST ROAD IRVINE
IRVINE**



Drawing title
**MECHANICAL SERVICES
PROPOSED ASHP & VENTILATION**

Job No.	Originator	Zone	Level	Type	Role
79-E0549 HSW	XX	XX	XX	DR	M
System Classification	Drawing No.	Subclass	Revision		
SS_60_40_33 -0001	S01	P01			
Drawn	Checked	Date	Scale	Size	
AC	CS	SEPT23	1:100	A1	



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