

EQUIPMENT	TAG	(REFER	TO	SCHEE	DULE

(ID-#

- QUANTIT

LENGTH (mm)

CAPACITY (kW)

RADIATION HEATING TAG (REFER TO SCHEDULE)

RELATIVE PRESSURIZATION BASED ON CSA Z317.2 REQUIREMENTS

	MECHANICAL SHEET LIST
Sheet Number	Sheet Name
M001	MECHANICAL SYMBOL LEGEND AND GENERAL NOTES
M100	LEVEL 0 - HVAC ENVIRONMENTAL CONTROLS
M101	LEVEL 0 - HVAC - DEMO
M102	LEVEL 0 - HVAC - OVERVIEW
M103	LEVEL 0 - HVAC - NEW
M104	LEVEL 0 - HYDRONIC - NEW
M105	LEVEL 1 - HVAC - NEW
M106	LEVEL 2, LEVEL 3, & UPPER ROOF - HVAC - NEW
M200	LEVEL 0 - PLUMBING OVERVIEW
M201	LEVEL 0 - SANITARY PLUMBING - DEMO & NEW
M202	LEVEL 0 - PLUMBING - DEMO & NEW
M300	LEVEL 0 - FIRE PROTECTION PLAN
M400	MECHANICAL SCHEMATICS
M401	MECHANICAL SCHEMATICS
M500	MECHANICAL SCHEDULES
M501	MECHANICAL SCHEDULES

NOTE: NOT ALL SYMBOLS, SYSTEMS, AND ABBREVIATIONS MAY BE USED ON THIS PROJECT

ORIGINAL SHEET - ARCH D

PIPING SYSTEMS (HVAC)

REAL OBJECT	SYMBOL	FIFING STSTENIS (HVAC
BBD		BOILER BLOWDOWN
BFW-		BOILER FEED WATER
ĸxxxxxxBR		BRINE RETURN
BS		BRINE SUPPLY
CHWR-		CHILLED WATER RETURN
CHWR(G)-		CHILLED WATER RETURN - GLYCOL
CHWR(P)		CHILLED WATER RETURN - PROCESS
CHWS-		CHILLED WATER SUPPLY
CHWS(G)		CHILLED WATER SUPPLY - GLYCOL
CHWS(P)		CHILLED WATER SUPPLY - PROCESS
CWR		CONDENSER WATER RETURN
CWR(CT)		CONDENSER WATER RETURN (COOLING TOWER)
CWS-		CONDENSER WATER SUPPLY
CWS(CT)		CONDENSER WATER SUPPLY (COOLING TOWER)
DTR		DUAL TEMPERATURE RETURN (HOT OR CHILLED)
DTS		DUAL TEMPERATURE SUPPLY (HOT OR CHILLED)
HPWR		HEAT PUMP WATER RETURN
HPWS		HEAT PUMP WATER SUPPLY
HRR		HEAT RECOVERY LOOP RETURN
HRS		HEAT RECOVERY LOOP SUPPLY
HWR-		HEATING WATER RETURN
HWR(G)		HEATING WATER RETURN - GLYCOL
HWS-		HEATING WATER SUPPLY
HWS(G)		HEATING WATER SUPPLY - GLYCOL
REF(HG)		REFRIGERANT HOT GAS
REF(L)		REFRIGERANT LIQUID
REF(S)		REFRIGERANT SUCTION
REF(V)-		REFRIGERANT VENT
~~~~RV—		RELIEF VENT
S(##)		STEAM (NOMINAL PRESSURE IN KPA)
CS(##)		STEAM - CLEAN (NOMINAL PRESSURE IN KPA)
C(##)		STEAM CONDENSATE (NOMINAL PRESSURE IN KPA)
H(##)		STEAM HUMIDIFICATION (NOMINAL PRESSURE IN KPA)
PC(##)		STEAM PUMPED CONDENSATE (NOMINAL PRESSURE IN KPA)
<u></u> SV—		STEAM VENT

### **GENERAL SYN**

<del>4</del> / <del>4/</del> / <del>//</del> /	- DEMOL
	EXISTIN
	EXISTIN
	- NEW W
	DETAIL
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M##

	NEW WORK
(1) (M###)	DETAIL CALLOUTS
## 	SECTIONS
	- SHEET ON WHICH SECTION IS SHOWN
N	NORTH ARROW
1	DRAWING REVISION
<b>—••</b> —	MATCH LINE
<u> </u>	GRAPHIC SCALES
EL. 10000	ELEVATION
ELEVATION TOP OF	DATUM ELEVATION
#### name	SPACE TAG
(###)	DEMOLITION KEYNOTE
###	KEYNOTE
X.XX%	SLOPE ARROW
	CIRCULAR BREAK SYME
¢	CENTER LINE
×	GRID BUBBLE AND LINE

MBOLS
DEMOLITION
XISTING SUPPLY
XISTING RETURN
IEW WORK
DETAIL NUMBER
DETAIL CALLOUTS SHEET ON WHICH DETAIL IS SHOWN
ECTION NUMBER
SECTIONS
HEET ON WHICH ECTION IS SHOWN
LOOR OR ROOF LEVEL NAME /ERTICAL ELEVATION
IORTH ARROW
PRAWING REVISION
IATCH LINE
GRAPHIC SCALES
LEVATION
DATUM ELEVATION
PACE TAG
DEMOLITION KEYNOTE
EYNOTE
SLOPE ARROW
CIRCULAR BREAK SYMBOL

#### DRAINAGE SYMBOL

REAL OBJECT ACID VENT ACID WASTE CONDENSATE DRAIN CONDENSATE DRAIN (PUMPED) GREASE VENT

EAL OBJECT	SYMBOL
CA(##)	
DI	
DIR	
DW	
DCW	
DCW(S)	
DHW	
DHWR	
DHW(S)	
NPCW	
NPCW(S)	
NPHW-	
NPHW(S)	
TP	
RD-# Ø	
 FD-# ⊘	

 $\Box$ 

REAL OBJECT

#### FOOTING DRAIN GREASE WASTE SANITARY VENT (OIL) SANITARY WASTE SANITARY WASTE (OIL) SANITARY WASTE (PUMPED) STORM DRAIN STORM OVERFLOW STORM PUMPED **PLUMBING**

COMPRESSED AIR (NOMINAL PRESSURE IN KPA) DEIONIZED WATER DEIONIZED WATER RECIRCULATING DISTILLED WATER DOMESTIC COLD WATER DOMESTIC COLD WATER SOFTENED DOMESTIC HOT WATER DOMESTIC HOT WATER RECIRCULATING DOMESTIC HOT WATER SOFTENED — NON-POTABLE COLD WATER NON-POTABLE COLD WATER SOFTENED - NON-POTABLE HOT WATER NON-POTABLE HOT WATER SOFTENED — NON-POTABLE TRAP PRIMER FIXTURE TRAP

> ROOF DRAIN FLOOR DRAIN PLUMBING FIXTURES

### **FIRE PROTECTION**

UPRIGHT SPRINKLER CONCEALED PENDANT SPRINKLER SIDEWALL SPRINKLER FIRE EXTINGUISHER

## CONTROLS

CO2) OR CO2	CARBON DIOXIDE SENSOR
CO OR CO	CARBON MONOXIDE SENSOR
DS	DEWPOINT SENSOR
DPS	DIFFERENTIAL PRESSURE SENSOR
EM	ENERGY METER
M OR F	FLOW METER
FS OR FS	FLOW SWITCH
FZ	FREEZE STAT
H OR H	HUMIDITY SENSOR
LC	LEVEL CONTROL
LS	LIMIT SWITCH
Nox	NITROGEN OXIDE SENSOR
000	OCCUPANCY SENSOR
02	OXYGEN SENSOR
(PS) OR [P]	PRESSURE SENSOR
PMU	PRESSURE DIFFERENTIAL MONITORING UNIT
RPD	ROOM PRESSURE DISPLAY
SP	STATIC PRESSURE SENSOR
TS OR T	TEMPERATURE SENSOR
TDU	TERMINAL DISPLAY UNIT
<b>T</b>	THERMOSTAT
VSD	VARIABLE SPEED DRIVE
AFS	AIR FLOW SWITCH
	CONTROLS WIRE

LEAKAGE. IN THAT ROOM. 3. THE CONTRACTOR IS RESPONSIBLE FOR PERMITS. OR LIFE SAFETY SYSTEMS. WORK BEING DONE. WEATHER PROTECTION SERVICES. STARTING WORK DETAILS. DUCTS: THESE DUCTS. NEW SERVICES. AROUND

## **GENERAL NOTES**

1. ALL ACCESS PANELS IN THE CEILING OF PHARMACY DEPARTMENT SHALL BE CASKETED TO PREVENT AIR

2. ALL NEW EXPOSED PIPES AND DUCTWORK SHALL BE PAINTED TO MATCH THE COLOR OF EXITING SERVICES

4. COORDINATE WITH THE BUILDING ENGINEER FOR ALL WORK AFFECTING BASE BUILDING HVAC, PLUMBING

COORDINATE WITH OWNER FOR ALL INTERACTION OF EXISTING SYSTEM UNDER OPERATION. 6. CORE DRILLING, HAMMER DRILLING, TABLE SAWS AND OTHER WORK OF A NOISY, DUSTY OR VIBRANT NATURE MUST BE DONE AT TIMES AGREED TO IN ADVANCE BY OWNER. 7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LEAVE THE SPACE CLEAN WITH NO DEMOLISHED

PARTS LEFT FROM EXISTING SYSTEM. 8. LOCATION OF EXISTING EQUIPMENT SHOWN ON THIS DRAWING IS FOR INFORMATION ONLY. CONTRACTOR SHALL REVIEW AND CHECK THE EXACT LOCATION. SIZE, ELEVATION AND INVERT OF ALL EXISTING EQUIPMENT. DUCTWORK AND PIPING ON SITE PRIOR TO COMMENCING WITH WORK

9. GPRS SCAN STRUCTURAL SLAB/WALLS FOR LOCATIONS OF RE-BAR TO LOCATE NEW OPENINGS AS REQUIRED, AND AS DIRECTED BY THE STRUCTURAL ENGINEER. POSITION CORE TO CLEAR REINFORCEMENT. REVIEW LOCATION WITH STRUCTURAL CONSULTANT.

10. PROVIDE OPENINGS IN FULL-HEIGHT WALLS FOR NEW DUCTWORK, PIPES AND CONDUIT TO PASS THROUGH. SEAL AROUND PENETRATIONS FOR SOUND ATTENUATION AND SMOKE/FIRE SEPARATION AS REQUIRED. 11. MODIFY THE SIZE AND ROUTING OF ALL EXISTING AND NEW PIPING AND DUCTWORK AS REQUIRED TO SUIT THE SITE CONDITION WITHOUT EXTRA COST TO THE OWNER. PROVIDE ADEQUATE OFFSETS, AND TRANSITIONS ON NEW DUCTWORK AS REQUIRED TO SUIT SITE CONDITIONS.

12. THE MECHANICAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS AND DETAILS. SEE ARCH. WALL ELEVATIONS, REFLECTED CEILING PLANS, SECTIONS AND DETAILS FOR PRECISE LOCATION OF ALL VISIBLE MECHANICAL ELEMENTS.

13. ALL EXPOSED SERVICES TO HAVE THEIR FINAL LOCATION AND HEIGHT APPROVED BY ARCHITECT PRIOR TO 14. PATCH AND MAKE GOOD ROOF, CEILING AND WALL FOR NEW WORK, AND FOR EXISTING SERVICES

REMOVED. COORDINATE WITH GENERAL OR CONSTRUCTION MANAGER. 15. ENSURE THAT PIPING AND FITTING LAYOUT HAVE ENOUGH FLEXIBILITY FOR EASY REMOVAL OF THE NEW EQUIPMENT IN THE FUTURE WITHOUT CUTTING OR REMOVAL OF PIPING.

16. ALL NEW EQUIPMENT, VALVES ETC. ARE TO BE PROPERLY LABELED, INCLUDING IDENTIFICATION OF PIPING. 17. ALL EXISTING INSULATION THAT IS DAMAGED DURING CONSTRUCTION TO BE REPLACED WITH NEW. 18. ALLOW FOR NEW IDENTIFICATION OF EXISTING EQUIPMENT, DUCTWORK AND PIPING.

19. ALL MECHANICAL WORK SHALL BE COORDINATED WITH DIVISION 26 (ELECTRICAL). REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THE SCOPE OF DIVISIONS 26, 27. 20. DECOMMISSION SYSTEM AT BMS WHERE MECHANICAL HVAC EQUIPMENT HAS BEEN REMOVED. REMOVE

ABANDONED WIRING AND CONDUIT, ETC. 21. COORDINATE WITH ELECTRICAL TRADES TO DE-COMMISSION ELECTRICAL WIRING, CONDUIT, ETC TO MAIN FEED WHERE MECH. EQUIPMENT HAS BEEN REMOVED.

22. ALL MISCELLANEOUS METAL PIPE SLEEVES TO BE PRIMED AND PAINTED FOR RUST INHIBITING AND 23. SALVAGED EQUIPMENT OF VALUE TO BE HANDED OVER TO THE OWNER FOR KEEPING AND FUTURE RE-USE. 24. THE SMALLEST PIPE TO BE USED IS 20MM (3/4") UNLESS OTHERWISE NOTED. PIPE SIZE TO COILS SHALL BE

SAME SIZE AS COIL CONNECTIONS UNLESS NOTED. 25. ALL HORIZONTAL PIPING TAKE-OFFS FROM VERTICAL PIPING RISERS SHALL BE C/W ISOLATION VALVES AND

CIRCUIT SETTERS FOR BALANCING AND SERVICE ISOLATION AT EACH LEVEL - TYPICAL. 26. EQUIPMENT START UP TO BE DONE BY SUPPLIER'S FACTORY TRAINED TECHNICIAN

27. ALLOW FOR ALL NECESSARY DUCT AND PIPE FITTINGS, BENDS, TRANSITIONS, CHANGES OF DIRECTION ETC. TO COORDINATE THE NEW MECHANICAL SERVICES INSTALLATION WITH THE EXISTING STRUCTURE AND

28. LABEL ALL NEW EQUIPMENT WITH LAMACOID LABELS MATCH EXISTING SIZE AND COLOR. INCLUDE ELECTRICAL FEED PANEL AND CIRCUIT.

29. ARRANGE AND PAY FOR THE SERVICE OF A B.C. REGISTERED PROFESSIONAL STRUCTURAL ENGINEER WHO SPECIALIZES IN THE RESTRAINT OF BUILDING ELEMENTS. THIS STRUCTURAL ENGINEER, HEREIN, REFERRED TO AS THE SEISMIC ENGINEER SHALL PROVIDE ALL REQUIRED ENGINEERING SERVICES RELATED TO SEISMIC RESTRAINTS OF NON-VIBRATION ISOLATED EQUIPMENT, DUCTWORK, PIPING AND SUPPORTS. 30. THE SEISMIC ENGINEER SHALL PROVIDE ASSISTANCE TO THE CONTRACTOR AS NECESSARY DURING THE

COURSE OF RESTRAINT OF EQUIPMENT, DUCTWORK AND PIPING SEISMICALLY RESTRAIN ALL NEW EQUIPMENT. 31. CONTRACTOR IS RESPONSIBLE FOR REQUESTING CLARIFICATION OF AMBIGUOUS INSTRUCTIONS BEFORE

32. WELDING ON PREMISES MUST CONFORM TO SPECIFIC GUIDELINES INCLUDING CSA Z.317 REGARDING HANDLING OF SMOKE, PRESSURIZED TANKS, WHMIS, AND FIRE ALARM. CONTACT BUILDING ENGINEER FOR

33. REFER TO THE STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR THE REQUIREMENTS OF ANY CONCRETE WORK, SCANNING, CUTTING, ATTACHMENT TO THE STEEL BEAMS, ETC.

34. INFECTION CONTROL ISSUES FOR CONTRACTORS WORKING AT THE DISCHARGE OPENINGS OF EXHAUST 34.1 IH HAS ADOPTED THE FOLLOWING INFECTION CONTROL PRECAUTIONS FOR CONTRACTORS WORKING AT

THE DISCHARGE OPENINGS OF ROOFTOP EXHAUST DUCTS. 34.2 INFECTION CONTROL REQUIRES THAT WORKERS MUST BE MADE AWARE OF THE FACT THAT HOSPITAL EXHAUST DUCTS MAY CARRY DUST AND SPORE PARTICLES, HOWEVER, NOT ACTIVE TB. DUST AND SPORES, RESIDING IN THESE DUCTS, MAYBE DISCHARGED TO THE EXTERIOR WITH THE AIR MASS CREATED WITHIN

34.3 ALTHOUGH THE LEVEL OF RISK FOR POTENTIAL CONTAMINATION IS LOW, IT IS ADVISABLE THAT CONSTRUCTION WORKERS, ESPECIALLY THOSE WHO ARE SENSITIVE TO RESPIRATORY ILLNESSES, WEAR APPROPRIATE DUST MASKS CAPABLE OF FILTERING FINE PARTICLES.

35. INSTALL FIRE STOPPING AND SMOKE SEAL MATERIAL AND COMPONENTS IN ACCORDANCE WITH ULC CERTIFICATION AND MANUFACTURER'S INSTRUCTIONS IN FORMED, SLEEVED OR CORED PENETRATIONS. 36. FURNISH ALL LABOUR, MATERIAL, EQUIPMENT AND SERVICES NECESSARY TO SUPPLY AND INSTALL FIRESTOPPING AND SMOKE SEALS AROUND ALL THE EXISTING MECHANICAL SERVICE PIPING, DUCTWORK AND CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS AND FLOOR ASSEMBLIES. REFER TO ARCH CODE DWGs FOR DETAILS. PATCH AND SEAL ALL EXISTING OPENINGS IN WALLS AND FLOORS THAT WILL NOT BE USED FOR

37. REVIEW TYPE AND LOCATION OF ACCESS PANELS IN DRYWALL ON SITE PRIOR TO INSTALLING. NEW ACCESS PANELS SHALL LINE-UP IN DRYWALL WHILE ALLOWING ACCESS TO MECHANICAL EQUIPMENT. 38. ALL PENETRATIONS (I.E. DUCTWORK, PIPING, CONDUITS) THROUGH FLOORS SHALL BE FIRE SEALED

39. SEAL ALL PIPE, DUCT, CONDUIT, ETC. PENETRATIONS THROUGH THE WALLS, FLOOR AND CEILING OF ALL AREAS TO PREVENT AIR LEAKAGE. REFER TO ARCH. DRAWINGS FOR DETAILS.

40. PROVIDE NEW DUCTWORK AND PIPING AND RECONNECT TO THE EXISTING SYSTEMS, AND RE-BALANCE AND COMMISSION EXISTING SERVICES THAT ARE TO BE REMOVED AND RE-INSTALLED (RE & RE). 41. PROVIDE MAINTENANCE AREAS AROUND ALL EQUIPMENT AS REQUIRED BY CODES AND RECOMMENDED BY THE EQUIPMENT MANUFACTURER. PAY PARTICULAR ATTENTION TO COIL ACCESS AND REMOVAL.

42. INSTALL PIPING AND DUCTWORK SO THAT ALL VALVES, DAMPERS AND ACCESS DOORS ARE ACCESSIBLE. 43. ALL HORIZONTAL DUCT MAINS TAKE-OFFs FROM VERTICAL DUCT MAIN RISERS SHALL BE C/W BALANCING DAMPERS FOR BALANCING AND SERVICE ISOLATION-TYP 44. CONTRACTOR TO CO-ORDINATE THERMOSTAT LOCATION TO AVOID INSTALLATION OVER DIMMER

SWITCHES OR HEAT EMITTING DEVICES PRIOR TO INSTALLATION. LOCATE ALLTHERMOSTATS 300mm AWAY FROM DOOR OPENING RADIUS. COORDINATE EXACT LOCATION ON SITE PRIOR TO INSTALLATION. 45. UNLESS OTHERWISE NOTED, BRANCH DUCTS SERVING INDIVIDUAL AIR TERMINALS TO MATCH AIR TERMINAL CONNECTION SIZE OR AIR TERMINAL SIZE REFER TO THE AIR TERMINALSCHEDULES IN THE SPECIFICATION. LOCATE BALANCE DAMPERS OVER ACCESSIBLE CEILINGS WHERE POSSIBLE. WHERE DAMPERS MUST BE LOCATED OVER NON-COMBUSTIBLE CEILING, PROVIDE CONCEALED REGULATORS AS SPECIFIED.

47. ALL AIR TERMINALS TO BE C/W BALANCING DAMPERS AT DUCT BRANCH FOR BALANCING. 48. PROVIDE FLEXIBLE CONNECTORS WHERE MECHANICAL SERVICES (I.E. DUCTWORK, PIPES, CONDUITS, ETC.) CROSS STRUCTURAL SEISMIC AND EXPANSION JOINTS



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MECHANICAL SYMBOL LEGEND AND GENERAL NOTES

Project No.

As indicated

Revision

144320228

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2	ISSUED FOR CONSTRUCTION	CH	AK	2024.04.10
1	ISSUED FOR TENDER	MD	MB	2023.09.08
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#### LEVEL 0 - HVAC ENVIRONMENTAL CONTROLS

Project No. 144320228

Scale 1:50 Drawing No.



Title



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3 ISSUED FOR CONSTRUCTION	СН	AK	2024.04.10
2 ADDENDUM 2	CH	MB	2024.01.11
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Title LEVEL 0 - HVAC - DEMO

Project No. 144320228

Scale 1:50





#### 1. COORDINATE WITH FMO FOR THE REQUIRED SHUTDOWNS. PRIOR TO RE-ACTIVATING A SYSTEM THAT IS SHUTDOWN, PERFORM A THOROUGH INSPECTION OF THE SYSTEM TO ENSURE THE SYSTEM IS READY FOR RE-COMMISSIONING I.E. THE STEAM LINES SHALL BE DRAINED TO PREVENT STEAM HAMMERING.

PROVIDE 2-HR RATED FIRE WRAP FOR 

750mmx400mm UP THROUGH ROOF -

RELOCATE THE EXISTING SPRINKLER PIPING AND HEADS TO SUIT THE NEW DUCTWORK AND PIPING TO MAINTAIN COVERAGE PER NFPA 13 (TYP.) -



COORDINATE THE EXACT LOCATION OF OPENING THE WALL FOR THE NEW DUCTWORK ON ON SITE (TYP.) -



## GARBAGE ROOM PENETRATION

EXISTING UNIT HEATER TO REMAIN. MAINTAIN CLEARANCE TO UNIT HEATER PER MANUFACTURER'S RECOMMENDATIONS -----

RELOCATE THE EXISTING SPRINKLER PIPING AND HEADS TO SUIT THE NEW DUCTWORK AND PIPING TO MAINTAIN COVERAGE PER NFPA 13 (TYP.) -----



- FIELD DETERMINE THE EXACT ROUTING OF NEW DUCTWORK TO AVOID CONFLICT WITH THE EXISTING EQUIPMENT AND SERVICES (TYP.)

- COORDINATE WITH ELECTRICAL CONTRACTOR FOR RELOCATION OF ALL LIGHT FIXTURES ALONG THE PATH OF THE NEW DUCTWORK (TYP.)

- REROUTE EXISTING PIPING TO AVOID CONFLICT WITH NEW DUCTWORK (TYPICAL)





# GARBAGE ROOM DUCT ROUTING



DEMOLISH EXISTING BULKHEAD BETWEEN GL D AND THE GARBAGE ROOM. PROVIDE NEW BULKHEAD ONCE THE NEW EXHAUST DUCT IS INSTALLED.

TEMPORARY SUPPORT EXISTING CABLES AND OTHER SERIVCES THAT ARE SUPPORTED FROM THE BULKHEAD





ORIGINAL SHEET - ARCH D

BULK STORAGE BULKHEAD



## LEVEL 0 HVAC OVERVIEW PLAN

**BULK STORAGE DUCT ROUTING** 

- NEW DUCTWORK TO BE INSTALLED ABOVE THE CEILING. COORDINATE WITH GC FOR RE- AND RE- OF EXISTING SERVICES. PROVIDE ACCESS PANELS TO ACCESS SERVICES AND EQUIPMEMN ABOVE THE CEILING (TYPICAL)

- RELOCATE AND RECOMMISSION EXISTING LIGHTS, SPRINKLER HEADS, SPEAKERS AND ASSOCIATED PIPING AND WIRING TO ALLOW INSTALLATION OF

NEW DUCTWORK AND PIPING (TYPICAL OF ALL).

6 M102 NTS

# **BULK STORAGE CEILING SPACE**



- REMOVE EXISTING AND PROVIDE NEW HANGERS AND SUPPORTS FOR CEILING, PIPING, ETC. TO ALLOW INSTALLATION OF THE NEW SERVICES.

- RELOCATE EXISTING WIRING, CONDUITS AND JUNCTION BOXES TO AVOID INTERFERENCE WITH NEW DUCTWORK AND PIPING (TYP. OF ALL)

– ADJUST THE STUDS ABOVE THE CEILING TO PROVIDE SUFFICIENT SPACE FOR INSTALLATION OF NEW DUCTWORK (TYP.)



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4 ISSUED FOR CONSTRUCTION	CH	 	2024.04.10
3 POST-TENDER ADDENDUM 1	СН	MB	2024.02.15
2 ADDENDUM 7	СН	MB	2024.02.09
1 ISSUED FOR TENDER	MD	MB	2023.09.08
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#### Title LEVEL 0 - HVAC - OVERVIEW

Project No. 144320228

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4	ISSUED FOR CONSTRUCTION	СН	 	2024.04.10
3	ADDENDUM 7	CH	MB	2024.02.09
2	ADDENDUM 2	СН	MB	2024.01.11
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BRITISH

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northern health the northern way of caring

Client/Project Northern Health Authority

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Title LEVEL 0 - HVAC - NEW

Project No. 144320228 Revision

Scale 1:50

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2	ADDENDUM 2	СН	MB	2024.01.11
1	ISSUED FOR TENDER	MD	MB	2023.09.08
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### northern health the northern way of caring

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### LEVEL 0 - HYDRONIC - NEW

Project No. 144320228

3

Scale 1:50 Drawing No.





ORIGINAL SHEET - ARCH D

D





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2				2024.04.10
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A. KHALEGHI # 37228

BRITISH

STANTEC PERMIT # 1002862

Permit/Seal

Client/Project Logo



Client/Project Northern Health Authority

UHNBC (University Hospital of Northern BC)-Pharmacy upgrade

1475 Edmonton St, Prince George, BC V2M 1S2

Title LEVEL 1 - HVAC - NEW

Project No. 144320228 Revision

Scale 1:100



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 2024.04.10

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 2023.09.08

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A. KHALEGHI # 37228 WG I NEER STANTEC PERMIT # 1002862

Client/Project Logo

Client/Project Northern Health Authority

UHNBC(University Hospital of Northern BC)-Pharmacy upgrade

1475 Edmonton St, Prince George, BC V2M 1S2

LEVEL 2, LEVEL 3, & UPPER ROOF -HVAC - NEW

Project No. 144320228

Revision

3

Scale 1 : 100 Drawing No. **M106** 



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BRITISH

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1475 Edmonton St, Prince George, BC V2M 1S2

#### Title LEVEL 0 - PLUMBING OVERVIEW

Project No. 144320228

Revision

2

Scale 1:50







AVOID DAMAGING IN SLAB SERVICES AS WELL AS REINFORCING STEEL. COORDINATE GPR WITH BUILDING OPERATING ENGINEER WITH 48 HOURS NOTICE. ALL IN-SLAB PENETRATIONS MUST BE FIRE STOPPED AND WATER SEALED TO MAINTAIN THE INTEGRITY OF THE SLAB.



ORIGINAL SHEET - ARCH D

# Stantec

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UHNBC (University Hospital of Northern BC)-Pharmacy upgrade

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Title LEVEL 0 - SANITARY PLUMBING -DEMO & NEW

Project No. 144320228

Revision

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![](_page_10_Figure_8.jpeg)

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![](_page_10_Picture_13.jpeg)

Client/Project Northern Health Authority

UHNBC (University Hospital of Northern BC)-Pharmacy upgrade

1475 Edmonton St, Prince George, BC V2M 1S2

# LEVEL 0 - PLUMBING - DEMO & NEW

Project No. 144320228 Revision

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![](_page_11_Figure_1.jpeg)

![](_page_11_Figure_2.jpeg)

![](_page_11_Picture_3.jpeg)

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![](_page_11_Figure_9.jpeg)

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# LEVEL 0 - FIRE PROTECTION PLAN

Project No. 144320228

Revision

2

Scale 1 : 50

![](_page_11_Picture_21.jpeg)

![](_page_12_Figure_0.jpeg)

![](_page_12_Figure_1.jpeg)

# Title

Revision

![](_page_12_Picture_7.jpeg)

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![](_page_12_Figure_13.jpeg)

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UHNBC (University Hospital of Northern BC)-Pharmacy upgrade

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### MECHANICAL SCHEMATICS

Project No. 144320228

3

Scale NTS

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![](_page_13_Figure_1.jpeg)

### **I SCHEMATIC**

![](_page_13_Figure_3.jpeg)

(15) WATER SEAL

![](_page_13_Figure_4.jpeg)

![](_page_13_Figure_5.jpeg)

![](_page_13_Picture_6.jpeg)

(1) PROVIDE COLD WATER PIPE TO DRAIN COOLERS OF AHUS. MODIFY AND RE-INSULATE EXISTING COLD WATER PIPING TO SUIT. COORDINATE WITH UHNBC FMO FOR REQUIRED SHUTDOWNS. PROVIDE ISOLATION VALVES AT TIE-IN TO THE EXISTING DCW PIPING.

(2) 5 MICRON STEAM FILTER EQUIVALENT TO DONALDSON MODEL P-EG C/W FLUORAZ O-RING

(4) TO CONDENSATE COOLER. INSULATE, HEAT TRACE, AND ALUMINUM JACKET PIPING SYSTEM ON THE ROOF FOR FREEZE PROTECTION (TYPICAL OF ALL PIPING ON ROOF)

(6) COORDINATE WITH AHU MANUFACTURER FOR CORING THROUGH THE AHU ENCLOSURE ROOF AND SEALING

(7) COORDINATE WITH AHU MANUFACTURER FOR SUPPORTING AND ATTACHMENT OF PRV STATION AND PIPING TO THE AHU SERVICE ENCLOSURE WALL, FLOOR AND ROOF (TYP.). MECHANICAL CONTRACTOR'S SEISMIC / PIPING ENGINEER TO PROVIDE INCIDENTAL FORCES TO AHU MANUFACTURER PRIOR TO PREPARATION OF AHU SHOP DRAWINGS FOR

(9) PROVIDE CONDENSATE TRAP AND PIPING FOR AHU-PH-01A&B AHU'S STEAM SYSTEM, AND CONNECT TO EXISTING CONDENSATE PIPE. COORDINATE WITH FMO FOR EXACT TIE-IN POINT. MODIFY AND RE-INSULATE EXISTING CONDENSATE PIPING TO SUIT. COORDINATE WITH UHNBC FOR STEAM AND CONDENSATE SYSTEM SHUTDOWNS. PROVIDE ISOLATION VALVES AT TIE-IN TO EXISTING STEAM AND CONDENSATES PIPING.

IN ADDITION, PROVIDE THERMOSTATIC (LIQUID EXPANSION) STEAM TRAP AT ALL LOW POINTS IN NEW STEAM PIPING TO DRAIN CONDENSATE DURING SYSTEM SHUT-DOWN. PIPE TRAP TO SAN DRAIN ON LEVEL 0 IN ACCORDANCE WITH

(11) NEW HIGH PRESSURE CONDENSATE FROM NEW STEAM PIPING

(13) PRESSURE RELIEF BY SPIRAX SARCO MODEL 750 (1-1/4" x 1-1/2" ORIFICE G) C/W DRIP PAN ELBOW (1-1/2"), OR

(14) PRV MODEL SPIRAX SARCO 15Ø 25P OR EQUIVALENT

(16) DRIP LEG FOR TYPE C TRAP SHALL BE DEEP TO AVOID CONDENSATE BACKING UP INTO THE STEAM FILTER WHEN THE TRAP IS CLOSED.

(17) 32Ø TO OTHER HUMIDIFIER

## **RTU-3A & 3B HEATING COIL SCHEMATIC (TYP.)**

![](_page_13_Picture_25.jpeg)

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![](_page_13_Figure_31.jpeg)

![](_page_13_Picture_32.jpeg)

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![](_page_13_Picture_34.jpeg)

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![](_page_13_Picture_36.jpeg)

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#### Title MECHANICAL SCHEMATICS

Project No. 144320228

Scale As indicated

![](_page_13_Picture_44.jpeg)

	-NTIFICATI	)N	Δ				PHYSICAL C	HARACTE	RISTICS								
			SUPI	PLY AIR (	(L/s)	UNIT				IONS	F	ANS			FILTER	S	
MARK	LOCAT	ON AIF	R FLOW (I/s)	EXTE STA PRESSU	ERNAL ATIC JRE (Pa)	OPERAT WEIGH (kg)	ING IT IT (mn	HT WIDT ) (mm	TH LEN	IGTH Im)	SUPF	PLY FA	.N DTOR NG (kW	/) N	SUPPI IERV RA	Y Fing	
RTU-3A	LEVEL 1 F	OOF	1,800	8	75	7,000	) 2,54	) 3,11	0 8,	130	2	7	7.5	8 (PRE AIR (	) AND DY CLEANER	NAMIC \ 3 (FINAL	/-8 .)
RTU-3B	LEVEL 1 F	OOF	1,800	8	75	7,000	2,54	) 3,11	0 8,	130	2	7	7.5	8 (PRE AIR (	) AND DY CLEANER	NAMIC \ 3 (FINAL	/-8 .)
2. WAXIMUM F 3. SINGLE PO 4. INCLUDES 5. ALL FANS T 6. UNIT COMF 7. REFER TO 8. COILS SHA 9. SUPPLY, IN 10. THE AHU 5 11. THE AHU 5 12. COIL CAP/ 13. 550mm HI 14. 1900 (W) x	INT POWER CO INT POWER CO ENCLOSURE F TO BE INVERTE PLETE WITH ST UNIT SECTION LL BE RATED F ISTALL, AND W SHALL INCLUD SHALL INCLUD SHALL HAVE T ACITIES SHOW GH ROOF CUR 2540 (H) x 810	NRECTION NR STEAM I DUTY, CC NDARD IN: FOR MOR DR 150 PSI RE VARIAB A HEATED O INDEPE I ARE FOR (L) SERVIC	AT 575/3/60 HUMIDIFIEF DMPLETE W SULATED R E DETAILS (1,035 KPa) LE FREQUE D/VENTILAT NDANT FAN 100% O/A CE ENCLOS	2.3 M/S 2 AND SEPA R. /ITH ISOLAT ROOF CURB ENCY DRIVE ED ENCLOS N TUNNELS S	RATE 120/1/6 OR, AUTOMA AND MOTOR ES (VFD) COM SURE FOR MC SO THAT ONE	io Lighting C Tic Damper Lifting Rail IPLETE With Dunting VSD E Fan Can Be	CONNECTION FOR FAN ISOLA S DISCONNECT S' , CONTROLS, AN TAKEN OFFLIN	TION, PIEZON VITCH, FOR S D ELECTRIC, E WITH THE U	IETER RING / PEED CONTI AL DISCONNE INIT STILL IN	IRFLOW M COL OF ALL CTS ETC. OPERATIOI	ETERING REAL FANS. MOTOR N. REFER TO U	DY FOR C	Connect . Be fitti Gram.	TION TO BM	IS HAFT GROU	NDING.	
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CC-1	NORTHER ID NU	i Health Iber	H UNIT S	J-3A	TOTAL CA (kW 51.4	PACITY S ) 4	ENSIBLE CA (kW) 50.86	PACITY S	/ <b>A FLOW (</b> 1800	/s) VEL	<b>.OCITY (m/s)</b> 2.6	<b>P.D.</b>	All (Pa) E 24	R EDB (°C) 35	<b>EWB (°</b>	;) LDI	<b>B (</b> 12
			RTL	J-3B	51.4	4	50.86		1800		2.6	22	24	35	20		12
1. STAINLE 2. R-410A 3. 6 ROW,	SS STEEL C 12 FINS PER	SING AN	ID DRIP P	PAN				4. 5.	Casing M Ahri Ach(	ATERIAL: CERTIFI	STAINLESS ED	STEEL					
											AHU H	<b>IEA</b> 1	TING	G COI	LS (V	/ATE	
			1						CAPACIT				AIR				:F
UNIT N			S	ERVICE	MANUF	ACTURER	MOD	EL	(kW)	S/A F	LOW VEI					<b>D</b> (00)	:F 
UNIT N PHC-1		UMBER	S	ervice	DIREC	ACTURER	MOD 5W-01-30.0-	EL 13-36.0-5	(kW) 98.03	<b>S/A F</b> (L	FLOW VEI /S) ( 000	<b>-OCITY</b> <b>M/S)</b> 2.6	P.D.	(Pa) ED	<b>B (°C)</b> LI -40	B (°C)	FI
UNIT N PHC-1 PHC-2 HC-1 HC-2 NOTES 1. CSA-C C 2. THREE-F 3. AUTOMA 4. PDS FIXE 5. DOOR IN 6. GAL VAN	ERTIFIED, U POLE DISCO TIC-RESET ED, C/W PITO TERLOCK D	C TESTE NETING- IIGH-TEM T TUBE SCONNE	ED TYPE CO IPERATUI	ERVICE RTU-3A RTU-3B RTU-3A RTU-3B WNTACTOF RE LIMITS CH	MANUF/ DIREC DIREC DIREC DIREC R, AIRFLOW S, MANUAL-	ACTURER CT COIL CT COIL CT COIL CT COIL V SWITCHE RESET HIG	MOD 5W-01-30.0- 5W-01-30.0- 5W-01-30.0- 5W-01-30.0- SW-01-30.0-	EL 13-36.0-5 13-36.0-5 08-36.0-5 08-36.0-5 C-RESET F URE LIMIT	(kW) 98.03 98.03 36.48 36.48 UNCTIONA S.	T S/A F (L) 18 18 18 18 18 18	FLOW VEI /S) ( 000 000 000 000	-OCITY M/S) 2.6 2.6 2.6 2.6	P.D. 2! 2! 1]	(Pa) ED	B (°C) LI 40 5 5 5	B (°C) 5 21.6 21.6	
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(Pa) FAN 7 7 HUMIE AM SURE AIR	Image: S/A F (L)         (L)         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         18         19         19         19         19         19         19         10	LOW       VEI         /S)       (         i00	LOCITY M/S) 2.6 2.6 2.6 2.6 2.6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	P.D.       2!       2!       11       11       11       11       11       11       11       11       11       11       11       11       11       11       11       11       11       11       11       11       11       11       11       11    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(Pa) FAN 7 HUMIE AM SURE AIR 24 34	<ul> <li>S/A F (L)</li> <li>18</li> <li>18</li> <li>18</li> <li>18</li> <li>871</li> <li>871</li> <li>0IFIEI</li> <li>VOLUME (L/s)</li> <li>1800</li> <li>1800</li> </ul>	LOW       VEI         /S)       (1)         300       300         300       300         300       300         300       300         300       300         300       300         300       300         300       300         300       300         300       300         300       300         300       300         300       300         300       300         300       300         300       300         300       300         300       300         300       300         300       300         300       300         300       300         300       300         300       300         300       300         300       300         300       300         300       300         300       300         300       300         300       300         300       300         300       300         300       3	COCITY M/S) 2.6 2.6 2.6 2.6 2.6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	P.D. 2! 2! 1] 1] 1] 1] 2! 2! 2! 2! 2! 2! 2! 2! 2! 2!	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UNIT N PHC-1 PHC-2 HC-2 HC-2 NOTES 1. CSA-C C 2. THREE-F 3. AUTOMA 4. PDS FIXE 5. DOOR IN 6. GALVANI 7. ENCLOS UNIT N SF-1 SF-2 NOTES 1. INVERTE 2. C/W ISOL 3. FAN PIEZ 4. ELEVATH SF-1 SF-2 NOTES 1. INVERTE 2. C/W ISOL 3. FAN PIEZ 4. ELEVATH MIT N RTU3-HU RTU3-HU NOTES 1. AIRFLOW 2. HIGH-LIN 3. TEMPER 4. HIGH EFI 5. 304 S.S. 1 6. STEAM C 7. CONDEN 8. 304 S.S. 1 9. SUPPOR 10. INSUAL MARK P-27-1 P-27-2	C PROVING SATE CONTROL VALUES SUPERIORS SUPERI	C TESTE NETING- IGH-TEW T TUBE SCONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE SECONNE 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 98.03         98.03         36.48         36.48         36.48         36.48         0.00000000000000000000000000000000000	Image: S/A F (L)	LOW       VEI         /S)       (1)         00       00         00       00         00       00         00       00         00       00         00       00         00       00         00       0         00       0         00       0         0       FAN MOT         0       7         0       FAN MOT         0       20 /         0       20 /         0       EFFICIE         0       EFFICIE         0       49.7         40.7       40.7	-OCITY M/S) 2.6 2.6 2.6 2.6 2.6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	P.D.       2!       2!       2!       1]       1]       1]       1]       1]       1]       1]       1]	(Pa) ED 5 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7	B (°C)   LI 40   - 5	B (°C)         5         21.6         21.6         21.6         3251         3251         3251         3251         3251         3251         3251         3251         3251         3251     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ORIGINAL SHEET - ARCH D

### 3 4

STEAM HUMIDIFIER         HYDRONIC PRE-IEAT US         HYDRONIC PRE-IEAT US         ICOULIS U	AIR HANDLING UNIT SCHEDULE																		
STEAM HUMIDIFIER         HYDRONIC PRE-HEAT COLL         HYDRONIC HEATING COLL         COOLING COLL         COOLING COLL         MANUFACTURER           Image: Scheduled as the mumidifier as																		_	
Image: Condition of the conditis and the condition of the condition of the condition		STEAM HUMIDIFIER	HYDR	ONIC PRE	E-HEAT C	OIL		HYDRC	HYDRONIC HEATING COIL										
SCHEDULED 3         SCHEDULED SEPARATELY-REFERTO SCHEDULE         TOTAL CAPACITY         CC (°C)         CC (			HEATING PERFORMANCE				HEATING PERFORMANCE				COOLIN	G PERF	FORMA	NCE		MANUFACTURER	NOTES		
B         Schedule         98.03         -40         -         5         -         36.48         5         -         21.6         -         51.44         35.0         20.0         12.0         11.6         HAAKON           3         SCHEDULE         98.03         -40         -         5         -         36.48         5         -         21.6         -         51.44         35.0         20.0         12.0         11.6         HAAKON           3         SCHEDULE         98.03         -40         -         5         -         36.48         5         -         21.6         -         51.44         35.0         20.0         12.0         11.6         HAAKON	SCHEDULED		TOTAL CAPACITY	EDB (°C)	EWB (°C)	LDB (°C)	LWB (°C)	TOTAL CAPACITY	EDB (°C)	EWB (°C)	LDB (°C)	LWB (°C)	TOTAL CAPACITY (kW)	EDB (°C)	EWB (°C)	LDB (°C)	LWB (°C)		
3 98.03 40 - 5 - 36.48 5 - 21.6 - 51.44 35.0 20.0 12.0 11.6 HAAKON	3	SCHEDULED SEPARATELY - REFER TO STEAM HUMIDIFIER	98.03	-40	-	5	-	36.48	5	-	21.6	-	51.44	35.0	20.0	12.0	11.6	HAAKON	ALL
	3	SCHEDULE	98.03	-40	-	5	-	36.48	5	-	21.6	-	51.44	35.0	20.0	12.0	11.6	HAAKON	ALL

OLING COIL (WATER)													
WATER (50% GLYCOL) CONNECTION SIZE HEIGHT WIDTH NO. OF MANUFACTURER MODEL									MODEL	NOTES			
3 (°C)	LWB (°C)	FLOW (I/s)	P.D. (kPa)	EWT (°C)	LWT (°C)	SUPPLY (mm)	RETURN (mm)	(mm)	(mm)	COILS	MANOLAOTORER	MODEL	NOTEO
12	11.6	2.34	14.66	6	12	50	50	762	914	1	DIRECT COIL	5W-12-30.0-10-36.0-15	ALL
12	11.6	2.34	14.66	6	12	50	50	762	914	1	DIRECT COIL	5W-12-30.0-10-36.0-15	ALL

R)	R)												
١	NATER (50%	6 GLYCOL)		CONNEC	TION SIZE	HEIGHT	WIDTH	NO. OF	NOTES				
FLOW (I/s)	P.D. (kPa)	EWT (°C)	LWT (°C)	SUPPLY (mm)	RETURN (mm)	(141141)	(191191)	CUILS					
2.33	29.11	82.2	71.1	50	50	762	914	1	ALL				
2.33	29.11	82.2	71.1	50	50	762	914	1	ALL				
0.87	14.66	82.2	71.1	25	25	762	914	1	ALL				
0.87	14.66	82.2	71.1	25	25	762	914	1	ALL				

FAN CLASS	IMPELLER DIA (mm)	DRIVE TYPE	VOLTS/PHASE/Hz	MANUFACTURER	MODEL	NOTES
3	406	Direct	575/3/60	HAAKON	16TCEPQN	ALL
3	406	Direct	575/3/60	HAAKON	16TCEPQN	ALL

JM TION (mm)	STEAM VALVE MODEL	NOTES
	SAKV00FEU0	ALL
	SAKV00FEU0	ALL

L				
ASE	OPERATING WEIGHT (kg)	MANUFACTURER	MODEL	NOTES
3	73.2	KSB	ETANORM	
3	73.2	KSB	ETANORM	

![](_page_14_Picture_11.jpeg)

Stantec Consulting Ltd. 400-1620 Dickson Avenue Kelowna, V1Y 9Y2 Tel: (250) 860-3225 • www.stantec.com

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Consultant

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Notes

![](_page_14_Figure_17.jpeg)

2	ISSUED FOR CONSTRUCTION	CH	AK	2024.04.10
1	ISSUED FOR TENDER	MD	MB	2023.09.08
lss	ued/Revision	Ву	Appd	YYYY.MM.DD

Permit/Seal

![](_page_14_Picture_20.jpeg)

Client/Project Logo

![](_page_14_Picture_22.jpeg)

Client/Project Northern Health Authority

UHNBC (University Hospital of Northern BC)-Pharmacy upgrade

1475 Edmonton St, Prince George, BC V2M 1S2

#### Title MECHANICAL SCHEDULES

Project No. 144320228

Scale

![](_page_14_Picture_30.jpeg)

AREA SERVED		PH	ARMACY AIR	VALVE SCHEDU	JLE (AV)									
l	AIR VALVE No.	MANUFACTURER	MODEL	PHOENIX MODEL NUMBER	SIZE (in)	REHEAT CO	L O			JPIED MODE	NOTES		S-1   S-2	E.H PRICE
2.0 NON-HD CLEAN ROOM	EVAV-WW-010	Phoenix Controls	ACCEL II	EXVA112L	12		MAX. 27	(L/s) MIN. (L/: 5 -	s) MAX. (L/s) 275	MIN. (L/S) -	1,2,3,4,5,6,8,9		S-4 I F-1 I	E.H PRICE
4.0 HD CLEAN ROOM	EVAV-WW-011 EVAV-WW-012	Phoenix Controls Phoenix Controls	ACCEL II ACCEL II	EXVA108L EXVA112L	8 12	-	23	0 -	230	-	1,2,3,4,5,6,8,9 1,2,3,4,5,6,7,8,	9	E-2 I	E.H PRICE
BIO-SAFETY CABINET 5.0 UNCLASSIFIED PREP / STORAGE SPACE	EVAV-WW-013 EVAV-WW-014	Phoenix Controls Phoenix Controls	ACCEL II	EXVA112L EXVA108L	2x12		60	0 - 0 -	600 150	-	1,2,3,4,5,6,7,8,	9,11	<u>NOTES:</u>	
6.0 HD STORAGE	EVAV-WW-015	Phoenix Controls	ACCEL II	EXVA108L	8		13	5 -	135	-	1,2,3,4,5,6,7,8,	9	2. FINISH SHA	ALL BE OF THE
2.0 NON-HD CLEAN ROOM 3.0 SHARED ANTE ROOM	SVAV-WW-010 SVAV-WW-011	Phoenix Controls Phoenix Controls	ACCEL II ACCEL II	MAVA212L MAVA108L	12 REF 8 REF	ER TO HTG COI	L SCHED. 29	5 295 5 105	295 105	295 105	1,2,3,4,5,6,8,9,	10,12 10,12	<ol> <li>COORDINA</li> <li>COMPLETE</li> </ol>	TE WITH ARCH
4.0 HD CLEAN ROOM	SVAV-WW-012	Phoenix Controls	ACCEL II	MAVA212L	2x12 REF	ER TO HTG COI	L SCHED. 81	0 200	810	200	1,2,3,4,5,6,8,9,	10,12	5. COMPLETE	WITH HEPA F
5.0 UNCLASSIFIED PREP / STORAGE SPACE	SVAV-WW-013	Phoenix Controls Phoenix Controls	ACCEL II	MAVA108L MAVA108I	8 REF	ER TO HTG COI	L SCHED. 17	0 170 5 115	170	170 115	1,2,3,4,5,6,8,9,	10,12 10,12	6. 250mm INL 7. 300mm INL	ET ET
<ol> <li><u>NOTES:</u></li> <li>PRESSURE SWITCH, LOW LIMIT.</li> <li>FAILS TO LAST POSITION.</li> <li>HORIZONTAL VALVE ORIENTATION. CON⁻</li> <li>ELECTRONIC VALVE CONTROLLER.</li> <li>CONICAL-SHAPED DIFFUSER VALVE DESIG</li> <li>PRESSURE CONTROL (POC) ALTERNATE OF</li> <li>PROVIDE PHENOLIC COATING FOR HAZAR</li> <li>LOW PRESSURE OPERATION.</li> <li>PROVIDE WITH SYSTEM, REMOTE ACCESS</li> <li>INCLUDE HYDRONIC RE-HEAT COIL, WOF</li> <li>SHUT-OFF CAPABILITY.</li> </ol>	FRACTOR TO CONFIRI N. FSET CAPABILITY. DOUS EXHAUST. CAPABILITY. KING FLUID WATER.	M AIR VALVE ORIENTATION	N PRIOR TO ORDER	ING.										
12. INCLUDE DOOR CONTACTS AND PHOENI	CONTROLS PRESSUF	RE INDICATOR AND MONIT	ORING EQUIPMEN	Т.										
		<u></u>	DUCT	MOUNTED HO	T WATER HE	ATING COIL	. SCHEDULE			2				
						FACE			FLUI			MANUFACTURER	NOTES	
REHEAT COIL NO. ROOM(S) S	SERVED	CAPACITY (mm)	(mm) OF RC	IVS (I/s)	(°C) (°C	³ VELOCIT ¹ (m/s)	(Pa)	FLUID TYPE	FLOW (	°C) (°(	C) (kPa)	MANOFACIONEN	NOTES	
SVAV-WW-010-RH 2.0 NON-HD CLEAN RO		5.4 394	425 1	295	11 26	.2 2.7	12.51 50	0% PRO. GLYCOL	0.12	2.2 70	.0 7.42	HEATCRAFT		
SVAV-WW-011-RH 3.0 SHARED ANTE ROOM	M	1.9 279	279 1	105	<u> </u>	0 2.5	16.60 50	0% PRO. GLYCOL	0.04 8	2.2 70	.0 3.33	HEATCRAFT		1
SVAV-WW-012-RH 4.0 HD CLEAN ROOM		15.0 381	724 1	810	11 26. ¹	3 4.1 5 2.7	34.54 50	0% PRO. GLYCOL	0.32 8	2.2 70	.0 13.02	HEATCRAFT		
SVAV-WW-013-RH 5.0 UNCLASSIFIED PREP SVAV-WW-014-RH 6.0 HD STORAGE	/ STORAGE SPACE	3.2         279           2.1         279	305     1       279     1	170	11         26.           11         26.	5 3.7 1 2.8	<u> </u>	0% PRO. GLYCOL	0.07 8	2.2 70 2.2 70	.0 9.17 .0 3.71	HEATCRAFT		
NOTES:								I						
							E							1
			LINIT SIZE M	AX PRIMARY MIN		MINAL REHE	AT WC CAPAC		AT (°C) FLUID F		FLUID CIN		X COIL	°C) I.W.T (°C)
		UFACTORER MODEL		(L/s)	(L/s) LII	NER (L/s)	) (kW)		(L/s		TYPE	AP	D (Pa)	
1.0 EXISTING OFFICE EV 6.2 LIBRARY EV	AV-WW-016	PRICE SDEQ PRICE SDEQ	4	45	0 F(	G75 - G75 -		-		-	-		 	-
1.0 EXISTING OFFICESV6.2 LIBRARYSV	AV-WW-015 AV-WW-016	PRICE SDVQ PRICE SDVQ	4 7	45 180	28 F0 138 F0	G50 45 G50 180	0.72	15.00 15.00	27.00 0.01 27.00 0.09	0.18	PG 5 PG 5	0.00 1L 0.00 1L	2 82.20 17 82.20	0 66.80 0 74.40
NOTES: 1. VAV'S TO BE SUPPLIED WITH ATTENUATORS. TO BE	FIBRE EREF.	I				I				I		I I		
<ol> <li>S. C.R. MODULATING ELECTRIC HEATERS SHALL BE SU HEATER WHEN THERE IS NO AIRFLOW.</li> <li>MANUAL AND AUTOMATIC CUT-OUT.</li> <li>DOOR INTERLOCK DISCONNECT SWITCH</li> <li>24 V TRANSFORMER</li> <li>LOW WATT DENSITY ELEMENTS, HIGH GRADE NICKE</li> </ol>	JPPLIED WITH AN ELECTRI	IC SENSOR ON EACH SIDE OF THE	E HEATER TO MEASURE	THE TEMPERATURE AND			CONTROLLER TO AD	DUST THE OUTPUT TE	EMPERATURE IN ACC	ORDANCE WITH T	HE MEASURED PARAM	ETERS. THE NEPTRONIC H	EC CONTROLLER S	HALL STOP THE ELEC
UNIT NO.				AIR FLOW (I/s) F	FAN E.S.P. (Pa)	(kW)	FAN MOTOR (	kW) FAN RPM	DRIVE TYPE	VOLTS/PH/Hz	MANUFACTURER	MODEL NO	SEE NO	DTE(s)
				Z,000	040	3.31	J 3/						F AL I	
EF-WW-0-1A PHARMACY DEPARTME EF-WW-0-1B PHARMACY DEPARTME	NT EXHAUST	UPPER ROOF	PLENUM FAN	2,000	840	3.31	3.7	2100	DIRECT DRIVE	575/3/60 575/3/60	GREENHECK GREENHECK	VEKTOR-MH-18-4-8 VEKTOR-MH-18-4-8	5 ALI 5 ALI	<u>-</u>
EF-WW-0-1APHARMACY DEPARTMEEF-WW-0-1BPHARMACY DEPARTMENOTES1- ISOLATION DAMPER ACT ELECTRIC, 24 MODEL: TFB24-S,ONE PER FAN2- SURE-AIRE FLOW STATION (NO ELECTRO)3-CSA APPROVAL, UL/CUL-705 "POWER VEN4-BYPASS AIR PLENUM-SINGLE WALL, STEE5- COATED WITH LABCOAT, CONCRETE GRA6- NEMA-3R DISCONNECT, MOUNTED AND W7- MOTOR COVER8- WEATHERHOOD OVER BYPASS DAMPER V9- C/W NEMA PREMIUM EFFICIENT INVERTERSHAFT GROUNDING10- 600 MM ROOF CURB GPFHD, 25 MM INSU11- FACTORY VIBRATION TEST, 0.15 IN/S112912- HIGH WIND RATED (+/- 140 PSF RATING)	NT EXHAUST NT EXHAUST VAC, 2 POS., SR, W/E NICS), QTY 2 TILATORS". L, SIDE EXHAUST INT Y-RAL 7023, ENTIRE /IRED /ITH INLET SCREEN R MOTOR, TEFC, CLA LATION, MILL FINISH }, PEAK, FILTER-IN AS	UPPER ROOF UPPER ROOF ND SWITCH, W/TRANSFOR AKES UNIT SS F OR GREATER INSULA	MER,	2,000 13- FLORIDA PRODU 14- TEXAS DEPARTM 15- OSHPD SEISMIC 16- EXTENDED LUBE 17- BYPASS SHALL F 18- BYPASS DAMPE 19-ISOLATION DAMF 20-VFD C/W NEMA 4 21-MOTOR WITH GR 22-COATED STEEL F	JCT APPROVAL # MENT OF INSURA CERTIFIED, #OSI E LINES-NYLON BE SIZED FOR 60 R ACTHCD-230-LE PER - HCD-230-LE HEATED AND VE REASEABLE BEAR FAN PANEL	3.31 FL17237 & MIAI NCE PRODUCT P-0233-10 O L/S, GALVANE -LE, MODULATIN GALVANEAL, ( INTILATED ENC NIG	3.7 MI-DADE NOA# 1 EVALUATION R AL, COATED, NG, W TRANSFO COATED, 850 MM LOSURE PER FA	4-0325.05 V-88. RMER, 24 VAC, OI 1 X 800 MM, PARA	DIRECT DRIVE DIRECT DRIVE PPOSED BLANDE LLEL BLADES, M	575/3/60 575/3/60 S, MODEL: TFE DUNTED IN BA	GREENHECK GREENHECK 24-SR, NEMA 4 EN P, ONE PER FAN, N	VEKTOR-MH-18-4-8 VEKTOR-MH-18-4-8 ICLOSURE IODEL: TFB24-SR, NE	5 ALI	L L
EF-WW-0-1A       PHARMACY DEPARTME         EF-WW-0-1B       PHARMACY DEPARTME         NOTES       1- ISOLATION DAMPER ACT ELECTRIC, 24         MODEL: TFB24-S,ONE PER FAN       2- SURE-AIRE FLOW STATION (NO ELECTRO         3-CSA APPROVAL, UL/CUL-705 "POWER VEN       4-BYPASS AIR PLENUM-SINGLE WALL, STEE         5- COATED WITH LABCOAT, CONCRETE GRA       6- NEMA-3R DISCONNECT, MOUNTED AND W         7- MOTOR COVER       8- WEATHERHOOD OVER BYPASS DAMPER V         9- C/W NEMA PREMIUM EFFICIENT INVERTEI       SHAFT GROUNDING         10- 600 MM ROOF CURB GPFHD, 25 MM INSU       11- FACTORY VIBRATION TEST, 0.15 IN/S1129         12- HIGH WIND RATED (+/- 140 PSF RATING)       11- FACTORY	NT EXHAUST NT EXHAUST VAC, 2 POS., SR, W/E NICS), QTY 2 TILATORS". L, SIDE EXHAUST INT Y-RAL 7023, ENTIRE /IRED WITH INLET SCREEN R MOTOR, TEFC, CLA LATION, MILL FINISH J, PEAK, FILTER-IN AS	UPPER ROOF UPPER ROOF ND SWITCH, W/TRANSFOR AKES UNIT SS F OR GREATER INSULA	MER,	2,000 13- FLORIDA PRODU 14- TEXAS DEPARTM 15- OSHPD SEISMIC 16- EXTENDED LUBE 17- BYPASS SHALL F 18- BYPASS DAMPE 19-ISOLATION DAMF 20-VFD C/W NEMA 4 21-MOTOR WITH GR 22-COATED STEEL F	JCT APPROVAL # MENT OF INSURA CERTIFIED, #OSI E LINES-NYLON BE SIZED FOR 600 R ACTHCD-230-LE PER - HCD-230-LE HEATED AND VE REASEABLE BEAR FAN PANEL	3.31 FL17237 & MIAI NCE PRODUCT P-0233-10 IO L/S, GALVANE -LE, MODULATIN J, GALVANEAL, ( INTILATED ENC NTILATED ENC	3.7 MI-DADE NOA# 1 EVALUATION R ¹ AL, COATED, NG, W TRANSFO COATED, 850 MM LOSURE PER FA	4-0325.05 V-88. RMER, 24 VAC, OI 1 X 800 MM, PARA	DIRECT DRIVE DIRECT DRIVE	575/3/60 575/3/60 S, MODEL: TFE DUNTED IN BA	GREENHECK GREENHECK 24-SR, NEMA 4 EN P, ONE PER FAN, N	VEKTOR-MH-18-4-8 VEKTOR-MH-18-4-8	5 ALI	RE
EF-WW-0-1A PHARMACY DEPARTME EF-WW-0-1B PHARMACY DEPARTME <b>NOTES</b> 1- ISOLATION DAMPER ACT ELECTRIC, 24 MODEL: TFB24-S,ONE PER FAN 2- SURE-AIRE FLOW STATION (NO ELECTRO 3-CSA APPROVAL, UL/CUL-705 "POWER VEN 4-BYPASS AIR PLENUM-SINGLE WALL, STEE 5- COATED WITH LABCOAT, CONCRETE GRA 6- NEMA-3R DISCONNECT, MOUNTED AND W 7- MOTOR COVER 8- WEATHERHOOD OVER BYPASS DAMPER ' 9- C/W NEMA PREMIUM EFFICIENT INVERTEI SHAFT GROUNDING 10- 600 MM ROOF CURB GPFHD, 25 MM INSU 11- FACTORY VIBRATION TEST, 0.15 IN/S1129 12- HIGH WIND RATED (+/- 140 PSF RATING)	NT EXHAUST NT EXHAUST VAC, 2 POS., SR, W/EI NICS), QTY 2 TILATORS". L, SIDE EXHAUST INT Y-RAL 7023, ENTIRE /IRED WITH INLET SCREEN R MOTOR, TEFC, CLA LATION, MILL FINISH 3, PEAK, FILTER-IN AS	UPPER ROOF UPPER ROOF ND SWITCH, W/TRANSFOR AKES UNIT SS F OR GREATER INSULA	MER,	2,000 13- FLORIDA PRODU 14- TEXAS DEPARTM 15- OSHPD SEISMIC 16- EXTENDED LUBE 17- BYPASS SHALL F 18- BYPASS DAMPE 19-ISOLATION DAMF 20-VFD C/W NEMA 4 21-MOTOR WITH GR 22-COATED STEEL F SILE	JCT APPROVAL # MENT OF INSURA CERTIFIED, #OSI E LINES-NYLON BE SIZED FOR 60 R ACTHCD-230-LE HEATED AND VE REASEABLE BEAR FAN PANEL	3.31 FL17237 & MIAI NCE PRODUCT P-0233-10 O L/S, GALVANE -LE, MODULATIN GALVANEAL, ( INTILATED ENC NNG	3.7 MI-DADE NOA# 1 EVALUATION R AL, COATED, NG, W TRANSFO COATED, 850 MN LOSURE PER FA	4-0325.05 V-88. RMER, 24 VAC, OI A X 800 MM, PARA	DIRECT DRIVE DIRECT DRIVE	575/3/60 575/3/60 S, MODEL: TFE DUNTED IN BA	GREENHECK GREENHECK 24-SR, NEMA 4 EN P, ONE PER FAN, M	VEKTOR-MH-18-4-8 VEKTOR-MH-18-4-8 ICLOSURE MODEL: TFB24-SR, NE	5 ALI	L L
EF-WW-0-1A       PHARMACY DEPARTME         EF-WW-0-1B       PHARMACY DEPARTME         NOTES       1- ISOLATION DAMPER ACT ELECTRIC, 24         MODEL: TFB24-S,ONE PER FAN       2- SURE-AIRE FLOW STATION (NO ELECTRO         3-CSA APPROVAL, UL/CUL-705 "POWER VEN       4-BYPASS AIR PLENUM-SINGLE WALL, STEE         5- COATED WITH LABCOAT, CONCRETE GRA       6- NEMA-3R DISCONNECT, MOUNTED AND W         7- MOTOR COVER       8- WEATHERHOOD OVER BYPASS DAMPER         9- C/W NEMA PREMIUM EFFICIENT INVERTEI       SHAFT GROUNDING         10- 600 MM ROOF CURB GPFHD, 25 MM INSU       11- FACTORY VIBRATION TEST, 0.15 IN/S112!         12- HIGH WIND RATED (+/- 140 PSF RATING)       UNIT NO.	NT EXHAUST NT EXHAUST VAC, 2 POS., SR, W/EI NICS), QTY 2 TILATORS". L, SIDE EXHAUST INT Y-RAL 7023, ENTIRE /IRED WITH INLET SCREEN R MOTOR, TEFC, CLA LATION, MILL FINISH 9, PEAK, FILTER-IN AS KE MODEL	UPPER ROOF UPPER ROOF ND SWITCH, W/TRANSFOR AKES UNIT SS F OR GREATER INSULA S MEASURED AT THE FAN I		2,000 13- FLORIDA PRODU 14- TEXAS DEPARTM 15- OSHPD SEISMIC 16- EXTENDED LUBE 17- BYPASS SHALL F 18- BYPASS DAMPE 19-ISOLATION DAMF 20-VFD C/W NEMA 4 21-MOTOR WITH GR 22-COATED STEEL F SILE AIR PRESSURE DROP INCL. SYSTEM EFFECTS	JCT APPROVAL # MENT OF INSURA CERTIFIED, #OSI E LINES-NYLON BE SIZED FOR 60 R ACTHCD-230-LE HEATED AND VE REASEABLE BEAR FAN PANEL	3.31 FL17237 & MIAI NCE PRODUCT P-0233-10 IO L/S, GALVANE -LE, MODULATII E, GALVANEAL, ( ENTILATED ENC NG WIDTH (MM)	3.7 MI-DADE NOA# 1 EVALUATION R AL, COATED, NG, W TRANSFO COATED, 850 MN LOSURE PER FA ENGTH (MM)	2100 4-0325.05 V-88. RMER, 24 VAC, OI 1 X 800 MM, PARA N	DIRECT DRIVE DIRECT DRIVE PPOSED BLANDE LLEL BLADES, MU	575/3/60 575/3/60 S, MODEL: TFE DUNTED IN BA	GREENHECK GREENHECK 24-SR, NEMA 4 EN P, ONE PER FAN, N	VEKTOR-MH-18-4-8	5 ALI	L L
EF-WW-0-1APHARMACY DEPARTMEEF-WW-0-1BPHARMACY DEPARTMENOTES1- ISOLATION DAMPER ACT ELECTRIC, 24 MODEL: TFB24-S,ONE PER FAN2- SURE-AIRE FLOW STATION (NO ELECTRO)3-CSA APPROVAL, UL/CUL-705 "POWER VEN4-BYPASS AIR PLENUM-SINGLE WALL, STEE5- COATED WITH LABCOAT, CONCRETE GRA6- NEMA-3R DISCONNECT, MOUNTED AND W7- MOTOR COVER8- WEATHERHOOD OVER BYPASS DAMPER9- C/W NEMA PREMIUM EFFICIENT INVERTEI SHAFT GROUNDING10- 600 MM ROOF CURB GPFHD, 25 MM INSU11- FACTORY VIBRATION TEST, 0.15 IN/S112 12- HIGH WIND RATED (+/- 140 PSF RATING)UNIT NO.SERVICEMASIL-SA-1RTU-3A & 3BPRI	NT EXHAUST NT EXHAUST VAC, 2 POS., SR, W/EI NICS), QTY 2 TILATORS". L, SIDE EXHAUST INT (Y-RAL 7023, ENTIRE) /IRED WITH INLET SCREEN R MOTOR, TEFC, CLA LATION, MILL FINISH 3, PEAK, FILTER-IN AS KE MODEL CE RHT96/8D	UPPER ROOF UPPER ROOF ND SWITCH, W/TRANSFOR AKES UNIT SS F OR GREATER INSULA S MEASURED AT THE FAN I LOCATION	AIRFLOV (I/s) 1200018 1.800	2,000  13- FLORIDA PRODU 14- TEXAS DEPARTM 15- OSHPD SEISMIC 16- EXTENDED LUBE 17- BYPASS SHALL E 18- BYPASS DAMPE 19-ISOLATION DAMF 20-VFD C/W NEMA 4 21-MOTOR WITH GR 22-COATED STEEL F  SILE AIR PRESSURE DROP INCL. SYSTEM EFFECTS (Pa) 27	JCT APPROVAL # MENT OF INSURA CERTIFIED, #OSI E LINES-NYLON BE SIZED FOR 600 R ACTHCD-230-LE HEATED AND VE REASEABLE BEAR FAN PANEL <b>NCERS</b>	3.31 FL17237 & MIAI NCE PRODUCT P-0233-10 IO L/S, GALVANE -LE, MODULATII E, GALVANEAL, I ENTILATED ENC NING WIDTH (MM) LI 700	AL, COATED, NG, W TRANSFO COATED, 850 MN LOSURE PER FA	2100 4-0325.05 V-88. RMER, 24 VAC, OI A X 800 MM, PARA N 33 Hz 125 Hz 2 7 10	DIRECT DRIVE DIRECT DRIVE PPOSED BLANDE LLEL BLADES, M INSERTION	575/3/60 575/3/60 S, MODEL: TFE DUNTED IN BA	GREENHECK GREENHECK 24-SR, NEMA 4 EN P, ONE PER FAN, M 24-SR, NEMA 4 EN P, ONE PER FAN, M 25-SR, NEMA 4 EN P, ONE PER FAN	VEKTOR-MH-18-4-84 VEKTOR-MH-18-4-84 ICLOSURE MODEL: TFB24-SR, NE	5 ALI	L L
EF-WW-0-1A       PHARMACY DEPARTME         EF-WW-0-1B       PHARMACY DEPARTME         NOTES       1- ISOLATION DAMPER ACT ELECTRIC, 24         MODEL: TFB24-S, ONE PER FAN       2- SURE-AIRE FLOW STATION (NO ELECTRO         3-CSA APPROVAL, UL/CUL-705 "POWER VEN         4-BYPASS AIR PLENUM-SINGLE WALL, STEE         5- COATED WITH LABCOAT, CONCRETE GR4         6- NEMA-3R DISCONNECT, MOUNTED AND W         7- MOTOR COVER         8- WEATHERHOOD OVER BYPASS DAMPER         9- C/W NEMA PREMIUM EFFICIENT INVERTEI         SHAFT GROUNDING         10- 600 MM ROOF CURB GPFHD, 25 MM INSU         11- FACTORY VIBRATION TEST, 0.15 IN/S112         12- HIGH WIND RATED (+/- 140 PSF RATING)         SIL-SA-1         RTU-3A & 3B       PRI         SIL-SA-2       RTU-3A & 3B       PRI         SIL-SA-3       RTIL-3A & 3B       PRI	NT EXHAUST NT EXHAUST VAC, 2 POS., SR, W/EI NICS), QTY 2 TILATORS". L, SIDE EXHAUST INT Y-RAL 7023, ENTIRE /IRED WITH INLET SCREEN R MOTOR, TEFC, CLA ILATION, MILL FINISH 9, PEAK, FILTER-IN AS KE MODEL CE RHT96/8D CE RLT24/6C CE RMT72/4C	UPPER ROOF UPPER ROOF ND SWITCH, W/TRANSFOR AKES UNIT SS F OR GREATER INSULA S MEASURED AT THE FAN I LOCATION	PLENUM FAN           PLENUM FAN           MER,           MER,           ATION,           RPM           (I/s)           0018         1,800           90           120	2,000  13- FLORIDA PRODU 14- TEXAS DEPARTM 15- OSHPD SEISMIC 16- EXTENDED LUBE 17- BYPASS SHALL F 18- BYPASS DAMPEI 19-ISOLATION DAMF 20-VFD C/W NEMA 4 21-MOTOR WITH GR 22-COATED STEEL F  SILE AIR PRESSURE DROP INCL. SYSTEM EFFECTS (Pa) 27 30 57	JCT APPROVAL # MENT OF INSURA CERTIFIED, #OSI E LINES-NYLON BE SIZED FOR 600 R ACTHCD-230-LE HEATED AND VE REASEABLE BEAR FAN PANEL NCERS HIGHT (MM) 400 300 250	3.31 FL17237 & MIAI NCE PRODUCT P-0233-10 10 L/S, GALVANE -LE, MODULATII E, GALVANEAL, ( ENTILATED ENC NG WIDTH (MM) LI 700 300 250	AL, COATED, ICAL, COATED, IG, W TRANSFO COATED, 850 MM LOSURE PER FA ENGTH (MM) 2438 610 1829	2100 4-0325.05 V-88. RMER, 24 VAC, OI A X 800 MM, PARA N 53 Hz 125 Hz 2 7 10 4 5 6 9	DIRECT DRIVE DIRECT DRIVE PPOSED BLANDE LLEL BLADES, M INSERTION	575/3/60 575/3/60 S, MODEL: TFE DUNTED IN BAI LOSS (dB) 1 kHz 2 kH 23 19 10 12 29 27	GREENHECK         GREENHECK         24-SR, NEMA 4 EN         P, ONE PER FAN, N         P, ONE PER FAN, N         12         12         10         16	VEKTOR-MH-18-4-8 VEKTOR-MH-18-4-8 ICLOSURE MODEL: TFB24-SR, NE	5 ALI	L L
EF-WW-0-1A       PHARMACY DEPARTME         EF-WW-0-1B       PHARMACY DEPARTME         NOTES       1- ISOLATION DAMPER ACT ELECTRIC, 24         MODEL: TFB24-S,ONE PER FAN       2- SURE-AIRE FLOW STATION (NO ELECTRO         3-CSA APPROVAL, UL/CUL-705 "POWER VEN         4-BYPASS AIR PLENUM-SINGLE WALL, STEE         5- COATED WITH LABCOAT, CONCRETE GR/         6- NEMA-3R DISCONNECT, MOUNTED AND W         7- MOTOR COVER         8- WEATHERHOOD OVER BYPASS DAMPER '         9- C/W NEMA PREMIUM EFFICIENT INVERTEI         SHAFT GROUNDING         10- 600 MM ROOF CURB GPFHD, 25 MM INSU         11- FACTORY VIBRATION TEST, 0.15 IN/S112'         12- HIGH WIND RATED (+/- 140 PSF RATING)         IMAR         SIL-SA-1         RTU-3A & 3B       PRI         SIL-SA-3       RTU-3A & 3B       PRI         SIL-SA-3       RTU-3A & 3B       PRI         SIL-SA-1       EF-WU-0-1A & 1B       PRI	NT EXHAUST NT EXHAUST VAC, 2 POS., SR, W/EI NICS), QTY 2 TILATORS". L, SIDE EXHAUST INT Y-RAL 7023, ENTIRE /IRED WITH INLET SCREEN R MOTOR, TEFC, CLA ILATION, MILL FINISH 9, PEAK, FILTER-IN AS KE MODEL CE RHT96/8D CE RLT24/6C CE RMT72/4C CE RSP	UPPER ROOF UPPER ROOF ND SWITCH, W/TRANSFOR AKES UNIT SS F OR GREATER INSULA S MEASURED AT THE FAN I LOCATION PROCESSED STORES O CORRIDOR 0013a LIBRARY 6.2 UPPER ROOF	PLENUM FAN PLENUM FAN MER, MER, AIRFLOV (I/s) 0018 1,800 90 180 2,000	2,000  13- FLORIDA PRODU 14- TEXAS DEPARTM 15- OSHPD SEISMIC 16- EXTENDED LUBE 17- BYPASS SHALL E 18- BYPASS DAMPE 19-ISOLATION DAME 20-VFD C/W NEMA 4 21-MOTOR WITH GR 22-COATED STEEL F  V AIR PRESSURE DROP INCL. SYSTEM EFFECTS (Pa) 27 30 57 25	JCT APPROVAL # MENT OF INSURA CERTIFIED, #OSI E LINES-NYLON BE SIZED FOR 60 R ACTHCD-230-LE HEATED AND VE REASEABLE BEAR FAN PANEL HIGHT (MM) 400 300 250 400	3.31 FL17237 & MIAI NCE PRODUCT P-0233-10 0 L/S, GALVANE -LE, MODULATII E, GALVANEAL, ( ENTILATED ENC NING WIDTH (MM) LI 700 300 250 750	AL, COATED, ICAL, COATED, IG, W TRANSFO COATED, 850 MM LOSURE PER FA ENGTH (MM) 2438 610 1829 914	2100 4-0325.05 V-88. RMER, 24 VAC, OI A X 800 MM, PARA N 53 Hz 125 Hz 2 7 10 4 5 6 9 4 4	DIRECT DRIVE DIRECT DRIVE PPOSED BLANDE LLEL BLADES, M INSERTION 250 Hz 500 Hz 17 25 7 12 14 25 6 12	575/3/60 575/3/60 S, MODEL: TFE DUNTED IN BA LOSS (dB) 1 kHz 2 kH 23 19 10 12 29 27 11 7	GREENHECK GREENHECK 24-SR, NEMA 4 EN P, ONE PER FAN, M P, ONE PER FAN, M 2 12 10 8 10 16 11 16 11	VEKTOR-MH-18-4-8 VEKTOR-MH-18-4-8 VEKTOR-MH-18-4-8 NODEL: TFB24-SR, NE	5 ALI	L
EF-WW-0-1APHARMACY DEPARTMEEF-WW-0-1BPHARMACY DEPARTMENOTES1- ISOLATION DAMPER ACT ELECTRIC, 24 MODEL: TFB24-S,ONE PER FAN2- SURE-AIRE FLOW STATION (NO ELECTRO3-CSA APPROVAL, UL/CUL-705 "POWER VEN4-BYPASS AIR PLENUM-SINGLE WALL, STEE5- COATED WITH LABCOAT, CONCRETE GR/6- NEMA-3R DISCONNECT, MOUNTED AND V7- MOTOR COVER8- WEATHERHOOD OVER BYPASS DAMPER '9- C/W NEMA PREMIUM EFFICIENT INVERTEI SHAFT GROUNDING10- 600 MM ROOF CURB GPFHD, 25 MM INSU11- FACTORY VIBRATION TEST, 0.15 IN/S112' 12- HIGH WIND RATED (+/- 140 PSF RATING)VINIT NO.SIL-SA-1RTU-3A & 3BRTU-3A & 3BRTU-3A & 3BSIL-SA-2RTU-3A & 3BSIL-SA-3RTU-3A & 1BRRISIL-EA-1EF-WW-0-1A & 1BRISIL-EA-3EF-WW-0-1A & 1BRRISIL-EA-3EF-WW-0-1A & 1BRISIL-EA-3EF-WW-0-1A & 1BRISIL-EA-3EF-WW-0-1A & 1BSIL-EA-3EF-WW-0-1A & 1BSIL-EA-3EF-WW-0-1A & 1BSIL-EA-3EF-WW-0-1A & 1BSIL-EA-3EF-WW-0-1A & 1BSIL-EA-3SIL-EA-3SIL-EA-1SIL-EA-3SIL-EA-3SIL-EA-3SIL-EA-3SIL-EA-3SIL-EA-3SIL-EA-3SIL-EA-3SIL-EA-3SIL-EA-3SIL-E	NT EXHAUST NT EXHAUST VAC, 2 POS., SR, W/EI NICS), QTY 2 TILATORS". L, SIDE EXHAUST INT Y-RAL 7023, ENTIRE /IRED WITH INLET SCREEN R MOTOR, TEFC, CLA LATION, MILL FINISH 9, PEAK, FILTER-IN AS KE MODEL CE RHT96/8D CE RLT24/6C CE RMT72/4C CE RSP CE RH24/2B CE RH120/6C	UPPER ROOF UPPER ROOF ND SWITCH, W/TRANSFOR AKES UNIT SS F OR GREATER INSULA S MEASURED AT THE FAN I LOCATION PROCESSED STORES O CORRIDOR 0013a LIBRARY 6.2 UPPER ROOF NON-HD CLEAN ROOM 3	ATION, ATION, RPM (I/s) 0018 1,800 90 180 2.0 50 180	2,000  13- FLORIDA PRODU 14- TEXAS DEPARTM 15- OSHPD SEISMIC 16- EXTENDED LUBE 17- BYPASS SHALL E 18- BYPASS DAMPEI 19-ISOLATION DAMF 20-VFD C/W NEMA 4 21-MOTOR WITH GR 22-COATED STEEL F  V AIR PRESSURE DROP INCL. SYSTEM EFFECTS  (Pa) (Pa) (Pa) (7) (25) (10) (40) (27) (25) (25) (25) (25) (25) (25) (25) (25	JCT APPROVAL # MENT OF INSURA CERTIFIED, #OSI E LINES-NYLON BE SIZED FOR 600 R ACTHCD-230-LE HEATED AND VE REASEABLE BEAR FAN PANEL HIGHT (MM) 400 300 250 400 150 200	3.31 FL17237 & MIAI NCE PRODUCT P-0233-10 00 L/S, GALVANE -LE, MODULATII E, GALVANEAL, ( ENTILATED ENC NING WIDTH (MM) L 700 300 250 750 200 300	3.7         3.7         AI-DADE NOA# 1         EVALUATION R         GAL, COATED,         NG, W TRANSFO         COATED, 850 MN         LOSURE PER FA         ENGTH (MM)         2438         610         1829         914         610         3047	2100 2100 4-0325.05 V-88. RMER, 24 VAC, OI A X 800 MM, PARA N 53 Hz 125 Hz 5 7 10 4 5 6 9 4 4 1 3 12 18	DIRECT DRIVE DIRECT DRIVE DIRECT DRIVE PPOSED BLANDE LLEL BLADES, M INSERTION 250 Hz 500 Hz 17 25 7 12 14 25 6 12 7 13 35 55	575/3/60 575/3/60 S, MODEL: TFE DUNTED IN BAI LOSS (dB) 1 kHz 2 kH 23 19 10 12 29 27 11 7 15 14 43 29	GREENHECK GREENHECK 24-SR, NEMA 4 EN 2, ONE PER FAN, M 2, ONE PER FAN, M 2 12 9 10 8 16 11 8 18 14	VEKTOR-MH-18-4-84 VEKTOR-MH-18-4-84 VEKTOR-MH-18-4-84 ICLOSURE MODEL: TFB24-SR, NE <b>NOTES</b> Hz 2,3,5,6,7,9 2,3,5,6,7,9 1,2,3,4,5,6,8 2,3,5,6,7,8 4 2,3,5,6,7,8	5 ALI	L L
UNIVEE         EF-WW-0-1A         PHARMACY DEPARTME         NOTES         1- ISOLATION DAMPER ACT ELECTRIC, 24         MODEL: TFB24-S, ONE PER FAN         2- SURE-AIRE FLOW STATION (NO ELECTRO         3- ISOLATION DAMPER ACT ELECTRIC, 24         MODEL: TFB24-S, ONE PER FAN         2- SURE-AIRE FLOW STATION (NO ELECTRO         3- COME OF APPROVAL, UL/CUL-705 "POWER VEN         4-BYPASS AIR PLENUM-SINGLE WALL, STEE         5- COATED WITH LABCOAT, CONCRETE GRA         6- NEMA-3R DISCONNECT, MOUNTED AND W         7- MOTOR COVER         8- WEATHERHOOD OVER BYPASS DAMPER         9- C/W NEMA PREMIUM EFFICIENT INVERTEI         SHAFT GROUNDING         10- 600 MM ROOF CURB GPFHD, 25 MM INSL         11- FACTORY VIBRATION TEST, 0.15 IN/S112         12- HIGH WIND RATED (+/- 140 PSF RATING)         UNIT NO.         SERVICE         MA         SIL-SA-1         RTU-3A & 3B         RI         SIL-SA-1         RTU-3A & 3B	NT EXHAUST NT EXHAUST NT EXHAUST VAC, 2 POS., SR, W/EI NICS), QTY 2 TILATORS". L, SIDE EXHAUST INT Y-RAL 7023, ENTIRE /IRED WITH INLET SCREEN R MOTOR, TEFC, CLA ILATION, MILL FINISH 9, PEAK, FILTER-IN AS KE MODEL CE RHT96/8D CE RLT24/6C CE RMT72/4C CE RSP CE RH24/2B CE RH120/6C RM120/6C	UPPER ROOF UPPER ROOF ND SWITCH, W/TRANSFOR AKES UNIT SS F OR GREATER INSULA S MEASURED AT THE FAN I LOCATION PROCESSED STORES O CORRIDOR 0013a LIBRARY 6.2 UPPER ROOF NON-HD CLEAN ROOM LIBRARY 6.2 UPPER ROOF NON-HD CLEAN ROOM LIBRARY 6.2 TION. E OF THE SILENCER.	PLENOM TAN           PLENUM FAN           MER,           MER,           AIRFLOV           (I/s)           0018           1,800           90           180           2,000           2.0           50           180           SILENCERS PRIOR           SILENCER SIZE A	2,000  13- FLORIDA PRODU 14- TEXAS DEPARTM 15- OSHPD SEISMIC 16- EXTENDED LUBE 17- BYPASS SHALL E 18- BYPASS DAMPEI 19-ISOLATION DAMF 20-VFD C/W NEMA 4 21-MOTOR WITH GR 22-COATED STEEL F  V AIR PRESSURE DROP INCL. SYSTEM EFFECTS  (Pa) (Pa) (Pa) (Pa) (Pa) (Pa) (Pa) (Pa	JCT APPROVAL # MENT OF INSURA CERTIFIED, #OSI E LINES-NYLON BE SIZED FOR 60 R ACTHCD-230-LE HEATED AND VE REASEABLE BEAR FAN PANEL HIGHT (MM) 400 300 250 400 150 200	3.31         # FL17237 & MIAi         ANCE PRODUCT         SP-0233-10         I0 L/S, GALVANE         -LE, MODULATII         E, GALVANEAL, (         ENTILATED ENC         RING         WIDTH (MM)         L         700         300         250         750         200         300	3.7         3.7         AL, COATED,         G, W TRANSFO         COATED, 850 MN         LOSURE PER FA         ENGTH (MM)         2438         610         1829         914         610         3047	2100 2100 4-0325.05 V-88. RMER, 24 VAC, OI A X 800 MM, PARA N 53 Hz 125 Hz 2 7 10 4 5 6 9 4 4 1 3 12 18	DIRECT DRIVE DIRECT DRIVE PPOSED BLANDE LLEL BLADES, M INSERTION 250 Hz 500 Hz 17 25 7 12 14 25 6 12 7 13 35 55	575/3/60 575/3/60 S, MODEL: TFE DUNTED IN BAI LOSS (dB) 1 kHz 2 kH 23 19 10 12 29 27 11 7 15 14 43 29	GREENHECK GREENHECK 24-SR, NEMA 4 EN P, ONE PER FAN, M P, ONE PER FAN, M 2 12 9 10 8 16 11 6 5 11 8 18 14	VEKTOR-MH-18-4-8 VEKTOR-MH-18-4-8 VEKTOR-MH-18-4-8 ICLOSURE MODEL: TFB24-SR, NE	5 ALI	L IRE

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				·						
HVAC GRILLES, REGISTERS AND DIFFUSERS										
TAG	MANUFACTURER	MODEL	DUTY	ТҮРЕ	MATERIAL	FACE SIZE	ACCESSORIES			
S-1	E.H PRICE	SPD	SUPPLY	SQUARE PLAQUE DIFFUSER	STEEL	SEE DWGS	1,2,3			
S-2	E.H PRICE	LFDC	SUPPLY	LAMINAR FLOW DIFFUSER HIGH EFFICIENCY FILTER	STAINLESS STEEL	600x600	1,2,3,4,5,6			
S-3	E.H PRICE	LFDC	SUPPLY	LAMINAR FLOW DIFFUSER HIGH EFFICIENCY FILTER	STAINLESS STEEL	300x1200	1,2,3,4,5			
S-4	E.H PRICE	LFDC	SUPPLY	LAMINAR FLOW DIFFUSER HIGH EFFICIENCY FILTER	STAINLESS STEEL	600x1200	1,2,3,4,5,7			
E-1	E.H PRICE	730	EXHAUST	STAINLESS STEEL LOUVERED GRILLE	STAINLESS STEEL	SEE DWGS	1,2,3			
E-2	E.H PRICE	630	EXHAUST	LOUVERED FACE EXHAUST GRILLE	ALUMINUM	SEE DWGS	1,2,3			
E-3 E.H PRICE 80 SERIES EXHAUST EGG CRATE EXHAUST GRILLE ALUMINUM SEE DWGS 1,2,3										
NOTES:										
1 REFE			EOR TYPE OF	CEILING AND/ OR SUSPENSION SYSTEM						

RAWINGS FOR TYPE OF CEILING AND/ OR SUSPENSION SYSTEM. E AND COLOR SELECTED BY THE ARCHITECT. SUBMIT CHART FOR SHOP DRAWINGS. T THE REQUIRED BORDER TYPE, END CAP, FRAME, MOUNTING, FINISH, AND COLOUR PRIOR TO ORDERING

JECTION PORT (INJ) TION.

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![](_page_15_Picture_15.jpeg)

Stantec Consulting Ltd. 400-1620 Dickson Avenue Kelowna, V1Y 9Y2

Tel: (250) 860-3225 • www.stantec.com

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Consultant

Notes

![](_page_15_Figure_22.jpeg)

2	ISSUED FOR CONSTRUCTION	СН	AK	2024.04.10
1	ISSUED FOR TENDER	MD	MB	2023.09.08
lss	ued/Revision	Ву	Appd	YYYY.MM.DD

Permit/Seal

![](_page_15_Picture_25.jpeg)

Client/Project Logo

![](_page_15_Picture_27.jpeg)

Client/Project Northern Health Authority

UHNBC (University Hospital of Northern BC)-Pharmacy upgrade

1475 Edmonton St, Prince George, BC V2M 1S2

#### Title MECHANICAL SCHEDULES

Project No. 144320228

Scale

![](_page_15_Picture_34.jpeg)