

Drawing name: C:\Users\DavidLee\OneDrive - Aperita Consulting Inc\Aperita_Projects\active\Project\20250113 UHN DI CT 64 Replacement\02_drawing\02_working\20250113_UHN DI CT 64 Replacement_M.dwg
Plot date: Aug 04, 2024 - 1:41 pm
Last saved by: DavidLee

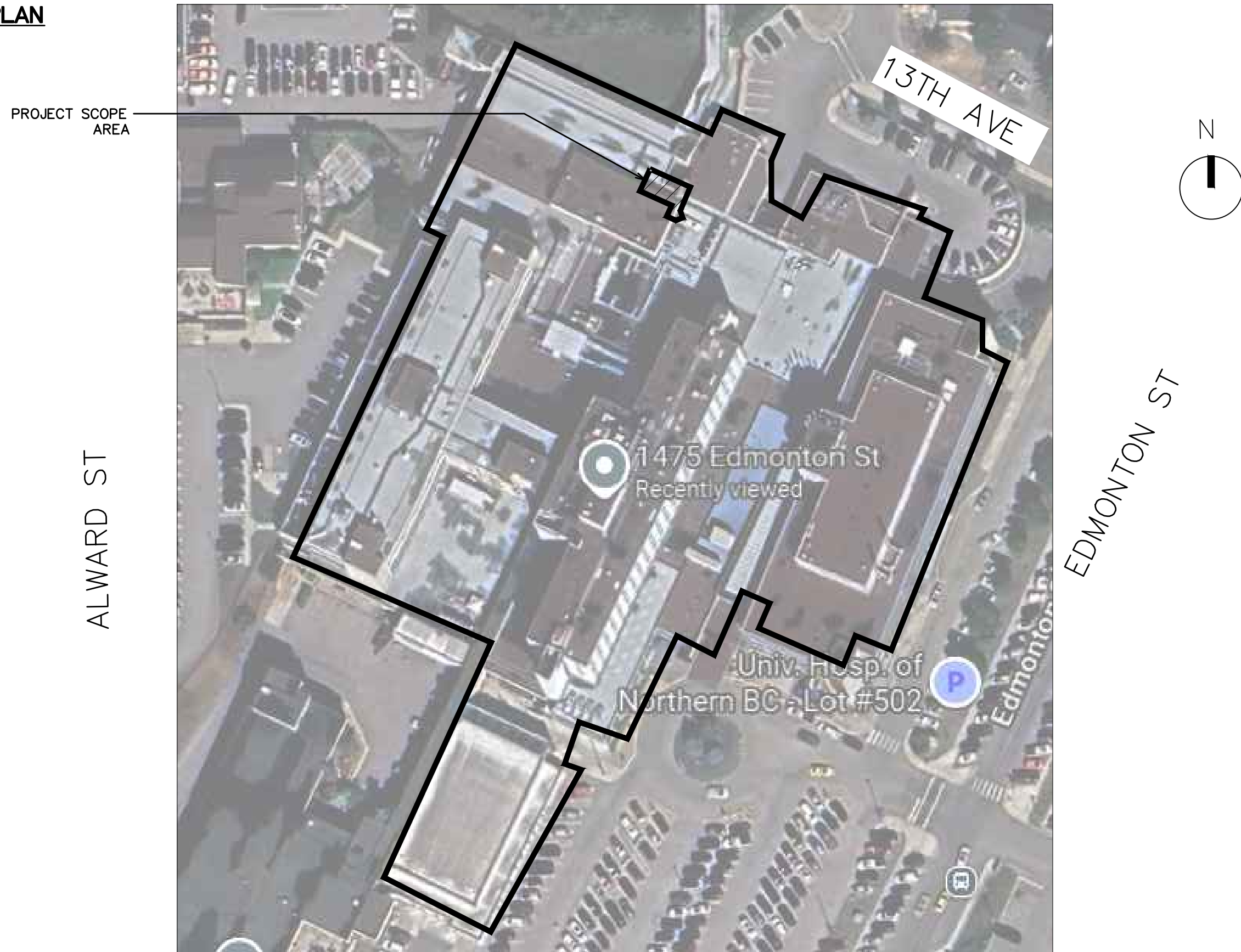
PROJECT NAME

UHN DI CT 64 REPLACEMENT
CIVIC ADDRESS:
1475 EDMONTON STREET, PRINCE GEORGE, BC
SCOPE OF WORK: MECHANICAL AND PLUMBING

CODE STANDARD REFERENCES

- ALL NEW WORK SHALL BE ACCORDANCE WITH THE
- BRITISH COLUMBIA BUILDING CODE 2024
 - NATIONAL PLUMBING CODE OF CANADA 2020
 - ASHRAE 90.1 2019

KEY PLAN



DRAWING LIST

DWG #	DRAWING NAME	SCALE
M01	COVER PAGE	N.T.S.
M02	HVAC PLANS	AS NOTED
M03	PLUMBING PLANS	AS NOTED
M04	FIRE SUPPRESSION PLANS (REFERENCE ONLY)	AS NOTED

EQUIPMENT SCHEDULE

EX. FAN COIL SCHEDULE												
TAG	SERVICE	LOCATION	MANUFACTURER	MODEL	AIRFLOW (L/S)	ESP (PA)	EDB/EWB (°C)	EWL/LWT (°C)	FLOW RATE (L/S)	WPD (KPA)	TOTAL CAPACITY (KW)	ELEC
AW-1	CT CONTROL ROOM	CT CONTROL ROOM	STULZ	OHS-40C	670	75	25.5/18.3	7.2/12.7	.82	62.8	11.7	208/3/60
AW-2	CT SCANNER ROOM	CT SCANNER ROOM	STULZ	OHS-40C	670	75	—	7.2/12.7	.82	62.8	11.7	208/3/60
AW-3	CT SCANNER ROOM	CT SCANNER ROOM	STULZ	OHS-40C	670	75	—	7.2/12.7	.82	62.8	11.7	208/3/60
NOTE: 1. CONTRACTOR TO SET 50% RH, 22°C AS DEFAULT. TEMPERATURE RANGE FROM MIN. 18°C TO MAX. RELATIVE HUMIDITY RANGE FROM 30% TO 60%.												

EX. VAV BOX EQUIPMENT SCHEDULE							
TAG	MANUFACTURER	MODEL	UNIT SIZE	MAX PRIMARY (L/S)	MIN PRIMARY (L/S)	DIFFERENTIAL SP (PA)	MIN OPER PD (PA)
VAV-52	E.H. PRICE	SDV5	5	95	95	37.33	27.37
VAV-AW1	E.H. PRICE	SDV4	4	40	40	6.21	2.49
NOTE: CONTRACTOR TO REBALANCE EXISTING VAV BOX AIR VOLUME AS INDICATED.							

AIR OUTLET SCHEDULE						
TAG	SERVICE	MAKE	MODEL	FINISH	SIZE	NOTES
S-1	SUPPLY AIR GRILLE	E.H. PRICE	PDA	ARCHITECT	INDICATED ON DRAWING	- T-BAR CEILING MOUNT
R-1	RETURN AIR GRILLE	E.H. PRICE	80/F/A	ARCHITECT	INDICATED ON DRAWING	- T-BAR CEILING MOUNT

CLOSE-OUT DOCUMENT LIST

- THE FOLLOWING REQUIREMENTS SHALL BE PROVIDED TO THE ENGINEER FOR COMPLETION OF THE PROJECT.
- THE FOLLOWING ITEMS ARE MANDATORY REQUIREMENTS PRIOR TO ISSUANCE OF THE SCHEDULE LETTER CB:
 - SEISMIC SCHEDULES S-B AND S-C FOR COMPLETE MECHANICAL COMPONENTS, NOTING IN SUPPORT OF THE PROJECT FOR "SEISMIC RESTRAINT FOR MECHANICAL AND PLUMBING COMPONENTS IN THE PROJECT."
 - CONTRACTOR'S FIRE STOPPING LETTER OF COMPLETION
 - ANY DEFICIENCY ITEMS NOTED IN THE MECHANICAL FIELD REPORTS.
 - AIR BALANCING REPORT
 - CONTRACTOR SIGNED MECHANICAL AND PLUMBING (RED LINE) AS-BUILT DRAWINGS
 - THE FOLLOWING ITEMS SHALL BE PROVIDED AT THE END OF THE PROJECT:
 - OPERATION AND MAINTENANCE MANUALS
 - CONTRACTOR'S LETTER OF GUARANTEE AND WARRANTY

MECHANICAL LEGENDS

HVAC SYMBOLS			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	NEW DUCT		90° RADIUS ELBOW (R = 1.5W)
	EXISTING DUCT TO REMAIN (HAVE (EX.) PREFIX)		90° RECTANGULAR ELBOW (WITH TURNING VANES)
	EXISTING DUCT TO BE REMOVED (HAVE (D.) PREFIX)		DUCT INCLINED RISE OR DROP IN DIRECTION OF FLOW
	FUTURE DUCT (HAVE (F.) PREFIX)		FLEXIBLE DUCT
	DUCT SIZE (RECTANGULAR/ROUND)		BRANCH CONNECTION (RECTANGULAR DUCT)
	DUCT SIZE (OVAL WIDTHxDEPTH)		BRANCH WITH RECTANGULAR TO ROUND CONNECTION
	RECTANGULAR SUPPLY AIR DUCT ELBOW UP & DOWN		ROUND DUCT SHOE TAP TAKEOFF CONNECTION
	RECTANGULAR RETURN AIR DUCT ELBOW UP & DOWN		ROUND DUCT WITH CONICAL SPIN-IN CONNECTION
	RECTANGULAR EXHAUST AIR DUCT ELBOW UP & DOWN		CONICAL SPIN-IN BRANCH WITH RECTANGULAR TO ROUND CONNECTION
	ROUND SUPPLY AIR DUCT ELBOW UP & DOWN		ROUND DUCT WITH CONICAL SPIN-IN CONNECTION
	ROUND SUPPLY AIR DUCT ELBOW UP & DOWN		ACOUSTICALLY LINED DUCT
	ACCESS PANEL / DOOR		THERMAL INSULATED DUCT
	FLEXIBLE CONNECTION		
	BALANCING DAMPER MOTORIZED DAMPER		
	FIRE DAMPER, SMOKE DAMPER, FIRE & SMOKE DAMPER		
	MOTORIZED DAMPER		

HVAC SYMBOLS			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DOOR GRILLE DOOR UNDERCUT		SUPPLY AIR DIFFUSER
	THERMOSTAT, HUMIDISTAT VARIABLE SPEED SWITCH		RETURN AIR GRILLE
	OCCUPANCY SENSOR, REVERSE THERMOSTAT, SWITCH		EXHAUST AIR GRILLE
	CONTROL WIRING		LINEAR SLOT DIFFUSER
	EQUIPMENT/FIXTURE TAG		S-SHAPE, L-SHAPE, AND U-SHAPE ACOUSTICALLY LINED AIR TRANSFER DUCT
	AIR OUTLET TAG		
	AIR FLOW (L/S)		

PLUMBING SYMBOLS		DEMOLITION SYMBOLS	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	CAP-OFF		CONNECT TO EXISTING, LIMIT TO DEMOLITION, DISCONNECT FROM EXISTING
	ISOLATION VALVE		EXISTING TO BE REMOVED
	NEW DOMESTIC HOT WATER SUPPLY		RELOCATE EXISTING TO NEW LOCATION
	EXISTING DOMESTIC HOT WATER SUPPLY		
	NEW DOMESTIC COLD WATER SUPPLY		
	EXISTING DOMESTIC COLD WATER SUPPLY		
	VENT LINE		
	NEW SANITARY LINE		
	NEW SANITARY LINE BELOW SLAB		
	EXISTING SANITARY (ABOVE GRADE/FLOOR)		
	EXISTING STORM (ABOVE GRADE/FLOOR)		
	EXISTING SANITARY (BELOW GRADE/FLOOR)		
	FLOPOCLEANOUT		
	BALANCING VALVE		
	CHECK VALVE		
	HEAT TRACE		
	REDUCED PRESSURE BACKFLOW PREVENTER		

FIRE SUPPRESSION SYMBOLS			
	WALL MOUNTED FIRE EXTINGUISHER WITH/WITHOUT CABINET		PENDANT SPRINKLER
	UPRIGHT SPRINKLER		

GENERAL NOTES

- PROVIDE OPENINGS IN NEW FULL-HEIGHT WALLS FOR EXISTING DUCTWORK, PIPES AND CONDUIT TO PASS THROUGH. SEAL AROUND PENETRATIONS FOR SOUND ATTENUATION AND SMOKE SEPARATION AS REQUIRED.
- 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 ON SITE PRIOR TO COMMENCING WITH WORK.
- LIGHTING LOCATION TAKE PRECEDENCE OVER MECHANICAL SERVICES OR PIPES/DUCTS. ALLOW TO RELOCATE NEW OR EXISTING TO SUIT.
- PATCH AND MAKE GOOD FINISH ON ANY DAMAGED CEILING/WALL FOR NEW MECHANICAL WORK.
- BRANCH DUCT SIZE TO MATCH THAT OF DIFFUSER NECK SIZE.
- BALANCE DIFFUSERS TO INDICATED AIR VOLUME (L/S).
- MODIFY THE SIZE AND ROUTING OF NEW 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.
- PROVIDE NEW BALANCING DAMPER TO EACH TAKE OFF FROM S/A MAIN TO AIR OUTLETS AND BALANCE AIR FLOW TO DESIGN RATE SHOWN ON DRAWING. PROVIDE NEW BALANCING DAMPERS TO EXISTING TAKE-OFFS AS REQUIRED.
- EXISTING MECHANICAL UNIT TO BE TESTED BY QUALIFIED HVAC TECHNICIANS FOR PROPER CONTROLLED OPERATION. DEFICIENCIES TO BE REPORTED IN WRITING TO LANDLORD.
- CONTRACTOR TO CO-ORDINATE THERMOSTAT LOCATION WITH INTERIOR DESIGNER TO AVOID INSTALLATION OVER DIMMER SWITCHES OR HEAT EMITTING DEVICES PRIOR TO INSTALLATION.
- CONTRACTOR SHALL REVIEW THE MECHANICAL DRAWINGS IN CONJUNCTION WITH THE ARCHITECTURAL AND ELECTRICAL DRAWINGS AND VERIFY SITE CONDITIONS BEFORE SUBMITTING A BID. REPORT ANY DISCREPANCY TO CONSULTANT DURING PRICING.
- FLEXIBLE DUCT SHALL BE NO MORE THAN 1.5 METER IN LENGTH.
- CONTRACTOR TO PROVIDE FLEX CONNECTIONS TO ALL EQUIPMENT AT CONNECTIONS TO DUCTS AND PIPES.
- PROVIDE COMPLETE AIR BALANCING OF THE HVAC SYSTEM. THIS INCLUDES ALL AIR OUTLETS, TERMINAL UNITS AND FANS. BALANCING SHALL BE PROVIDED BY BASE BUILDING BALANCING CONTRACTOR.
- NOTIFY THE BUILDING ENGINEER OF ANY ACTIVITY THAT MAY AFFECT THE FIRE ALARM SYSTEM (EG. WELDING, GRINDING OR SOLDERING) 48 HOURS IN ADVANCE.
- PROVIDE INSULATION OVER ALL NEW AND EXISTING DUCTWORK, IF MISSING OR DAMAGED, IN THE PROJECT AREA C/W VAPOR BARRIER. REFER TO SPECIFICATION FOR MORE INFO ON PIPING AND DUCTWORK INSULATION REQUIREMENTS.
- PROVIDE X-RAY OF ALL REQUIRED PENETRATION OF THE FLOOR TO AVOID DAMAGING IN-SLAB SERVICES AS WELL AS REINFORCING STEEL. COORDINATE X-RAYS WITH THE BUILDING OPERATING ENGINEER WITH 48 HOURS NOTICE. ALL SLAB PENETRATIONS MUST BE FIRE STOPPED AND WATER SEALED TO MAINTAIN THE INTEGRITY OF THE SLAB.
- CONTRACTOR TO INFORM CONSULTANT 24 HOURS PRIOR TO INITIAL PRESSURE TEST, AND CONFIRM TYPE OF TEST AND PRESSURE BEING APPLIED FOR PLUMBING WORK. CONTRACTOR TO USE THE PRESSURE GAUGE FROM BUILDING ENGINEERING STAFF. COORDINATE WITH BASE BUILDING CONSTRUCTION MANAGER AND FOLLOW THE BUILDING GUIDELINES FOR MORE INFORMATION.
- ALL WORK SHALL ALSO CONFORM TO THE REQUIREMENTS SET OUT IN THE BASE BUILDING TENANT CONSTRUCTION GUIDELINES.
- SEISMICALLY RESTRAIN ALL DIFFUSERS AND ANY OTHER CEILING EQUIPMENT. CONTRACTOR IS TO HIRE A SEISMIC ENGINEER AND PROVIDE SCHEDULE B & C-B FROM ENGINEER.
- ALL WORK SHALL CONFORM TO CURRENT EDITION OF BC BUILDING CODE AND OTHER LEGAL REGULATIONS AND BYLAWS APPLICABLE TO THE WORK AND WILL MEET THE AUTHORITIES HAVING JURISDICTION
- ALL WORK IN THE SCOPE OF THIS PROJECT SHALL BE COMPLIANT WITH ASHRAE 90.1 ENERGY STANDARD AND LOCAL ENERGY STANDARD.
- ALL WATER PIPING SHALL BE INSULATED AS PER THE MECHANICAL SPECIFICATIONS.
- ENSURE COMPLIANCE WITH ALL CLEARANCE REQUIREMENTS FOR BACKFLOW PREVENTION SERVICE AND TESTING. ALL NEW BACKFLOW PREVENTION DEVICES MUST BE TESTED, INSPECTED, AND TAGGED BY A CERTIFIED TECHNICIAN. SUBMIT TESTING DOCUMENTATION TO THE CITY PLUMBING AUTHORITY AS REQUIRED TO SATISFY PERMITTING REQUIREMENTS.
- CONTRACTOR SHALL VERIFY THE EXISTING SITE CONDITIONS AND INVESTIGATE THE FEASIBILITY OF THE NEW WORK DURING THE TENDER. NOTIFY THE CONSULTANT TEAM IF ANY DISCREPANCIES FOUND PRIOR TO TENDER CLOSING.

architect

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Vancouver Montréal

5	26-08-04	ISSUED FOR TENDER
4	26-07-24	ISSUED FOR BP
3	26-07-02	ISSUED FOR 90% CD
2	26-02-10	ISSUED FOR 40% CD
1	26-01-14	ISSUED FOR 30% CD

#	Date	Description	Rev
1	26-01-14	ISSUED FOR 30% CD	

ISSUE
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APERITA

UNIT 205, 3003 ST. JOHNS STREET,
PORT MOODY, BC V3H 2C4
E: INFO@APERITA.COM
PERMIT TO PRACTICE NUMBER: 1004960

BC-1372
UHN- DI CT 64 REPLACEMENT
1475 EDMONTON ST
PRINCE GEORGE, BC- V2M 1S2

seal

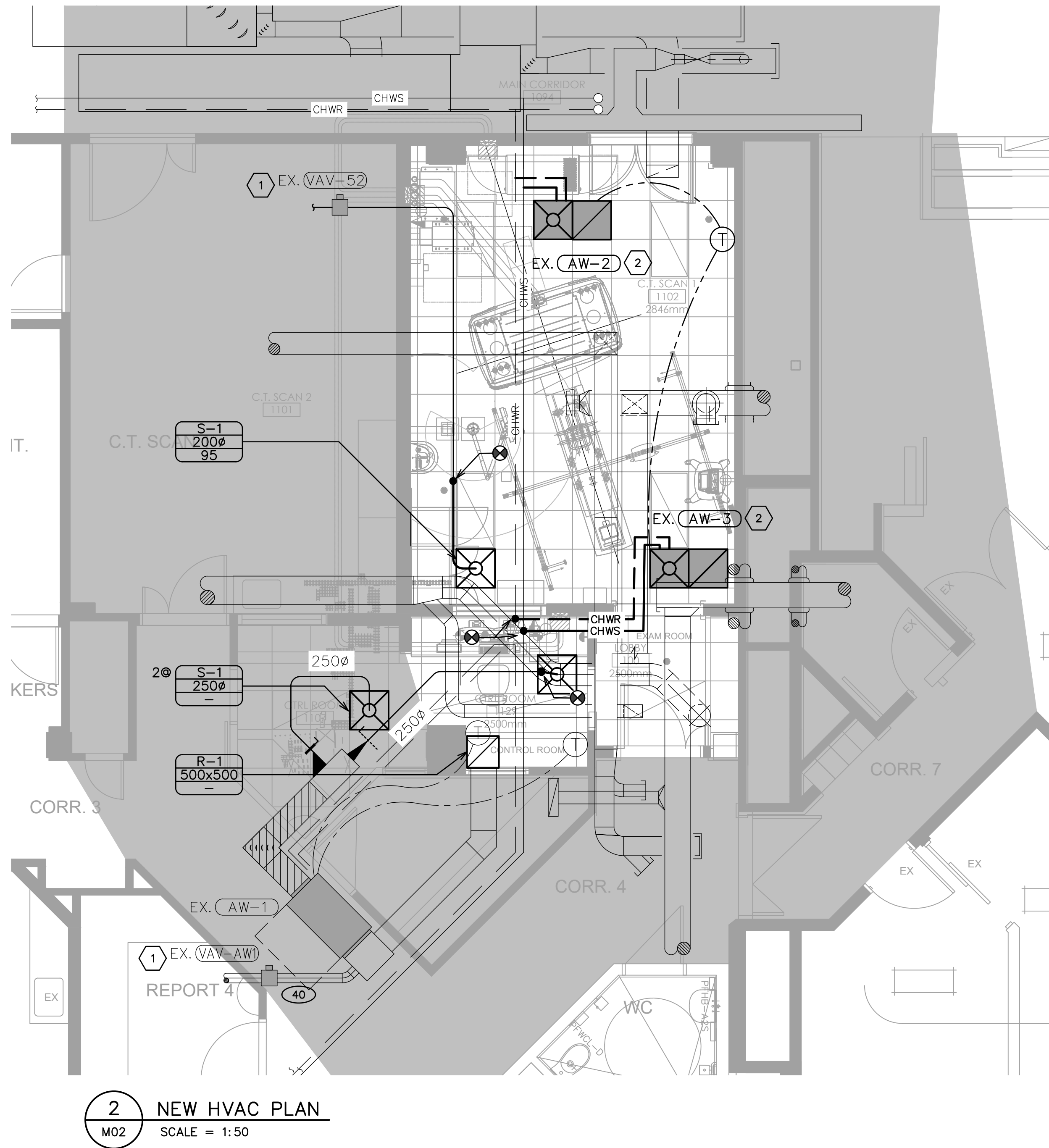
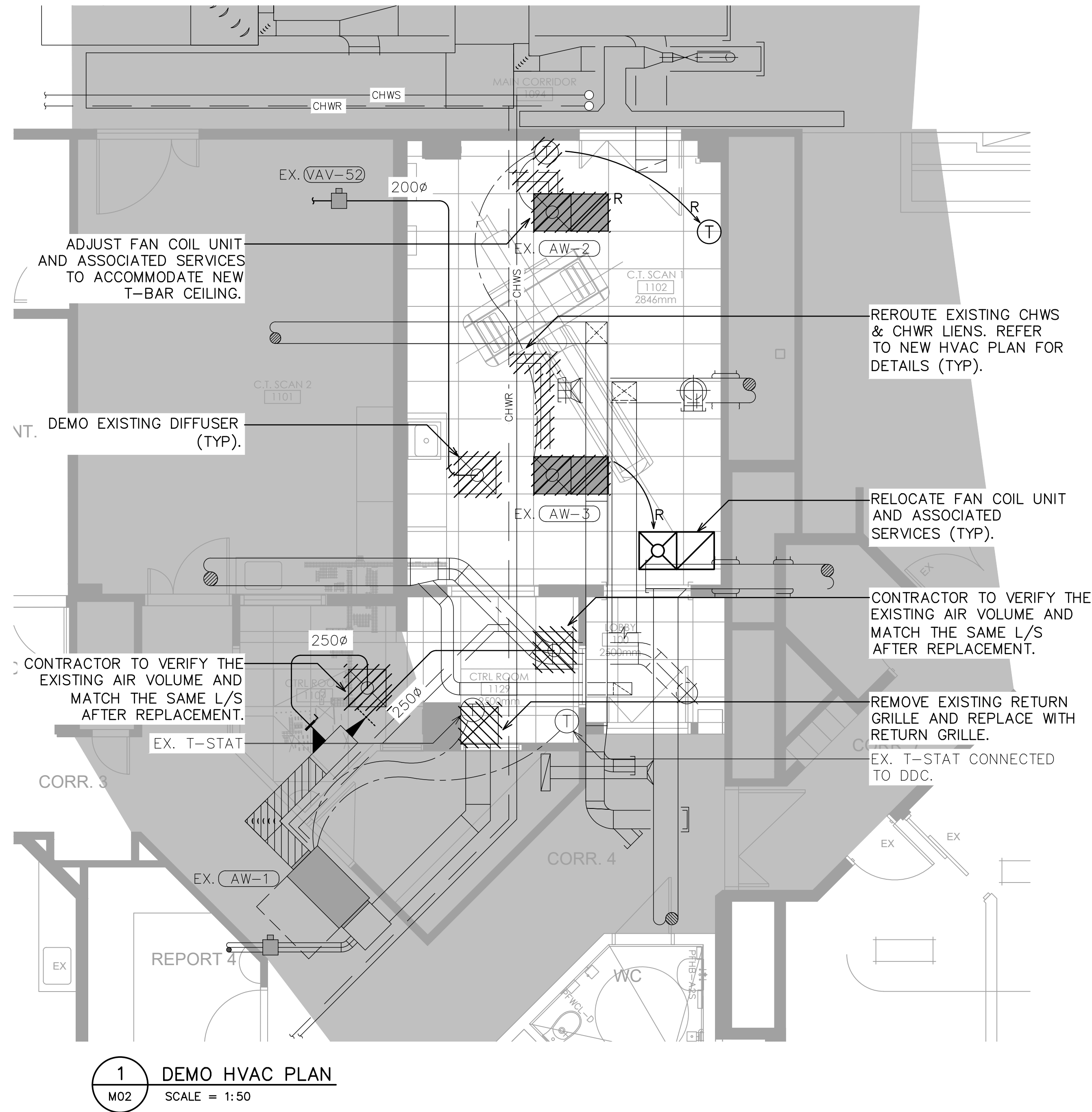


project number 20250113

sheet title
COVER PAGE

date 2026-08-04
scale N.T.S.
drawn by DL
checked by DK
sheet number
M01
rev no.

Drawing name: C:\Users\DavidLee\OneDrive - Aperita Consulting Inc\Aperita_Projects\active\Project 20250113 UHN DI CT 64 Replacement\02_drawing\02_working\20250113_UHN DI CT 64 Replacement_M.dwg
Plot date: Aug 04, 2026 - 1:42pm
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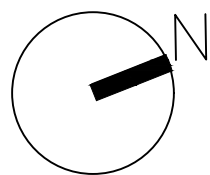
AIR CHANGE RATE: CT SCAN 1102		
	OUTDOOR AIR CHANGE/H	TOTAL AIR CHANGES/H
MINIMUM REQUIREMENT	3	9
CT SCAN ROOM 1102	3.06	46

DRAWING NOTES

- ALL SUPPLY AND RETURN AIR DUCT TO BE THERMALLY INSULATED.
- NEW DUCTWORK TO BE INSTALLED AS HIGH AS POSSIBLE TO THE CEILING SLAB AND TO RUN THROUGH OWSJ. CONTRACTOR TO VERIFY THE STRUCTURAL LAYOUT ON SITE PRIOR TO INSTALLATION.
- BRANCH DUCT SIZE TO MATCH THAT OF DIFFUSER NECK SIZE.
- MODIFY THE SIZE AND ROUTING OF NEW DUCTWORK AS REQUIRED TO SUIT THE SITE CONDITIONS WITHOUT EXTRA COST TO THE OWNER. PROVIDE ADEQUATE OFFSETS, AND TRANSITIONS ON NEW DUCTWORK AS REQUIRED TO SUIT SITE CONDITIONS.
- ALL DUCT PENETRATION THROUGH WALLS SHALL BE FIRE STOPPED.
- CONTRACTOR SHALL VERIFY AND CONFIRM ON SITE LOCATIONS OF ALL EXISTING HVAC EQUIPMENT, DUCTS, AND CONTROLS ON SITE PRIOR TO START OF DEMOLITION.

SPECIFIC NOTES

- REBALANCE EXISTING VAV BOX TO INDICATED O/A VOLUME (L/S)
- PROVIDE CHW/CHR RE-BALANCING.



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#	Date	Description	Rev
1	24.08.04	ISSUED FOR TENDER	
2	24.07.24	ISSUED FOR BP	
3	24.07.02	ISSUED FOR 90% CD	
4	24.02.10	ISSUED FOR 40% CD	
5	24.01.14	ISSUED FOR 30% CD	

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PERMIT TO PRACTICE NUMBER: 1004960

BC-1372
UHN- DI CT 64 REPLACEMENT
1475 EDMONTON ST
PRINCE GEORGE, BC- V2M 1S2



project number 20250113
sheet title HVAC PLANS

date 2026-08-04
scale AS NOTED
drawn by DL
checked by DK
sheet number M02
rev no.

PLUMBING LINES ARE DESIGNED AS PER THE 2020 NATIONAL PLUMBING CODE

REMARKS	C/W WALL MOUNT CARRIER: <u>JAY R. SMITH MFG.CO. SQ-0-4437.</u> HIGH-LIMIT THERMOSTATIC MIXING VALVE C/W CHECK VALVE SET TO 100F
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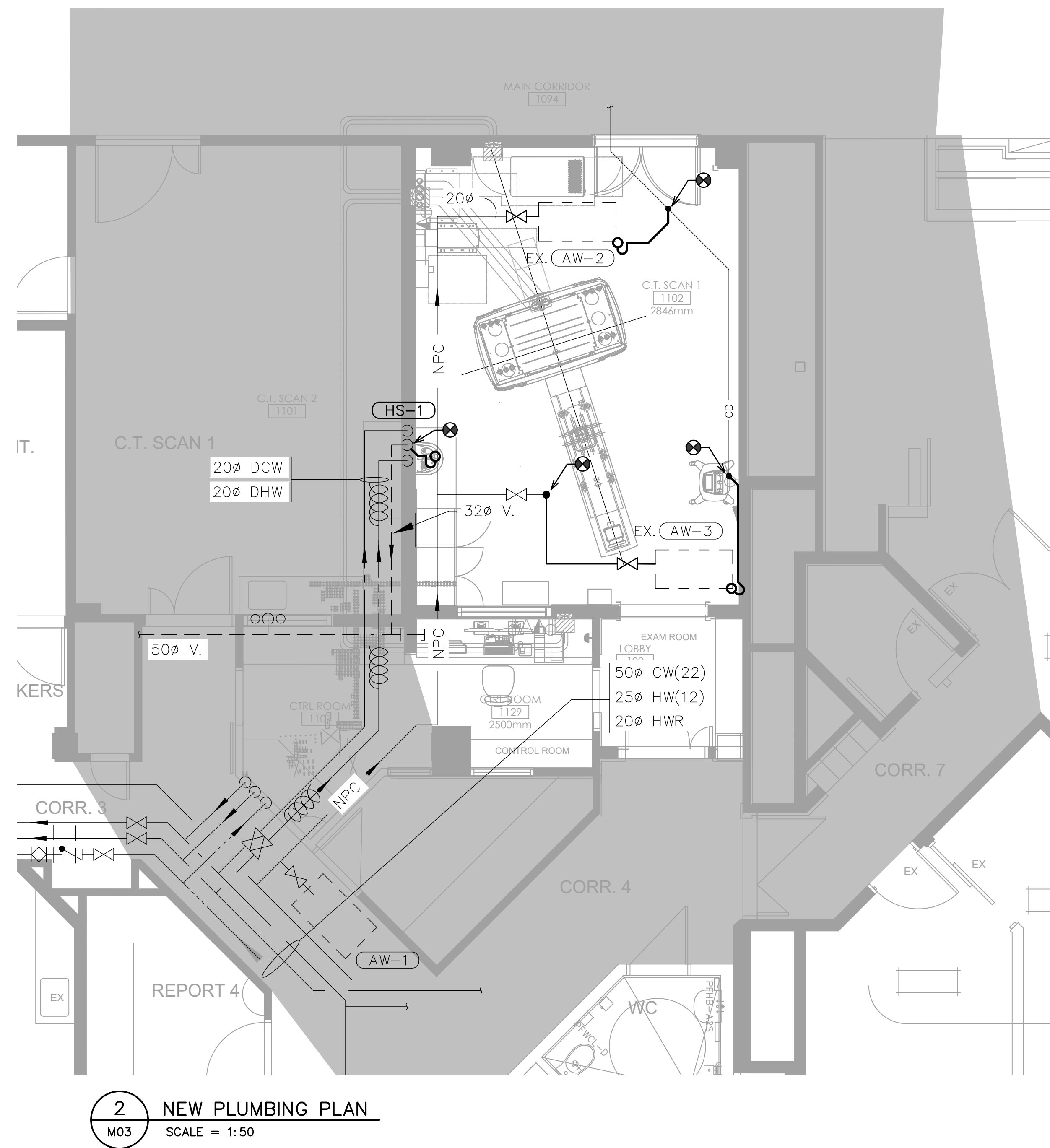
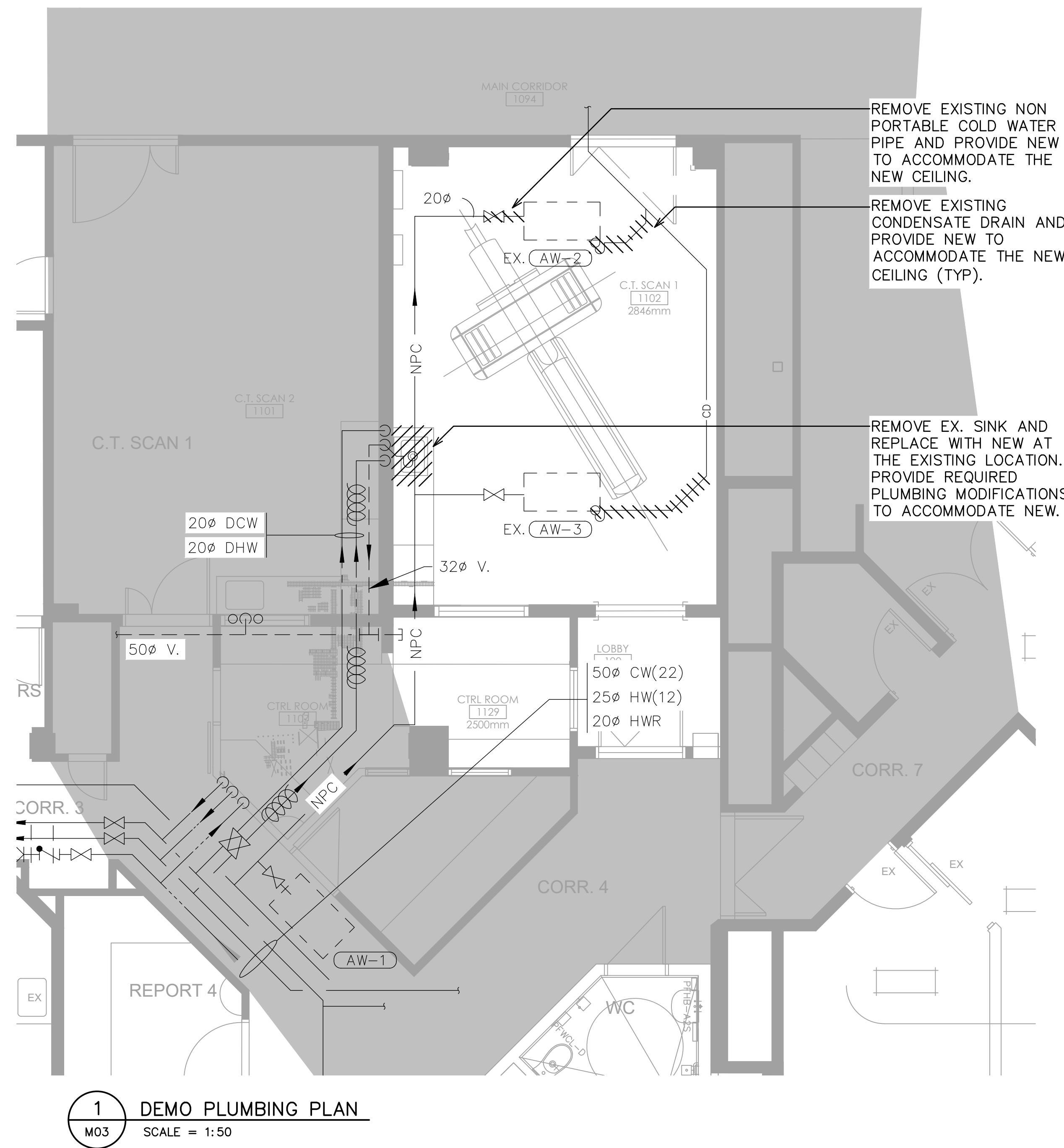
1. PLUMBING GENERAL NOTES SHALL APPLY TO ALL PLUMBING DRAWINGS.
2. ALL PLUMBING REVISIONS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE PLUMBING CODE AND TO THE APPROVAL OF AUTHORITIES HAVING JURISDICTION.
3. COORDINATE ALL PLUMBING WORK WITH ALL OTHER TRADES PRIOR TO START OF WORK.
4. COORDINATE PLUMBING FIXTURE ROUGH-IN REQUIREMENTS WITH PLUMBING FIXTURE SHOP DRAWINGS AS REQUIRED PRIOR TO START OF WORK.
5. ALL P-TRAPS SHALL BE INSULATED.
6. ALL DOMESTIC HOT AND COLD WATER PIPES SHALL BE PROVIDED WITH INSULATION AND VAPOUR SEAL AS PER MECHANICAL SPECIFICATIONS.
7. FIXTURE INSTALLATION SHALL INCLUDE ALL ASSOCIATED FLANGES, BALL VALVES, ANGLE STOPS, BRAIDED FLEX SUPPLIES, ESCUTCHEONS, ETC..
8. PROVIDE FULL INSULATION FOR CONDENSATE DRAINS FROM EXISTING FAN COILS.
9. CONTRACTOR SHALL VERIFY AND CONFIRM ON SITE LOCATIONS OF ALL EXISTING PLUMBING SERVICES, PIPES, MAINS, AND CONNECTION POINTS ON SITE PRIOR TO START OF DEMOLITION.

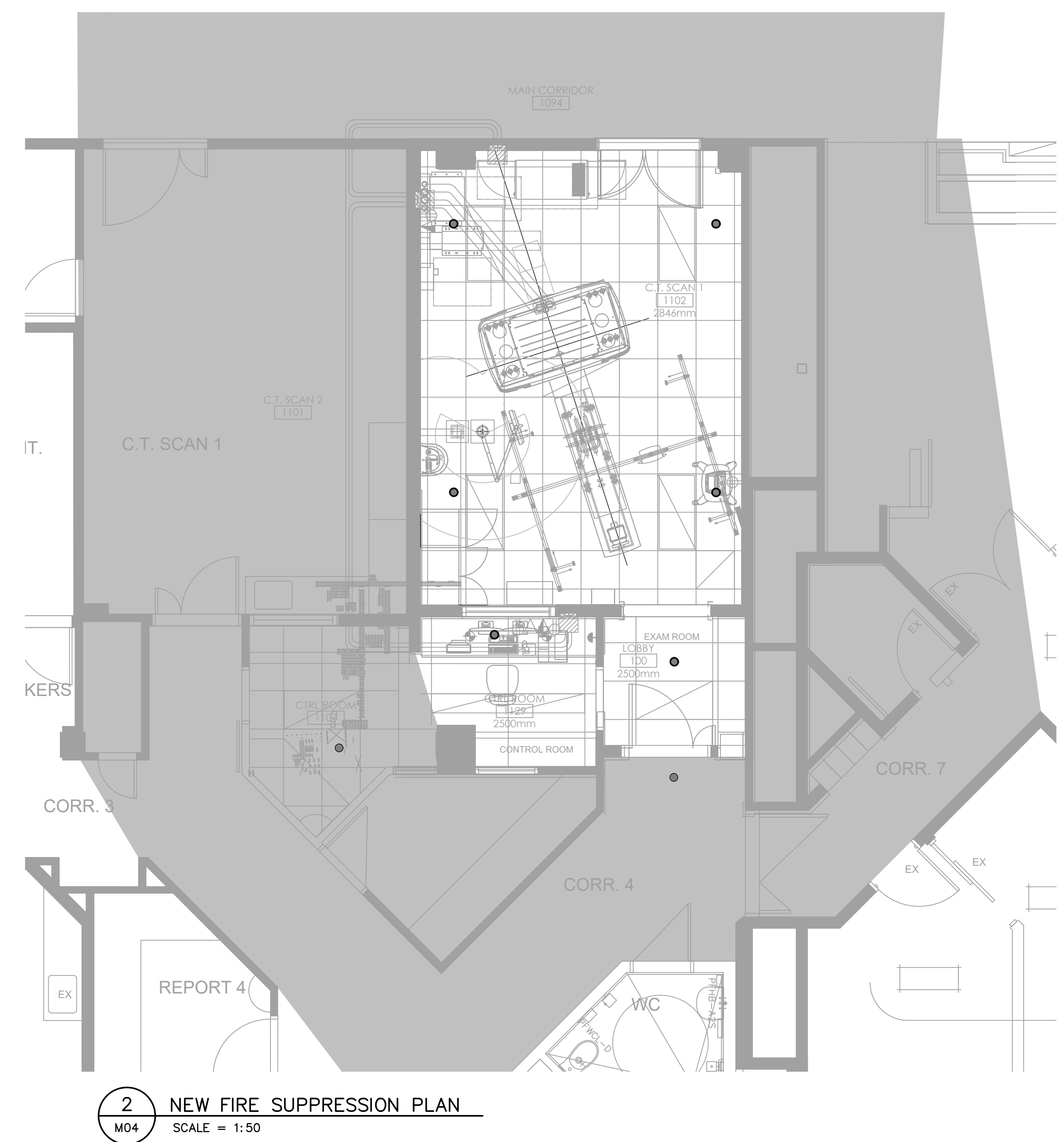
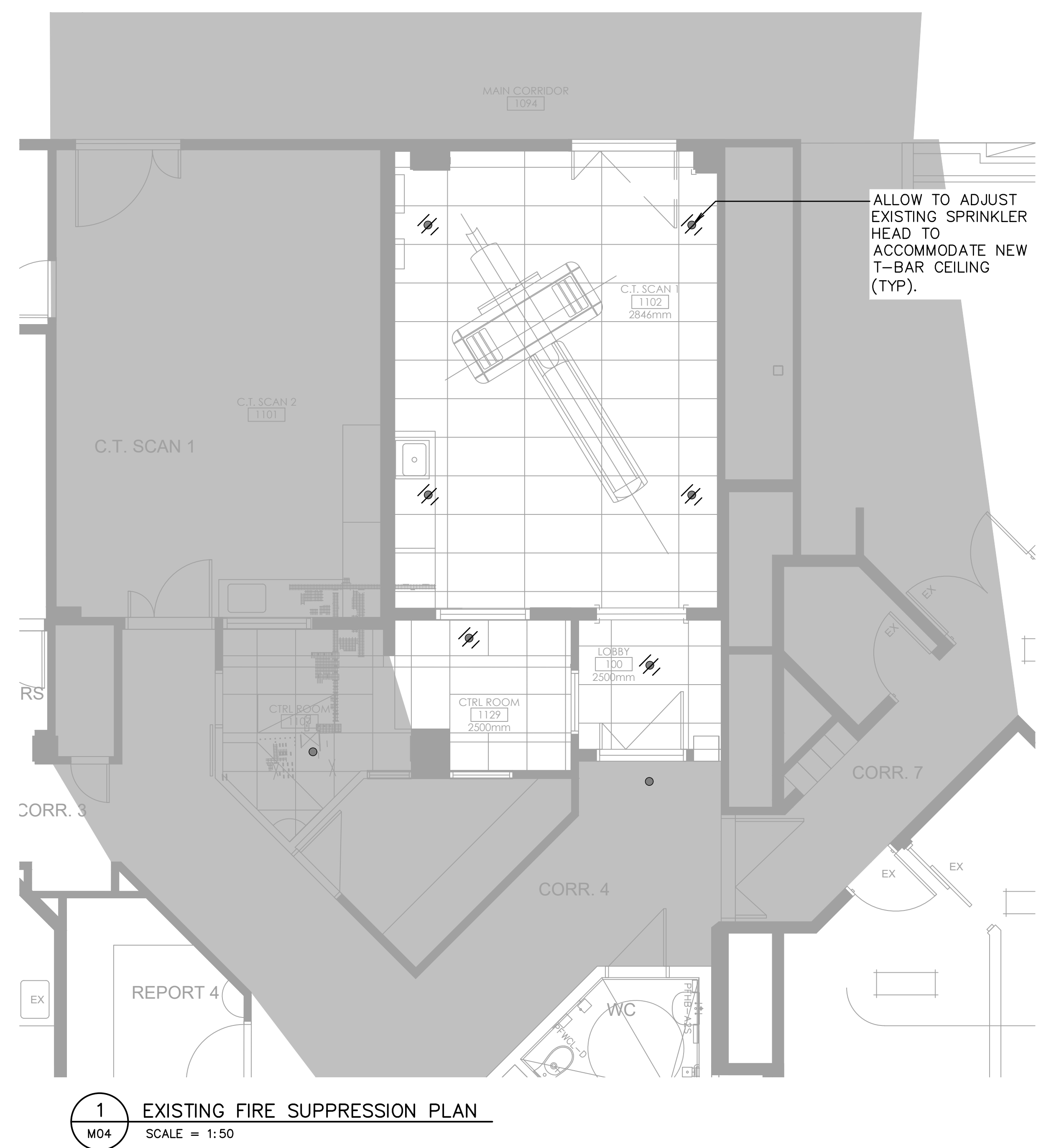
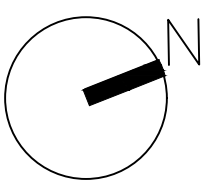
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1	26-01-16	ISSUED FOR 30% CD	
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BC-1372
UHN- DI CT 64 REPLACEMENT
1475 EDMONTON ST
PRINCE GEORGE, BC- V2M 1S2

	
project number	
20250113	
sheet title	
FIRE SUPPRESSION PLANS (REFERENCE ONLY)	
date	sheet number
2025-08-04	
scale	M04
drawn by	DL
checked by	DK
	rev no.