

LEGENDS, SITE PLAN AND NTS

1:50

EQUIPMENT SCHEDULE

BLOCK B MECHANICAL

ROOM POWER PLANS

BLOCK D POWER PLANS

PROJECT INFORMATION

2645 DOLLARTON HWY., NORTON

INLET FRONTING SAID LOTS.

A PORTION OF LOT 5, BLOCK D, DL 469 &

611, PI 8885 AND A PORTION OF BURRARD

SAID LOTS 4 -12 LYING SOUTH OF THE HIGHWAY IN REF. PLAN 2383, BLOCK 4, DL 469, PI 1532 AND A PORTION OF BURRARD

E-3 BLOCK C POWER PLANS

E-5 BLOCK E POWER PLANS

VANCOUVER, BC

INLET FRONTING

**CIVIC ADDRESS:** 

LEGAL DESCRIPTION:

CONSULTANT: Project No: 2014099 **Prism** ENGINEERING saving you energy

Environment and Climate Change Canada

Management Division des biens immobilier

Technical Services Services Techniques

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Division Gestion

2017/04/21

2017/03/03

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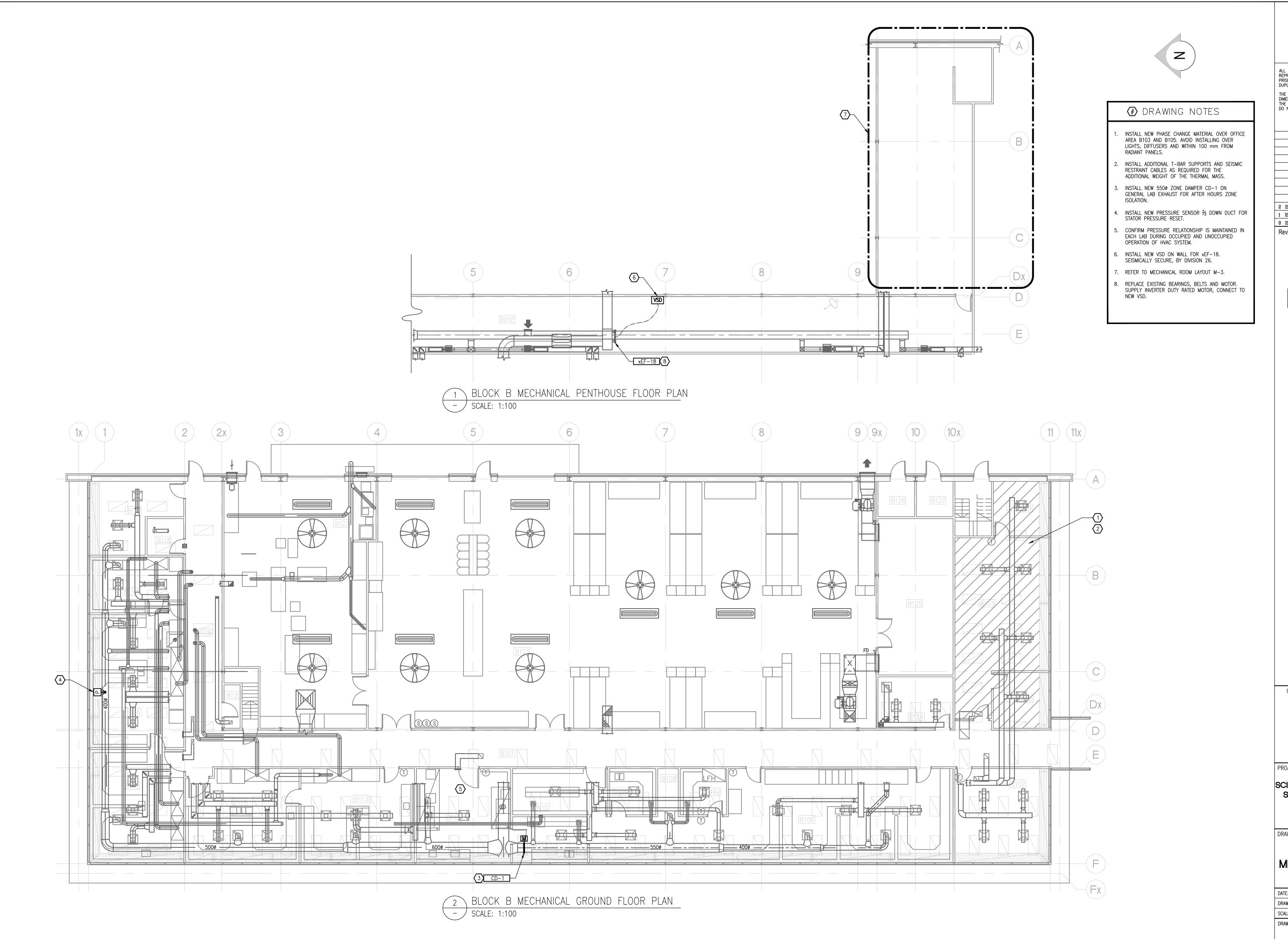
I PROJECT: PACIFIC ENVIRONMENTAL SCIENCE CENTRE MECHANICAL SYSTEMS ENERGY UPGRADE

> 2645 DOLLARTON HWY. NORTH VANCOUVER, BC

DRAWING TITLE:

LEGEND, DRAWING LIST AND SITE PLAN

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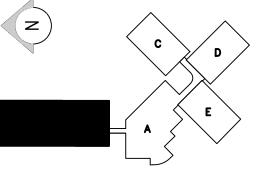


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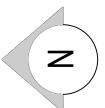
PROJECT:
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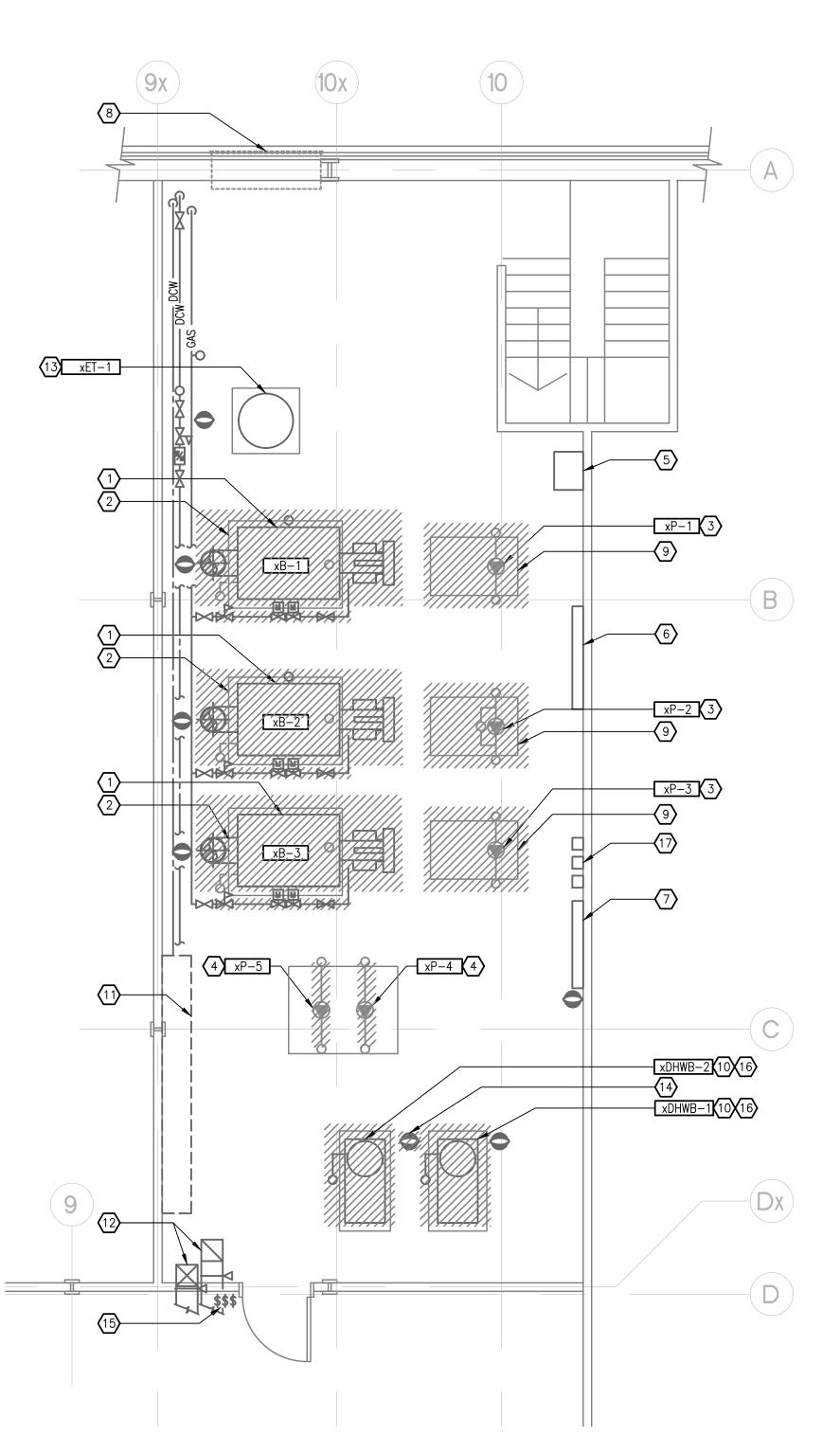
2645 DOLLARTON HWY. NORTH VANCOUVER, BC

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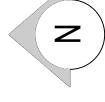
**BLOCK B** MECHANICAL PLANS

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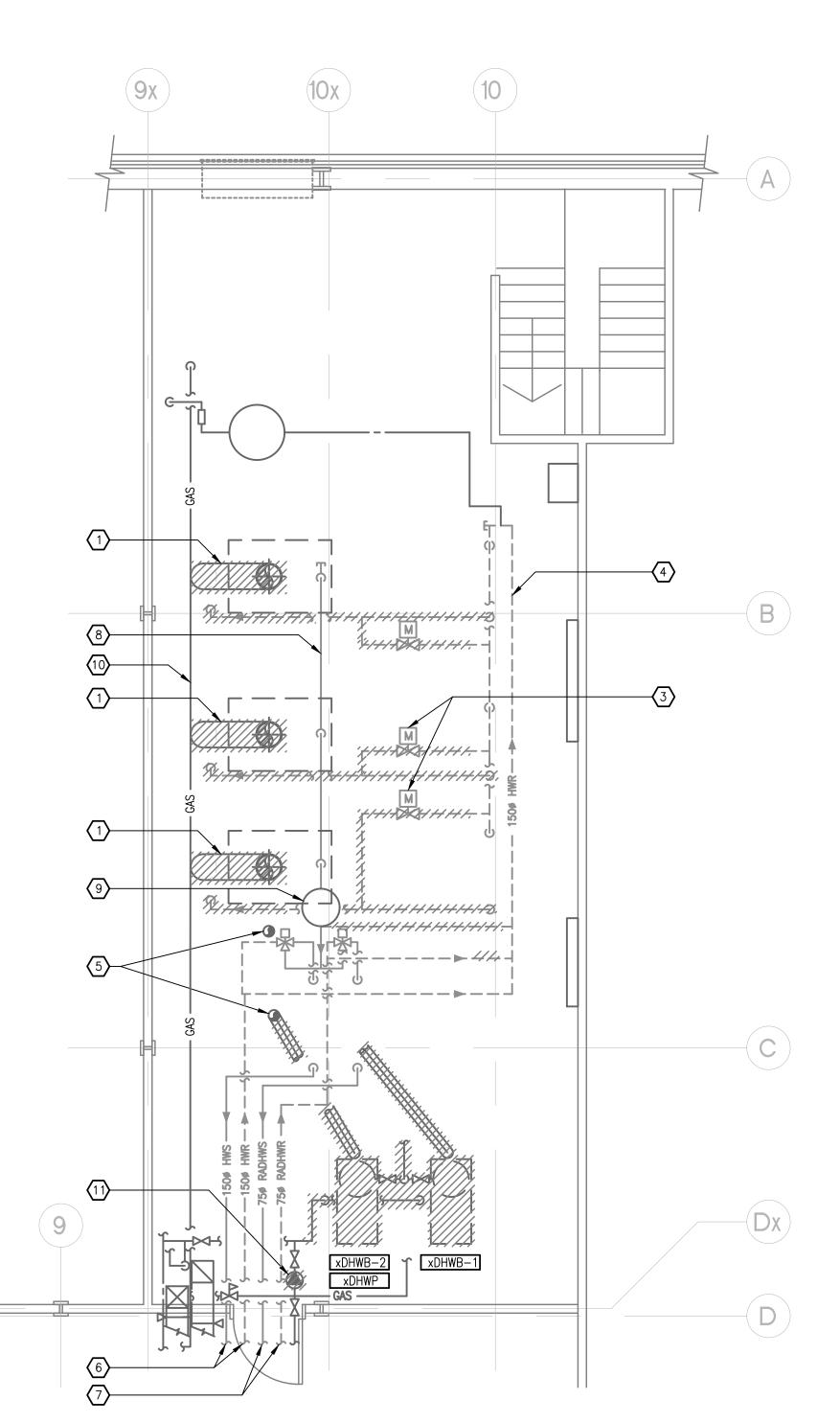


1 BLOCK B PENTHOUSE MECHANICAL ROOM - LOWER LEVEL PLAN - DEMO - SCALE: 1:50

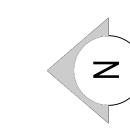


## # DRAWING NOTES

- REMOVE EXISTING BOILER xB-1, xB-2, xB-3, ASSOCIATED CONTROLS, PIPING, BURNER, ALL CONNECTORS AND GAS TRAIN.
- RETAIN EXISTING HOUSEKEEPING PAD.
- REMOVE EXISTING PRIMARY PUMPS xP-1, xP-2, xP-3 AND ASSOCIATED PIPING. CAP AT HEADER.
- 4. REMOVE EXISTING SECONDARY PUMPS xP-4,
- 5. EXISTING DATA CABINATE TR.
- 6. EXISTING ELECTRICAL PANEL TR.
- 7. EXISTING DDC CONTROL PANEL TR.
- REMOVE EXISTING 1500X2000 LOUVER FOR BOILER ACCESS TO MECHANICAL PENTHOUSE. INCREASE SIZE OF OPENING AS REQUIRED FOR INSTALLATION OF THE BOILER. ALLOW FOR A MINIMUM OF 250mm ADDITIONAL CLEARANCE.
- REMOVE EXISTING HOUSEKEEPING PAD. SMOOTH SURFACE AND PAINT TO MATCH EXISTING FLOOR.
- 10. REMOVE EXISTING DOMESTIC WATER HEATER IN PHASED APPROACH. REFER TO SPECIFICATIONS.
- 11. EXISTING PRV ASSEMBLY TR.
- 12. EXISTING S/A TO B124 BELOW TR.
- 13. EXISTING HEATING SYSTEM EXPANSION TANK
- 14. REMOVE EXISTING FUNNEL AND REPLACE WITH NEW FLOOR DRAIN GRID.
- 15. EXISTING HOT WATER BOILER SHUT DOWN SWITCHES TO BE REMOVED AND REPLACED.
- 16. REMOVE PORTION OF HOUSEKEEPING PAD AND PROVIDE NEW ONE AS REQUIRED FOR THE NEW WATER HEATERS .
- 7. REMOVE EXISTING PUMP DISCONNECTS, REFER TO ELECTRICAL DRAWINGS.

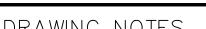


2 BLOCK B PENTHOUSE MECHANICAL ROOM - UPPER LEVEL PLAN - DEMO - SCALE: 1:50

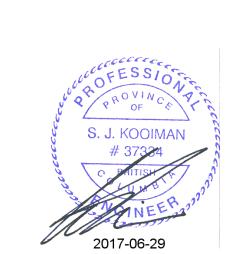


## # DRAWING NOTES

- FOR NEW DOMESTIC HEATERS.
- PIPING. CAP AT HEADER.
- 4. RETAIN EXISTING HWR HEADER.
- 5. EXISTING 1500 DOMESTIC HOT WATER HEATER FLUES TO BE RE-USED FOR NEW CONDENSING WATER HEATERS.
- . EXISTING 750 HWS&HWR TO/FROM RADIANT
- 8. RETAIN EXISTING 1500 HWS HEADER AT HIGH
- 9. RETAIN EXISTING AIR SEPARATOR AT HIGH LEVEL. 10. EXISTING 650 GAS LINE AT HIGH LEVEL SERVING



- REMOVE EXISTING 3500 BOILER FLUE VENT.
- 2. REMOVE EXISTING 1500 DIA DOMESTIC HEATER FLUE VENT. RE-USE PENETRATION
- 3. REMOVE EXISTING BYPASS VALVE AND
- 6. EXISTING 1500 HWS&HWR TO/FROM AHU&REHEAT
- $\times DHWH-1$  AND  $\times DHWH-2$  TO REMAIN.
- 11. REMOVE EXISTING DOMESTIC WATER RE CIRCULATION PUMP.



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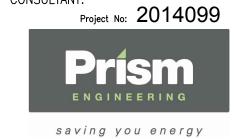
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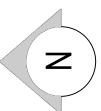


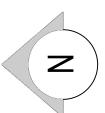
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2645 DOLLARTON HWY. NORTH VANCOUVER, BC

BLOCK B PENTHOUSE MECHANICAL ROOM **DEMO PLAN** 

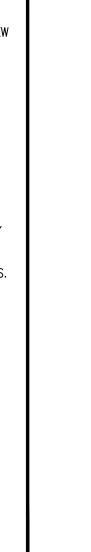
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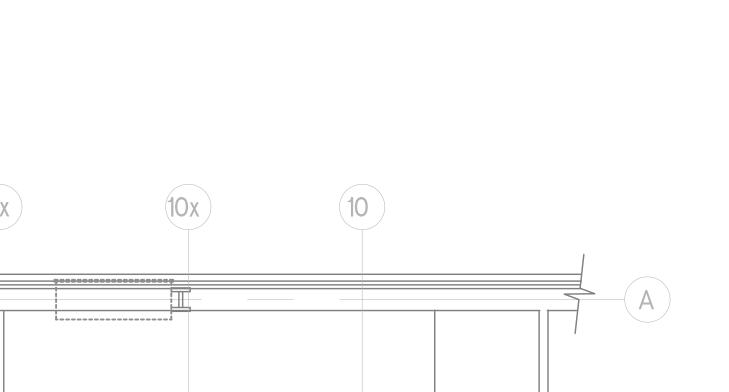


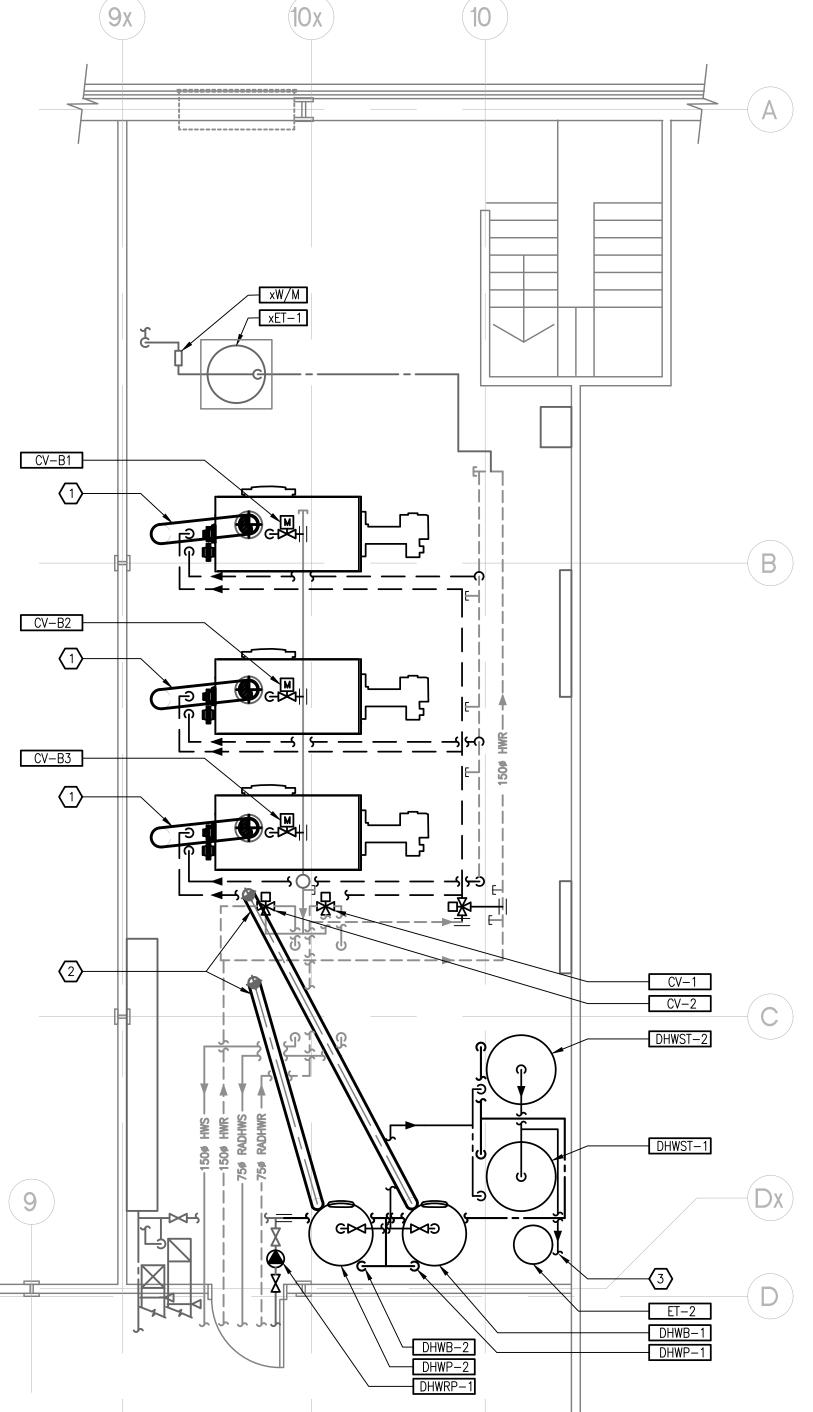




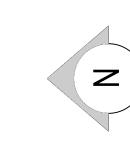
- INSTALL NEW BOILER PLANT SHUT DOWN MUSHROOM SWITCH AT 1500 mm AFF. INTERLOCK ALL NEW HEATING AND DOMESTIC BOILERS. (TYP 2) LABEL "BOILER PLANT EMERGENCY SHUT DOWN SWITCH".
- EXTEND HOUSEKEEPING PADS TO ACCOMMODATE NEW EQUIPMENT. KEY INTO SLAB AND SIGN OFF BY SEISMIC ENGINEER REQUIRED, REFER TO HOUSEKEEPING PAD DETAIL.
- INSTALL NEW HEATING HOT WATER BOILERS. SEISMICALLY RESTRAIN. PIPE PRV TO DRAIN. CONNECT TO PIPING PER SCHEMATIC. INSTALL NEW GAS TRAIN, VENT AND CONTROLS.
- MAINTAIN 900mm WALKING PATH THROUGH BOILER ROOM OUTLINE WITH 100mm PAINTED STRIPE.
- INSTALL NEW DOMESTIC HOT WATER HEATERS IN PHASED APPROACH. RETAIN HOT WATER TO FACILITY AT ALL TIMES. SEISMICALLY RESTRAIN.
- INSTALL NEW DOMESTIC HOT WATER STORAGE TANKS. SEISMICALLY RESTRAIN.
- INSTALL NEW 1100mmx1100mm, 100mm HIGH HOUSEKEEPING PADS FOR NEW STORAGE TANKS.
- INSTALL NEW NEUTRALIZING TANK FOR CONDENSATE FROM 3 BOILERS.
- 9. INSTALL NEW MASTER BOILER CONTROL PANEL.
- 10. RE COMMISSIONING EXISTING WATER METER.
- 11. INSTALL ACID NEUTRALIZER TANK FOR 2 DHW
- 12. REINSTALL LOUVER POST BOILER INSTALLATION.
- PROVIDE NEW FLASHING AND SEAL TIGHT. 3. MAINTAIN CLEARANCE REQUIRED FOR SERVING AND







2 BLOCK B PENTHOUSE MECHANICAL ROOM - UPPER LEVEL PLAN - NEW - SCALE: 1:50



# DRAWING NOTES

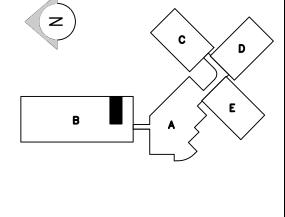
- . INSTALL NEW 10"Ø SS DOUBLE WALL CATEGORY IV VENT UP TO 7FT ABOVE FLOOR THEN SINGLE WALL UP THROUGH EXISTING VENT PENETRATION, REFER TO
- . INSTALL NEW 1500 SS CATEGORY IV VENT FOR NEW DHW HEATERS. RUN UP THROUGH EXISTING PENETRATION AND SEAL REFER TO VENTING DETAIL.
- 3. CONNECT INTO EXISTING DHW SUPPLY TO BUILDING.

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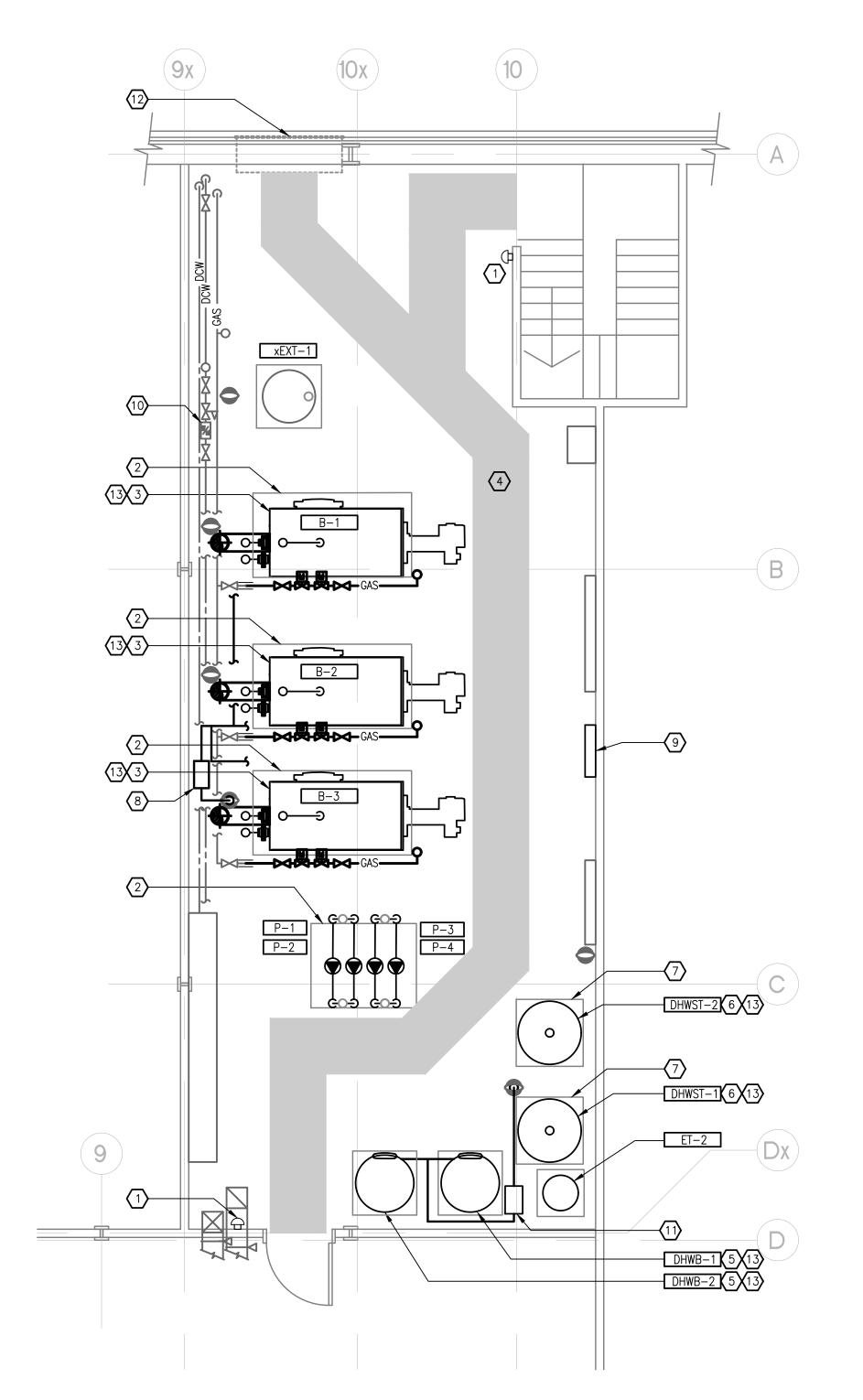
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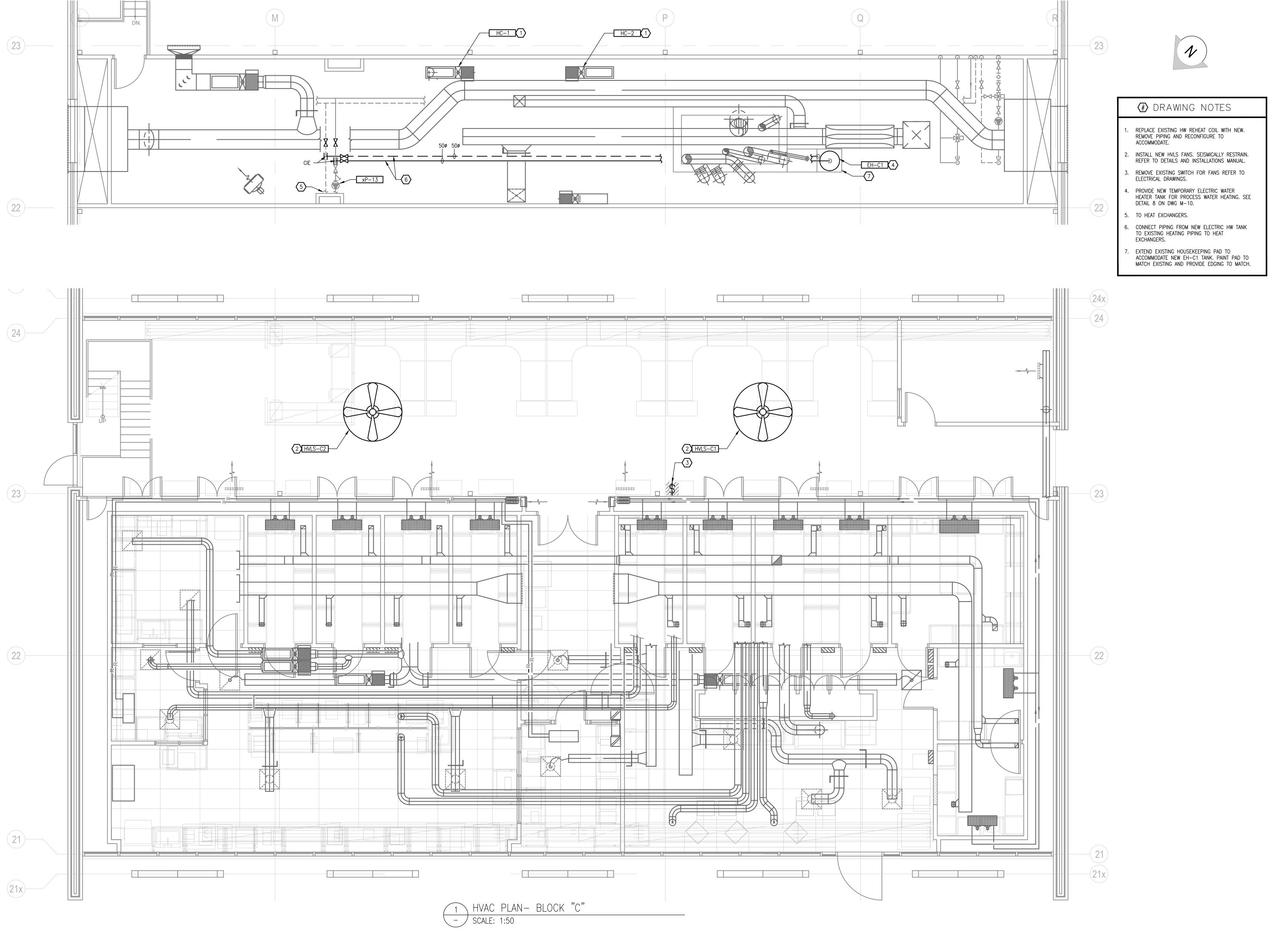
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BLOCK B PENTHOUSE MECHANICAL ROOM **NEW PLAN** 

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1 BLOCK B PENTHOUSE MECHANICAL ROOM - LOWER LEVEL PLAN - NEW - SCALE: 1:50



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S. J. KOOIMAN
# 37324
C. MITISH P. C. MITISH

NSULTANT:
Project No: 2014099

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BLOCK C
MECHANICAL PLANS

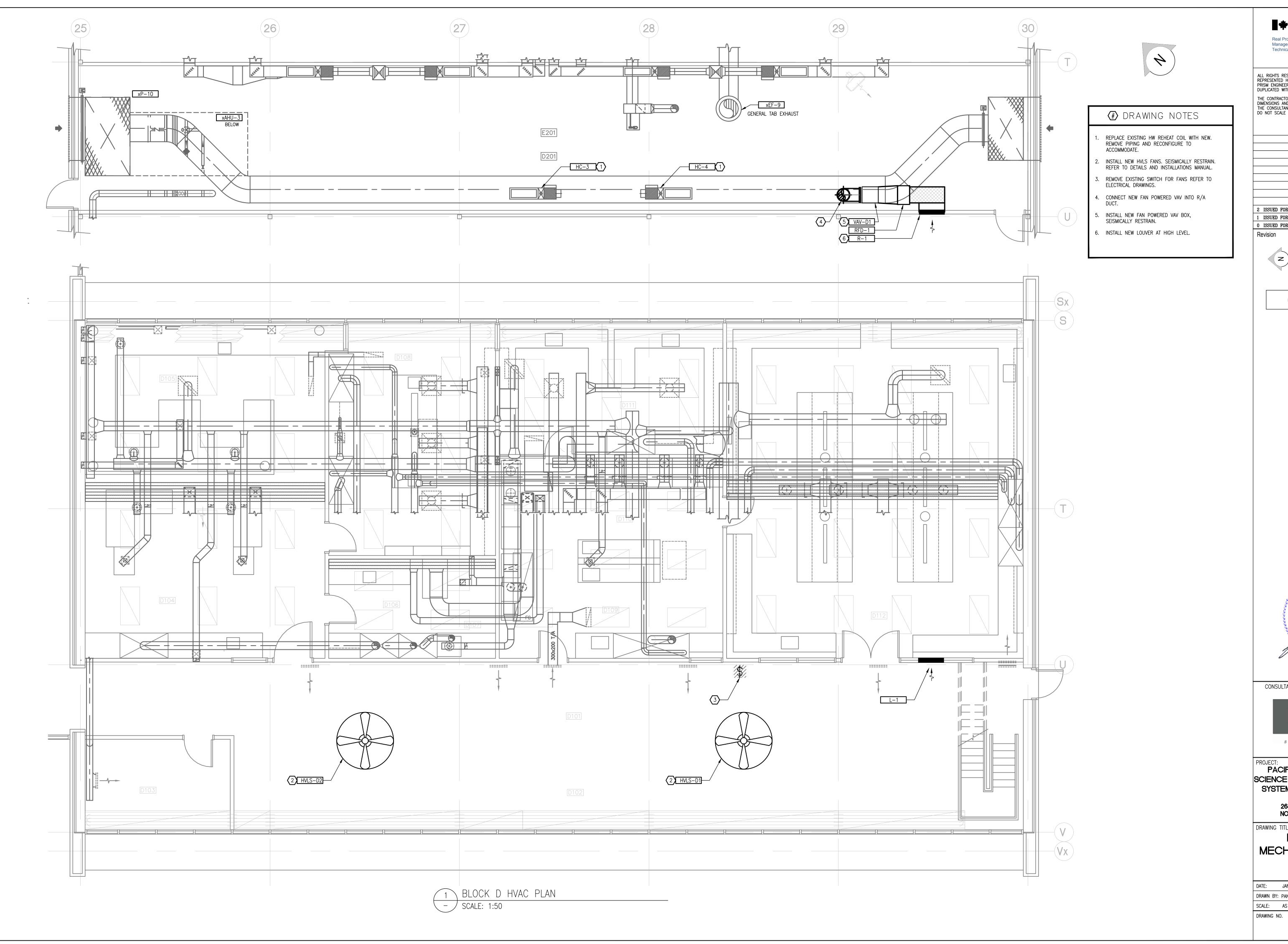
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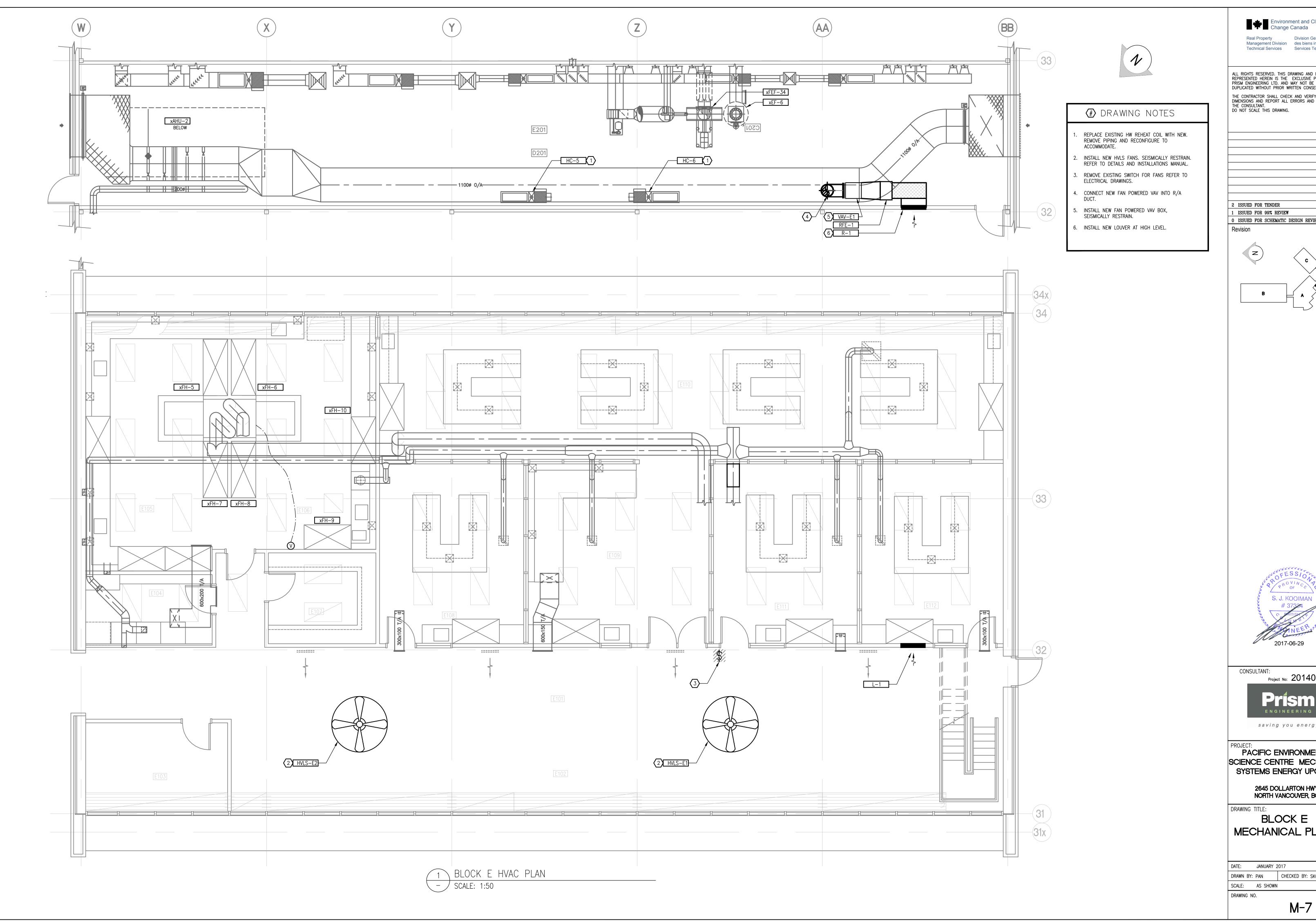
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BLOCK D MECHANICAL PLANS

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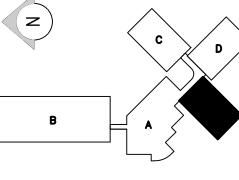


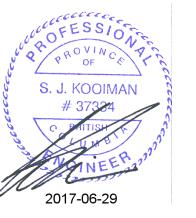
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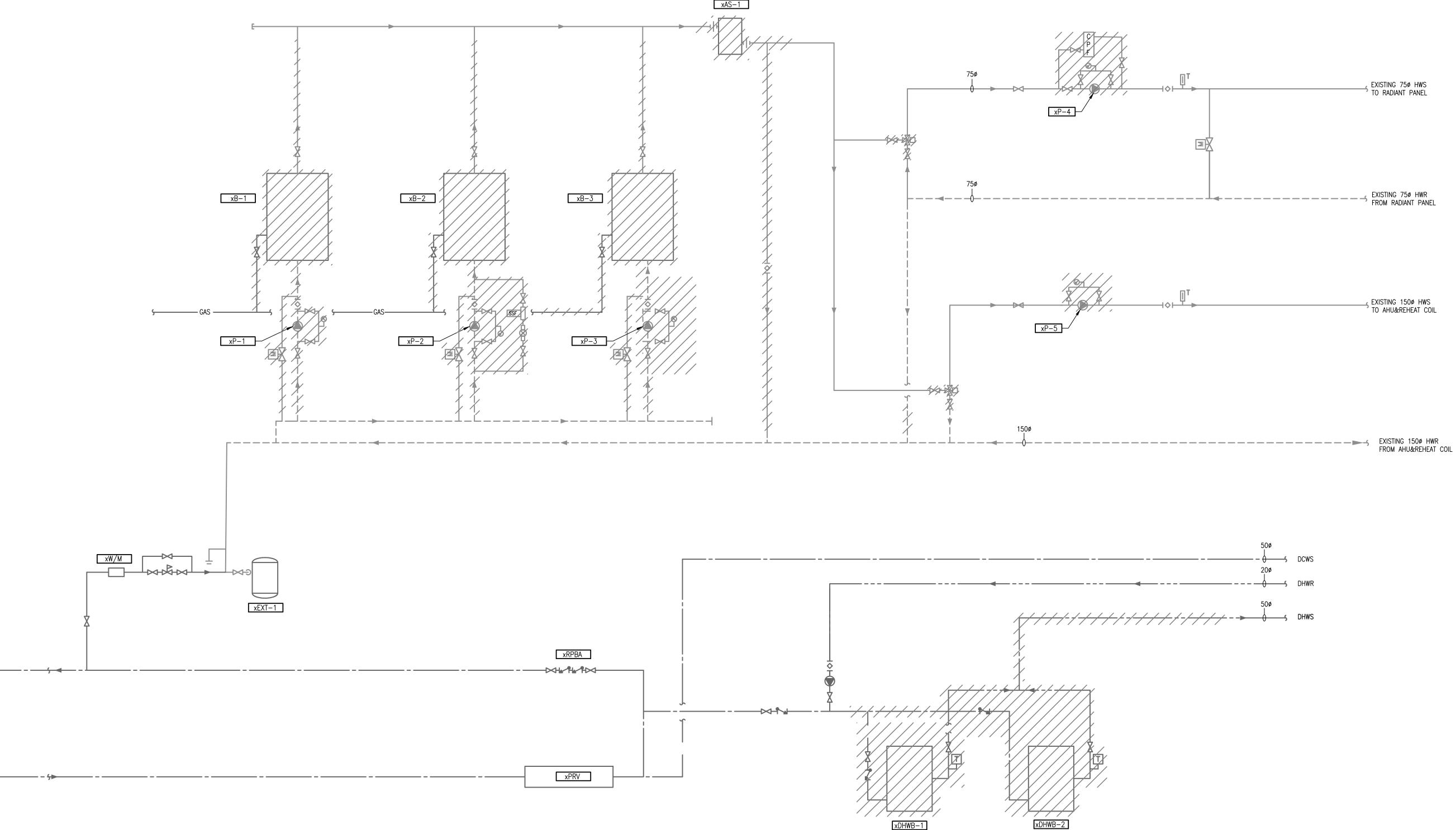
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**BLOCK E** MECHANICAL PLANS

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(#) DRAWING NOTES



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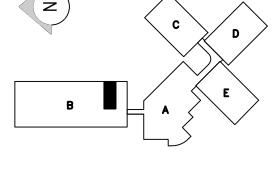
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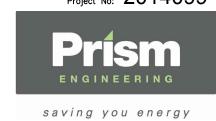
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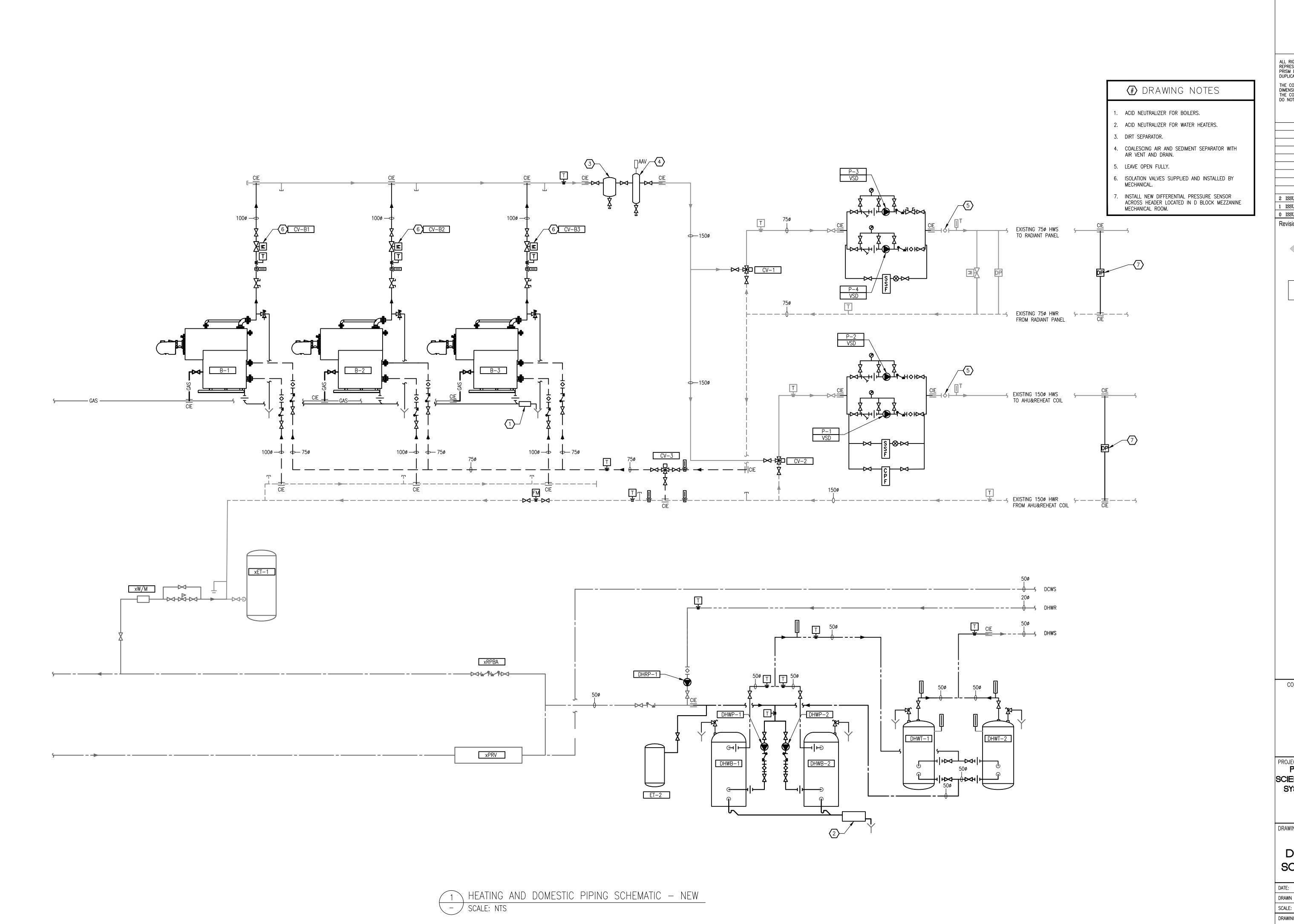


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HEATING AND DOMESTIC WATER SCHEMATICS - DEMO

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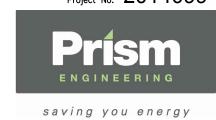
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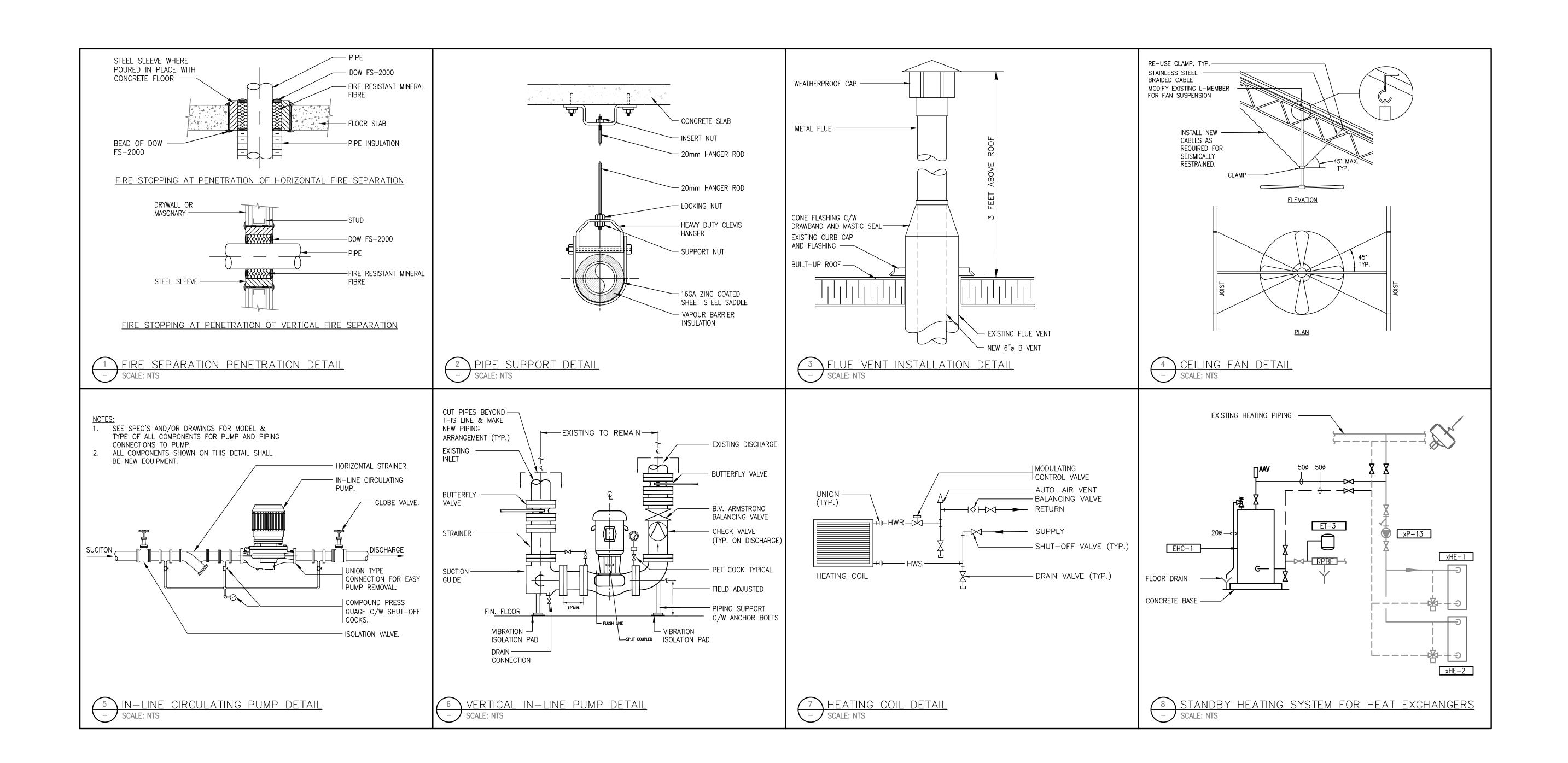
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**HEATING AND** 

DOMESTIC WATER SCHEMATICS - NEW

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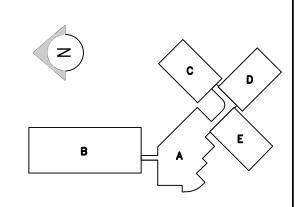
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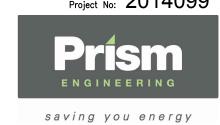
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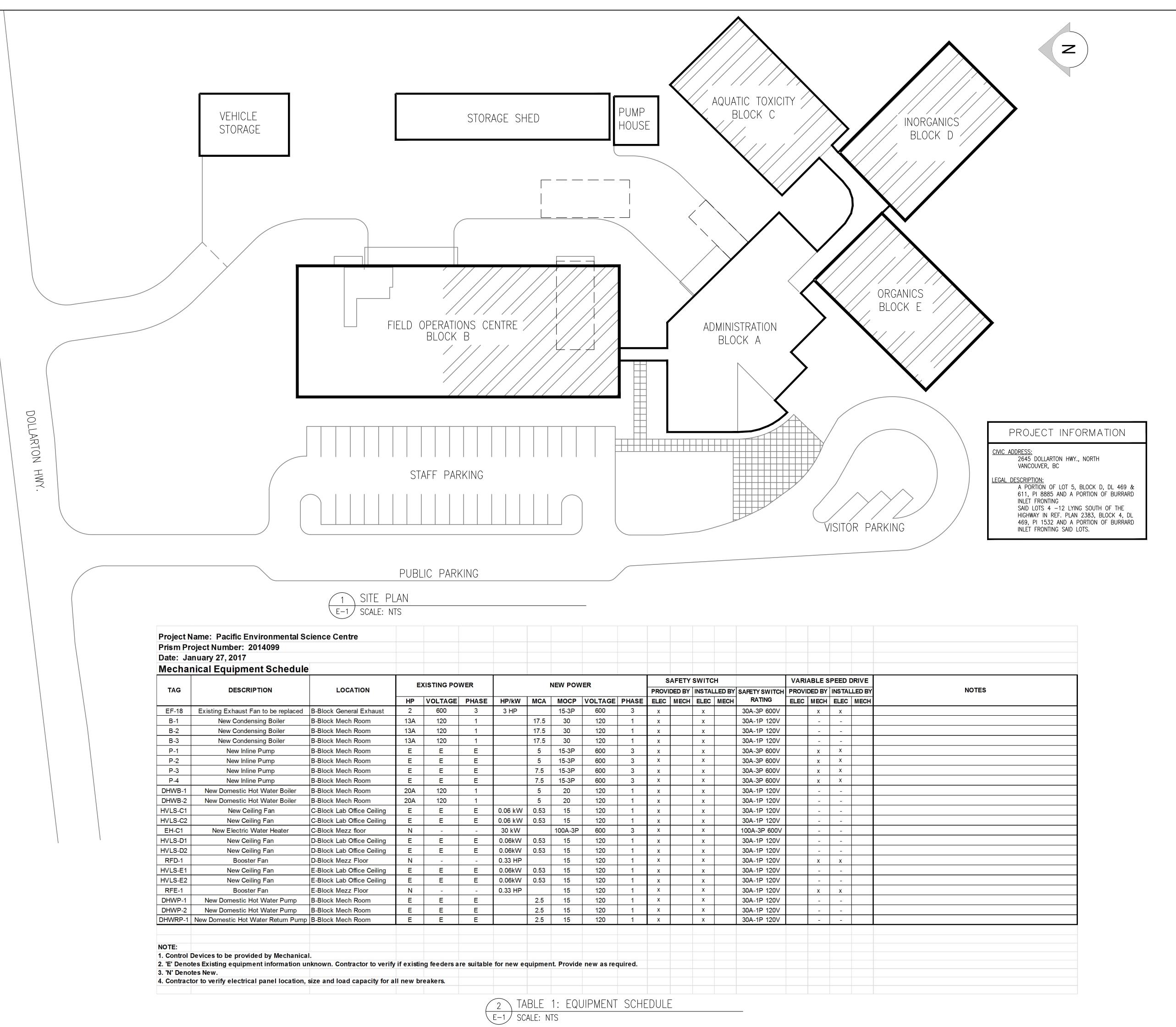
DETAILS

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SYMBOL DESCRIPTION

120V-1P POWER OUTLET

600V-3P POWER OUTLET

UNFUSED SAFETY SWITCH

## GENERAL NOTES

- EXISTING CONDITIONS MUST BE VERIFIED ON SITE.
- 2. NEW SAFETY SWITCH LOCATIONS TO BE COORDINATED WITH MECHANICAL.
- 3. REMOVE ALL EQUIPMENT NOT SUITABLE FOR THIS PROJECT BACK TO SOURCE AND MAKE ELECTRICALLY SAFE.
- 4. REFER TO TABLE 1 FOR EXACT POWER REQUIREMENT FOR ALL EQUIPMENT.

	DRAWING LIST	
DWG NO.	DESCRIPTION	<u>SCALE</u>
E-1	LEGENDS, SITE PLAN AND EQUIPMENT SCHEDULE	NTS
E-2	BLOCK B-MECHANICAL ROOM POWER PLAN	1:50
E-3	BLOCK C POWER PLAN	1:50
E-4	BLOCK D POWER PLAN	1:50
E-5	BLOCK E POWER PLAN	1:50

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LEGEND, SITE PLAN AND EQUIPMENT SCHEDULE

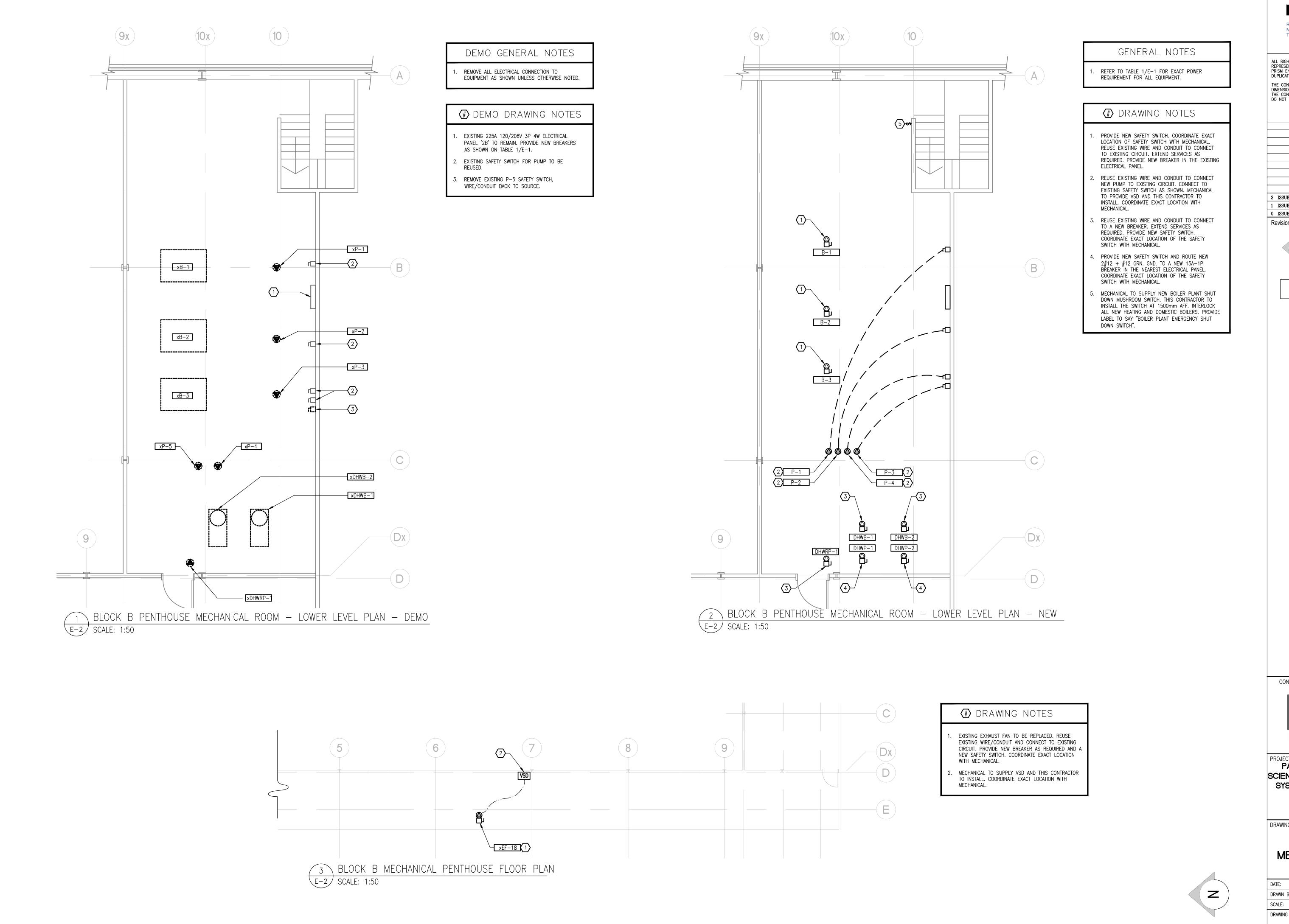
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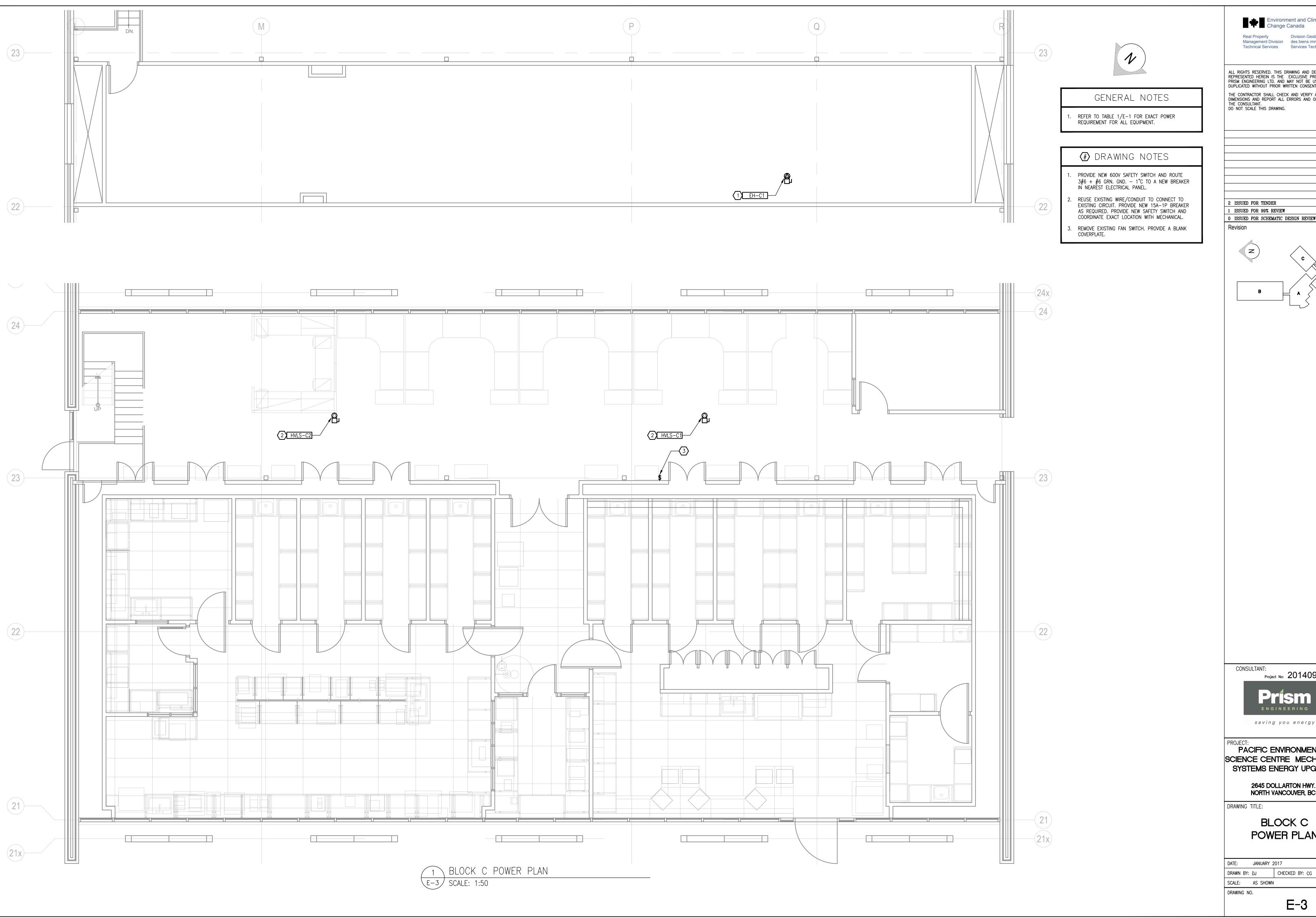
2645 DOLLARTON HWY. NORTH VANCOUVER, BC

DRAWING TITLE:

BLOCK B -MECHANICAL ROOM POWER PLAN

DATE: JANUARY 2017 DRAWN BY: DJ CHECKED BY: CG SCALE: AS SHOWN DRAWING NO.

E-2



Environment and Climate Change Canada Real Property Division Gestion
Management Division des biens immobilier
Technical Services Services Techniques

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PROJECT:
PACIFIC ENVIRONMENTAL SCIENCE CENTRE MECHANICAL SYSTEMS ENERGY UPGRADE

2645 DOLLARTON HWY. NORTH VANCOUVER, BC

BLOCK C POWER PLAN

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