GOVERNMENT OF CANADA DRIVER TRAINING BUILDING

REGINA, SASKATCHEWAN



ISSUED FOR TENDER, APRIL 26, 2016

ARCHITECTURAL

NUMBER TEN ARCHITECTURAL GROUP - 310 - 115 BANNATYNE AVE. - WINNIPEG, MB. R3B 0R

A1.0 TITLE SHEET

A1.1 BASEMENT, MAIN FLOOR & SECOND FLOOR DEMOLITION PLANS

A1.2 BASEMENT, MAIN FLOOR & SECOND FLOOR REFLECTED CEILING DEMOLITION PLANS

A1.3 BASEMENT, MAIN FLOOR & SECOND FLOOR NEW CONSTRUCTION PLANS

A1.4 BASEMENT, MAIN FLOOR & SECOND FLOOR REFLECTED CEILING PLANS

STRUCTURAL

BBK STRUCTURAL ENGINEERS, BROWNLEE BEATON KREKE - 3611 PASQUA STREET - REGINA, SK, S4S 6W8 S0.0 PLANS & DETAILS

MECHANICAL

R J ENGLAND CONSULTING LTD. - 400-4010 PASQUA STREET - REGINA, SK, S4S 7B9

M1.1 LEGEND AND SCHEDULES

M2.1 EXISTING SYSTEMS - DEMOLITION BASEMENT AND MAIN FLOOR

M2.2 EXISTING SYSTEMS - DEMOLITION SECOND FLOOR AND PENTHOUSE

M3.1 NEW HEATING - BASEMENT AND MAIN FLOOR

M3.2 NEW HEATING - SECOND FLOOR

M4.1 NEW VENTILATION - BASEMENT AND MAIN FLOOR

M4.2 NEW VENTILATION - SECOND FLOOR AND PENTHOUSE

M5.1 HEATING, COOLING AND STEAM SCHEMATICS

M6.1 HYDRONIC ISOMETRIC VIEWS

M7.1 VENTILATION DETAILS AND SCHEMATICS

M7.2 STEAM AND HYDRONIC DETAILS

ELECTRICAL

RITENBURG & ASSOCIATES LTD. CONSULTING ELECTRICAL ENGINEERS - #200-2222 ALBERT ST. - REGINA, SK, S4P 2V2

E1.1 BASEMENT, MAIN, SECOND & PENTHOUSE CEILING DEMOLITION PLANS & SYMBOL SCHEDULE

E2.1 BASEMENT, MAIN FLOOR & PENTHOUSE ELECTRICAL PLANS

E2.2 ELECTRICAL SCHEMATICS MECHANICAL SCHEDULE & DETAILS







BEEN DEMOLISHED

- **GENERAL NOTES:** CONFIRM ALL ITEMS TO BE RETURN TO OWNER PRIOR TO DEMOLITION.
- PATCH & MAKE GOOD SURFACES AFFECTED BY DEMOLITION AND/OR NEW CONSTRUCTION READY TO RECEIVE NEW FINISHES INCLUDING MECHANICAL AND ELECTRICAL OPENINGS.
- PATCH AND MAKE GOOD EXISTING SURFACES SCHEDULED TO REMAIN, AS REQUIRED TO RECEIVE NEW FINISH. WHERE NO FINISHES ARE
- ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND EXISTING CONDITIONS ARE TO BE REPORTED TO NUMBER TEN.

SPECIFIED, MATCH ADJACENT EXISTING FINISH.

- 6. PATCH, REPAIR & PAINT ALL WALL OPENINGS WHERE DUCTS HAVE
- PROVIDE NEW WALL OPENINGS WHERE NEW DUCTWORK PENETRATES. PATCH, REPAIR & PAINT AS REQUIRED.
- STORE AND PROTECT FROM DAMAGE ALL MATERIAL TO BE
- B. COORDINATE ALL DEMOLITION, CONSTRUCTION, SALVAGE, RE-USE, ETC. WITH MECHANICAL, ELECTRICAL, & STRUCTURAL.

DEMOLITION KEY NOTES:

- DEMOLISH EXISTING RECESSED STEAM CONDENSER. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- $\langle 2 \rangle$ DEMOLISH EXISTING WINDOW SILL AND GRILLE.
- \langle 3 \rangle REMOVE EXISTING EXHAUST GRILLE AND STORE FOR REUSE.
- DEMOLISH EXISTING RECESSED FORCE FLOW. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- DEMOLISH EXISTING STEAM FINNED TUBE RADIATION. PATCH AND REPAIR TO MATCH EXISTING AS REQUIRED.
- 6 DEMOLISH EXISTING WALL AS REQUIRED TO ACCESS MECHANICAL LINES TO BE DEMOLISHED. PATCH AND REPAIR WALL TO MATCH EXISTING.
- NEW OPENING IN FLOOR FOR HVAC DUCT. SEE STRUCTURAL &
- MECHANICAL FOR ADDITIONAL INFORMATION.

 8 NEW OPENING IN CEILING FOR HVAC DUCT. SEE STRUCTURAL & MECHANICAL FOR ADDITIONAL INFORMATION.

numberTEN architectural group winnipeg MB 204 942.0981 architecture = interior design = graphic design GOVERNMENT OF CANADA DRIVER TRAINING BUILDING REGINA, SK BASEMENT, MAIN FLOOR, & SECOND FLOOR **DEMOLITION PLANS** consultant

THIS DRAWING MUST NOT BE SCALED.

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OFFICE

I GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DATUMS, AND LEVELS PRIOR TO COMMENCEMENT OF WORK. ALL ERRORS AND OMISSIONS TO BE REPORTED TO NUMBER TEN ARCHITECTURAL GROUP BEFORE PROCEEDING.

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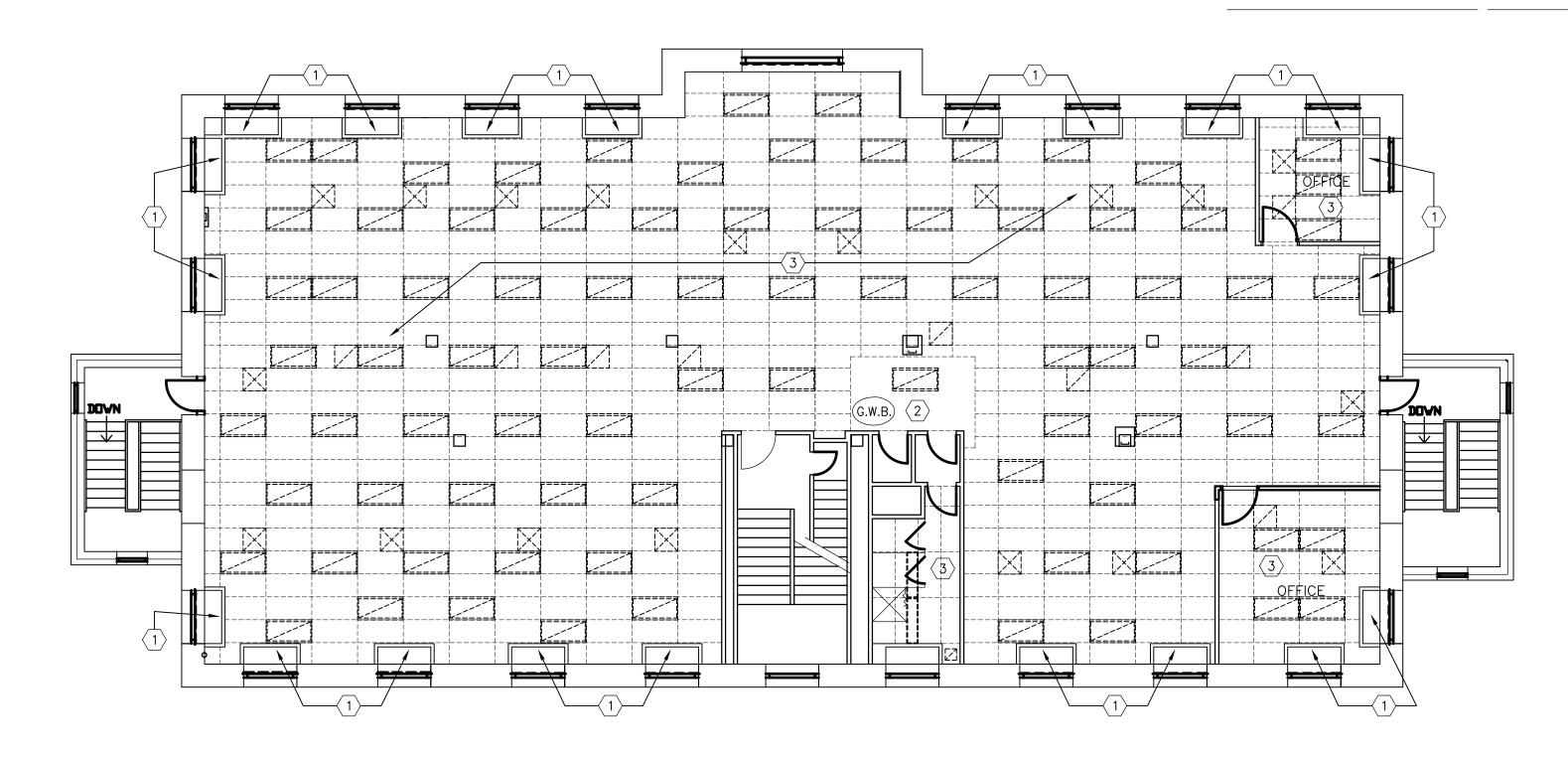
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SECOND FLOOR REFLECTED CEILING DEMOLITION PLAN

A1.2 SCALE: 1:100

REFLECTED CEILING PLAN LEGEND

8'-0" CEILING HEIGHT (ABOVE FINISHED FLOOR)

RECESSED FLUORESCENT FIXTURE

SURFACE MOUNTED OR VALENCE
MOUNTED FLUORESCENT FIXTURE

POTLIGHT

DEMOLISH RECESSED FLUORESCENT FIXTURE

DEMOLISH SURFACE MOUNTED OR VALENCE
MOUNTED FLUORESCENT FIXTURE

DEMOLISH POTLIGHT

SUPPLY AIR GRILLE

RETURN AIR GRILLE

DEMOLISH SUPPLY AIR GRILLE

GENERAL NOTES:

DEMOLISH RETURN AIR GRILLE

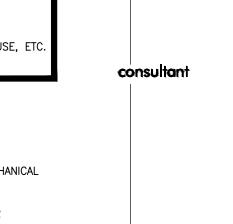
- . CONFIRM ALL ITEMS TO BE RETURN TO OWNER PRIOR TO DEMOLITION.

 . PATCH & MAKE GOOD SURFACES AFFECTED BY DEMOLITION AND/OR NEW CONSTRUCTION READY TO RECEIVE NEW FINISHES INCLUDING MECHANICAL AND ELECTRICAL OPENINGS.
- 3. PATCH AND MAKE GOOD EXISTING SURFACES SCHEDULED TO REMAIN, AS REQUIRED TO RECEIVE NEW FINISH. WHERE NO FINISHES ARE SPECIFIED, MATCH ADJACENT EXISTING FINISH.
- 4. ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND EXISTING CONDITIONS ARE TO BE REPORTED TO NUMBER TEN.
- 5. PATCH, REPAIR & PAINT ALL WALL OPENINGS WHERE DUCTS HAVE BEEN DEMOLISHED
- DROVIDE NEW WALL OPENINGS WHERE NEW DUCTWORK DENETRATE
- PROVIDE NEW WALL OPENINGS WHERE NEW DUCTWORK PENETRATES. PATCH, REPAIR & PAINT AS REQUIRED.
- STORE AND PROTECT FROM DAMAGE ALL MATERIAL TO BE REINSTALLED.
- 8. COORDINATE ALL DEMOLITION, CONSTRUCTION, SALVAGE, RE-USE, ETC WITH MECHANICAL, ELECTRICAL, & STRUCTURAL.

DEMOLITION KEY NOTES:

- 1 EXISTING G.W.B. BULKHEAD / CEILING TO REMAIN
 2 DEMOLISH EXISTING G.W.B. BULKHEAD / CEILING. REFER TO MECHANICAL & ELECTRICAL FOR ITEMS TO BE SALVAGED & RE-USED.
- DEMOLISH EXISTING ACOUSTIC TILE CEILING GRID. STORE CEILING
 TILES AND REINSTALL. REFER TO MECHANICAL & ELECTRICAL FOR ADDITIONAL ITEMS TO BE SALVAGED AND RE-USED.
- DEMOLISH EXISTING ACOUSTIC TILE CEILING GRID AND TILES. REFER TO MECHANICAL & ELECTRICAL FOR ADDITIONAL ITEMS TO BE SALVAGED AND RE—USED.

 (5) EXISTING ACOUSTIC TILE CEILING GRID AND TILE TO REMAIN.
 - 6 EXPOSED HVAC DUCTWORK TO BE DEMOLISHED. REFER TO MECHANICAL FOR COMPLETE HVAC DEMOLITION DRAWINGS.



winnipeg MB 204 942.0981

REGINA, SK

scale: 1:100

numberTEN architectural group

architecture = interior design = graphic design

GOVERNMENT OF CANADA

DRIVER TRAINING BUILDING

& SECOND FLOOR REFLECTED CEILING

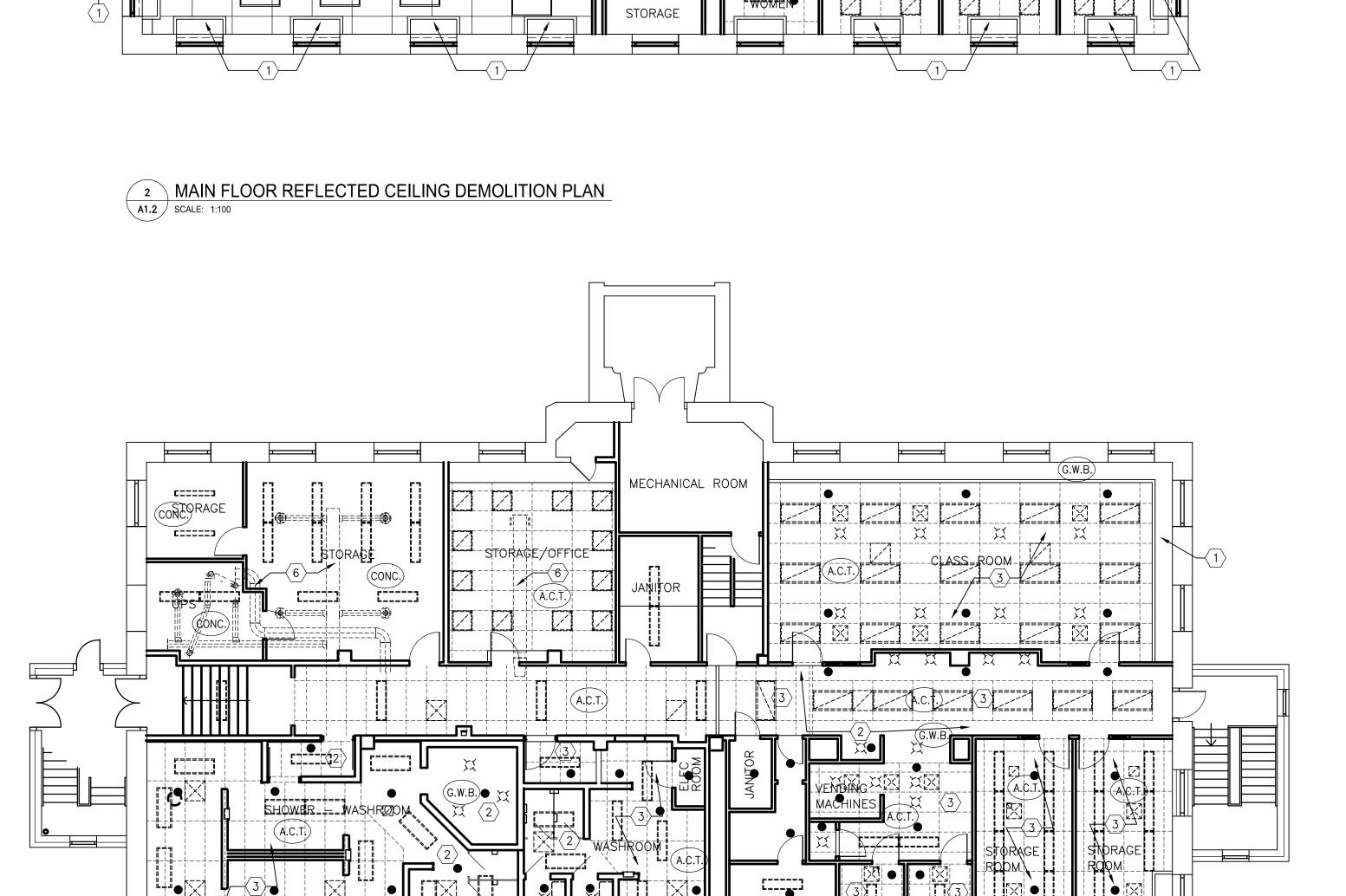
BASEMENT, MAIN FLOOR,

DEMOLITION PLANS

checked by: M.F.
project no. 2016008 sheet no.

BASEMENT REFLECTED CEILING DEMOLITION PLAN
SCALE: 1:100

COMPUTER ROOM:



ELECTRICAL

(G.W.B.)

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STORAGE

ROOM

STORAGE

ROOM

SHOWER - WASHROOM

BASEMENT NEW CONSTRUCTION PLAN

WASHROOM

ELECTRICAL

FEMALE

MALE

00000

0000

A1.3 SCALE: 1:100

numberTEN architectural group winnipeg MB 204 942.0981 architecture = interior design = graphic design GOVERNMENT OF CANADA DRIVER TRAINING BUILDING REGINA, SK BASEMENT, MAIN FLOOR, & SECOND FLOOR PLANS **NEW CONSTRUCTION**

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checked by: M.F.

consultant

-CAULK AROUND PERIMETER OF EXTERIOR G.W.B. TO

SEAL TO EXISTING WALL.

-INSTALL 50mm RIGID INSULATION. SEAL AROUND INSULATION WITH EXPANDING FOAM INSULATION.

-CLOSE OFF EXISTING LOUVER WITH SHEET METAL

BACK PAN. INSTALL IN EXISTING OPENING. PAINT TO MATCH EXISTING AND CAULK PERIMETER.

(4) NEW 300x150 FIRE RATED GRILLE IN EXISTING DOOR.

5 NEW PERIMETER FINNED TUBE RADIATION. REFER TO MECHANICAL FOR DETAILS. CORE HOLES THROUGH CONCRETE FLOOR/CEILING FOR NEW 25mm PIPING

7 NEW OPENING IN FLOOR FOR HVAC DUCT. SEE STRUCTURAL & MECHANICAL FOR ADDITIONAL INFORMATION.

8 NEW OPENING IN CEILING FOR HVAC DUCT. SEE STRUCTURAL & MECHANICAL FOR ADDITIONAL INFORMATION.

9 16 G.W.B. ON ONE SIDE OF 90 STEEL STUDS AT 400 O/C. PAINT TO MATCH ADJACENT WALLS.

6 NEW RECESSED FORCE FLOW UNIT IN EXISTING WALL. PATCH AND REPAIR WALLS AROUND UNIT.

AS PER MECHANICAL DRAWINGS.

project no. 2016008

├──(6)──((A.¢.T.) STAIRS #

| | 1

G.W.B.) (2) DOWN

MAIN FLOOR NEW CONSTRUCTION PLAN A1.4 | SCALE: 1:100

1 BASEMENT REFLECTED CEILING PLAN

A1.4 SCALE: 1:100

MECHANICAL ROOM α ¤ | /• | ¤ ELECTRICAL

(G.W.B.)

3 SECOND FLOOR REFLECTED CEILING PLAN A1.4 SCALE: 1:100

REFLECTED CEILING PLAN LEGEND

(8'-0") CEILING HEIGHT (ABOVE FINISHED FLOOR)

RECESSED FLUORESCENT FIXTURE

SURFACE MOUNTED OR VALENCE MOUNTED FLUORESCENT FIXTURE

SUPPLY AIR GRILLE

RETURN AIR GRILLE

RADIANT HEATING PANEL

GENERAL NOTES:

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CEILING KEY NOTES:

- 1 EXISTING G.W.B. BULKHEAD / CEILING TO REMAIN
- NEW G.W.B. BULKHEAD / CEILING. MATCH EXISTING LOCATION AND HEIGHT.
- 3 INSTALL NEW CEILING GRID AND REINSTALL EXISTING TILES TO MATCH NEW LAYOUT.
- 4 INSTALL NEW CEILING GRID AND REINSTALL EXISTING TILES TO MATCH EXISTING LAYOUT.
- (5) EXISTING ACOUSTIC TILE CEILING GRID AND TILES TO REMAIN. 6 INSTALL NEW CEILING GRID AND TILES TO MATCH EXISTING LAYOUT.



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GOVERNMENT OF CANADA

DRIVER TRAINING BUILDING REGINA, SK

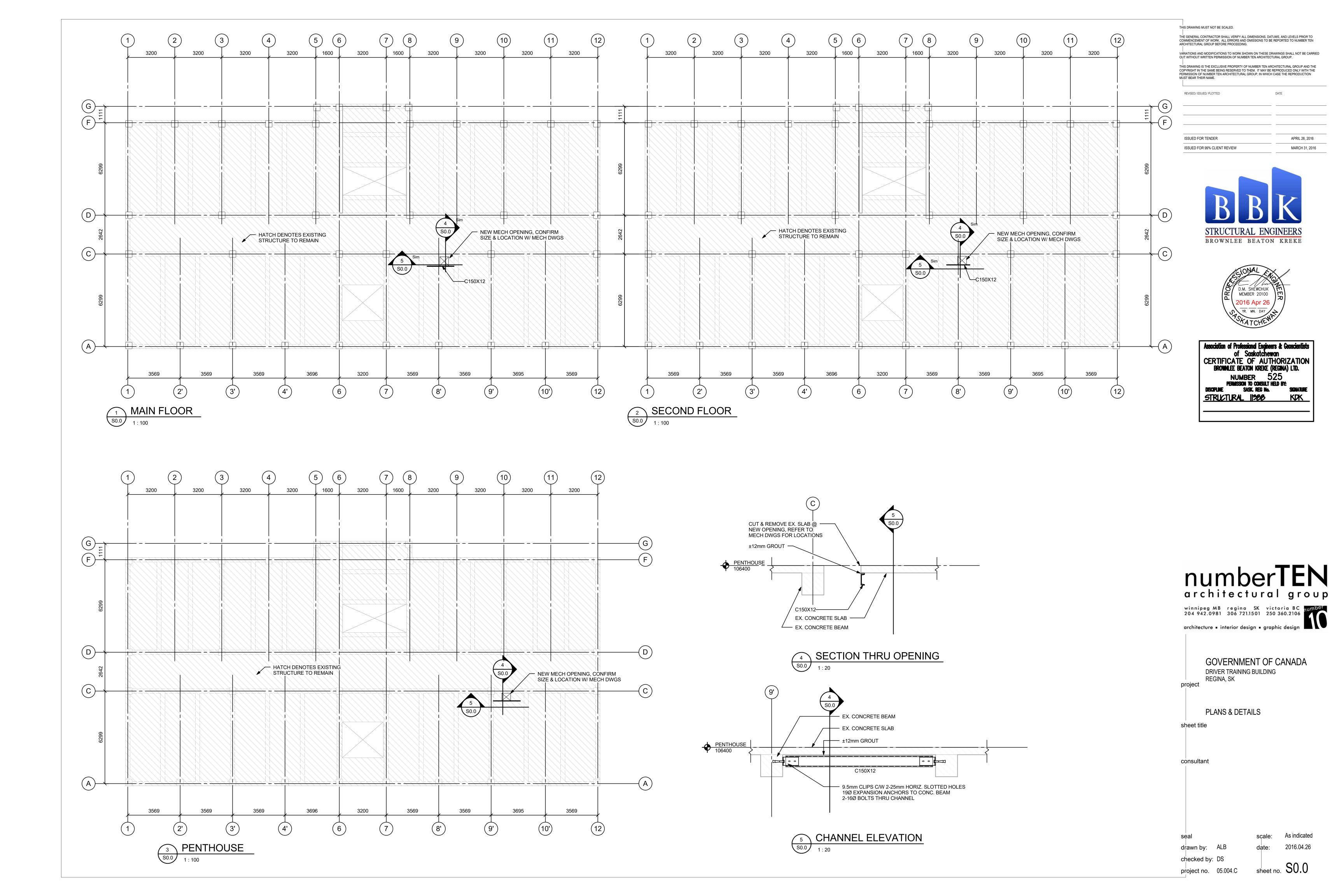
BASEMENT, MAIN FLOOR, & SECOND FLOOR REFLECTED CEILING

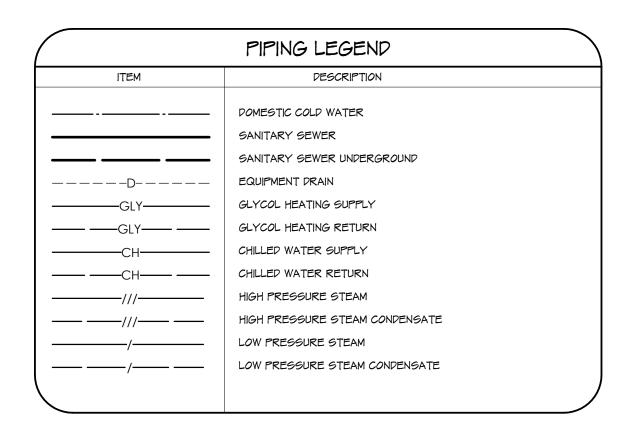
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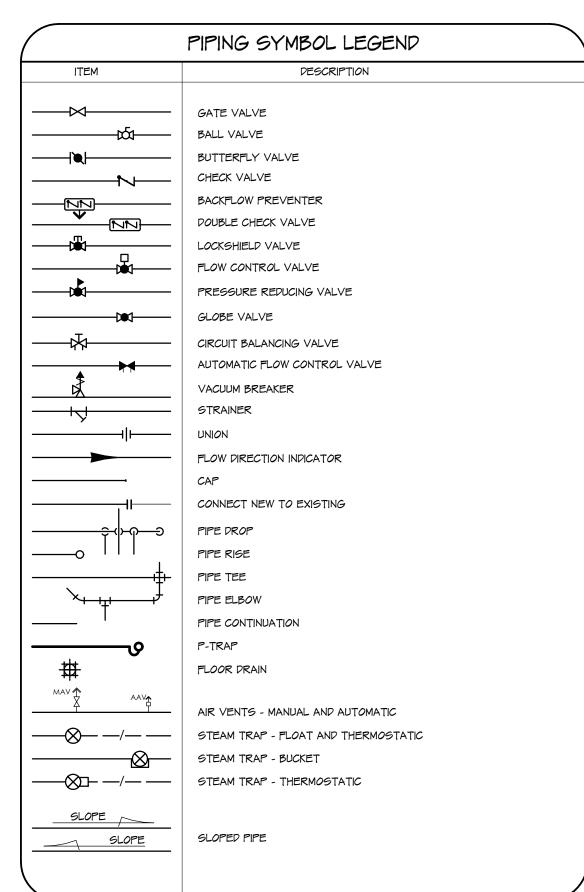
consultant

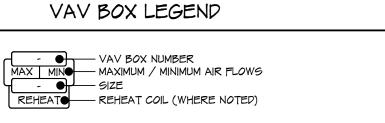


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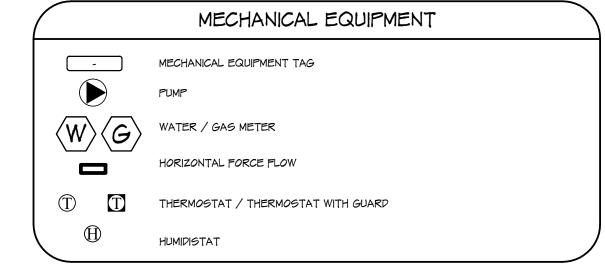




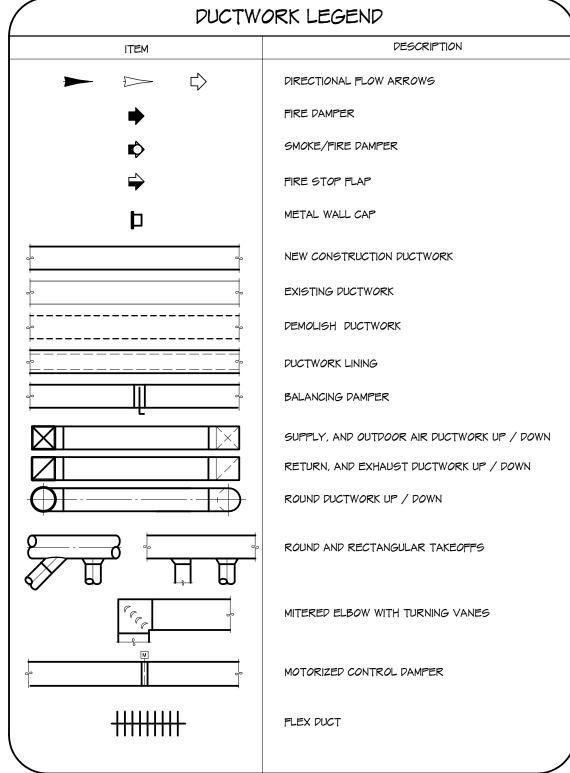


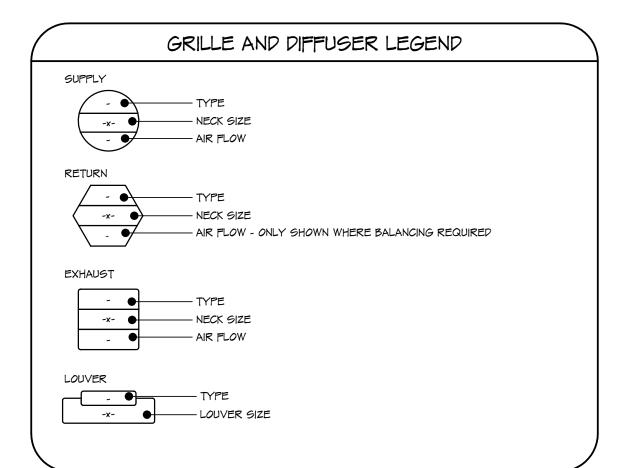


PRICE INDUSTRIES MODEL "SDV5000" COMPLETE WITH 900mm FACTORY SUPPLIED ATTENUATOR SECTION



		COLD WATER	HOT WATER	SANITARY
EQUIPMENT		CONNECTION	CONECTION	CONNECTIO
TAG	DESCRIPTION	SIZE	SIZE	SIZE
HB-I	EXISTING HOSE BIBB C/W VACUUM BREAKER AND WALL MOUNT	20mm		





TAG	PESCRIPTION							
DG-I	NAILOR GIDGD-FR 300X300 FIRE RATED DOOR GRILLE.							
E-I	PRICE EGGCRATE GRILLE MODEL " 80 ", 13 mm ALUMINUM GRID CORE, TYPE TB FRAME, TYPE BIZ WHITE FINISH							
E-2	PRICE LOUVERED RETURN GRILLE MODEL "630" SINGLE DEFLECTION 12 mm BLADE SPACING, (L, OR S) TYPE BLADE ORIENTATION, TYPE N BORDER STYLE, TYPE BI2 WHITE FINISH							
니	AEROLITE K605 EXTRUDED ALUMINUM LOUVER. SIGHTPROOF AND DRAINABLE. PRESSURE DROP 0.06 KPA $(0.25^{\circ}$ H20) FOR WATER PENETRATION. UNIT C/W INSECT SCREEN.							
R-I	PRICE EGGCRATE GRILLE MODEL " 80 ", 13 mm ALUMINUM GRID CORE, TYPE TB FRAME, TYPE BIZ WHITE FINISH							
<i>9-</i> 1	PRICE SQUARE PLAQUE DIFFUSER MODEL "ASPD", $600~\text{mm} \times 600~\text{mm}$ ALUMINUM DIFFUSER, TYPE TB FRAME, WHITE BI2 FINISH.							

S-2 PRICE SQUARE PLAQUE DIFFUSER MODEL "ASPD", 300 mm x 300 mm ALUMINUM DIFFUSER,

TYPE TB FRAME, WHITE BIZ FINISH.

GRILLE AND DIFFUSER SCHEDULE

FINNED TUBE RADIATION LEGEND							
	TYPE FIN LENGTH						
RADIATION TYPE	DESCRIPTION						
R-I	RITTLING MODEL FSG I" C 4 $\frac{1}{4}$ \times 4 $\frac{1}{4}$ - 40 COPPER FINNED TUBE RADIATION. UNIT IS A DOUBLE ROW FINNED TUBE RADIATION WITH 131 ALUMINIUM FINS/M (40 FINS/FT), DELIVERING 1242 W/M (1390 BTUH/FT) AT 90C (180F) EWT AND 66C (150F) LWT. ENCLOSURE DIMENSIONS ARE Glomm (24") HIGH WITH A DEPTH OF 137mm (3 15/16") C/W						

		MECHANICAL EQUIPMENT SCHEDULE		
	TAG	TYPE COMMENTS	EMERGENCY POWER	VARIABLE FREQUENC DRIVE
,	AHU-I	YORK SOLUTION MODEL XTI-72X84 INDOOR AIR HANDLING UNIT. UNIT DELIVERS 6607 L/S (14000 CFM) AT 600 P3 (2.4") ESP. UNIT HAS A PL-APAF FAN RUNNING AT 1834 RPM WITH A BHP OF 10.15. UNIT HAS 16HP MOTOR RUNNING AT 1800 RPM AT 208V/3PH/60HZ WITH AN FLA OF 46.2A, AN MCA OF 57.8 AND A VFD. UNIT HAS A HEATING COIL USING 6.5 L/S (103 GPM) OF 30% PROPYLENE GLYCOL WITH A EWT OF 82C (180F) AND A LWT OF 66C (150F). AIR HAS AN EAT OF -36C (-32.8F) DB AND A LAT OF IIC (51.6F) DB. UNIT HAS A COOLING COIL USING 12.0 L/S (190 GPM) OF 30% PROPYLENE GLYCOL WITH AN EWT OF 6C (42F) AND A LWT OF IOC (49.8F). AIR HAS AN EAT OF 3IC (87.8F) DB 2IC (69.8 WB) AND A LAT OF I2C (53.3F) DB IIC (52.5F) WB. UNIT HAS A HUMIDIFER CAPABLE OF INJECTING 56 KG/HR (123 LB/HR) OF DRY STEAM, INCREASING THE RH% BY 25% UNIT IS C/W ECONOMIZER SECTION, MERV 8 FILTERS, SPRING ISOLATOR, STEAM TRAP, AIR PROVING SWITCH, AIRFLOW PRESSURE TRANSDUCERS IN SUPPLY, RETURN AND OUTDOOR AIR, STEAM CONTROL VALVE.	-	YES
	AS-I	TACO ACO4F-125 100mm (4") INLINE AIR SEPARATOR C/W 409-3 COMMERCIAL AIR VENT AND STRAINER. UNIT IS RATED TO 861.8 KPA (125 PSI) @ 186C (375F). UNIT HAS A 3.9 KP3 (1.3") PRESSURE DROP.	-	-
	CR-I	HOFFMAN WATCHMAN SERIES WCD30-30B-MA DUPLEX CONDENSATE RECEIVER. UNIT HAS A 1.9 L/S (30 GPM) PUMP CAPACITY AT A DISCHARGE PRESSURE OF 206.8 KPA (30 PSIG). UNIT HAS A CAST IRON STORAGE RECEIVER CAPABLE OF HOLDING 87.1 L (23 USGAL). UNIT HAS A 3500 RPM I HP MOTOR CAPABLE OF HANDLING IZIC (250F) FLUID, RATED AT IIOV/IPH/60HZ. UNIT IS C/W VENT, Y STRAINER AND MECHANICAL ALTERNATOR.	YES	-
i	ERV-I	ALDES SE30001 ENERGY RECOVERY VENTILATOR. UNIT IS CAPABLE OF TAKING II80 L/S (2500 CFM) OF EXHAUST AND II80 L/S (2500 CFM) OF OUTDOOR AIR AND RECOVERING 65.2% OF THE HEAT OR 58.4% OF THE COLD AND INJECTING IT BACK INTO THE SYSTEM. UNIT HAS A FRESH AIR IGGORPM FAN WITH AN ESP OF 250 P3 (I" H20) WITH A 3HP BLOWER RUNNING AT I800 RPM AT 208V/3PH/60HZ AND CONSUMING 9.51 FLA. UNIT HAS AN EXHAUST AIR IGGO RPM FAN WITH AN ESP OF 250 P3 (I" H20) WITH A 3HP BLOWER RUNNING AT I800 RPM AT 208V/3PH/60HZ AND CONSUMING 9.51 FLA. UNIT HAS A HEATING COIL DELIVERING 75 KW (256 MBH) OF HEAT TO THE AIRSTREAM, CONSUMING 1.7 L/S (27 USGPM) OF 30% PROPYLENE GLYCOL WATER WITH AN EWT OF 82C (180F) AND A LWT OF 7IC (160F) AND A PRESSURE DROP OF 16.5 KPA (5.51 H20). UNIT HAS 2 MERVY FILTERS, MOTORIZED DAMPERS ON EXHAUST AIR AND OUTDOOR AIR AND RECIRCULATING DAMPER FOR DEFROST.	-	-
	ET-I	TACO MODEL CX-130-125 VERTICAL DIAPHRAGM EXPANSION TANK. UNIT HAS A 132L TANK (35 GAL) WITH AN ACCEPTANCE VOLUME OF 57L (15 GAL).	-	-
	FF-I	RITTLING MODEL RFFW-340 UNIT 03/2 ROW COIL FULLY RECESSED WALL FORCE FLOW. UNIT PROVIDES 40.8 MJ (38.7 MBH) OF HEAT AT A MAXIMUM AIR FLOWRATE OF 176 L/S (370 CFM). UNIT USES 0.25 L/S (4.0 GPM) OF GLYCOL WATER WITH A PRESSURE DROP OF 6.28 KPA (2.1) AND AN EWT OF 82C (180F). UNIT HAS A 1/30 HP BLOWER MOTOR OPERATING AT A MAXIMUM OF 1180 RPM. UNIT OPERATES AT 110V/1PH/60HZ WITH A MAX CURRENT OF 0.7 AMPS. UNIT CONSUMES 80 W. UNIT IS FINISHED WITH BEIGE EPOXY POWDER COAT.	-	-
	FT-I	SPIRAX SARCO FV-6 FLASH TANK. UNIT RECEIVES 253 KG/HR (557 LB/HR) OF 827 KPA (120 PSIG) CONDENSATE AT A TEMPERATURE OF 177C (350F). UNIT FLASHES 31.4 KG/HR (69.1 LB/HR) OF 55 KPA (8 PSIG) STEAM AT A TEMPERATURE OF 112.6C (234.7F) AND INJECTS IT INTO THE LOW PRESSURE STEAM SIDE. UNIT CONDENSES 221.6 KG/HR (487.5 LB/HR) OF 55KPA (8 PSIG) CONDENSATE AT A TEMPERATURE OF 112.6C (234.7F) AND DISTRIBUTES IT TO THE LOW PRESSURE CONDENSATE LINE. UNIT HAS A 50mm (2") HIGH PRESSURE CONDENSATE INLET, LOW PRESSURE STEAM OUTLET AND LOW PRESSURE CONDENSATE OUTLET. UNIT IS C/W SAFETY VALVE CONNECTION, AND INSPECTION COVER.	-	-
	GF-I	HYDRONIC SYSTEM SENTRY CLOSED LOOP HYDRONIC SYSTEM FEEDER MODEL HSS-48. UNIT COMES C/W 180L GLYCOL TANK, ADJUSTABLE PRESSURE REDUCING VALVE, AGITATOR, AND A MODEL HSS-ALARM LOCAL LOW FLUID ALARM C/W DRY CONTACTS. UNIT OPERATES AT 110V/IPH/G0HZ.	-	-
1	HUM-I	NORTEC SE 375 STEAM TO STEAM HUMIDIFIER. UNIT OUTPUTS 63 KG/HR (139 LB/HR) OF CLEAN STEAM WHILE CONSUMING 113 L/HR (25 GAL/HR) OF DOMESTIC COLD WATER. UNIT USES 86 KG/HR (190 LB/HR) OF 55KPA (8 PSIG) BUILDING STEAM. UNIT C/W 40mm (1 1/4") CONTROL VALVE, EQUIPMENT STAND. UNIT IS RATED AT 110V/IPH/60HZ AND 1.5A. UNIT CONNECTS TO HUMIDIFER COIL IN AHU-1.	-	-
	HX-I	TACO PF-205-19-1-EH PLATE AND FRAME HEAT EXCHANGER. UNIT USES 675 KG/HR (1486 LB/HR) OF 55KPA (2 PSIG) SATURATED STEAM AND OUTPUTS 6.8 L/S (107.5 USGPM) OF HEATED 30% PROYLENE GLYCOL WATER WITH A PRESSURE DROP OF 11.3 KPA (3.8') ON COLD SIDE. ON COLD SIDE UNIT HAS A EWT OF 66C (150F) AND A LWT OF 82C (180F). UNIT TRANSMITS 1.6 GJ (1540 MBH) OF ENERGY. UNIT HAS 75mm (3") FLANGED CONNECTIONS ON HOT AND COLD SIDE.	-	-
1	HX-IA	SAME AS HX-I	-	-
	P-IA	TACO KV3007 CAST IRON VERTICAL INLINE PUMP CAPABLE OF PELIVERING 13.6 L/S (215 USGPM) OF FLUID AT A PRESSURE OF 149.5 KPA (44 ¹ H20). UNIT HAS A BRONZE 186mm (7.3 ¹¹) IMPELLER CAPABLE OF OPERATING AT A TEMPERATURE OF 121C (250F) AND PRESSURE OF 1.7 MPA (250 PSIG). UNIT HAS A 5 HP MOTOR OPERATING AT 1760 RPM AT 208V/3PH/60HZ. UNIT IS C/W TACO SUCTION DIFFUSER AND MULTIPURPOSE VALVE. UNIT IS C/W ABB VFD.	YES	YES
	P-IB	SAME AS P-IA	YES	YES
	P-2A	TACO KV3007 CAST IRON VERTICAL INLINE PUMP CAPABLE OF DELIVERING 12.0 L/S (190 USGPM) OF FLUID AT A PRESSURE OF 89.7 KPA (30 H20). UNIT HAS A BRONZE IGOMM (G.O.) IMPELLER CAPABLE OF OPERATING AT A TEMPERATURE OF 12IC (250F) AND MAX PRESSURE OF 2.1 MPA (300 PSIG). UNIT HAS A 3 HP MOTOR OPERATING AT 1760 RPM AT 208V/3PH/60HZ. UNIT IS C/W TACO SUCTION DIFFUSER AND MULTIPURPOSE VALVE.	-	YES
	P-2B	SAME AS P-2A	-	YES
I	RAD-I	AIRTEX MODULAR RADIANT PANELS MODEL HPH. UNITS ARE GIOMM BY IZIOMM (2' x 4') WITH A MEAN WATER TEMPERATURE OF 74C (166F). UNITS OUTPUT 430W (1466 BTUH) OF HEAT WITH AN A EWT	-	-

OF 82C (180F) AND A LWT OF 66C (150F). UNITY HAVE A MINIMUM FLOW OF 0.03 L/S (0.5 GPM). UNITY COME C/W CONNECTING TUBING FOR MULTIPLE PANELS IN AN ARRAY. UNIT USES 30% PROPYLENE

DRAWING NUMBER

LEGEND AND SCHEDULES

NEW HEATING - SECOND FLOOR

HYDRONIC ISOMETRIC VIEWS

STEAM AND HYDRONIC DETAILS

PENNBERRY SX DUCT MOUNTED SQUARE CENTRIFUGAL INLINE FAN. UNIT IS CAPABLE OF HANDLING 4955 L/S (10500 CFM) AT AN ESP OF 174 PA (0.7" H20) WITH AN RPM OF 525 AND A BHP OF 2.57.

GLYCOL AS A WORKING FLUID.

UNIT HAS A 3HP MOTOR RUNNING AT 208V/3PH/60HZ. UNIT IS A CONSTANT VOLUME FAN.

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GOVERNMENT OF CANADA DRIVER TRAINING BUILDING REGINA, SK

LEGEND AND SCHEDULES

sheet title



AS INDICATED 2016.04.15

project no. 2016008

SLOPED GRILLE. RITTLING MODEL FSG I" C 4 1/4 X 4 1/4 - 48 COPPER FINNED TUBE RADIATION. UNIT IS A TRIPLE ROW FINNED TUBE RADIATION WITH 131 ALUMINIUM FINS/M (40 FINS/FT), DELIVERING 1695 W/M (1898 BTUH/FT) AT 90C (180F) EWT AND 66C (150F) LWT. ENCLOSURE DIMENSIONS ARE 610mm (24") HIGH WITH A DEPTH OF 137mm (5 3/8") C/W SLOPED GRILLE.

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MECHANICAL DRAWING LIST

EXISTING SYSTEMS DEMOLITION - BASEMENT AND MAIN FLOOR

NEW HEATING - BASEMENT AND MAIN FLOOR

HEATING, COOLING AND STEAM SCHEMATICS

VENTILATION DETAILS AND SCHEMATIC

NEW VENTILATION - BASEMENT AND MAIN FLOOR NEW VENTILATION - SECOND FLOOR AND PENTHOUSE

EXISTING SYSTEMS DEMOLITION - SECOND FLOOR AND PENTHOUSE

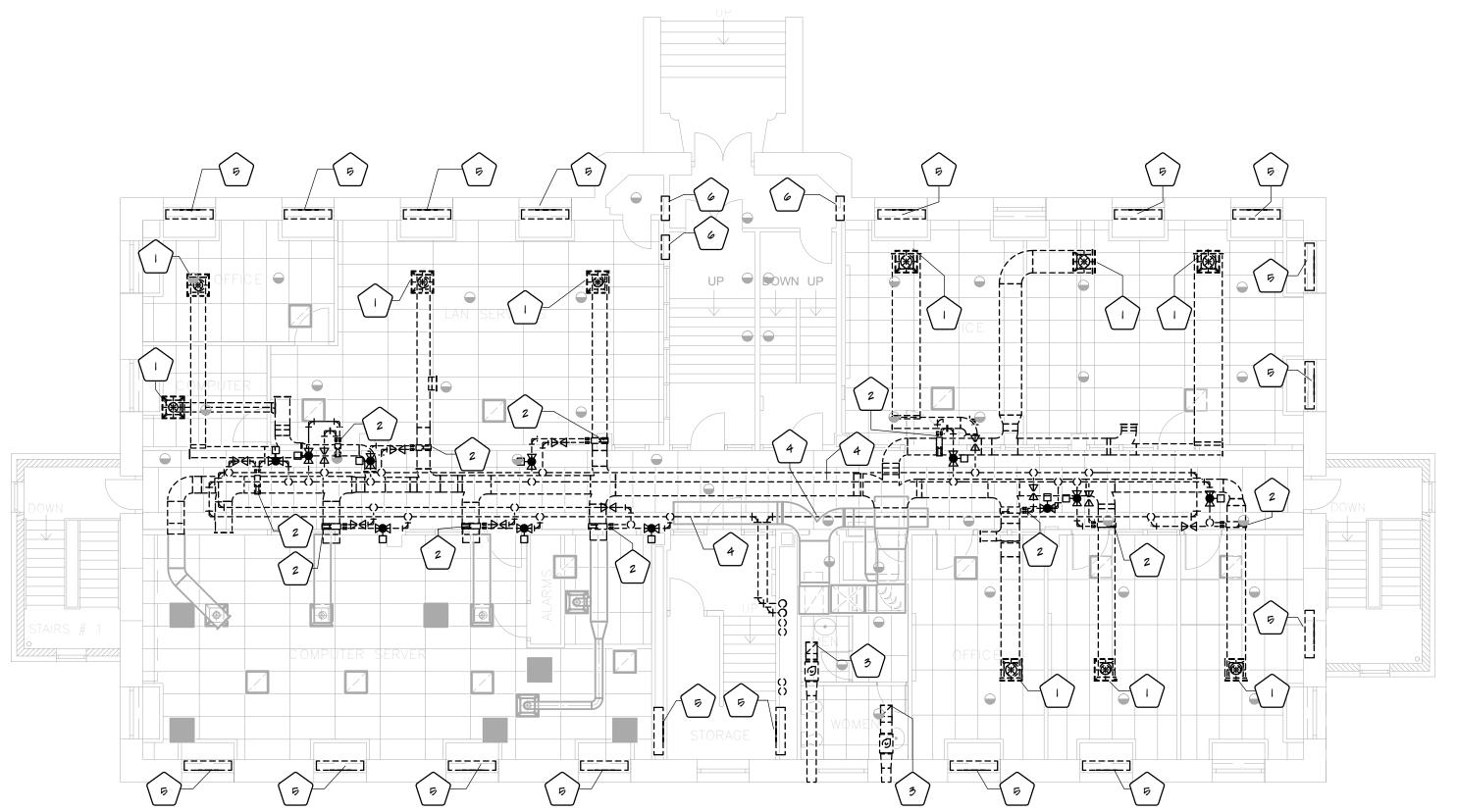
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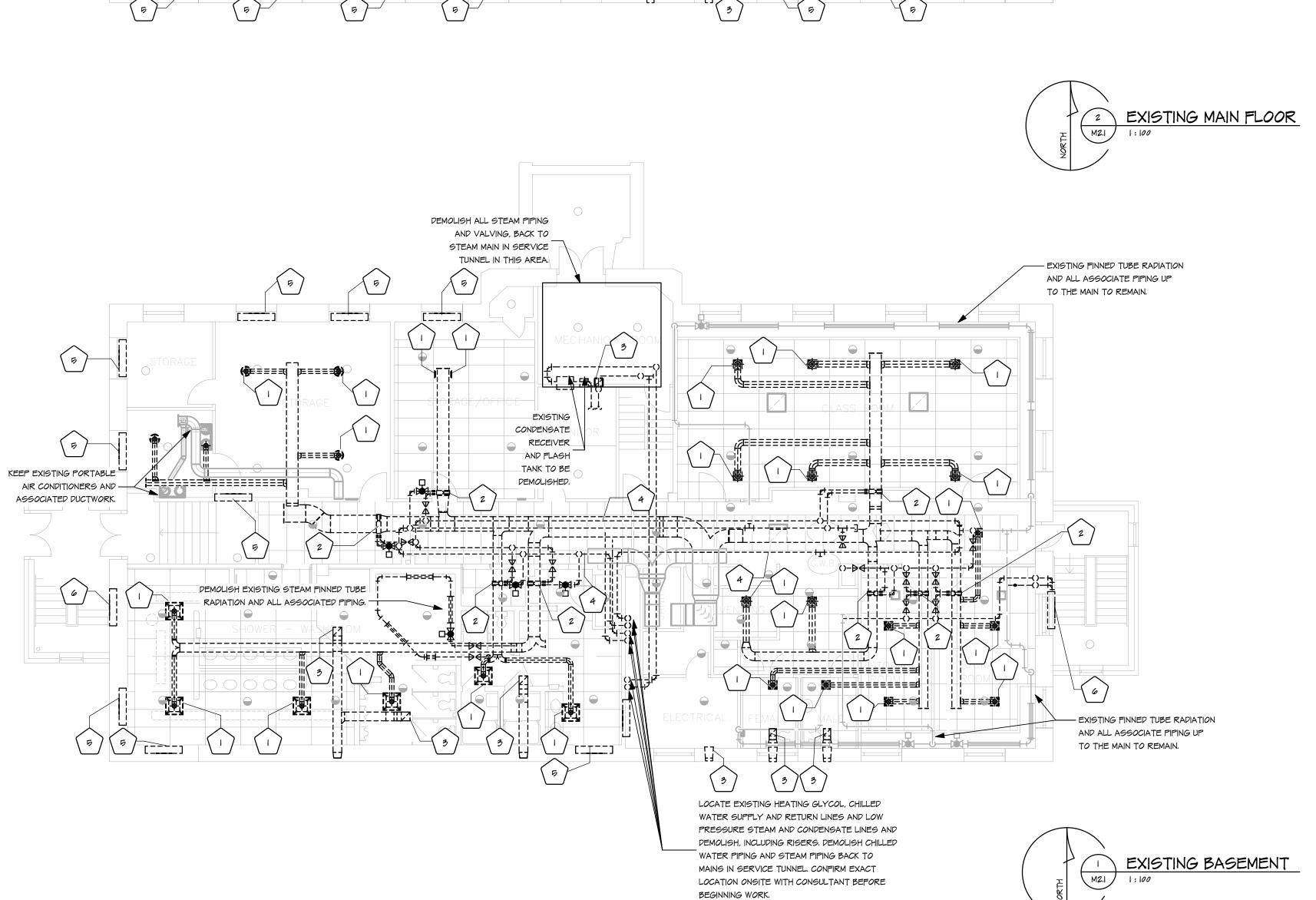
project

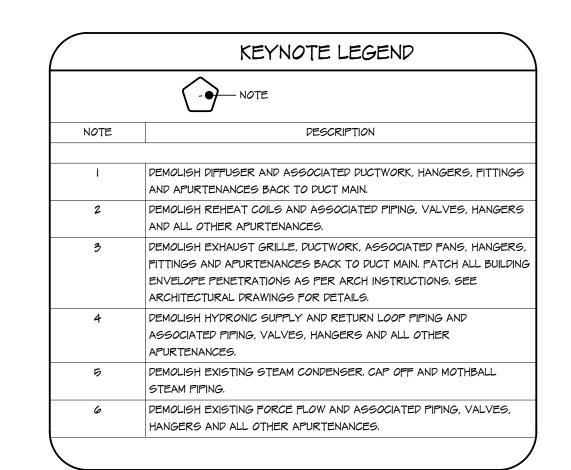
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EXISTING SYSTEMS DEMOLITION -BASEMENT AND MAIN FLOOR sheet title

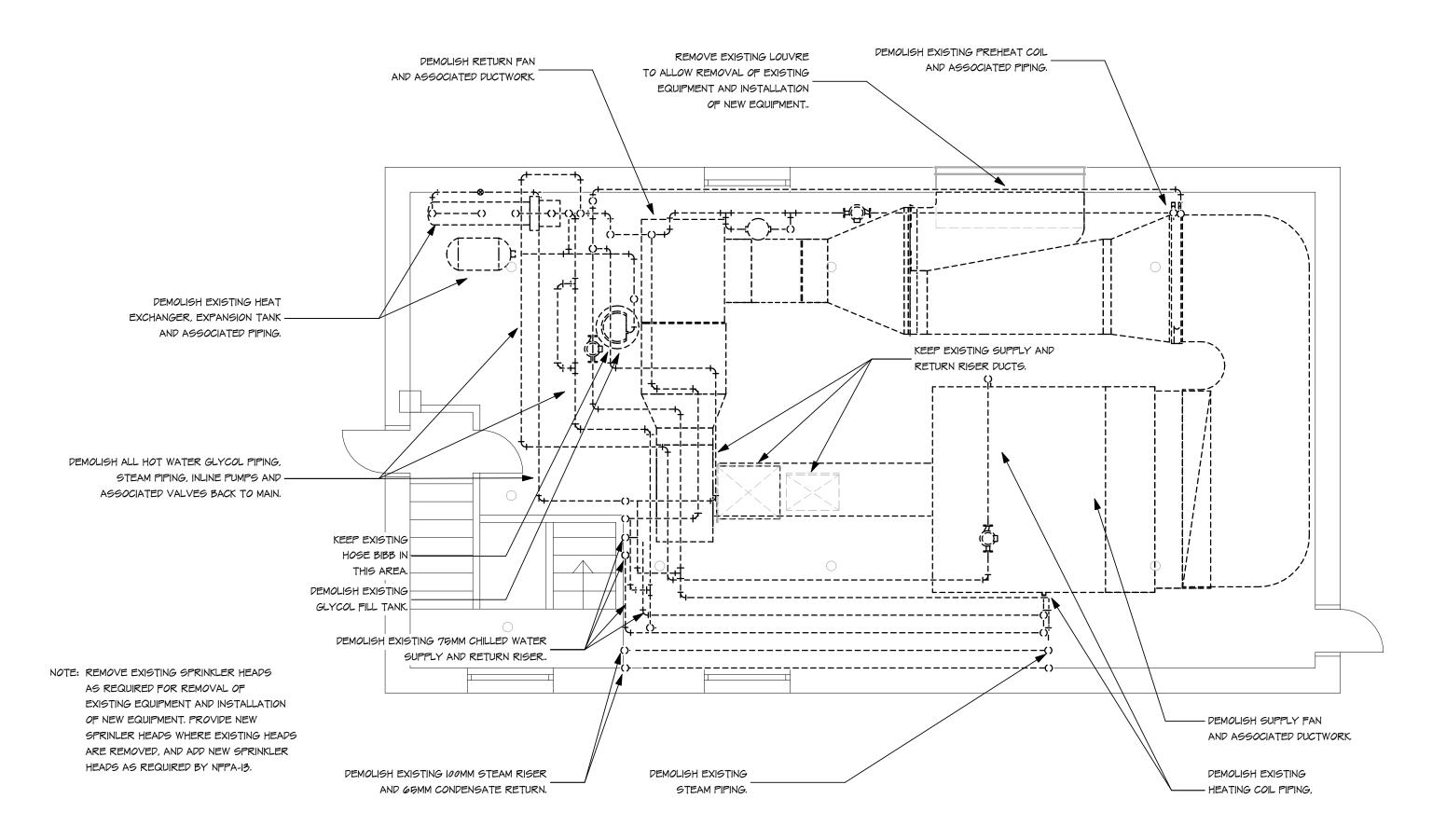


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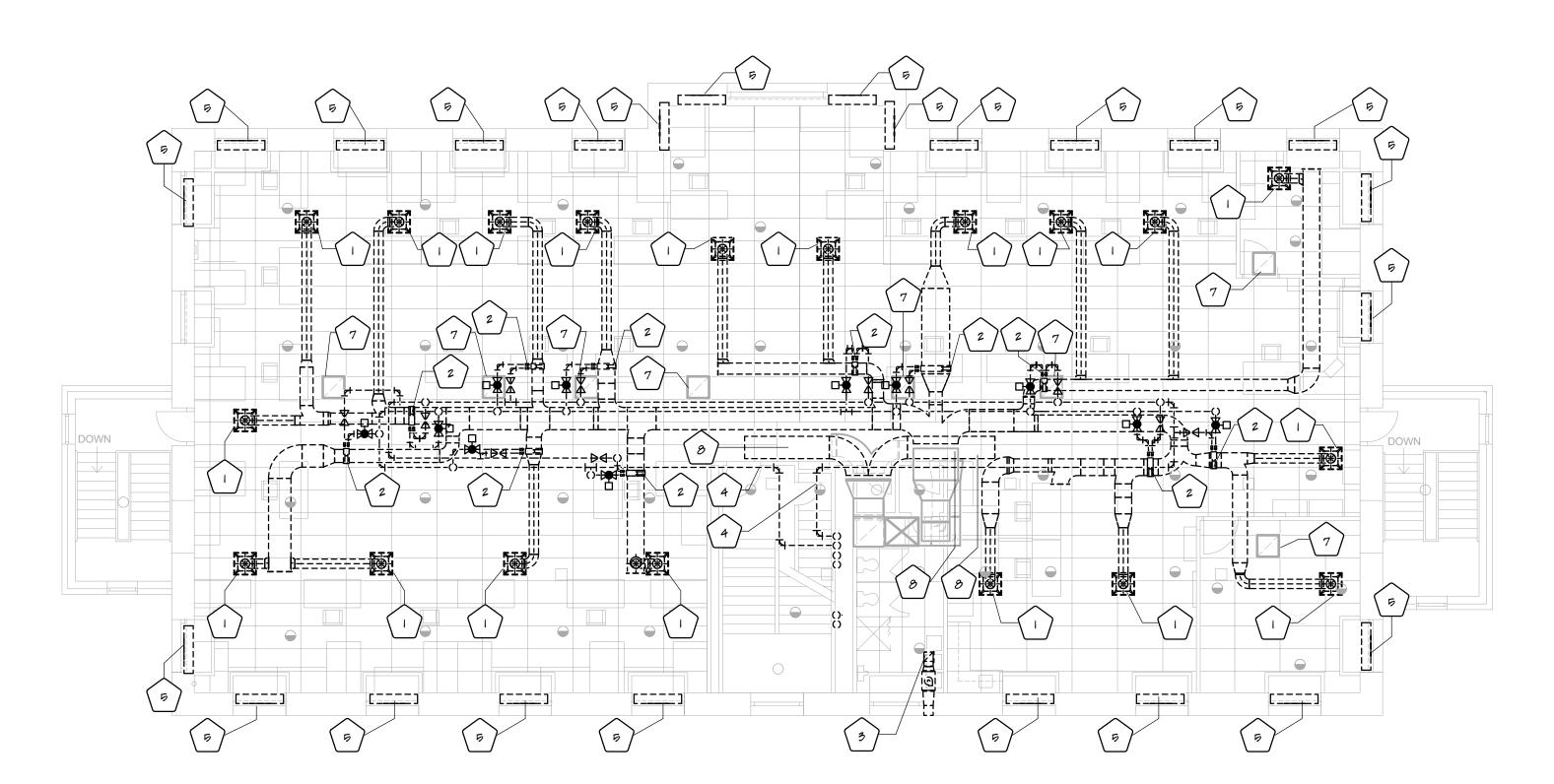
consultant

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KEYNOTE LEGEND

DESCRIPTION

DEMOLISH DIFFUSER AND ASSOCIATED DUCTWORK, HANGERS, FITTINGS

DEMOLISH REHEAT COILS AND ASSOCIATED PIPING, VALVES, HANGERS

DEMOLISH EXHAUST GRILLE, DUCTWORK, ASSOCIATED FANS, HANGERS,

ENVELOPE PENETRATIONS AS PER ARCH INSTRUCTIONS. SEE

DEMOLISH EXISTING STEAM CONDENSER. CAP OFF AND MOTHBALL

DEMOLISH HYDRONIC SUPPLY AND RETURN LOOP PIPING AND

ASSOCIATED PIPING, VALVES, HANGERS AND ALL OTHER

FITTINGS AND APURTENANCES BACK TO DUCT MAIN. PATCH ALL BUILDING

-- NOTE

AND APURTENANCES BACK TO DUCT MAIN.

ARCHITECTURAL DRAWINGS FOR DETAILS.

EXISTING RETURN GRILLE TO REMAIN.

EXISTING DUCT MAIN TO REMAIN.

AND ALL OTHER APURTENANCES.

APURTENANCES.

STEAM PIPING.

NOTE



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EXISTING SYSTEMS DEMOLITION -

SECOND FLOOR AND PENTHOUSE



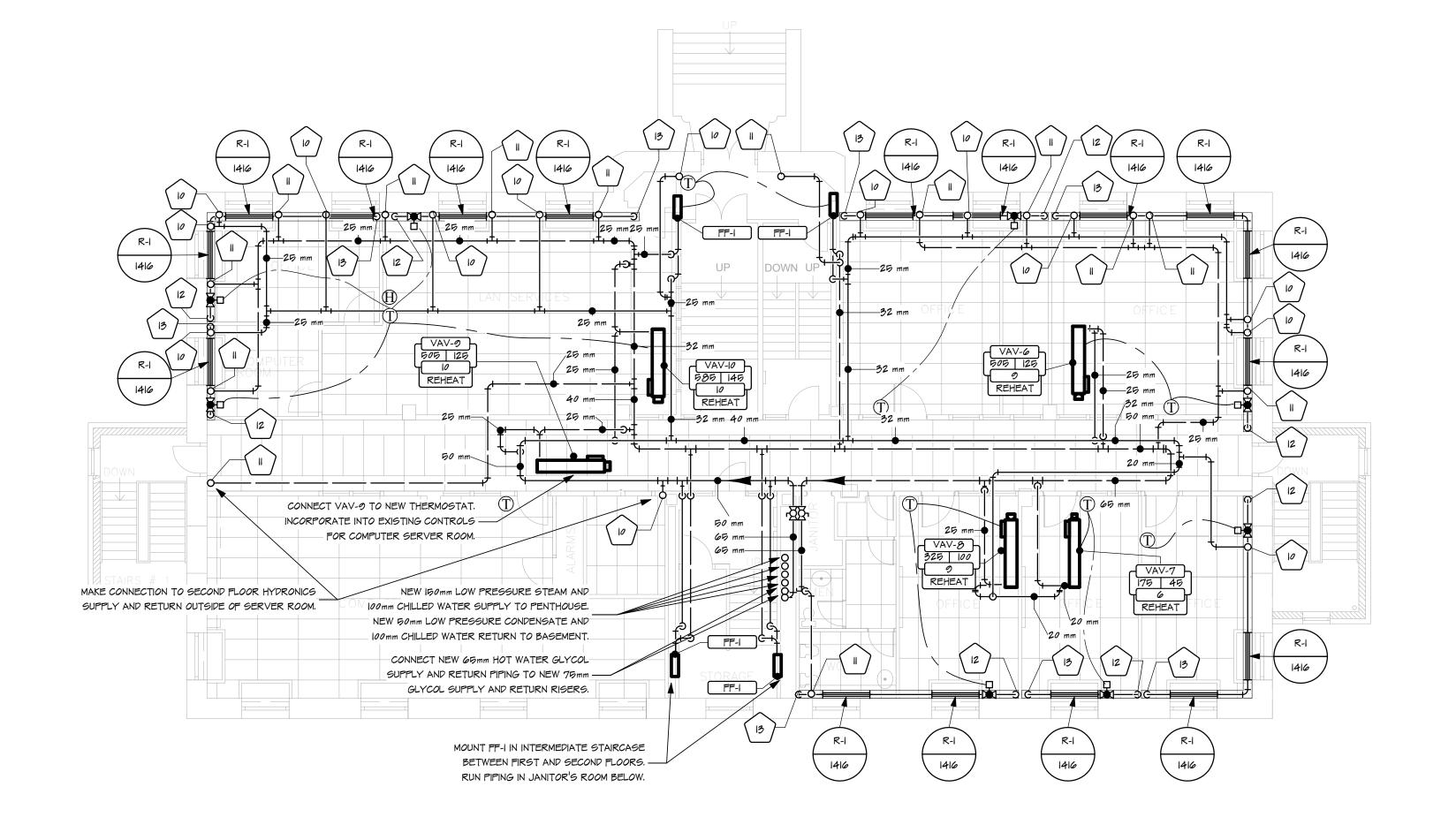
REGINA, SK

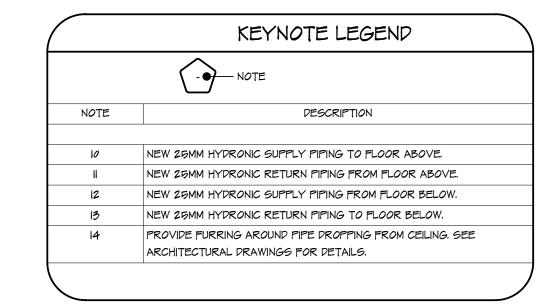
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NEW MAIN FLOOR HYDRONICS

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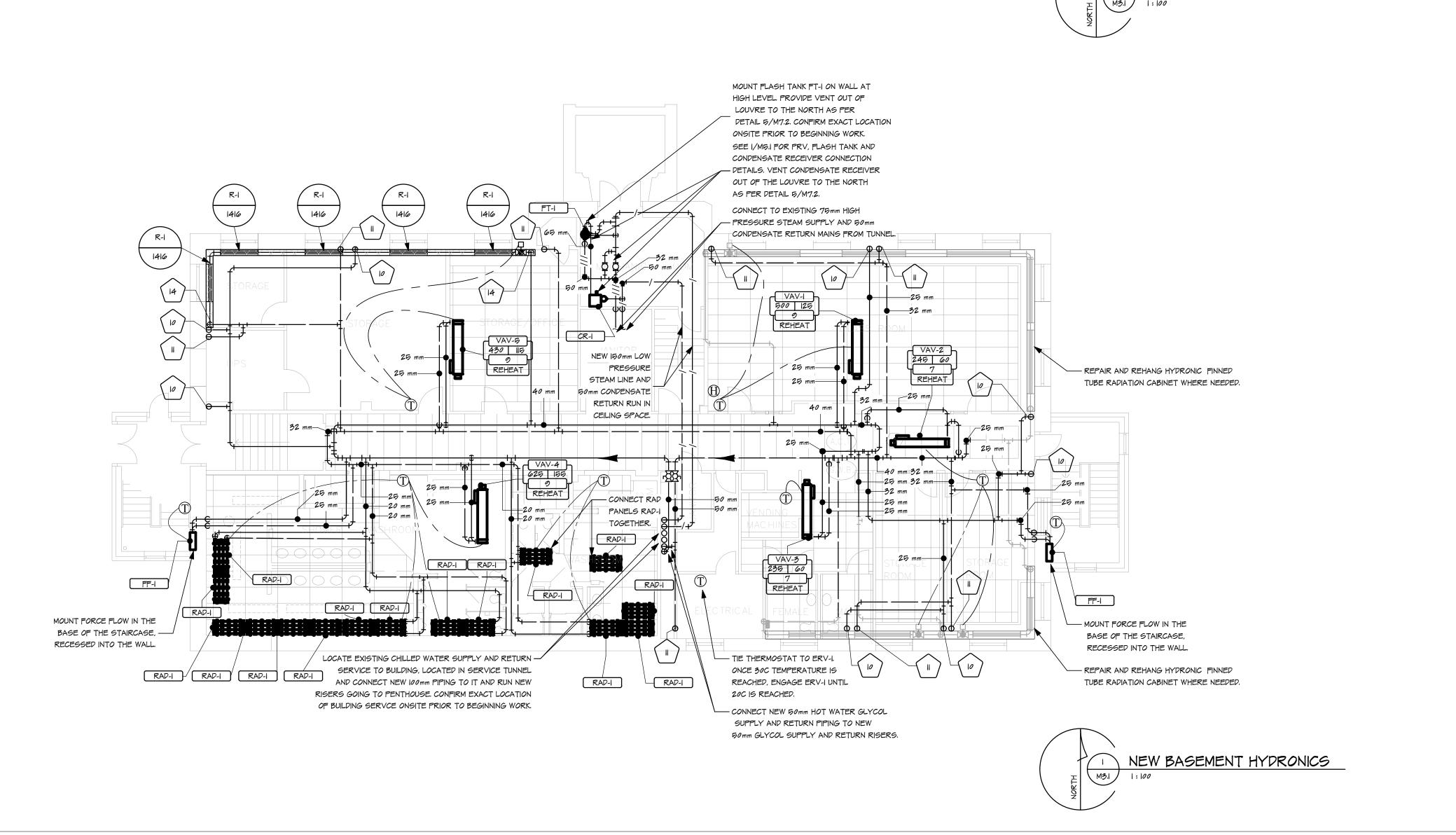
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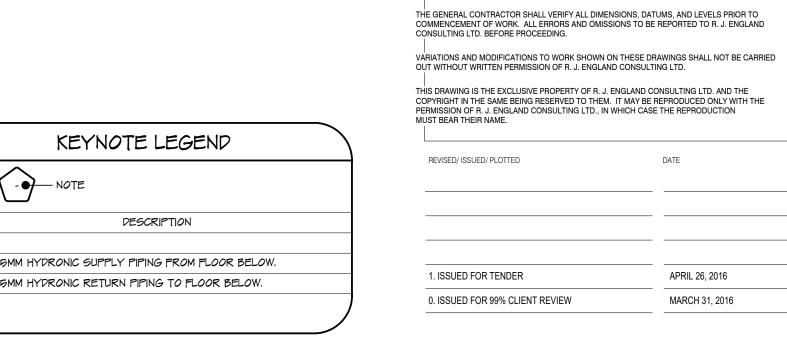
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project no. 2016008



KEYNOTE LEGEND NOTE DESCRIPTION NEW 25MM HYDRONIC SUPPLY PIPING FROM FLOOR BELOW. NEW 25MM HYDRONIC RETURN PIPING TO FLOOR BELOW.



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NEW HEATING - SECOND FLOOR

sheet title

project



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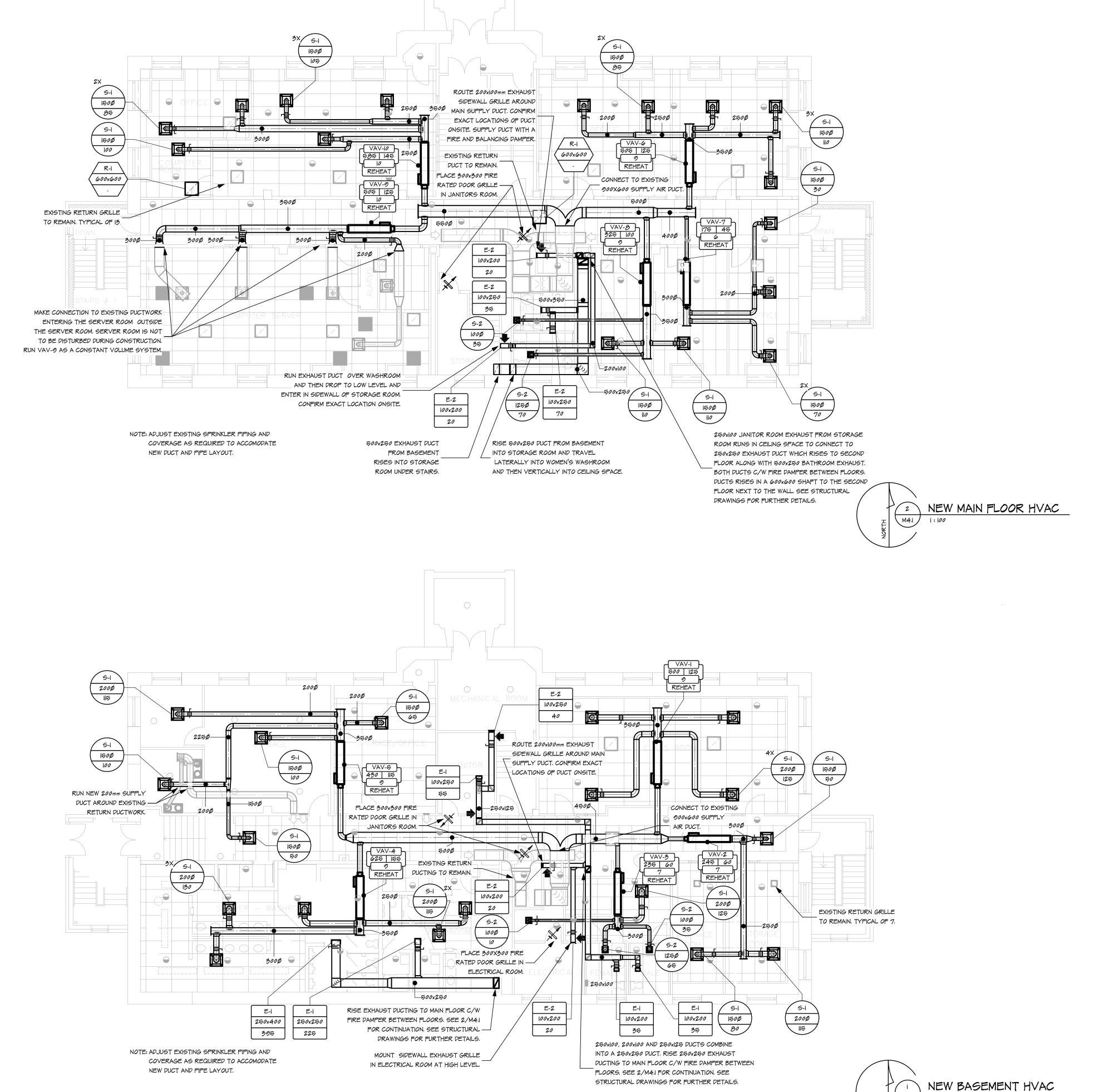
> AS INDICATED scale:

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project no. 2016008 REV 1

1416 1416 —25 mm 25 mm-25 mm— CONNECT NEW 50mm HOT WATER GLYCOL SUPPLY AND RETURN PIPING TO NEW 75mm GLYCOL SUPPLY AND RETURN RISERS. 1416 R-2 1416 R-2 R-2 R-2 R-2 R-2 NEW 150mm LOW PRESSURE STEAM, 100mm CHILLED WATER SUPPLY AND 75mm HOT WATER GLYCOL RETURN TO PENTHOUSE. NEW 50mm LOW PRESSURE CONDENSATE, 100mm CHILLED WATER RETURN, AND 75mm HOT WATER GLYCOL SUPPLY TO BASEMENT.

NEW SECOND FLOOR HYDRONICS



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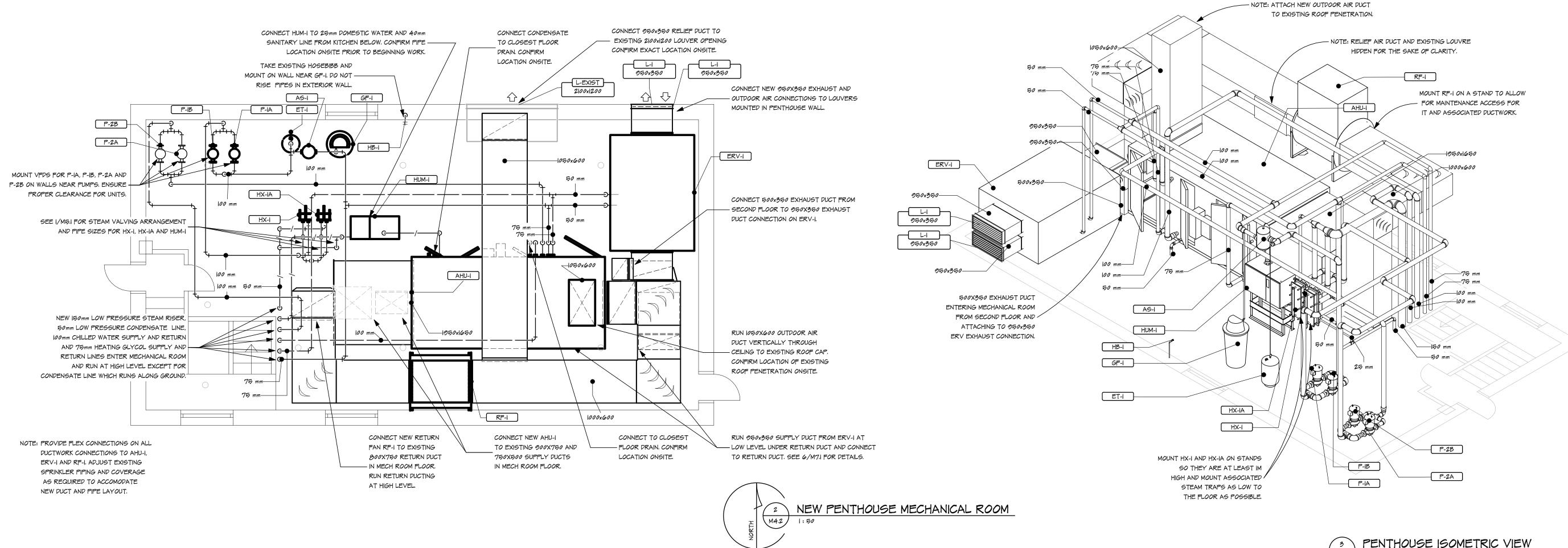
NEW VENTILATION - BASEMENT AND MAIN FLOOR sheet title

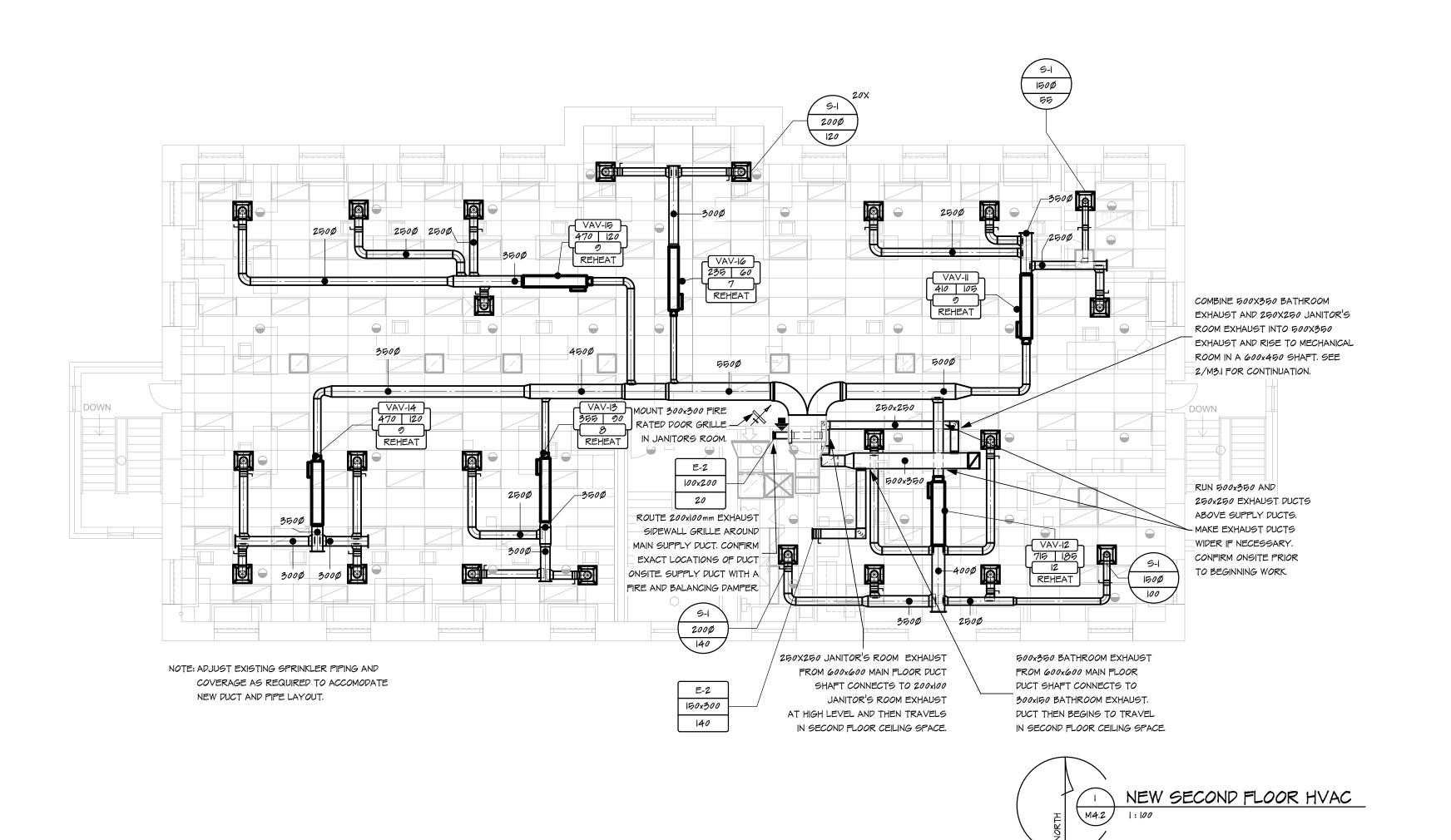


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REGINA, SK

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NEW VENTILATION - SECOND FLOOR
AND PENTHOUSE
sheet title

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CONSULTING LTD.

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Facsimile: 306.352

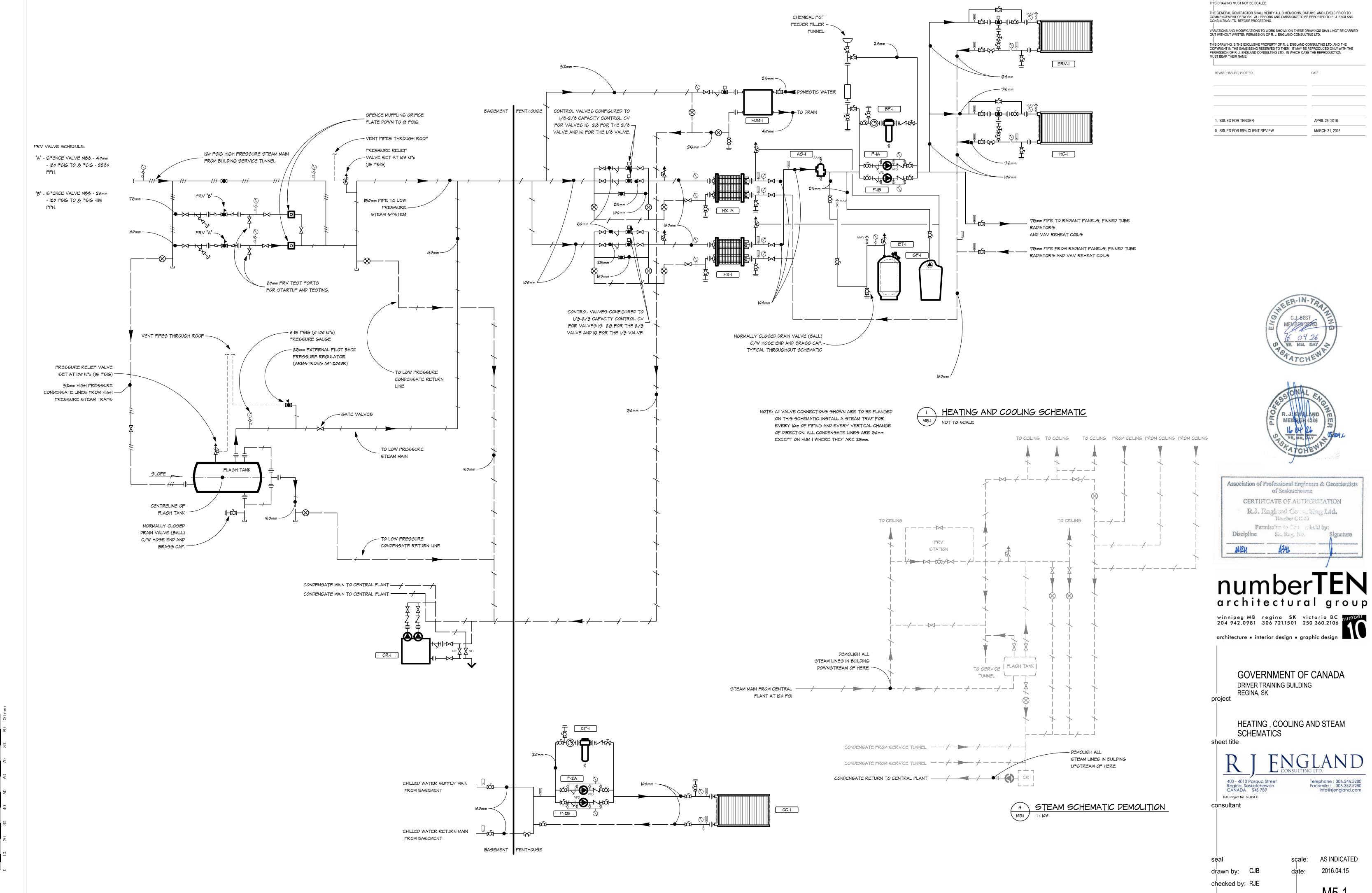
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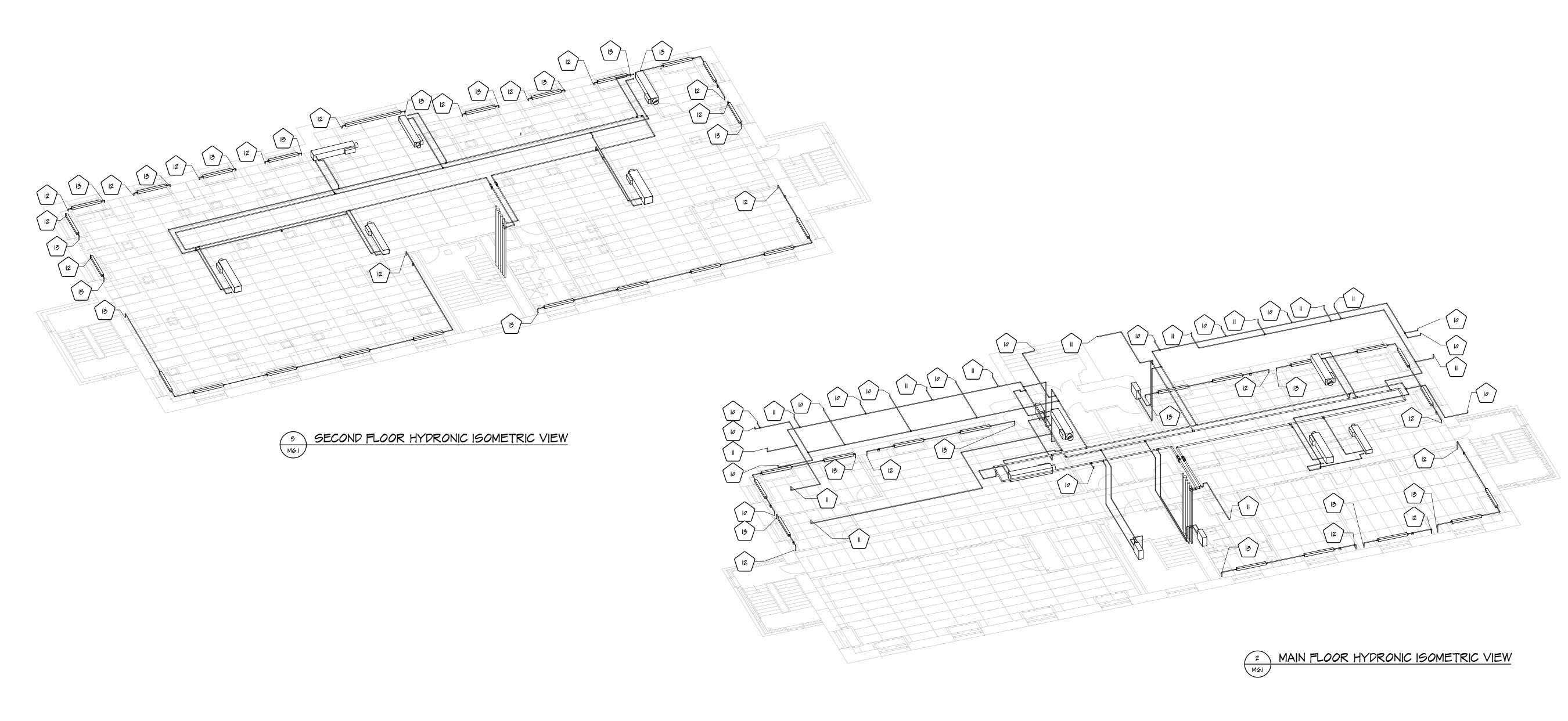
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project no. 2016008 sheet no.

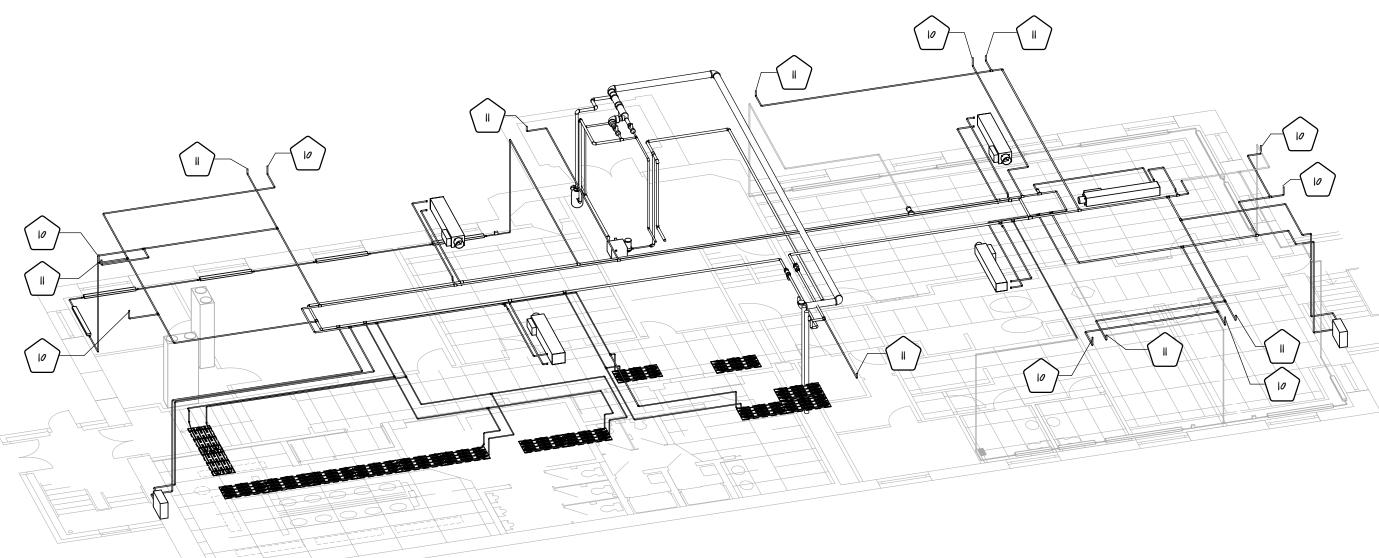
o. **IVI4.**2 REV 1



project no. 2016008



BASEMENT FLOOR HYDRONIC ISOMETRIC VIEW



	KEYNOTE LEGEND
	NOTE
NOTE	DESCRIPTION
10	NEW 25MM HYDRONIC SUPPLY PIPING TO FLOOR ABOVE.
	NEW 25MM HYDRONIC RETURN PIPING FROM FLOOR ABOVE.
II	NEW ZOMM FIT DRONG RETORN THING I ROM I LOOK ADOVE.
112	NEW 25MM HYDRONIC SUPPLY PIPING FROM FLOOR BELOW.

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REGINA, SK

HYDRONIC ISOMETRIC VIEWS

sheet tit



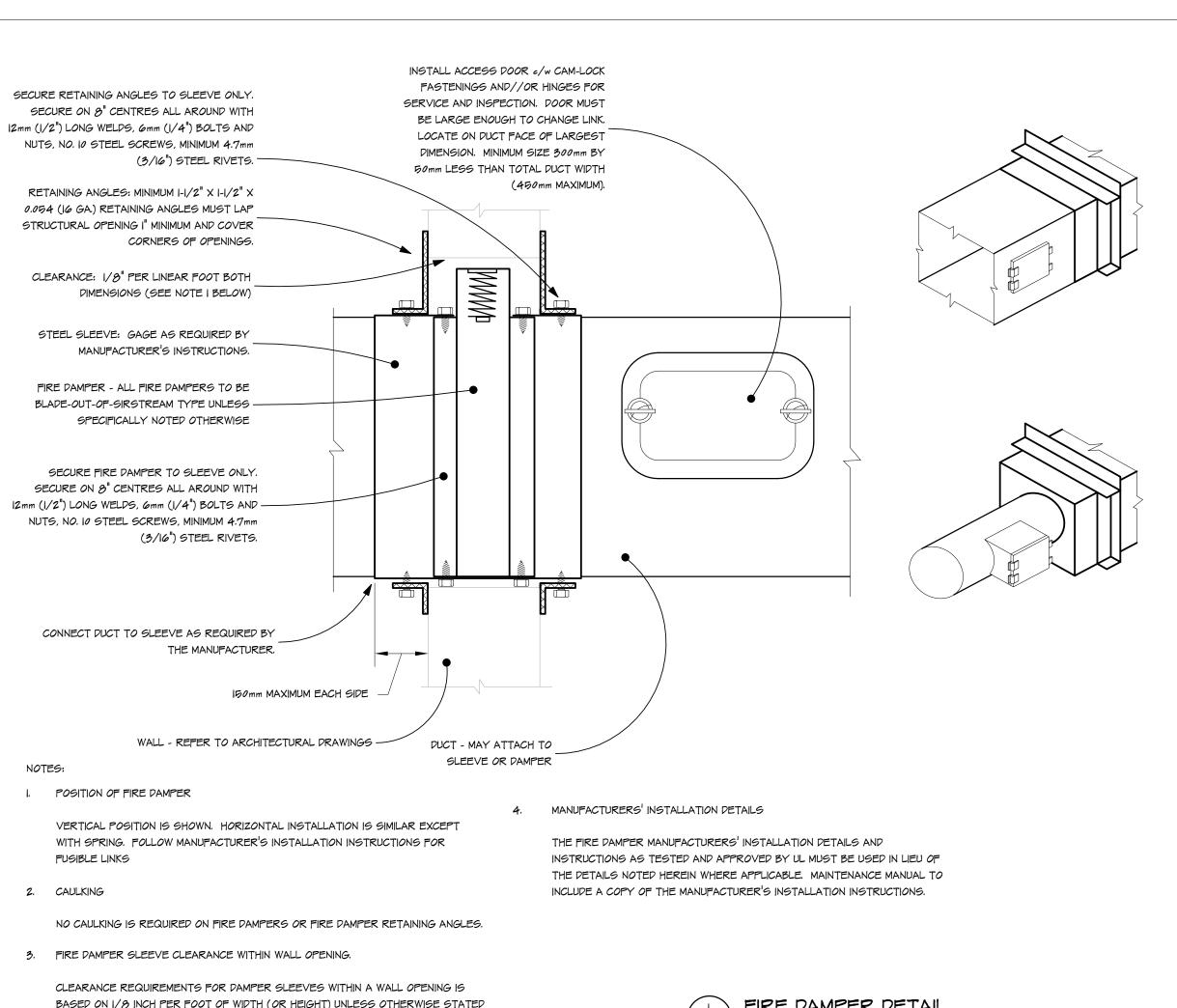
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checked by: RJE
project no. 2016008

date: 2016.04.15

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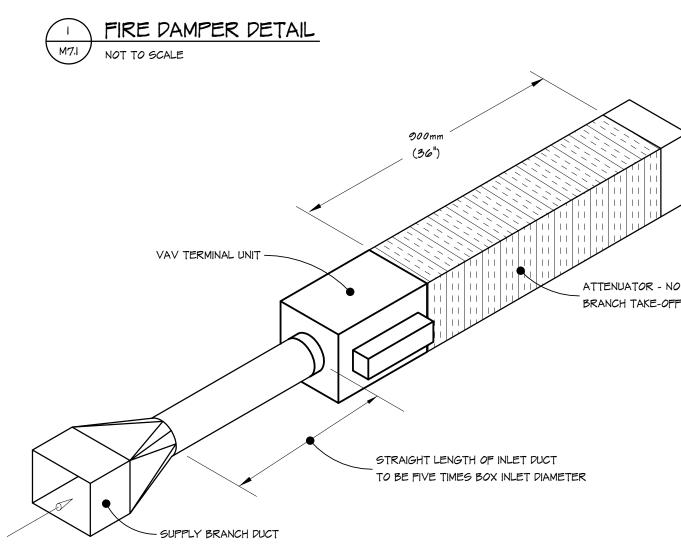


BASED ON 1/8 INCH PER FOOT OF WIDTH (OR HEIGHT) UNLESS OTHERWISE STATED IN THE MANUFACTURER'S LISTING OF THE ASSEMBLY. THE SLEEVE MAY REST ON THE BOTTOM OF THE OPENING, AND NEED NOT BE CENTRED. (FRACTIONAL DIMENSIONS SHALL BE TAKEN AS THE NEXT LARGEST WHOLE FOOT).

FOR EXAMPLE: A 30 INCH X 24 INCH FIRE DAMPER SLEEVE IS INSTALLED IN A WALL OPENING. THE OPENING SHALL BE 30-3/8 INCHES WIDE (1/8 INCH X 3 FEET) BY 24-1/2 INCHES HIGH (1/8 INCH X 2 FEET.)

THE SLEEVE IS RETAINED IN THE WALL OPENING BY THE USE OF STEEL RETAINING ANGLES. THESE MUST OVER-LAP THE EDGE OF THE FRAMING BY A MINIMUM OF 25mm (1") BEYOND ALL MATERIAL IN THE OPENING. THE MINIMUM WIDTH OF THE RETAINING ANGLE WOULD BE 1-5/8 INCHES IN THE ABOVE EXAMPLE.)

THE DIMENSIONS REQUIRED FOR THE OPENING SHALL BE THOSE REMAINING AFTER THE OPENING HAS BEEN FRAMED AND FIRE RESISTIVE MATERIALS PROVIDED WHERE REQUIRED. THE FIRE RESISTIVE MATERIALS SHALL BE EQUAL TO THE REQUIREMENTS FOR FIRE RESISTIVE MATERIALS USED IN THE CONSTRUCTED WALL SO THAT A CONTINUOUS RATING EXISTS AT THE WALL PENETRATION.



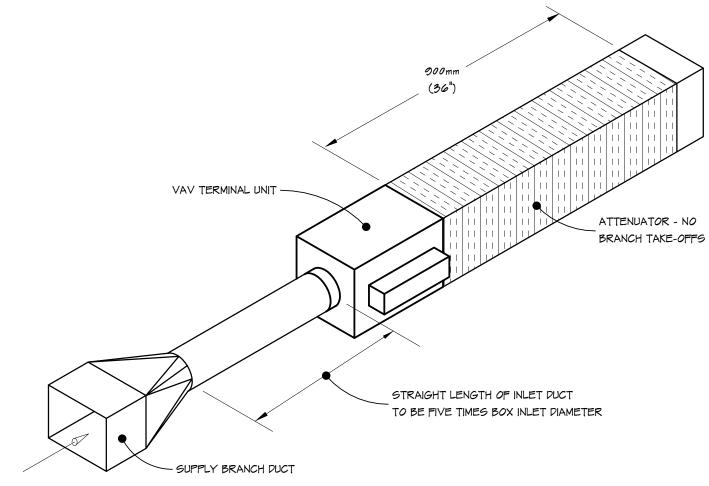
VAV BOX DETAIL NOT TO SCALE

- FLEXIBLE DUCTWORK (1200mm MAXIMUM)

- DUCT ELBOW

- SUPPLY AIR DIFFUSER

- ROUND SUPPLY AIR BRANCH DUCT



- PRESSURE TRANSDUCER RETURN AIR TO OUTDOORS FRESH AIR -FROM OUTDOORS AHU-I HEATING TO BUILDING FROM BUILDING COIL COOLING

- MECHANICAL

DAMPER

38mmx38mmx10mm GAUGE OR

HEAVIER ANGELS. SNUG TO -

WALL &COLLAR ALL AROUND.

REFER TO MANUFACTURER'S

INSTALLATION DETAILS FOR

VARIANCES IN DAMPER

DESIGN & INSTALLATION.

DIFFUSER CONNECTION DETAIL NOT TO SCALE

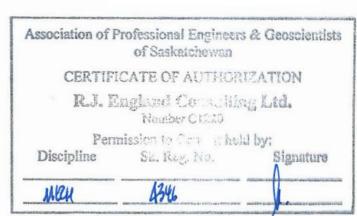
ALTERNATE LOCATION FOR FLEXIBLE DUCT

VENTILATION SCHEMATIC

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VENTILATION DETAILS AND SCHEMATIC

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sheet title

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REV 1

AS INDICATED

2016.04.15

INSULATED RIGID DUCT ELBOW- ALTERNATE LOCATION FOR INSULATED ROSSI "EVERLOCK", "TWIST-KNOB", OR FLEXIBLE DUCT. "FLAT TWIST KNOB" LOCKING BALANCING DAMPER. USE YOUNG REGULATOR DAMPER AND "270-310EZ" REMOTE CEILING OPERATOR WHERE DAMPER IS INACCESSIBLE INSULATED FLEX DUCT - MAXIMUM LENGTH 1200mm - RIGID ROUND DUCT - SIMILAR TO SECTION AT LEFT - NYLON CLAMP OVER INSULATION - NYLON CLAMP OVER FLEXIBLE DUCT - FLEXIBLE DUCT INSULATION — CEILING DIFFUSER - DUCT TAPE - RIGID DUCT INSULATION I. TAKE-OFFS SHOULD NOT BE INSTALLED CLOSER THAN TWO WIDTHS TO ELBOWS

CLEARANCE - REFER

- TO MANUFACTURER'S

RECOMMENDATIONS

/FLOOR/

WHERE DUCT IS ATTACHED TO THE

CONNECTIONS THE GAUGE OF THE

COLLAR MAY BE THE SAME AS THE

COLLAR WITH "S" AND DRIVE

GAUGE OF THE DUCT.

- COLLAR -

FIRE DAMPER

-- DUCT CONNECTION-

-PUCT CONNECTION-

-PUCT CONNECTION-

NOT TO SCALE

INSULATION.

OR INTERSECTIONS

2. NOTE: AREA OF A X B SHALL BE

EQUAL TO 1.5 X AREA BRANCH DUCT

45° TAP AND DAMPER ASSEMBLY IS PRE

FABRICATE IN SHOP OR FIELD. INSULATE.

MANUFACTURED - SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS. DO NOT

RIGID ROUND DUCT SEE PLANS FOR

- LENGTH. WRAP WITH EXTERNAL

FIRE DAMPER IN GRILLE DETAIL

CLEARANCE - REFER TO - MANUFACTURER'S

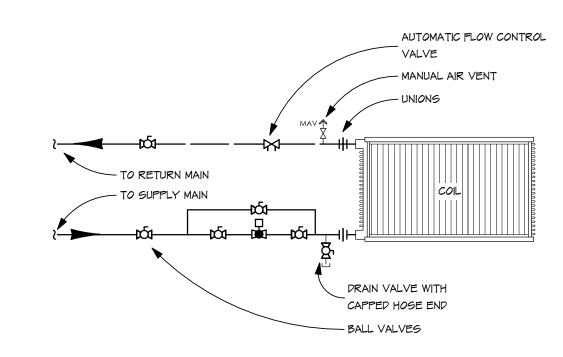
38mmx38mmx10mm GAUGE OR - HEAVIER ANGELS. SNUG TO WALL &COLLAR ALL AROUND.

RECOMMENDATIONS

BRANCH DIFFUSER CONNECTION DETAIL M7.I NOT TO SCALE

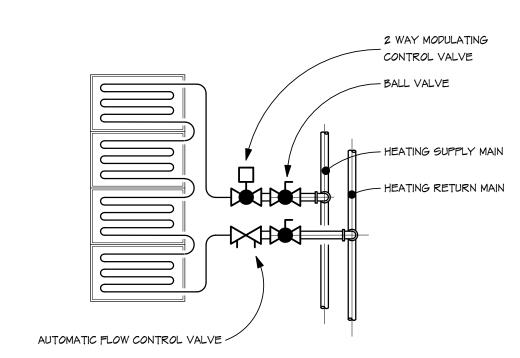
AIRFLOW FRESH AIR FROM FROM BUILDING OUTDOORS EXHAUST AIR TO CONDITIONED FRESH OUTDOORS AIR TO BUILDING

VERTICAL IN-LINE PUMP DETAIL M7.2 NOT TO SCALE



4 VAV REHEAT COIL CONNECTION DETAIL

M7.2 NOT TO SCALE

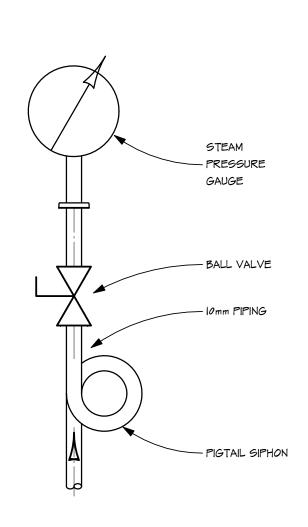


NOTES:

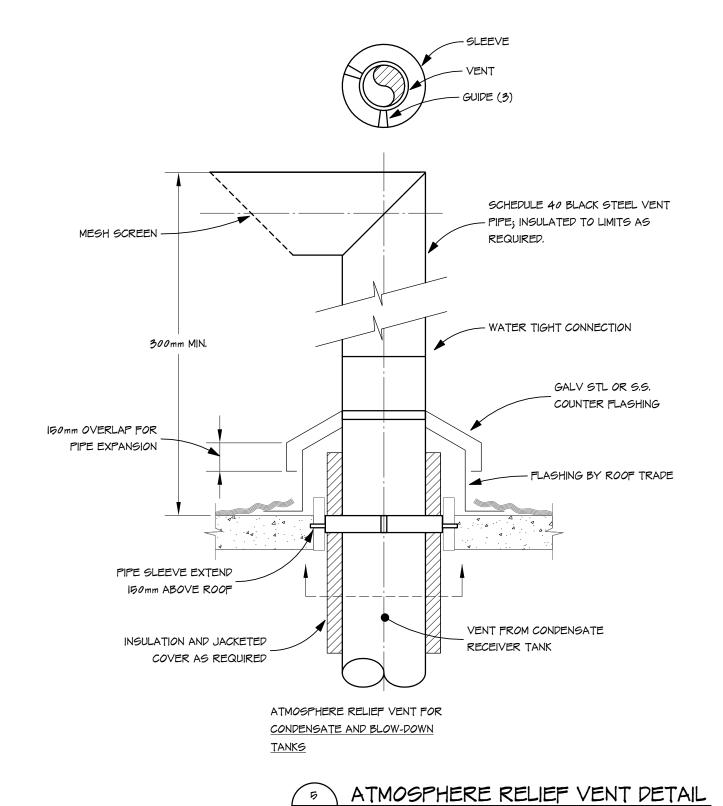
COVER TOP OF RADIANT PANELS ABOVE CEILING WITH 50mm INSULATION. INSULATION SHALL BE ENCAPSULATED AND SEALED SO THAT NO FIBREGLASS IS EXPOSED.

CONFIRM ARCHITECTURAL CEILING MEAGUREMENT (IE. HARD METRIC/IMPERIAL) OF ALL RADIANT PANELS BEFORE ORDERING.

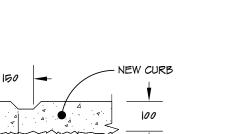
RADIANT PANEL CONNECTION DETAIL NOT TO SCALE



STEAM PRESSURE GAUGE DETAIL



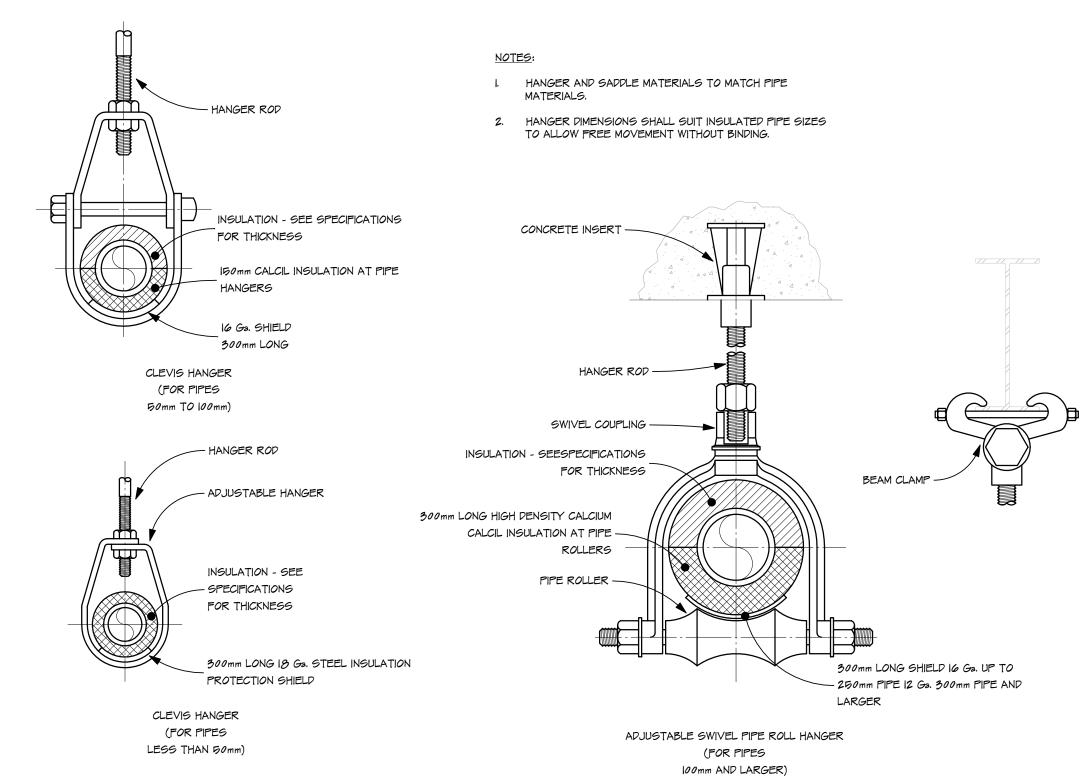
NOT TO SCALE



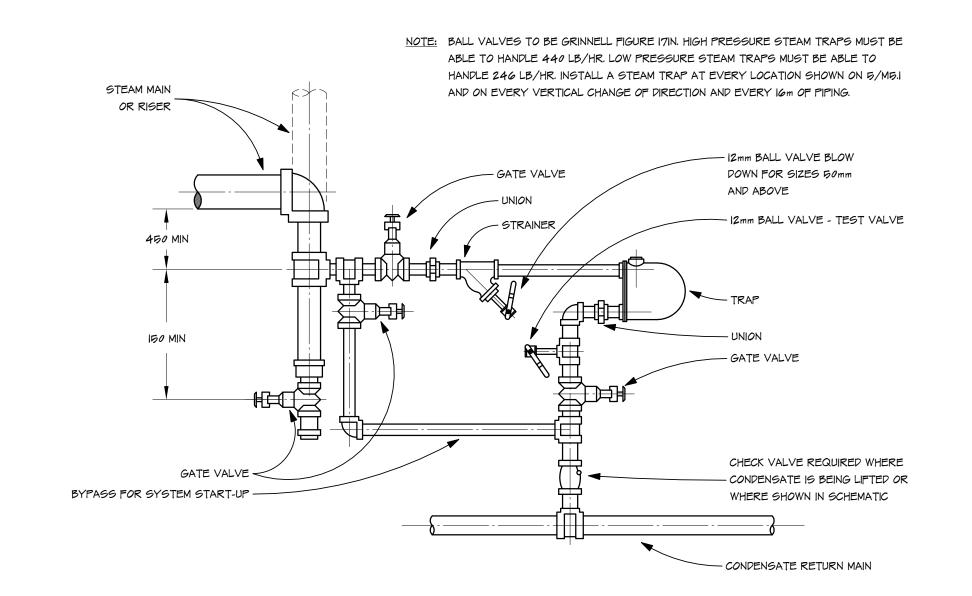
ROUGHEN EDGES

NEW CURB

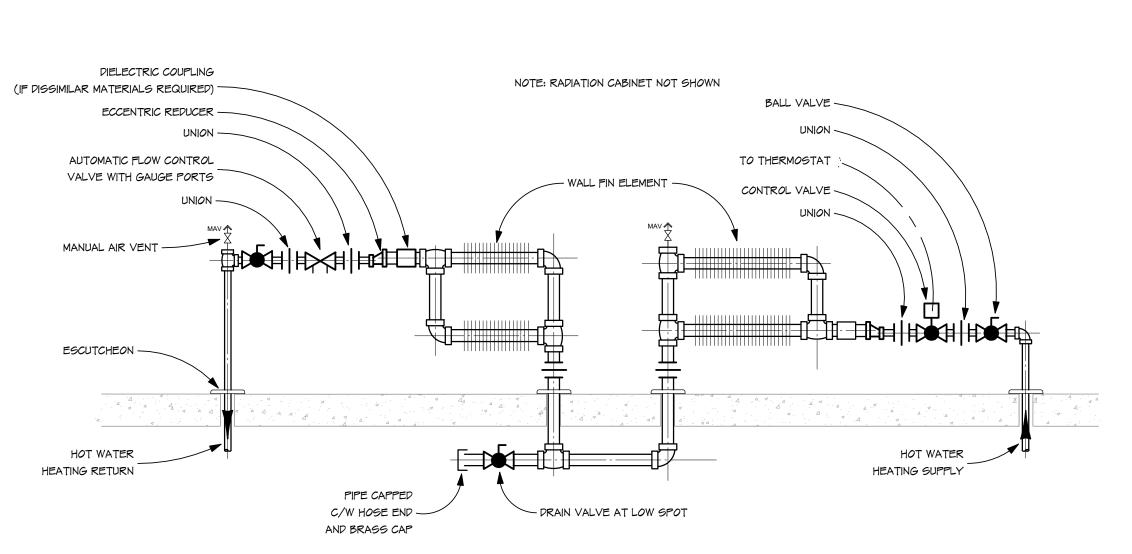
HOUSE KEEPING PAD DETAIL M7.2 NOT TO SCALE



PIPE HANGER DETAIL



6 STEAM TRAP DETAIL M7.2 NOT TO SCALE



FINNED TUBE RADIATION DETAIL M7.2 NOT TO SCALE

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1. ISSUED FOR TENDER APRIL 26, 2016 0. ISSUED FOR 99% CLIENT REVIEW MARCH 31, 2016







architectural group

winnipeg MB regina **SK** victoria BC number 204 942.0981 306 721.1501 250 360.2106 architecture = interior design = graphic design

GOVERNMENT OF CANADA DRIVER TRAINING BUILDING REGINA, SK

STEAM AND HYDRONIC DETAILS

400 - 4010 Pasqua Street

project

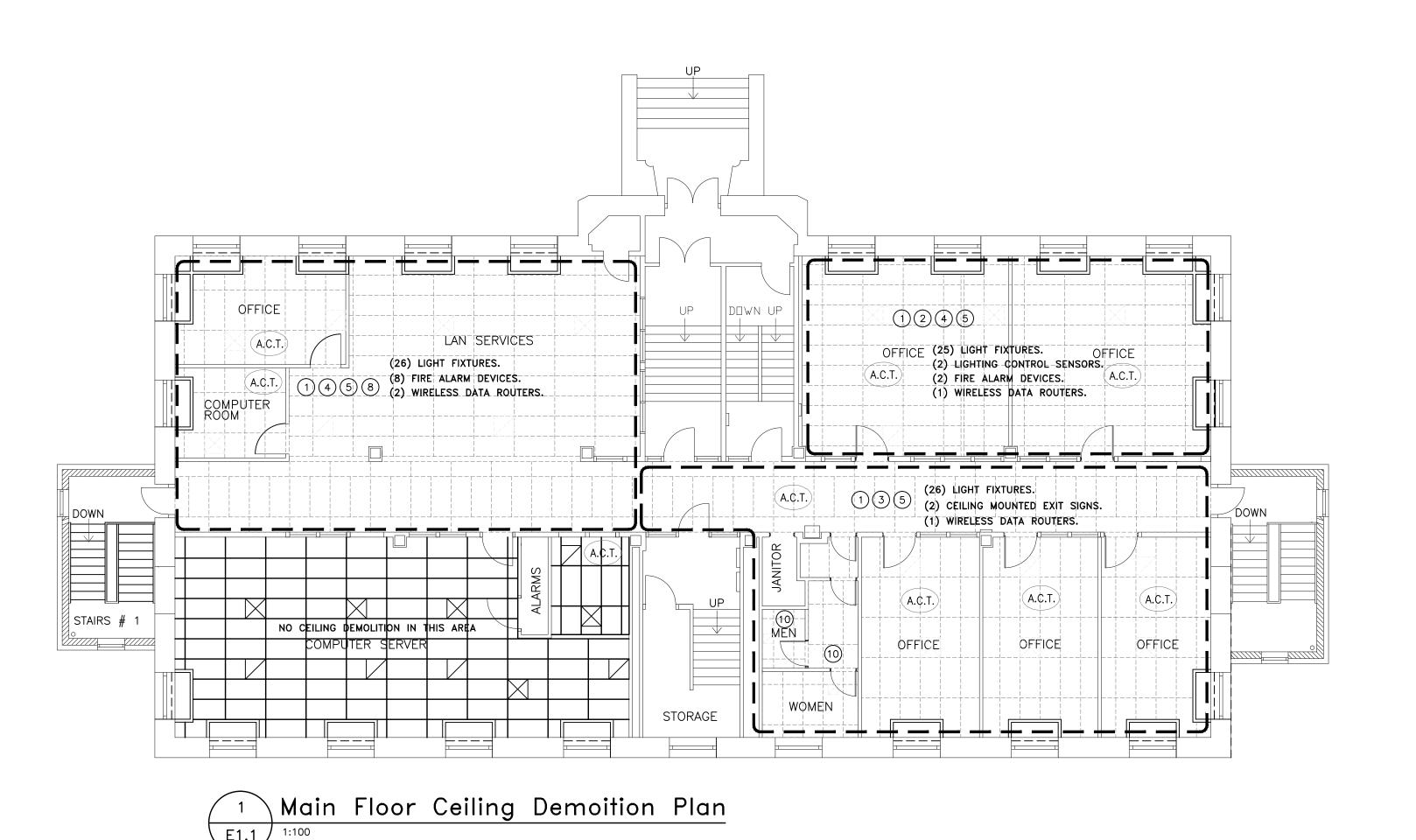
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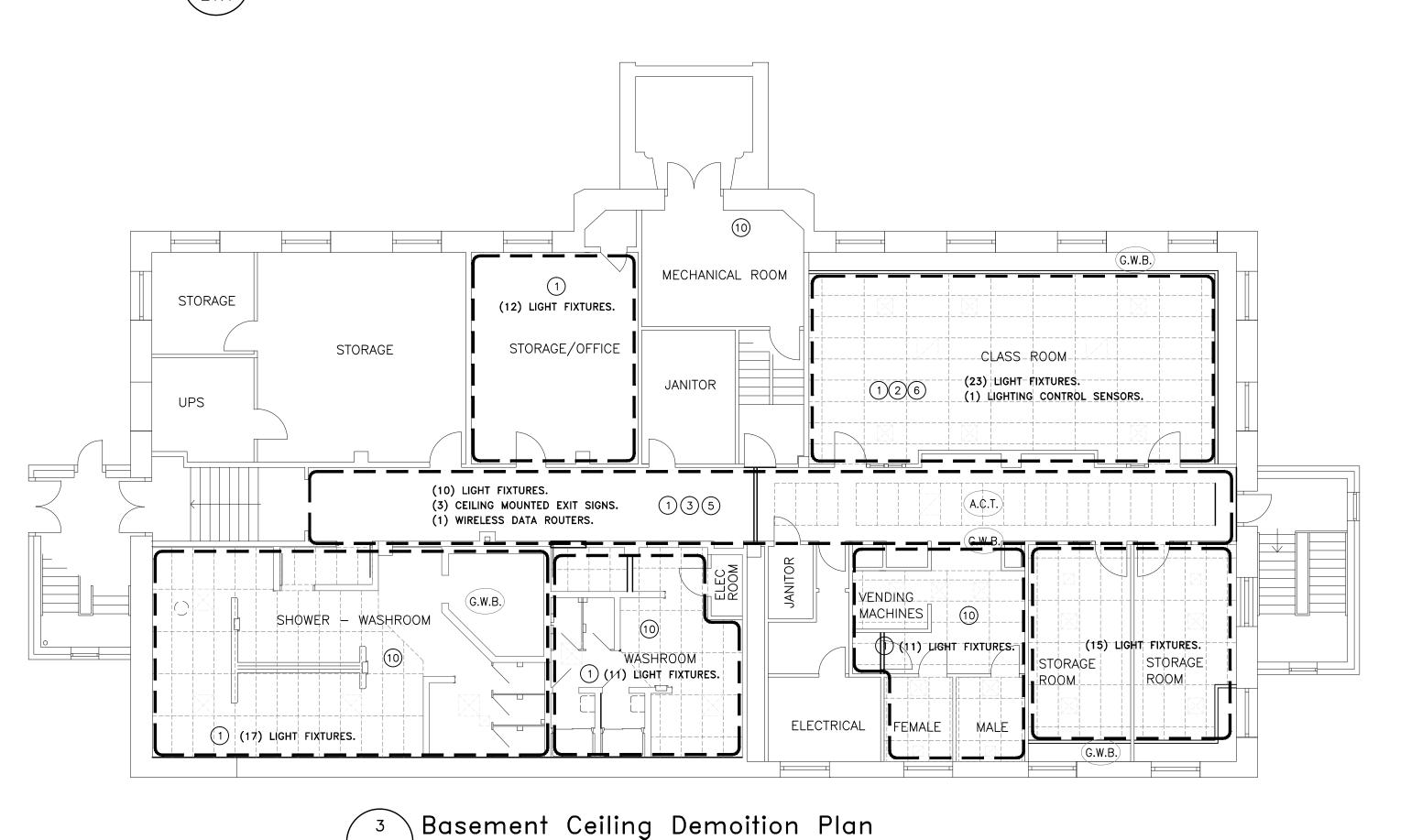
RJE Project No. 05.004.C consultant

drawn by: CJB checked by: RJE

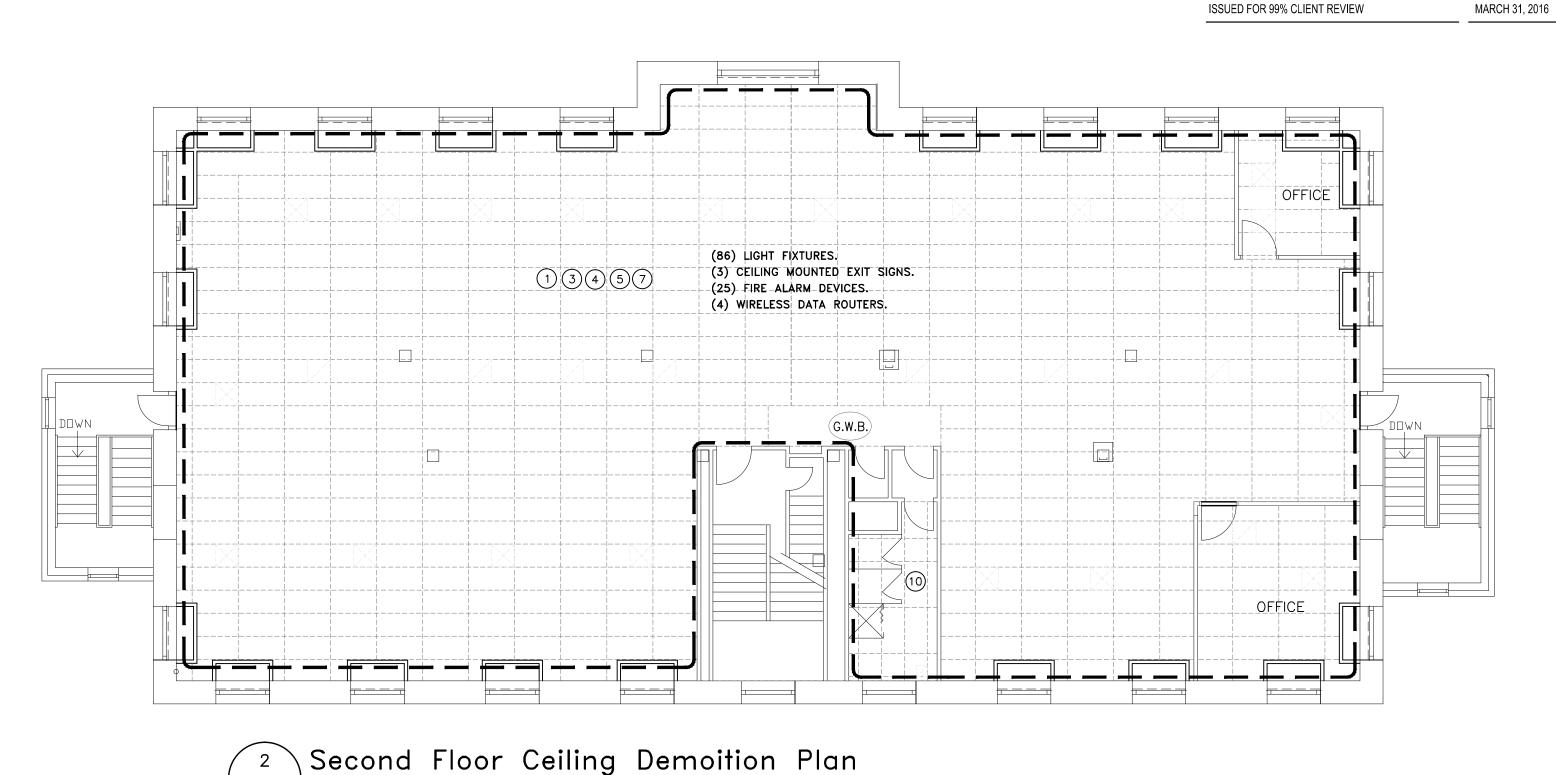
AS INDICATED 2016.04.15

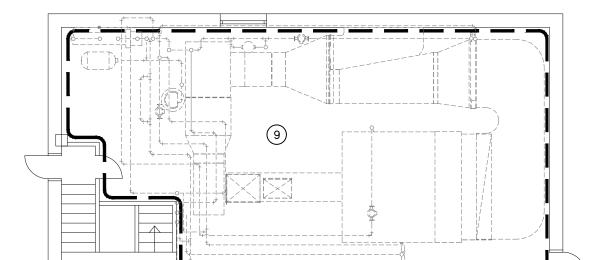
project no. 2016008





E1.1 / 1:100





E1.1 1:100

SYMBOLE SCHEDULE

- B BLANKED OUTLET C/W COVERPLATE
- J JUNCTION BOX/OUTLET BOX
- RECEPTACLES WITH NO SUFFIX SHALL BE MOUNTED UP 450mm. WHERE SUFFIXED, MOUNT AS FOLLOWS: 'a' 250mm. ABOVE COUNTER; 'f' UP 900mm.; 'm' 250mm. ABOVE COUNTER FOR MICROWAVE; 'GFI' DUPLEX GROUND FAULT INTERRUPTER RECEPTACLE.
- _____ SURFACE MOUNTED ELECTRICAL DISTRIBUTION PANEL.
- ____ MOLDED CASE TYPE CIRCUIT BREAKER, 15 AMP UNLESS OTHERWISE NOTED

MOTOR CONNECTION, SEE MECHANICAL DRAWINGS FOR DETAILS & CO-ORDINATE

- MOTOR DISCONNECT SWITCH. SUFFIX 'WP' WEATHERPROOF.



- **DEMOLITION NOTES:**
- TAKE DOWN LIGHT FIXTURES IN THIS SPACE AND STORE IN A SAFE LOCATION TO AVOID DAMAGE. RE-INSTALL FIXTURES AT THE EXISTING LOCATION AND RECONNECT TO EXISTING LIGHTING CIRCUITS.
- TAKE DOWN EXISTING LIGHTING CONTROL SENSORS IN THIS SPACE AND STORE IN A SAFE LOCATION TO AVOID DAMAGE. RE-INSTALL SENSORS AT THE EXISTING LOCATION AND PROVIDE A NEW JUNCTION BOX IN THE CEILING SPACE FOR MOUNTING OF DEVICE. RECONNECT SENSORS TO EXISTING LIGHTING CONTROL CIRCUITS.
- TAKE DOWN EXISTING CEILING MOUNTED EXIT SIGNS IN THIS SPACE AND STORE IN A SAFE LOCATION TO AVOID DAMAGE. RE-INSTALL SIGNS AT THE EXISTING LOCATIONS AND PROVIDE A NEW JUNCTION BOX IN CEILING SLACE FOR MOUNTING OF SIGN. RE-CONNECT TO EXISTING EXIT SIGN CIRCUITS AND
- TAKE DOWN EXISTING FIRE ALARM DEVICES IN THIS SPACE AND STORE IN A SAFE LOCATION TO AVOID DAMAGE. RE-INSTALL DEVICES AT THE EXISTING LOCATION AND PROVIDE A NEW JUNCTION BOX IN THE CEILING SPACE FOR MOUNTING OF DEVICE. RECONNECT DEVICES TO EXISTING FIRE ALARM LOOP AND RE-VERIFY DEVICES AS OPERATIONAL.
- TAKE DOWN EXISTING SURFACE MOUNTED WIRELESS DATA ROUTERS IN THIS SPACE AND STORE IN A SAFE LOCATION TO AVOID DAMAGE. RE-INSTALL ROUTERS AT THE EXISTING LOCATION AND PROVIDE A NEW JUNCTION BOX IN THE CEILING SPACE FOR MOUNTING OF DEVICE. RECONNECT ROUTERS TO EXISTING DATA NETWORK CABLES.
- TAKE DOWN THE EXISTING PROJECTOR AND STORE IN A SAFE LOCATION TO AVOID DAMAGE. RE-INSTALL AND RECONNECT AT THE SAME LOCATION.
- TAKE DOWN THE EXISTING EMERGENCY REMOTE LIGHTING HEAD AND STORE IN A SAFE LOCATION, AND RE-INSTALL AT THE EXISTING LOCATION AND
- 8 TAKE DOWN ONE EXISTING DOOR CHIME AND STORE IN A SAFE LOCATION TO AVOID DAMAGE. RE-INSTALL AT THE EXISTING LOCATION AND RE-CONNECT.
- 9 TAKE DOWN THE EXISTING LIGHT FIXTURES IN THIS SPACE AND RETAIN THE EXISTING LIGHTING CIRCUITS. RE-INSTALL THE EXISTING FIXTURES AT NEW LOCATIONS COORDINATED WITH THE NEW MECHANICAL EQUIPMENT AND DUCTWORK TO ACHIEVE OPTIMAL LIGHTING IN THE SPACE. PROVIDE (6) ADDITIONAL STRIP LIGHTS C/W WIRE GUARDS AND CONNECT TO THE EXISTING LIGHTING CIRCUIT AND CONTROL SWITCHES.

DISCONNECT EXISTING FANS THAT ARE BEING REMOVED AND REMOVE ALL ASSOCIATED CONDUIT AND WIRING BACK TO THE SOURCE.



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APRIL 26, 2016

BASEMENT, MAIN, SECOND & PENTHOUSE CEILING DEMOLITION

PLANS & SYMBOL SCHEDULE



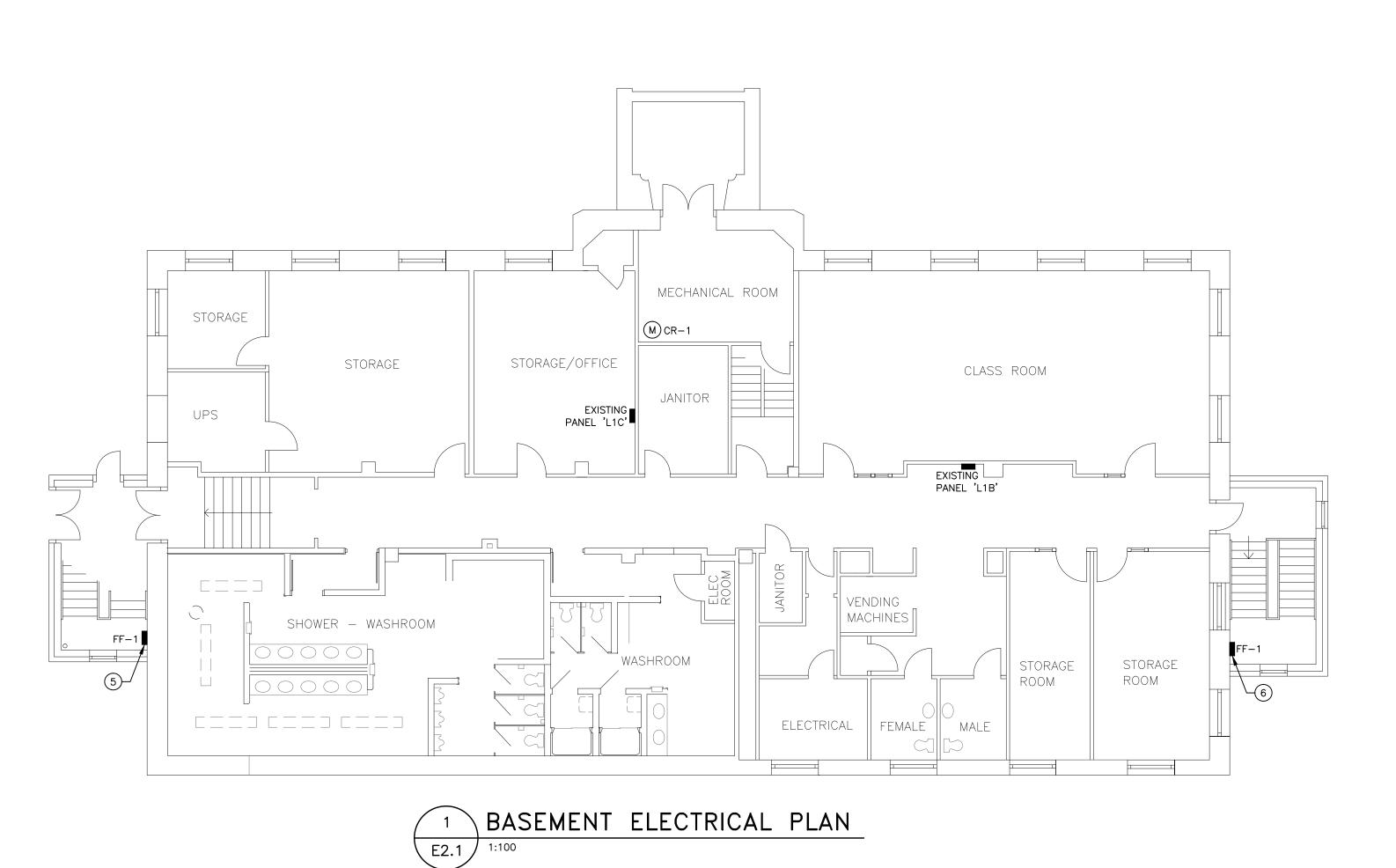
S.B. KEMP MEMBER 9273

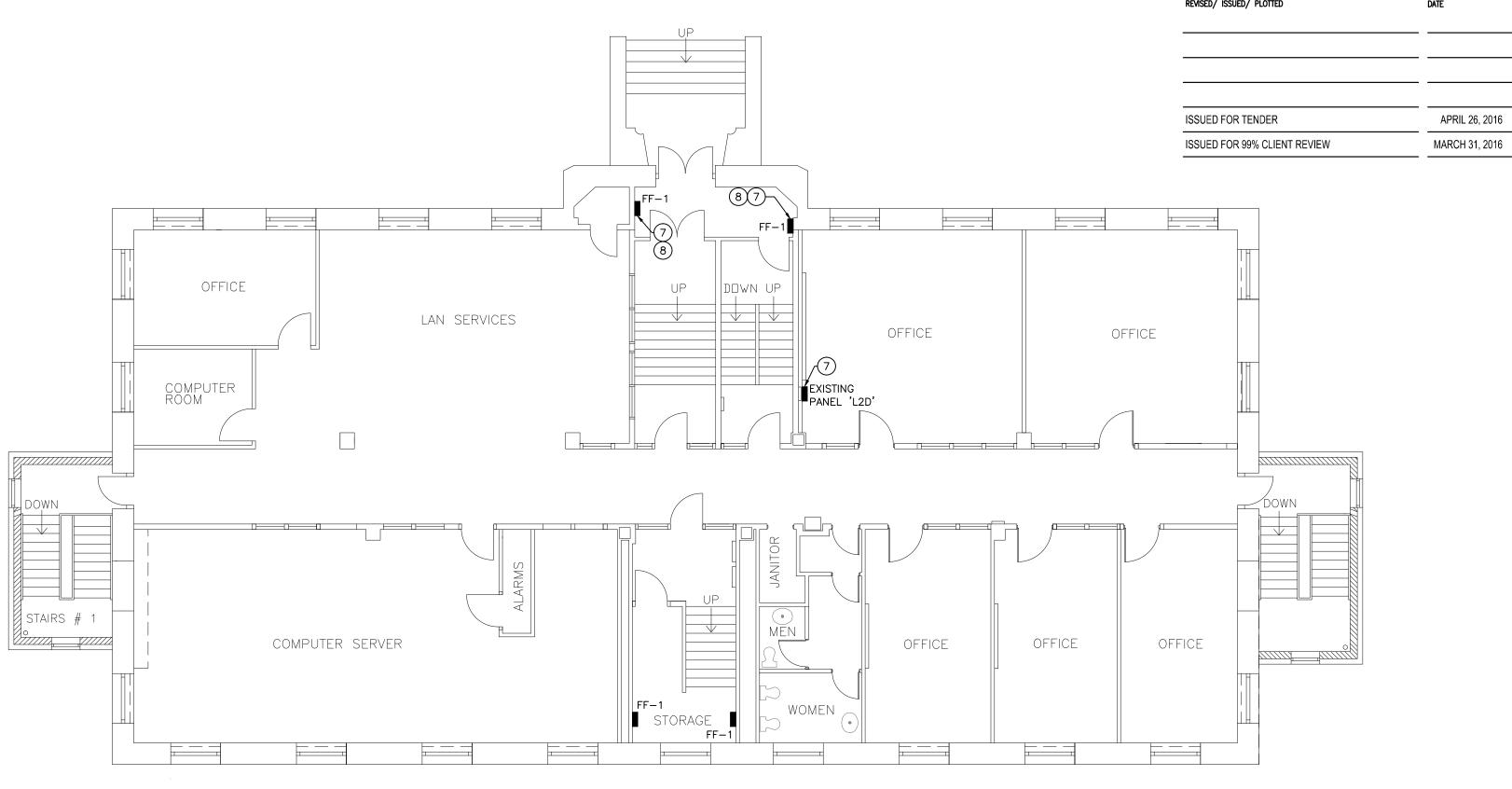
ASSOCIATION OF PROFESSIONAL ENGINEERS OF SASKATCHEWAN CERTIFICATE OF AUTHORIZATION RITENBURG & ASSOCIATES LTD. NUMBER 52 PERMISSION TO CONSULT HELD BY:

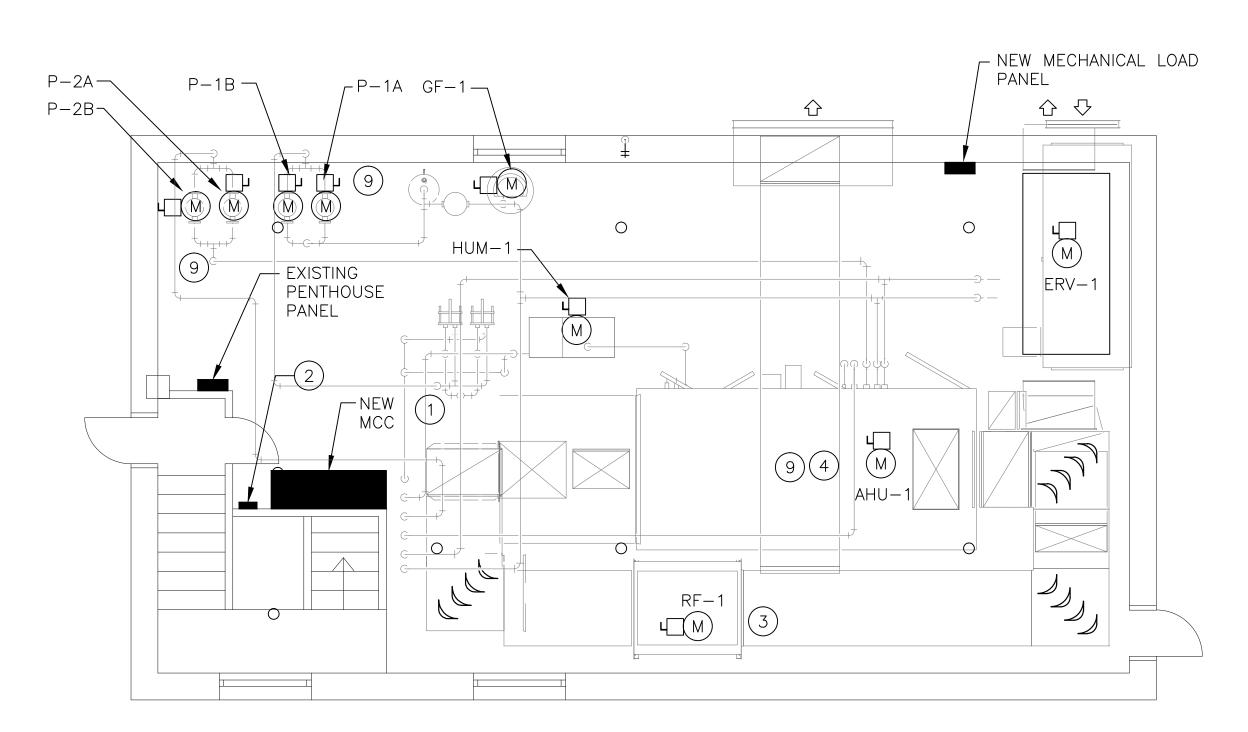
NE SASK. REG. No. SIGNATURE DISCIPLINE SASK, REG. No. 9273 ELECTRICAL

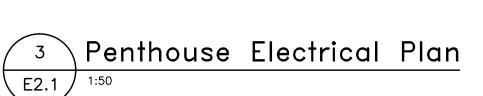
drawn by: GTK

GOVERNMENT OF CANADA











E2.1

- REMOVE EXISTING MOTOR CONTROL CENTRE EQUIPMENT AND ALL ASSOCIATED CONNECTIONS TO EXISTING MECHANICAL EQUIPMENT BEING REMOVED. INTERCEPT EXISTING FEEDER AND TIE INTO CABLE ENTRY BOX ON MCC STRUCTURE.
- EXISTING CONTROLS BOX. REMOVE EXISTING CONTROL CABLING AND CONDUIT ASSOCIATED WITH EXISTING MOTOR CONTROL BEING REMOVED BACK TO EXISTING CONTROL BOX. PROVIDE ONE (1) 50MM EMT CONDUIT FROM EXISTING CONTROLS BOX TO NEW MCC CONTROLS SECTION.
- CONDUIT FROM EXISTING CONTROLS BOX TO NEW MCC CONTROLS SECTION.

 PENOVE EXISTING POWER FACTOR CORRECTION FOLLOWERS ASSOCIATED WITH OLD SLIPBLY FAN SE-1

MAIN FLOOR ELECTRICAL PLAN

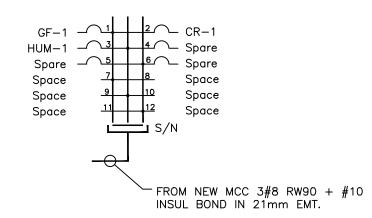
- REMOVE EXISTING POWER FACTOR CORRECTION EQUIPMENT ASSOCIATED WITH OLD SUPPLY FAN SF-1 AND ASSOCIATED CONDUIT/CABLING.
- INTERCEPT AND RECONNECT EXISTING FIRE ALARM EQUIPMENT SHUTDOWN FOR AIR HANDLING UNIT AHU-1 AND RF-1.

 5 PROVIDE NEW 15A-1P BREAKER IN EXISTING PANEL 'L1C' AND RUN 2 #12 RW90 AND BOND IN BX CABLING OR EMT TO FF-1 LOCATION.
- 6 PROVIDE NEW 15-1P BREAKER IN EXISTING PANEL 'L1B' AND RUN 2 #12 RW90 AND BOND IN BX CABLING OR EMT TO FF-1 LOCATION
- 7 PROVIDE NEW 15A-1P BREAKER IN EXISTING PANEL 'L2D' AND RUN 2 #12 RW90 AND BOND IN BX CABLING OR EMT CONDUIT TO FF-1 LOCATION.
- 8 FORCE FLOW UNITS FF-1 IN VESTIBULE MAY SHARE SAME CIRCUIT.
- 9 VFD'S ARE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR. COORDINATE FINAL LOCATIONS WITH THE MECHANICAL CONTRACTOR ON SITE.

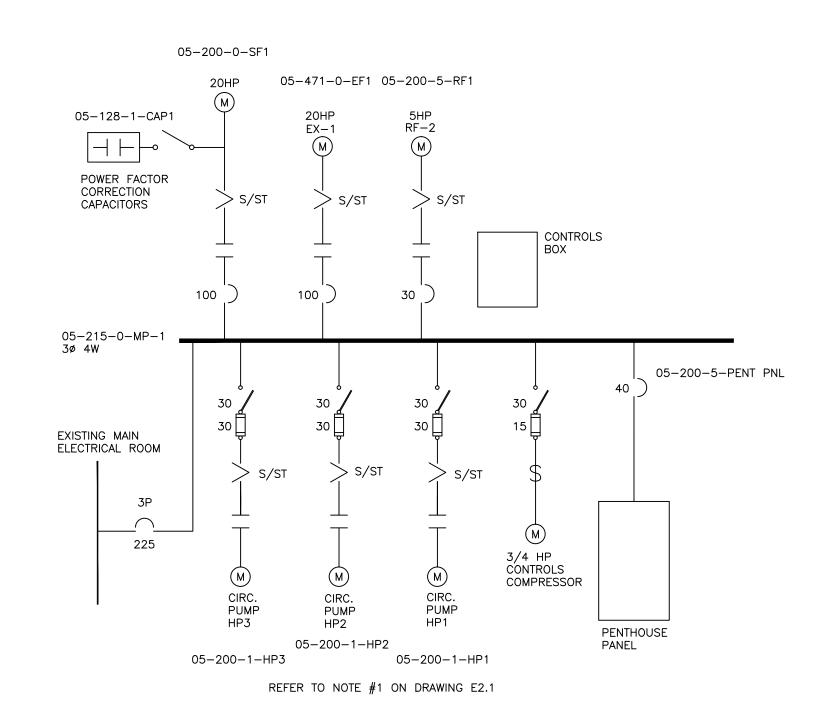


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NEW MECHANICAL LOAD PANEL

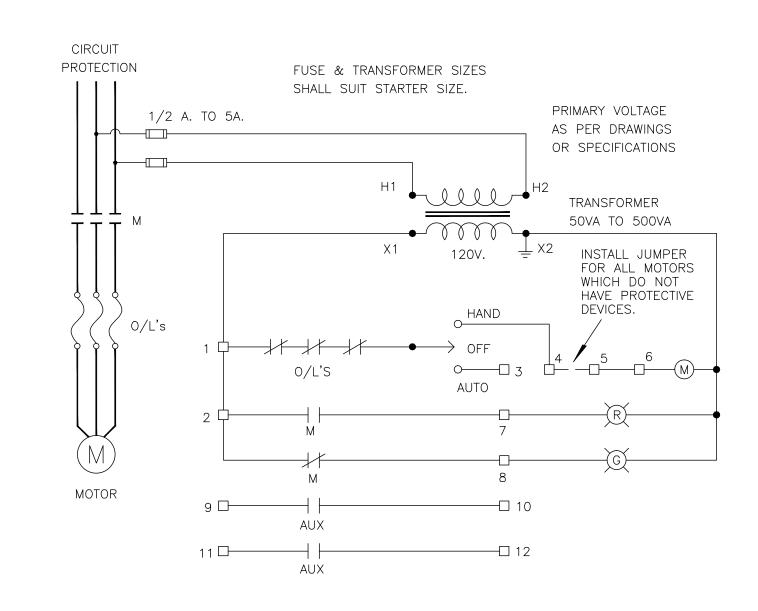


New Schematic E2.2 (120/208 V.-3ø-4W.)





MECHANICAL EQUIPMENT SCHEDULE										
DESIGNATION	HP	PHASE	VOLT	FLA	MCA	PROTECTION	CONNECTION	LOCATION	NOTES	CABLING / CONDUIT
AHU-1	15	3	208	46.20	57.80	BREAKER	DIRECT	MCC	AHU HAS LOCAL PACKAGED VFD PROVIDE LOCAL DISCONNECT	3#3 RW90 + #8 INSUL GND IN 27mm EMT
ERV-1	3	3	208	9.51		PROVIDE COMBO STARTER	DIRECT	MCC	PROVIDE LOCAL DISCONNECT	3#12 RW90 + #12 INSUL GND IN 21mm EMT
P1A	5	3	208	17.50		UNIT C/W VFD	DIRECT	MCC	PUMP C/W PACKAGED VFD PROVIDE LOCAL DISCONNECT	3#12 RW90 + #12 INSUL GND IN 21mm EMT
P1B	5	3	208	17.50		UNIT C/W VFD	DIRECT	MCC	PUMP C/W PACKAGED VFD PROVIDE LOCAL DISCONNECT	3#12 RW90 + #12 INSUL GND IN 21mm EMT
P2A	3	3	208	10.60		UNIT C/W VFD	DIRECT	MCC	PUMP C/W PACKAGED VFD PROVIDE LOCAL DISCONNECT	3#12 RW90 + #12 INSUL GND IN 21mm EMT
P2B	3	3	208	10.60		UNIT C/W VFD	DIRECT	MCC	PUMP C/W PACKAGED VFD PROVIDE LOCAL DISCONNECT	3#12 RW90 + #12 INSUL GND IN 21mm EMT
RF-1	3	3	208	10.60		PROVIDE COMBO STARTER	DIRECT	MCC	PROVIDE LOCAL DISCONNECT	3#12 RW90 + #12 INSUL GND IN 21mm EMT
FF-1	1/30	1	120	0.70		BREAKER	DIRECT	LOCAL PANEL	80 W	2#12 RW90 + #12 INSUL BOND IN BX
CR-1	1	1	120	8.4 A		BREAKER	DIRECT	LOCAL PANEL	FED FROM MECHANICAL LOAD PANEL PROVIDE LOCAL DISCONNECT	2#12 RW90 + #12 INSUL BOND IN 21mm EMT
GF-1		1	120			BREAKER	DIRECT	LOCAL PANEL	FED FROM MECHANICAL LOAD PANEL PROVIDE LOCAL DISCONNECT	2#12 RW90 + #12 INSUL BOND IN 21mm EMT
HUM-1		1	120	1.25 A		BREAKER	DIRECT	LOCAL PANEL	FED FROM MECHANICAL LOAD PANEL PROVIDE LOCAL DISCONNECT	2#12 RW90 + #12 INSUL BOND IN 21mm EMT





MECHANICAL EQUIPMENT SCHEDULE NOTES

- THE AHU IS SUPPLIED C/W MOTOR FEEDER TERMINATION BOXES MOUNTED ON THE AHU ENCLOSURE.
 VFD IS INTEGRAL AND SHALL BE INSTALLED BY THE MECHANICAL CONTRACTOR. THE ELECTRICAL
 CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING TO THE UNIT AND FROM THE VFD TO THE EQUIPMENT
 MOTOR FINAL CONNECTION.
- 2. THE CONDENSATE RECEIVER CR-1 IS SUPPLIED C/W PACKAGED STARTER. PROVIDE FINAL WIRING CONNECTION TO STARTER.
- 2. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A COMBINATION STARTER FOR THE ENERGY RECOVERY VENTILATOR ERV-1. PROVIDE FINAL WIRING CONNECTION TO STARTER.
- 3. FOR PUMPS P-1A, P-1B, P-2A AND P-2B THE VFD IS PACKAGED WITH THE PUMPS AND SHALL BE INSTALLED BY THE MECHANICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING TO THE VFD AND FROM THE VFD TO THE MOTOR FINAL CONNECTION.

MECHANICAL EQUIPMENT GENERAL NOTES

- 1. ALL CONTROL WIRING SHALL BE SUPPLIED AND INSTALLED BY THE MECHANICAL CONTROLS CONTRACTOR.
- 2. ELECTRICAL CONTRACTOR SHALL PROVIDE (1) 15 AMP 120 VOLT CIRCUIT WITH ONE JUNCTION BOX IN LOCATED IN THE WEST CEILING SPACE AND ONE JUNCTION BOX LOCATED IN THE EAST CEILING SPACE OF EACH FLOOR INCLUDING THE PENTHOUSE FOR VAV CONTROL CIRCUITS. TOTAL OF FOUR CIRCUITS. FEED FROM CLOSEST 120 VOLT DISTRIBUTION PANEL ON EACH FLOOR. COORDINATE FINAL LOCATION WITH THE MECHANICAL CONTRACTOR ON SITE.

NOTE: CONDUCTOR/CONDUIT SIZES SHOWN IN THE EQUIPMENT SCHEDULE ARE MINIMUM SIZES. FEEDERS SHALL BE ADJUSTED ACCORDINGLY TO LIMIT VOLTAGE DROP TO A MAXIMUM OF 3%.

