

GENERAL DEMOLITION NOTES:

- THESE NOTES ARE APPLICABLE TO ALL DRAWINGS
- MECHANICAL TRADES BIDDING DEMOLITION WORK SHALL ALLOW FOR A FULL DAY ON SITE TO REVIEW EXISTING MECHANICAL SERVICES AND EQUIPMENT IN DEMOLITION AND RENOVATED AREAS. ACCESS WILL BE GIVEN TO ROOF AND EXISTING MECHANICAL AND ELECTRICAL ROOMS AS REQUIRED.
- 3. PRIOR TO COMMENCING THE STRIP OUT WORKS, VISIT SITE TO UNDERSTAND THE EXTENT OF THE
- WORKS.

 4. PRIOR TO STARTING ANY WORK ON SITE, PROVIDE A METHOD STATEMENT DETAILING YOUR APPROACH TO THESE WORKS IDENTIFY AND PROTECT THOSE ELEMENTS OF THE WORKS THAT ARE TO BE RETAINED. UNDERTAKE ANY NECESSARY TEMPORARY OR ENABLING WORKS. PLEASE NOTE THAT THE CONTRACTOR IS TO BE RESPONSIBLE FOR THE DESIGN OF ANY TEMPORARY WORKS.
- PRIOR TO STARTING THE STRIPPING OUT AND DEMOLITION WORKS, MAKE SAFE ALL LIVE MECHANICAL SERVICES TO THE BUILDING
 PLEASE NOTE THAT THE INFORMATION REPRESENTED ON DRAWINGS, IN PARTICULAR THE LOCATION AND EXTENT OF THE EXISTING SERVICES, MAY NOT BE ACCURATE. IT IS THE CONTRACTORS
- WORKS.

 7. PATCH AND MAKE GOOD (TO BASE BUILDING STANDARDS) MECHANICAL COMPONENTS AND FINISHES DAMAGED DURING THE RENOVATION. PROVIDE INSULATED CAPPED CURBS EQUAL TO OR BETTER THAN BOOK BY AND BOOK TO BUILD REING.

RESPONSIBILITY TO AMPLIFY AND CONFIRM THE INFORMATION PROVIDED PRIOR TO STARTING THE

- DAMAGED DURING THE RENOVATION. PROVIDE INSULATED CAPPED CURBS EQUAL TO OR BETTER THAN ROOF R-VALUE FOR FANS, GOOSE NECK OPENINGS, VENTS AND ROOF TOP UNITS BEING REMOVED.
- 8. REMOVE ALL REDUNDANT VENTS (AIR AND PLUMBING) SHOWN WITHIN THE DEMOLITION AREA INCLUDING ROOF JACKS AND ROOF CURBS. PATCH AND MAKE GOOD OF ROOF BY OTHERS.
- IT IS IMPORTANT:
 9.1. TO TEST ANY PIPELINE PRIOR TO STRIPPING TO ENSURE THE PIPELINE IS DEAD
- 9.2. TO PROTECT ALL PIPELINES FROM ON-GOING WORKS.
- 9.3. DRAIN DOWN ALL HEATING SYSTEMS AND STRIP OUT AS NECESSARY FOR DEMOLITIONS.
 9.4. ISOLATE ALL WATER MAINS, DRAIN DOWN ALL THE SYSTEMS AND STRIP OUT WITHIN SPACES TO BE DEMOLISHED.
- 10. INCLUDE FOR REMOVING AND CAPPING PLUMBING LINES ABOVE CEILING AND BELOW FLOOR AT THE NEAREST MAIN AND ASSOCIATED PLUMBING FIXTURES, DRAINS, ETC., WITHIN AREA OF DEMOLITION AND RENOVATION.
- 11. INCLUDE FOR DISPOSAL (FROM SITE) OF ALL REMOVED EQUIPMENT AND SERVICES, DUCTWORK, PIPING, PLUMBING, FIXTURES, SPRINKLERS, ETC. INCLUDING INSULATION AND HANGERS.
- 12. SUPPLY AIR DUCTWORK AND PIPING NOT SHOWN HATCHED IS TO BE RETAINED, ANY DAMAGE TO EXISTING INSULATION AND DUCTS TO BE REPAIRED TO MATCH EXISTING.
- 13. INSULATE NEW DUCT AND PIPE CAPS.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT OF DEMOLITION.
 DURING DEMOLITION WORK, ALL MECHANICAL SYSTEMS AND BUILDING SERVICES SERVING OCCUPIED AREAS SHALL BE MAINTAINED OPERATIONAL. WHERE SYSTEM OR SERVICE INTERRUPTIONS ARE
- REQUIRED, COORDINATE AFTER HOUR ACCESS REQUIREMENTS AND SECURITY WITH GENERAL CONTRACTOR.

 16. LEAVE THE SITE IN A SAFE AND DOCUMENTED CONDITION.
- 17. THE HAZMAT CONTRACTOR WILL REMOVE ONLY THE MATERIALS CONTAINING HAZARDOUS SUBSTANCES. THE MECHANICAL CONTRACTOR WILL BE RESPONSIBLE FOR REMOVING ALL MECHANICAL PIPING AND EQUIPMENT.

AHU-1 REPLACEMENT ADDITIONAL SCOPE:

- 1) DEMOLITION OF EXISTING AHU-1 AS SHOWN ON DRAWING M241. DEMOLITION IS TO THE INCLUDE ALL ITEMS REQUIRED FOR THE REMOVAL OF EXISTING AHU-1. THIS WILL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING ITEMS ASSOCIATED WITH THE DEMOLITION OF AHU-1: ELECTRICAL POWER CONNECTION (AS INDICATED ON ELECTRICAL IFT DRAWINGS), EXISTING CONTROL SYSTEMS (WIRING, TUBES, PANEL AND ALL CONTROL DEVICES), DUCTWORK AT CONNECTION POINTS OF UNIT, HEATING WATER BRANCH PIPING CONNECTED TO AHU-1. THIS DEMOLITION IS ALSO TO INCLUDE ALL OTHER HANGARS, SUPPORT AND ACCESSORIES ASSOCIATED WITH THE DEMOLITION OF EXISTING AHU-1.
- 2) PROVISION, WARRANTY AND INSTALL OF NEW AHU-1 AS SHOWN ON DRAWING M241 AND SCHEDULED ON DRAWING M400
 3) POWER CONNECTION OF NEW AHU-1 AND ASSOCIATED COMPONENTS AS INDICATED ON ELECTRICAL IFT DRAWINGS
- 4) NEW DDC CONTROLS FOR AHU-1 AND ASSOCIATED COMPONENTS AS INDICATED ON ELECTRICAL IFT DRAWINGS

 4) NEW DDC CONTROLS FOR AHU-1 AS INDICATED IN IFT SPECIFICATIONS. INCLUDING BUT NOT LIMITED TO: WIRING, PROGRAMMING, GRAPHICS, NEW AHU BUILDING CONTROLLER AND POINTS AS SCHEDULED IN SPECIFICATION SECTIONS 25 05 01, 25 90 01 & 25 90 02)
- 5) CONNECTION OF DUCTWORK BETWEEN NEW AHU AND EXISTING DUCTWORK AS SHOWN ON DRAWING M241
 6) NEW HEATING WATER BRANCH PIPING FROM EXISTING HEATING WATER MAINS TO NEW AHU-1 SHOWN ON DRAWING M241. BRANCH PIPING TO INCLUDE NEW CONTROL VALVE, SHUT-OFF
- VALVES, INSULATION AND OTHER ACCESSORIES.
 7) ALL CRAWLSPACE LEVEL CHILLED WATER BRANCH PIPING NORTH OF GRIDLINE 9 TO LOCATION OF NEW AHU-1 SHOWN ON DRAWINGS M201 AND M241. THIS IS TO INCLUDE CHILLED WATER

PIPING THROUGH EXISTING CRAWLSPACE, BASEMENT AND MECHANICAL ROOM. BRANCH PIPING TO INCLUDE NEW CONTROL VALVE, SHUT-OFF VALVES, INSULATION AND OTHER ACCESSORIES

FOR GAS COMPANY		
NEW EQUIPMENT	INPUT (kW)	MINIMUM DIOTANCE BETWEEN

NEW EQUIPMENT	INPUT (kW)	
BOILERS (B-1, B-2)	2@ 100 KW (3@ 341 CFH)	MINIMUM DISTANCE BETWEEN GAS LINE AND UNDERGROUND
		SERVICES - 2m
EXISTING EQUIPMENT		
CAFE OVEN	XX KW (XXX CFH)	
TOTAL:	1,001 KW (3,421 CFH)	

FOR MECHANICAL CONTRACTOR

PRIOR TO COMMENCING INSTALLATION WITHIN THE BUILDING, THE MECHANICAL CONTRACTOR SHALL CHECK THE LOCATION AND INVERT ELEVATIONS OF ALL SERVICE LINES INCLUDING SANITARY SEWER, STORM SEWER, WATER MAINS, AND GAS MAINS WITH LOCAL AUTHORITIES TO ENSURE THAT THESE SERVICES CAN BE INSTALLED AS SHOWN.

MINIMUM DISTANCE FROM METER VENTS TO OPERABLE WINDOWS, INTAKES OR DOORS SHALL BE 3 METERS (10 FEET).

TEMPORARY GAS CONNECTION TO BE PROVIDED. DICONNECT AND REMOVE TEMPORARY PIPE ONCE

STORM LOAD

BASED ON RAINFALL INTENSITY OF 13mm/15min

SIZE LITRES

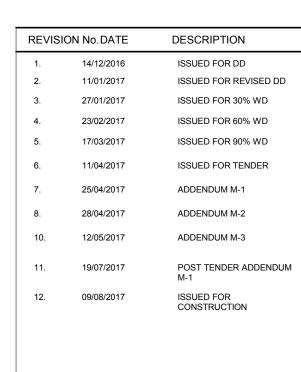
TERMINAL EXPANSION	200ø	18,000 L
SANITARY LOAD		
	SIZE	FU
TERMINAL EXPANSION	150ø	92FU

DOMESTIC WATER LOAD				
TERMINAL EXPANSION	SIZE	FU	L/S	
WASHROOM GROUPS AND OFFICE LOAD	75ø	270 FU	-	
FIRE PROTECTION LOAD	150ø		24.6 L/S	
TOTAL COMBINED LOAD	150ø	270 FU	31.2 L/S	

NO.	TITLE	SCALE
M001	MECHANICAL LEGEND AND DRAWING LIST	NTS
M002	GEOEXCHANGE FIELD	1:500
M101	CRAWLSPACE - DEMO HVAC	1:100
M102	LEVEL 1 - DEMO HVAC	1:100
M103	ROOF - DEMO HVAC	1:100
M104	CRAWLSPACE - DEMO PLUMBING	1:100
M105	LEVEL 1 - DEMO PLUMBING	1:100
M106	ROOF - DEMO PLUMBING	1:100
M201	CRAWLSPACE - HYDRONICS	1:100
M202	LEVEL 1 - HYDRONICS	1:100
M211	CRAWLSPACE - HVAC	1:100
M212	LEVEL 1 - HVAC	1:100
M213	ROOF - HVAC	1:100
M221	CRAWLSPACE - PLUMBING	1:100
M222	LEVEL 1 - PLUMBING	1:100
M223	ROOF - PLUMBING	1:100
M231	CRAWLSPACE - FIRE PROTECTION	1:100
M232	LEVEL 1 - FIRE PROTECTION	1:100
M241	EXISTING MECHANICAL ROOM	1:50
M242	NEW MECHANICAL ROOM	1:50
M251	WASHROOM LAYOUT	1:50
M300	VENTILATION SCHEMATIC	NTS
M301	HYDRONICS SCHEMATIC	NTS
M302	FIRE PROTECTION & WATER ENTRY SCHEMATIC	NTS
M400	EQUIPMENT SCHEDULE	NTS
M401	EQUIPMENT SCHEDULE	NTS
M500	DETAILS-1	NTS
M501	DETAILS-2	NTS
M502	DETAILS-3	NTS

A.F.F	ABOVE FINISHED FLOOR	DIGITAL SENSOR	?
C/W	COMPLETE WITH		_
E/A	EXHAUST AIR	LOCAL CONTROLS	(?)
F/A, T/A	FROM ABOVE, TO ABOVE	CARBON DIOXIDE	CO2
F/B, T/B	FROM BELOW, TO BELOW	SMOKE DETECTOR	SD
г/в, 1/в N.T.S	NOT TO SCALE	TEMPERATURE	Т
N.1.5 O/A	OUTSIDE AIR	HUMIDITY	Н
O/A R/A	RETURN AIR	COMBUSTIBLE GAS	CG
R/A RWL	RAIN WATER LEADER		
RVVL S/A	SUPPLY AIR	METER	? <u>M</u>
T.O.D.	TOP OF DUCT	WATER METER	W
T.O.P.	TOP OF PIPE	ENERGY METER	E
U.O.D.	UNDERSIDE OF DUCT	GAS METER	G
U.O.P.	UNDERSIDE OF PIPE		-
U/S	UNDERSIDE		
	LIST OF STIMBO	OLS AND SERVICES	
EXISTING SERVICE		BOOSTED SERVICE	————XXXB
REMOVED SERVICE		SERVICE BELOW	XXXBL\
			, /
SUPPLY LINE		RELOCATED ITEM	× ò
RETURN LINE		- REMOVE ITEM	×
SANITARY DRAIN	SAN	CLEAN OUT - (END OF LINE)	CO
STORM DRAIN	CTM		
STORM DRAIN	STW	- CLEAN OUT - (AT GRADE)	
VENT PIPE		FLOOR/ ROOF/ HUB/ AREA DRAIN	* ?
DRAIN TILE	X	-	
	•	PLUMBING FIXTURE TAG	?
DOMESTIC COLD WATER		-	
DOMESTIC HOT WATER		HOSE BIBB	-\(
			HB-
HEAT TRACED PIPING		P-TRAP	° —
0-0-1/	200		<u> </u>
GEOEXCHANGE GROUND LO	OOP GHX	VENT UP	87
HEAT PUMP LOAD SIDE	HPL	-	S. Milk
HEAT PUMP SOURCE	HPS	VENT THROUGH ROOF	0
LILAT I UWIF SOUKUE			
CHILLED WATER	CHW	- GAS	G
HEATING WATER	HW	-	-
		0141202 0 51112	>
CONDENSATE	COND	SIAMESE CONNECTIONS	
			•
WALL MOLINITED FIDE EVILL	IGUISHER 💥 FF	ZONE CONTROL VALVE	
WALL MOUNTER FIRE EXTIN	IGUISHER FE		
WALL MOUNTER FIRE EXTIN	, , , , , , , , , , , , , , , , , , ,	ZONE CONTROL VALVE SPRINKLER - WET	SPR
SEMI-RECESSED FIRE EXTIN	NGUISHER - FE-SR	SPRINKLER - WET	
SEMI-RECESSED FIRE EXTIN	NGUISHER —FE-SR		SPR F∆
SEMI-RECESSED FIRE EXTIN	NGUISHER ————————————————————————————————————	SPRINKLER - WET	
SEMI-RECESSED FIRE EXTINGUIS PIPE ELBOW RISING / DROF	NGUISHER ————————————————————————————————————	P & T RELIEF VALVE BALANCING VALVE	r½ ——
SEMI-RECESSED FIRE EXTIN	NGUISHER ————————————————————————————————————	SPRINKLER - WET P & T RELIEF VALVE	rt <u>V</u>
SEMI-RECESSED FIRE EXTINGUIS PIPE ELBOW RISING / DROF	NGUISHER ————————————————————————————————————	P & T RELIEF VALVE BALANCING VALVE	r½ ——
SEMI-RECESSED FIRE EXTINGUIS RECESSED FIRE EXTINGUIS PIPE ELBOW RISING / DROP PIPE TEE DOWN STACK UP/ DOWN	NGUISHER ————————————————————————————————————	P & T RELIEF VALVE BALANCING VALVE GLOBE VALVE SUPERVISED VALVE	r∆ —— ₩ —————————————————————————————————
SEMI-RECESSED FIRE EXTINGUIS RECESSED FIRE EXTINGUIS PIPE ELBOW RISING / DROF	NGUISHER ————————————————————————————————————	P & T RELIEF VALVE BALANCING VALVE GLOBE VALVE	r½ ——
SEMI-RECESSED FIRE EXTINGUIS RECESSED FIRE EXTINGUIS PIPE ELBOW RISING / DROP PIPE TEE DOWN STACK UP/ DOWN	NGUISHER ————————————————————————————————————	P & T RELIEF VALVE BALANCING VALVE GLOBE VALVE SUPERVISED VALVE	r∆ —— ₩ —————————————————————————————————
SEMI-RECESSED FIRE EXTINGUIS RECESSED FIRE EXTINGUIS PIPE ELBOW RISING / DROF PIPE TEE DOWN STACK UP/ DOWN SHUT OFF VALVE 2-WAY CONTROL VALVE	FE-SR FE-R FE-R FE-R	SPRINKLER - WET P & T RELIEF VALVE BALANCING VALVE GLOBE VALVE SUPERVISED VALVE PLUG VALVE PRESSURE REDUCING VALVE	
SEMI-RECESSED FIRE EXTINGUIS RECESSED FIRE EXTINGUIS PIPE ELBOW RISING / DROF PIPE TEE DOWN STACK UP/ DOWN SHUT OFF VALVE	NGUISHER ————————————————————————————————————	P & T RELIEF VALVE BALANCING VALVE GLOBE VALVE SUPERVISED VALVE PLUG VALVE	r∆ —— ₩ —————————————————————————————————
SEMI-RECESSED FIRE EXTINGUIS RECESSED FIRE EXTINGUIS PIPE ELBOW RISING / DROF PIPE TEE DOWN STACK UP/ DOWN SHUT OFF VALVE 2-WAY CONTROL VALVE 3-WAY CONTROL VALVE	FE-SR FE-R FE-R FE-R	P & T RELIEF VALVE BALANCING VALVE GLOBE VALVE SUPERVISED VALVE PLUG VALVE PRESSURE REDUCING VALVE PUMP REDUCED PRESSURE BACKFLOW	
SEMI-RECESSED FIRE EXTINGUIS RECESSED FIRE EXTINGUIS PIPE ELBOW RISING / DROF PIPE TEE DOWN STACK UP/ DOWN SHUT OFF VALVE 2-WAY CONTROL VALVE 3-WAY CONTROL VALVE CHECK VALVE	FE-SR FE-R FE-R FE-R	P & T RELIEF VALVE BALANCING VALVE GLOBE VALVE SUPERVISED VALVE PLUG VALVE PRESSURE REDUCING VALVE PUMP	
SEMI-RECESSED FIRE EXTINGUIS RECESSED FIRE EXTINGUIS PIPE ELBOW RISING / DROF PIPE TEE DOWN STACK UP/ DOWN SHUT OFF VALVE 2-WAY CONTROL VALVE 3-WAY CONTROL VALVE CHECK VALVE UNION OR FLANGE	FE-SR FE-R FE-R FE-R	P & T RELIEF VALVE BALANCING VALVE GLOBE VALVE SUPERVISED VALVE PLUG VALVE PRESSURE REDUCING VALVE PUMP REDUCED PRESSURE BACKFLOW	FA
SEMI-RECESSED FIRE EXTINGUIS RECESSED FIRE EXTINGUIS PIPE ELBOW RISING / DROF PIPE TEE DOWN STACK UP/ DOWN SHUT OFF VALVE 2-WAY CONTROL VALVE 3-WAY CONTROL VALVE CHECK VALVE UNION OR FLANGE	FE-SR FE-R FE-R FE-R	P & T RELIEF VALVE BALANCING VALVE GLOBE VALVE SUPERVISED VALVE PLUG VALVE PRESSURE REDUCING VALVE PUMP REDUCED PRESSURE BACKFLOW ASSEMBLY THERMOMETER	FA
SEMI-RECESSED FIRE EXTINGUIS PIPE ELBOW RISING / DROF PIPE TEE DOWN STACK UP/ DOWN SHUT OFF VALVE 2-WAY CONTROL VALVE 3-WAY CONTROL VALVE CHECK VALVE UNION OR FLANGE STRAINER -Y OR BASKET	FE-SR FE-R FE-R FE-R	SPRINKLER - WET P & T RELIEF VALVE BALANCING VALVE GLOBE VALVE SUPERVISED VALVE PLUG VALVE PRESSURE REDUCING VALVE PUMP REDUCED PRESSURE BACKFLOW ASSEMBLY	FA
SEMI-RECESSED FIRE EXTINGUIS PIPE ELBOW RISING / DROF PIPE TEE DOWN STACK UP/ DOWN SHUT OFF VALVE 2-WAY CONTROL VALVE 3-WAY CONTROL VALVE CHECK VALVE UNION OR FLANGE STRAINER -Y OR BASKET AUTOMATIC AIR VENT	FE-SR FE-R FE-R AAV	P & T RELIEF VALVE BALANCING VALVE GLOBE VALVE SUPERVISED VALVE PLUG VALVE PRESSURE REDUCING VALVE PUMP REDUCED PRESSURE BACKFLOW ASSEMBLY THERMOMETER	FA
SEMI-RECESSED FIRE EXTINGUIS PIPE ELBOW RISING / DROP PIPE TEE DOWN STACK UP/ DOWN SHUT OFF VALVE 2-WAY CONTROL VALVE 3-WAY CONTROL VALVE CHECK VALVE UNION OR FLANGE STRAINER -Y OR BASKET AUTOMATIC AIR VENT DOUBLE CHECK VALVE ASS	FE-SR FE-R FE-R AAV	P & T RELIEF VALVE BALANCING VALVE GLOBE VALVE SUPERVISED VALVE PLUG VALVE PRESSURE REDUCING VALVE PUMP REDUCED PRESSURE BACKFLOW ASSEMBLY THERMOMETER	FA
SEMI-RECESSED FIRE EXTINGUIS PIPE ELBOW RISING / DROF PIPE TEE DOWN STACK UP/ DOWN SHUT OFF VALVE 2-WAY CONTROL VALVE 3-WAY CONTROL VALVE CHECK VALVE UNION OR FLANGE STRAINER -Y OR BASKET	FE-SR FE-R FE-R FE-R D D D D D D D D D D D D D	P & T RELIEF VALVE BALANCING VALVE GLOBE VALVE SUPERVISED VALVE PLUG VALVE PRESSURE REDUCING VALVE PUMP REDUCED PRESSURE BACKFLOW ASSEMBLY THERMOMETER	FA
SEMI-RECESSED FIRE EXTINGUIS PIPE ELBOW RISING / DROP PIPE TEE DOWN STACK UP/ DOWN SHUT OFF VALVE 2-WAY CONTROL VALVE 3-WAY CONTROL VALVE CHECK VALVE UNION OR FLANGE STRAINER -Y OR BASKET AUTOMATIC AIR VENT DOUBLE CHECK VALVE ASS	FE-SR FE-R FE-R FE-R D D D D D D D D D D D D D	P & T RELIEF VALVE BALANCING VALVE GLOBE VALVE SUPERVISED VALVE PLUG VALVE PRESSURE REDUCING VALVE PUMP REDUCED PRESSURE BACKFLOW ASSEMBLY THERMOMETER CAP OR PLUG STANDARD BRANCH	FA
SEMI-RECESSED FIRE EXTINGUIS PIPE ELBOW RISING / DROP PIPE TEE DOWN STACK UP/ DOWN SHUT OFF VALVE 2-WAY CONTROL VALVE 3-WAY CONTROL VALVE CHECK VALVE UNION OR FLANGE STRAINER -Y OR BASKET AUTOMATIC AIR VENT DOUBLE CHECK VALVE ASS	FE-SR FE-R FE-R FE-R D D D D D D D D D D D D D	P & T RELIEF VALVE BALANCING VALVE GLOBE VALVE SUPERVISED VALVE PLUG VALVE PRESSURE REDUCING VALVE PUMP REDUCED PRESSURE BACKFLOW ASSEMBLY THERMOMETER CAP OR PLUG	FA
SEMI-RECESSED FIRE EXTINGUIS PIPE ELBOW RISING / DROF PIPE TEE DOWN STACK UP/ DOWN SHUT OFF VALVE 2-WAY CONTROL VALVE 3-WAY CONTROL VALVE UNION OR FLANGE STRAINER -Y OR BASKET AUTOMATIC AIR VENT DOUBLE CHECK VALVE ASS PRESSURE GAUGE	FE-SR FE-R FE-R FE-R D D D D D D D D D D D D D	P & T RELIEF VALVE BALANCING VALVE GLOBE VALVE SUPERVISED VALVE PLUG VALVE PRESSURE REDUCING VALVE PUMP REDUCED PRESSURE BACKFLOW ASSEMBLY THERMOMETER CAP OR PLUG STANDARD BRANCH SINGLE LINE BRANCH	FA
SEMI-RECESSED FIRE EXTINGUIS PIPE ELBOW RISING / DROP PIPE TEE DOWN STACK UP/ DOWN SHUT OFF VALVE 2-WAY CONTROL VALVE 3-WAY CONTROL VALVE UNION OR FLANGE STRAINER -Y OR BASKET AUTOMATIC AIR VENT DOUBLE CHECK VALVE ASS PRESSURE GAUGE	FE-SR FE-R FE-R FE-R D D D D D D D D D D D D D	P & T RELIEF VALVE BALANCING VALVE GLOBE VALVE SUPERVISED VALVE PLUG VALVE PRESSURE REDUCING VALVE PUMP REDUCED PRESSURE BACKFLOW ASSEMBLY THERMOMETER CAP OR PLUG STANDARD BRANCH	FA
SEMI-RECESSED FIRE EXTINGUIS PIPE ELBOW RISING / DROF PIPE TEE DOWN STACK UP/ DOWN SHUT OFF VALVE 2-WAY CONTROL VALVE 3-WAY CONTROL VALVE UNION OR FLANGE STRAINER -Y OR BASKET AUTOMATIC AIR VENT DOUBLE CHECK VALVE ASS PRESSURE GAUGE	FE-SR FE-R FE-R FE-R D D D D D D D D D D D D D	P & T RELIEF VALVE BALANCING VALVE GLOBE VALVE SUPERVISED VALVE PLUG VALVE PRESSURE REDUCING VALVE PUMP REDUCED PRESSURE BACKFLOW ASSEMBLY THERMOMETER CAP OR PLUG STANDARD BRANCH SINGLE LINE BRANCH	FA
SEMI-RECESSED FIRE EXTINGUIS PIPE ELBOW RISING / DROF PIPE TEE DOWN STACK UP/ DOWN SHUT OFF VALVE 2-WAY CONTROL VALVE 3-WAY CONTROL VALVE UNION OR FLANGE STRAINER -Y OR BASKET AUTOMATIC AIR VENT DOUBLE CHECK VALVE ASS PRESSURE GAUGE DUCTWORK ROUND DUCT UP ROUND DUCT DOWN	FE-SR FE-R FE-R FE-R D D D D D D D D D D D D D	P & T RELIEF VALVE BALANCING VALVE GLOBE VALVE SUPERVISED VALVE PLUG VALVE PRESSURE REDUCING VALVE PUMP REDUCED PRESSURE BACKFLOW ASSEMBLY THERMOMETER CAP OR PLUG STANDARD BRANCH SUPPLY DIFFUSER RETURN GRILLE	FA
SEMI-RECESSED FIRE EXTINGUIS PIPE ELBOW RISING / DROF PIPE TEE DOWN STACK UP/ DOWN SHUT OFF VALVE 2-WAY CONTROL VALVE 3-WAY CONTROL VALVE UNION OR FLANGE STRAINER -Y OR BASKET AUTOMATIC AIR VENT DOUBLE CHECK VALVE ASS PRESSURE GAUGE DUCTWORK ROUND DUCT UP	FE-SR FE-R FE-R FE-R D D D D D D D D D D D D D	P & T RELIEF VALVE BALANCING VALVE GLOBE VALVE SUPERVISED VALVE PLUG VALVE PRESSURE REDUCING VALVE PUMP REDUCED PRESSURE BACKFLOW ASSEMBLY THERMOMETER CAP OR PLUG STANDARD BRANCH SUPPLY DIFFUSER	FA
SEMI-RECESSED FIRE EXTINGUIS PIPE ELBOW RISING / DROP PIPE TEE DOWN STACK UP/ DOWN SHUT OFF VALVE 2-WAY CONTROL VALVE 3-WAY CONTROL VALVE UNION OR FLANGE STRAINER -Y OR BASKET AUTOMATIC AIR VENT DOUBLE CHECK VALVE ASS PRESSURE GAUGE DUCTWORK ROUND DUCT UP ROUND DUCT DOWN S/A OR O/A DUCT TO OR FROM ABOVE	FE-SR FE-R FE-R	P & T RELIEF VALVE BALANCING VALVE GLOBE VALVE SUPERVISED VALVE PLUG VALVE PRESSURE REDUCING VALVE PUMP REDUCED PRESSURE BACKFLOW ASSEMBLY THERMOMETER CAP OR PLUG STANDARD BRANCH SUPPLY DIFFUSER RETURN GRILLE	FA
SEMI-RECESSED FIRE EXTINGUIS PIPE ELBOW RISING / DROF PIPE TEE DOWN STACK UP/ DOWN SHUT OFF VALVE 2-WAY CONTROL VALVE 3-WAY CONTROL VALVE UNION OR FLANGE STRAINER -Y OR BASKET AUTOMATIC AIR VENT DOUBLE CHECK VALVE ASS PRESSURE GAUGE DUCTWORK ROUND DUCT UP ROUND DUCT DOWN S/A OR O/A DUCT TO OR FROM ABOVE S/A OR O/A DUCT TO OR FROM	FE-SR FE-R FE-R	P & T RELIEF VALVE BALANCING VALVE GLOBE VALVE SUPERVISED VALVE PLUG VALVE PRESSURE REDUCING VALVE PUMP REDUCED PRESSURE BACKFLOW ASSEMBLY THERMOMETER CAP OR PLUG STANDARD BRANCH SUPPLY DIFFUSER RETURN GRILLE EXHAUST GRILLE	FA
SEMI-RECESSED FIRE EXTINGUIS RECESSED FIRE EXTINGUIS PIPE ELBOW RISING / DROF PIPE TEE DOWN STACK UP/ DOWN SHUT OFF VALVE 2-WAY CONTROL VALVE 3-WAY CONTROL VALVE UNION OR FLANGE STRAINER -Y OR BASKET AUTOMATIC AIR VENT DOUBLE CHECK VALVE ASS PRESSURE GAUGE DUCTWORK ROUND DUCT UP ROUND DUCT DOWN S/A OR O/A DUCT TO OR FROM ABOVE S/A OR O/A DUCT TO OR FROM BELOW	FE-SR FE-R FE-R	P & T RELIEF VALVE BALANCING VALVE GLOBE VALVE SUPERVISED VALVE PLUG VALVE PRESSURE REDUCING VALVE PUMP REDUCED PRESSURE BACKFLOW ASSEMBLY THERMOMETER CAP OR PLUG STANDARD BRANCH SUPPLY DIFFUSER RETURN GRILLE	FA
SEMI-RECESSED FIRE EXTINGUIS PIPE ELBOW RISING / DROF PIPE TEE DOWN STACK UP/ DOWN SHUT OFF VALVE 2-WAY CONTROL VALVE 3-WAY CONTROL VALVE UNION OR FLANGE STRAINER -Y OR BASKET AUTOMATIC AIR VENT DOUBLE CHECK VALVE ASS PRESSURE GAUGE DUCTWORK ROUND DUCT UP ROUND DUCT DOWN S/A OR O/A DUCT TO OR FROM ABOVE S/A OR O/A DUCT TO OR FROM BELOW R/A OR E/A DUCT	FE-SR FE-R FE-R	P & T RELIEF VALVE BALANCING VALVE GLOBE VALVE SUPERVISED VALVE PLUG VALVE PRESSURE REDUCING VALVE PUMP REDUCED PRESSURE BACKFLOW ASSEMBLY THERMOMETER CAP OR PLUG STANDARD BRANCH SUPPLY DIFFUSER RETURN GRILLE EXHAUST GRILLE	FA
SEMI-RECESSED FIRE EXTINGUIS RECESSED FIRE EXTINGUIS PIPE ELBOW RISING / DROP PIPE TEE DOWN STACK UP/ DOWN SHUT OFF VALVE 2-WAY CONTROL VALVE 3-WAY CONTROL VALVE UNION OR FLANGE STRAINER -Y OR BASKET AUTOMATIC AIR VENT DOUBLE CHECK VALVE ASS PRESSURE GAUGE DUCTWORK ROUND DUCT UP ROUND DUCT DOWN S/A OR O/A DUCT TO OR FROM ABOVE S/A OR FROM BELOW R/A OR E/A DUCT TO OR FROM ABOVE	FE-SR FE-R FE-R	P & T RELIEF VALVE BALANCING VALVE GLOBE VALVE SUPERVISED VALVE PLUG VALVE PRESSURE REDUCING VALVE PUMP REDUCED PRESSURE BACKFLOW ASSEMBLY THERMOMETER CAP OR PLUG STANDARD BRANCH SUPPLY DIFFUSER RETURN GRILLE EXHAUST GRILLE LINEAR DIFFUSER SUPPLY OUTLET	RPBA RPBA
SEMI-RECESSED FIRE EXTINGUIS PIPE ELBOW RISING / DROP PIPE TEE DOWN STACK UP/ DOWN SHUT OFF VALVE 2-WAY CONTROL VALVE 3-WAY CONTROL VALVE UNION OR FLANGE STRAINER -Y OR BASKET AUTOMATIC AIR VENT DOUBLE CHECK VALVE ASS PRESSURE GAUGE DUCTWORK ROUND DUCT UP ROUND DUCT DOWN S/A OR O/A DUCT TO OR FROM ABOVE S/A OR E/A DUCT TO OR FROM ABOVE R/A OR E/A DUCT	FE-SR FE-R FE-R	P & T RELIEF VALVE BALANCING VALVE GLOBE VALVE SUPERVISED VALVE PLUG VALVE PRESSURE REDUCING VALVE PUMP REDUCED PRESSURE BACKFLOW ASSEMBLY THERMOMETER CAP OR PLUG STANDARD BRANCH SUPPLY DIFFUSER RETURN GRILLE EXHAUST GRILLE LINEAR DIFFUSER	FA
SEMI-RECESSED FIRE EXTINGUIS RECESSED FIRE EXTINGUIS PIPE ELBOW RISING / DROP PIPE TEE DOWN STACK UP/ DOWN SHUT OFF VALVE 2-WAY CONTROL VALVE 3-WAY CONTROL VALVE UNION OR FLANGE STRAINER -Y OR BASKET AUTOMATIC AIR VENT DOUBLE CHECK VALVE ASS PRESSURE GAUGE DUCTWORK ROUND DUCT UP ROUND DUCT DOWN S/A OR O/A DUCT TO OR FROM ABOVE S/A OR E/A DUCT TO OR FROM ABOVE R/A OR E/A DUCT TO OR FROM BELOW	FE-SR FE-R FE-R	P & T RELIEF VALVE BALANCING VALVE GLOBE VALVE SUPERVISED VALVE PLUG VALVE PRESSURE REDUCING VALVE PUMP REDUCED PRESSURE BACKFLOW ASSEMBLY THERMOMETER CAP OR PLUG STANDARD BRANCH SUPPLY DIFFUSER RETURN GRILLE EXHAUST GRILLE LINEAR DIFFUSER SUPPLY OUTLET RETURN OR EXHAUST INLET	RPBA RPBA
SEMI-RECESSED FIRE EXTINGUIS PIPE ELBOW RISING / DROP PIPE TEE DOWN STACK UP/ DOWN SHUT OFF VALVE 2-WAY CONTROL VALVE 3-WAY CONTROL VALVE UNION OR FLANGE STRAINER -Y OR BASKET AUTOMATIC AIR VENT DOUBLE CHECK VALVE ASS PRESSURE GAUGE DUCTWORK ROUND DUCT UP ROUND DUCT DOWN S/A OR O/A DUCT TO OR FROM BELOW R/A OR E/A DUCT TO OR FROM ABOVE R/A OR E/A DUCT TO OR FROM ABOVE R/A OR E/A DUCT TO OR FROM BELOW R/A OR E/A DUCT TO OR FROM	FE-SR FE-R FE-R	P & T RELIEF VALVE BALANCING VALVE GLOBE VALVE SUPERVISED VALVE PLUG VALVE PRESSURE REDUCING VALVE PUMP REDUCED PRESSURE BACKFLOW ASSEMBLY THERMOMETER CAP OR PLUG STANDARD BRANCH SUPPLY DIFFUSER RETURN GRILLE EXHAUST GRILLE LINEAR DIFFUSER SUPPLY OUTLET RETURN OR EXHAUST INLET DOOR - UNDERCUT	RPBA RPBA U/C
SEMI-RECESSED FIRE EXTINGUIS RECESSED FIRE EXTINGUIS PIPE ELBOW RISING / DROP PIPE TEE DOWN STACK UP/ DOWN SHUT OFF VALVE 2-WAY CONTROL VALVE 3-WAY CONTROL VALVE UNION OR FLANGE STRAINER -Y OR BASKET AUTOMATIC AIR VENT DOUBLE CHECK VALVE ASS PRESSURE GAUGE DUCTWORK ROUND DUCT UP ROUND DUCT DOWN S/A OR O/A DUCT TO OR FROM ABOVE S/A OR O/A DUCT TO OR FROM BELOW R/A OR E/A DUCT TO OR FROM BELOW	FE-SR FE-R FE-R	P & T RELIEF VALVE BALANCING VALVE GLOBE VALVE SUPERVISED VALVE PLUG VALVE PRESSURE REDUCING VALVE PUMP REDUCED PRESSURE BACKFLOW ASSEMBLY THERMOMETER CAP OR PLUG STANDARD BRANCH SUPPLY DIFFUSER RETURN GRILLE EXHAUST GRILLE LINEAR DIFFUSER SUPPLY OUTLET RETURN OR EXHAUST INLET	RPBA RPBA THE
SEMI-RECESSED FIRE EXTINGUIS PIPE ELBOW RISING / DROP PIPE TEE DOWN STACK UP/ DOWN SHUT OFF VALVE 2-WAY CONTROL VALVE 3-WAY CONTROL VALVE CHECK VALVE UNION OR FLANGE STRAINER -Y OR BASKET AUTOMATIC AIR VENT DOUBLE CHECK VALVE ASS PRESSURE GAUGE DUCTWORK ROUND DUCT UP ROUND DUCT DOWN S/A OR O/A DUCT TO OR FROM ABOVE S/A OR O/A DUCT TO OR FROM BELOW R/A OR E/A DUCT TO OR FROM BELOW R/A OR E/A DUCT TO OR FROM BELOW BALANCING DAMPER	FE-SR FE-R FE-R	P & T RELIEF VALVE BALANCING VALVE GLOBE VALVE SUPERVISED VALVE PLUG VALVE PRESSURE REDUCING VALVE PUMP REDUCED PRESSURE BACKFLOW ASSEMBLY THERMOMETER CAP OR PLUG STANDARD BRANCH SUPPLY DIFFUSER RETURN GRILLE EXHAUST GRILLE LINEAR DIFFUSER SUPPLY OUTLET RETURN OR EXHAUST INLET DOOR - UNDERCUT DOOR GRILLE	RPBA U/C
SEMI-RECESSED FIRE EXTINGUIS PIPE ELBOW RISING / DROP PIPE TEE DOWN STACK UP/ DOWN SHUT OFF VALVE 2-WAY CONTROL VALVE 3-WAY CONTROL VALVE UNION OR FLANGE STRAINER -Y OR BASKET AUTOMATIC AIR VENT DOUBLE CHECK VALVE ASS PRESSURE GAUGE DUCTWORK ROUND DUCT UP ROUND DUCT DOWN S/A OR O/A DUCT TO OR FROM BELOW R/A OR E/A DUCT TO OR FROM BELOW	FE-SR FE-R FE-R	P & T RELIEF VALVE BALANCING VALVE GLOBE VALVE SUPERVISED VALVE PLUG VALVE PRESSURE REDUCING VALVE PUMP REDUCED PRESSURE BACKFLOW ASSEMBLY THERMOMETER CAP OR PLUG STANDARD BRANCH SUPPLY DIFFUSER RETURN GRILLE EXHAUST GRILLE LINEAR DIFFUSER SUPPLY OUTLET RETURN OR EXHAUST INLET DOOR - UNDERCUT	RPBA RPBA U/C DG
SEMI-RECESSED FIRE EXTINGUIS RECESSED FIRE EXTINGUIS PIPE ELBOW RISING / DROP PIPE TEE DOWN STACK UP/ DOWN SHUT OFF VALVE 2-WAY CONTROL VALVE 3-WAY CONTROL VALVE UNION OR FLANGE STRAINER -Y OR BASKET AUTOMATIC AIR VENT DOUBLE CHECK VALVE ASS PRESSURE GAUGE DUCTWORK ROUND DUCT UP ROUND DUCT DOWN S/A OR O/A DUCT TO OR FROM ABOVE S/A OR O/A DUCT TO OR FROM BELOW R/A OR E/A DUCT TO OR FROM BELOW BALANCING DAMPER	FE-SR FE-R FE-R	P & T RELIEF VALVE BALANCING VALVE GLOBE VALVE SUPERVISED VALVE PLUG VALVE PRESSURE REDUCING VALVE PUMP REDUCED PRESSURE BACKFLOW ASSEMBLY THERMOMETER CAP OR PLUG STANDARD BRANCH SUPPLY DIFFUSER RETURN GRILLE EXHAUST GRILLE LINEAR DIFFUSER SUPPLY OUTLET RETURN OR EXHAUST INLET DOOR GRILLE FIRE, SMOKE OR COMBINATION FIRE SMOKE DAMPER	RPBA RPBA U/C
SEMI-RECESSED FIRE EXTINGUIS RECESSED FIRE EXTINGUIS PIPE ELBOW RISING / DROP PIPE TEE DOWN STACK UP/ DOWN SHUT OFF VALVE 2-WAY CONTROL VALVE 3-WAY CONTROL VALVE UNION OR FLANGE STRAINER -Y OR BASKET AUTOMATIC AIR VENT DOUBLE CHECK VALVE ASS PRESSURE GAUGE DUCTWORK ROUND DUCT UP ROUND DUCT DOWN S/A OR O/A DUCT TO OR FROM ABOVE S/A OR O/A DUCT TO OR FROM BELOW R/A OR E/A DUCT TO OR FROM BELOW BALANCING DAMPER (MODULATING)	FE-SR FE-R FE-R	P & T RELIEF VALVE BALANCING VALVE GLOBE VALVE SUPERVISED VALVE PLUG VALVE PRESSURE REDUCING VALVE PUMP REDUCED PRESSURE BACKFLOW ASSEMBLY THERMOMETER CAP OR PLUG STANDARD BRANCH SUPPLY DIFFUSER RETURN GRILLE EXHAUST GRILLE LINEAR DIFFUSER SUPPLY OUTLET RETURN OR EXHAUST INLET DOOR GRILLE FIRE, SMOKE OR COMBINATION	RPBA RPBA U/C DG
SEMI-RECESSED FIRE EXTINGUIS RECESSED FIRE EXTINGUIS PIPE ELBOW RISING / DROP PIPE TEE DOWN STACK UP/ DOWN SHUT OFF VALVE 2-WAY CONTROL VALVE 3-WAY CONTROL VALVE UNION OR FLANGE STRAINER -Y OR BASKET AUTOMATIC AIR VENT DOUBLE CHECK VALVE ASS PRESSURE GAUGE DUCTWORK ROUND DUCT UP ROUND DUCT DOWN S/A OR O/A DUCT TO OR FROM ABOVE S/A OR O/A DUCT TO OR FROM BELOW R/A OR E/A DUCT TO OR FROM BELOW BALANCING DAMPER MOTORIZED DAMPER (MODULATING)	FE-SR FE-R FE-R	P & T RELIEF VALVE BALANCING VALVE GLOBE VALVE SUPERVISED VALVE PLUG VALVE PRESSURE REDUCING VALVE PUMP REDUCED PRESSURE BACKFLOW ASSEMBLY THERMOMETER CAP OR PLUG STANDARD BRANCH SUPPLY DIFFUSER RETURN GRILLE EXHAUST GRILLE LINEAR DIFFUSER SUPPLY OUTLET RETURN OR EXHAUST INLET DOOR GRILLE FIRE, SMOKE OR COMBINATION FIRE SMOKE DAMPER	RPBA RPBA U/C DG
SEMI-RECESSED FIRE EXTINGUIS PIPE ELBOW RISING / DROP PIPE TEE DOWN STACK UP/ DOWN SHUT OFF VALVE 2-WAY CONTROL VALVE 3-WAY CONTROL VALVE CHECK VALVE UNION OR FLANGE STRAINER -Y OR BASKET AUTOMATIC AIR VENT DOUBLE CHECK VALVE ASS PRESSURE GAUGE DUCTWORK ROUND DUCT UP ROUND DUCT DOWN S/A OR O/A DUCT TO OR FROM ABOVE S/A OR FROM ABOVE R/A OR E/A DUCT TO OR FROM BELOW R/A OR E/A DUCT TO OR FROM BELOW BALANCING DAMPER	FE-SR FE-R FE-R	P & T RELIEF VALVE BALANCING VALVE GLOBE VALVE SUPERVISED VALVE PLUG VALVE PRESSURE REDUCING VALVE PUMP REDUCED PRESSURE BACKFLOW ASSEMBLY THERMOMETER CAP OR PLUG STANDARD BRANCH SUPPLY DIFFUSER RETURN GRILLE EXHAUST GRILLE LINEAR DIFFUSER SUPPLY OUTLET RETURN OR EXHAUST INLET DOOR GRILLE FIRE, SMOKE OR COMBINATION FIRE SMOKE DAMPER FIRE DAMPER	RPBA RPBA U/C DG
SEMI-RECESSED FIRE EXTINGUIS PIPE ELBOW RISING / DROP PIPE TEE DOWN STACK UP/ DOWN SHUT OFF VALVE 2-WAY CONTROL VALVE 3-WAY CONTROL VALVE UNION OR FLANGE STRAINER -Y OR BASKET AUTOMATIC AIR VENT DOUBLE CHECK VALVE ASS PRESSURE GAUGE DUCTWORK ROUND DUCT UP ROUND DUCT DOWN S/A OR O/A DUCT TO OR FROM ABOVE S/A OR O/A DUCT TO OR FROM BELOW R/A OR E/A DUCT TO OR FROM BELOW BALANCING DAMPER MOTORIZED DAMPER (MODULATING)	FE-SR FE-R FE-R	P & T RELIEF VALVE BALANCING VALVE GLOBE VALVE SUPERVISED VALVE PLUG VALVE PRESSURE REDUCING VALVE PUMP REDUCED PRESSURE BACKFLOW ASSEMBLY THERMOMETER CAP OR PLUG STANDARD BRANCH SUPPLY DIFFUSER RETURN GRILLE EXHAUST GRILLE LINEAR DIFFUSER SUPPLY OUTLET RETURN OR EXHAUST INLET DOOR GRILLE FIRE, SMOKE OR COMBINATION FIRE SMOKE DAMPER FIRE DAMPER	RPBA RPBA U/C DG

MECHANICAL LEGEND



The contractor shall verify and accept responsibility for all dimensions. Do NOT scale the drawing. ALL errors or omissions shall be reported without delay to Moore Wilson Architects Inc.

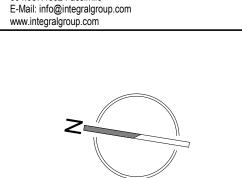
CONSULTANT

INTEGRAL

GROUP

Suite 180 - 200 Granville Street

Vancouver BC Canada V6C 1S4 604.687.1800 Telephone 604.687.1802 Facsimile



OFAL



6421 AIRPORT ROAD SMITHERS, BC V0J 2N2



DRAWN BY DF
CHECKED NB

SCALE 1:100

FILE NAME

P. 250-384-2131

E. info@moorewilson.ca

DATE 2017/08/09

MECHANICAL
LEGEND AND
DRAWING LIST

PROJECT

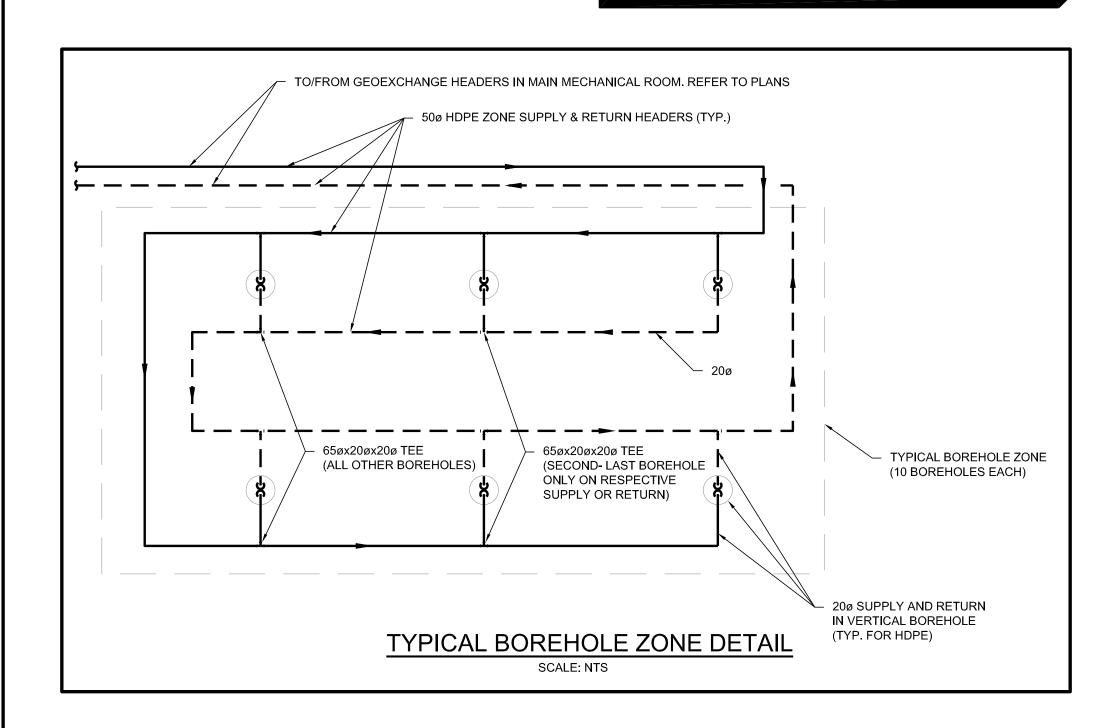
151014.000 M001

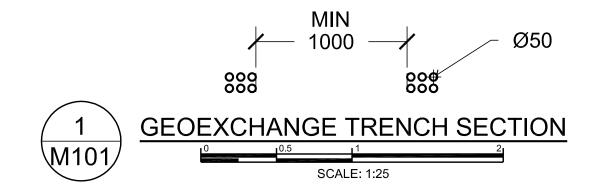
REVISION No.

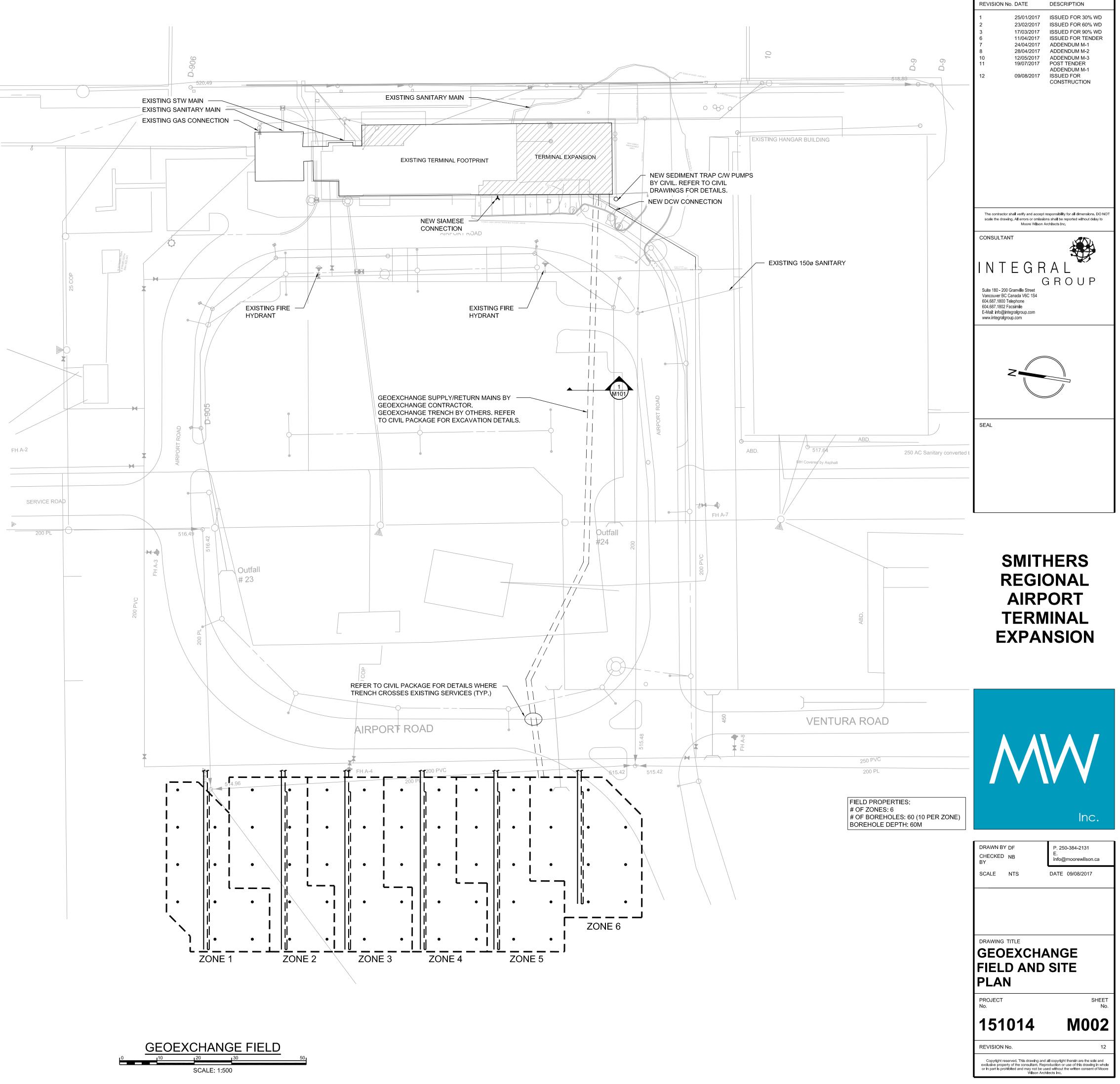
Copyright reserved. This drawing and all copyright therein are the sole and exclusive property of the consultant. Reproduction or use of this drawing in whole or in part is prohibited and may not be used without the written consent of Moore

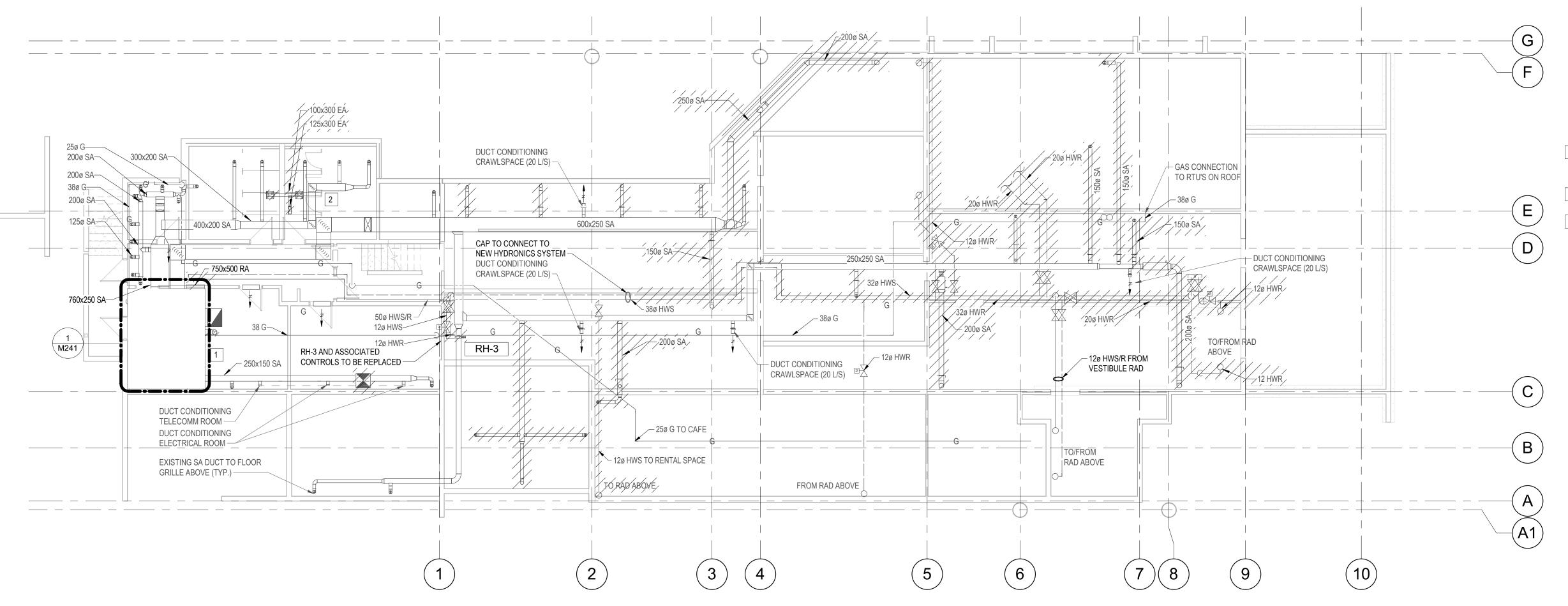


- 1. ALL BOREHOLES SHALL BE 60m DEEP
- 2. GEOEXCHANGE BOREHOLE LOCATIONS ARE APPROXIMATE AND PIPE ROUTINGS ARE INDICATIVE. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO CONFIRM EXACT PIPING LAYOUT AND PROPOSED DEPTH OF BURY FOR ALL PIPING. SHOP DRAWINGS SHALL INCLUDING MAIN SUPPLY AND RETURN HEADERS FOR EACH ZONE, AND BRANCH PIPING TO EACH BOREHOLE WITHIN EACH ZONE, PIPED IN REVERSE-RETURN ARRANGEMENT (REFER TO DETAIL FOR TYPICAL PIPING).
- 3. COORDINATE WITH MECHANICAL CONTRACTOR TO ALIGN ZONE HEADER PIPING "STUB UPS" INTO MECHANICAL ROOM WITH ABOVE-GROUND GEOEXCHANGE SUPPLY AND RETURN MANIFOLDS. ZONE PIPING SHALL CONNECT TO MANIFOLDS IN NUMERICAL ORDER AS SHOWN ON PLANS (I.E. ZONE 1 THROUGH 6, IN NUMERICAL ORDER).
- 4. UNDERGROUND MECHANICAL SERVICES ARE INDICATED FOR REFERENCE. REFER TO CIVIL DRAWINGS FOR ADDITIONAL DETAIL. COORDINATE ON SITE WITH GENERAL, MECHANICAL, AND ELECTRICAL CONTRACTORS. IN GENERAL, INSTALLATION OF GRAVITY DRAINAGE SERVICES AT INVERTS CALLED FOR ON PLANS (STORM, SANITARY, ETC.) SHALL TAKE PRECEDENCE OVER GEOEXCHANGE PIPING.
- 5. SUPPLY ZONE HEADER PIPING SHALL BE GROUPED SEPARATELY FROM RETURN PIPING AS MUCH AS PRACTICAL, TO AVOID BYPASS HEAT TRANSFER BETWEEN SUPPLY AND RETURN. IN GENERAL MAINTAIN A MINIMUM OF 1m CLEAR BETWEEN SUPPLY AND RETURN ZONE HEADERS.
- 6. BOREHOLE SPACING SHALL MAINTAIN THE FOLLOWING MINIMUM CLEARANCES:
- a. 0.5M FROM ALL FOUNDATIONS, FOOTINGS, CRANE BASES ETC.
- b. 1.0M FROM UNDERGROUND MECHANICAL & ELECTRICAL SERVICES
- c. 10.0M FROM ADJACENT BOREHOLES
- 7. DO NOT INSTALL PIPING OR BOREHOLES DIRECTLY BELOW MECHANICAL OR ELECTRICAL SERVICE SPACES.









1. REFER TO GENERAL DEMO NOTES ON M001

2. ALL DEMOLISHED DUCTWORK PENETRATING THE FLOOR TO BE REMOVED AND THE FLOOR MADE GOOD

DRAWING NOTES:

1 EXISTING BOILER, EXPANSION TANK, HW BOILERS, AHU AND ANY ASSOCIATED CONTROLS TO BE DEMOLISHED. BOILER TO BE CUT UP ON SITE. ALL HW PIPEWORK TO BE DRAINED AND DEMOLISHED.

2 EXISTING BELOW GRADE WASHROOM E/A DUCTWORK AND FANS TO BE DEMOLISHED. ANY ASSOCIATED ROOF PENETRATIONS TO BE MADE GOOD.

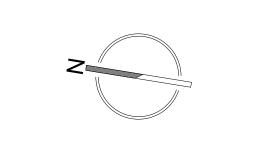
3 EXISTING AHU REHEAT COILS AND ALL ASSOCIATED CONTROLS ARE TO BE DEMOLISHED. PRICE AS SEPERATE SCOPE OF WORK

REVISION No. DATE ISSUED FOR REVISED DD 11/01/2017 ISSUED FOR 30% WD 27/01/2017 ISSUED FOR 60% WD 23/02/2017 ISSUED FOR 90% WD 17/03/2017 ISSUED FOR TENDER 11/04/2017 25/04/2017 ADDENDUM M-1 28/04/2017 ADDENDUM M-2 ADDENDUM M-3 POST TENDER ADDENDUM 09/08/2017

DESCRIPTION

CONSULTANT

Suite 180 - 200 Granville Street Vancouver BC Canada V6C 1S4 604.687.1800 Telephone 604.687.1802 Facsimile E-Mail: info@integralgroup.com www.integralgroup.com



SMITHERS REGIONAL AIRPORT TERMINAL EXPANSION

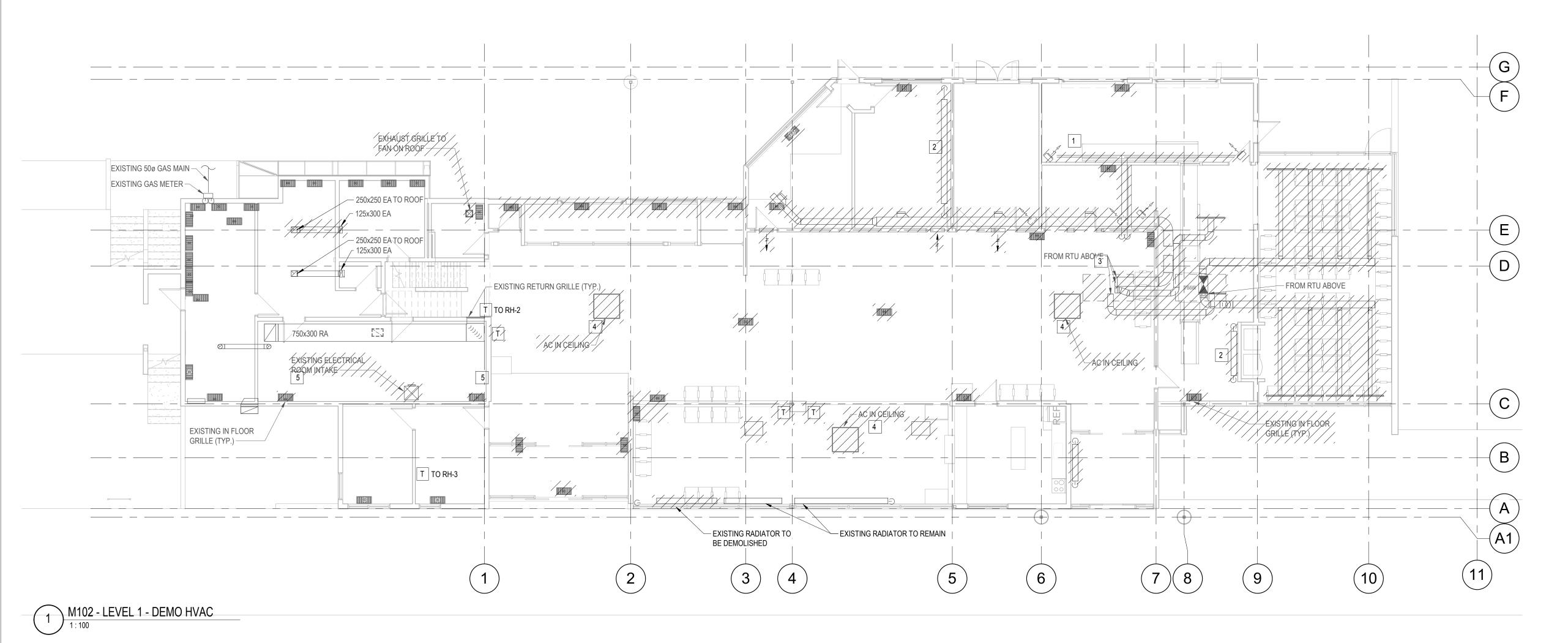


DRAWN BY DF CHECKED NB SCALE 1:100 FILE NAME

DRAWING TITLE

CRAWLSPACE -DEMO HVAC

151014.000 M101



1. REFER TO GENERAL DEMO NOTES ON M001 2. DEMOLISHED FLOOR GRILLES TO BE REMOVED AND FLOOR IS TO BE MADE GOOD

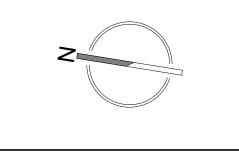
DRAWING NOTES:

- 1 EXISTING UNIT HEATERS, FORCED FLOW HEATERS AND ASSOCIATED HW PIPEWORK TO BE DRAINED AND DEMOLISHED. ASSOCAITED VALVES AND CONTROLS TO BE REMOVED FROM SITE.
- 2 EXISTING RADIATORS AND ASSOCIATED HW PIPEWORK TO BE DRAINED AND DEMOLISHED. ASSOCIATED VALVES AND CONTROLS TO BE REMOVED FROM SITE.
- 3 EXISTING RTU'S AND ASSOCIATED DUCTWORK TO BE DEMOLISHED
- 4 EXISTING ARRIVALS HALL FCU, REFRIGERANT PIPEWORK, ASSOCIATED CONDENSING UNIT AND ALL ASOCATED ACCESORIES POWER CONNECTIONS, CONTROLS, SUPPORTS, ETC. TO BE DEMOLISHED
- AS A PART OF AHU-1 ADDITIONAL SCOPE OF WORK MECHANICAL CONTRACTOR IS TO CONFIRM THE EXISTIENCE OF 2 FLOOR GRILLES IN THE EXISTING BOARD ROOM

REVIS	ION No.DATE	DESCRIPTION
1.	14/12/2016	ISSUED FOR DD
2.	11/01/2017	ISSUED FOR REVISED DD
3.	27/01/2017	ISSUED FOR 30% WD
4.	23/02/2017	ISSUED FOR 60% WD
5.	17/03/2017	ISSUED FOR 90% WD
6.	11/04/2017	ISSUED FOR TENDER
7.	25/04/2017	ADDENDUM M-1
8.	28/04/2017	ADDENDUM M-2
10.	12/05/2017	ADDENDUM M-3
11.	19/07/2017	POST TENDER ADDENDUM M-1
12.	09/08/2017	ISSUED FOR CONSTRUCTION
I		



Suite 180 - 200 Granville Street Vancouver BC Canada V6C 1S4 604.687.1800 Telephone 604.687.1802 Facsimile E-Mail: info@integralgroup.com www.integralgroup.com



SMITHERS REGIONAL AIRPORT TERMINAL EXPANSION





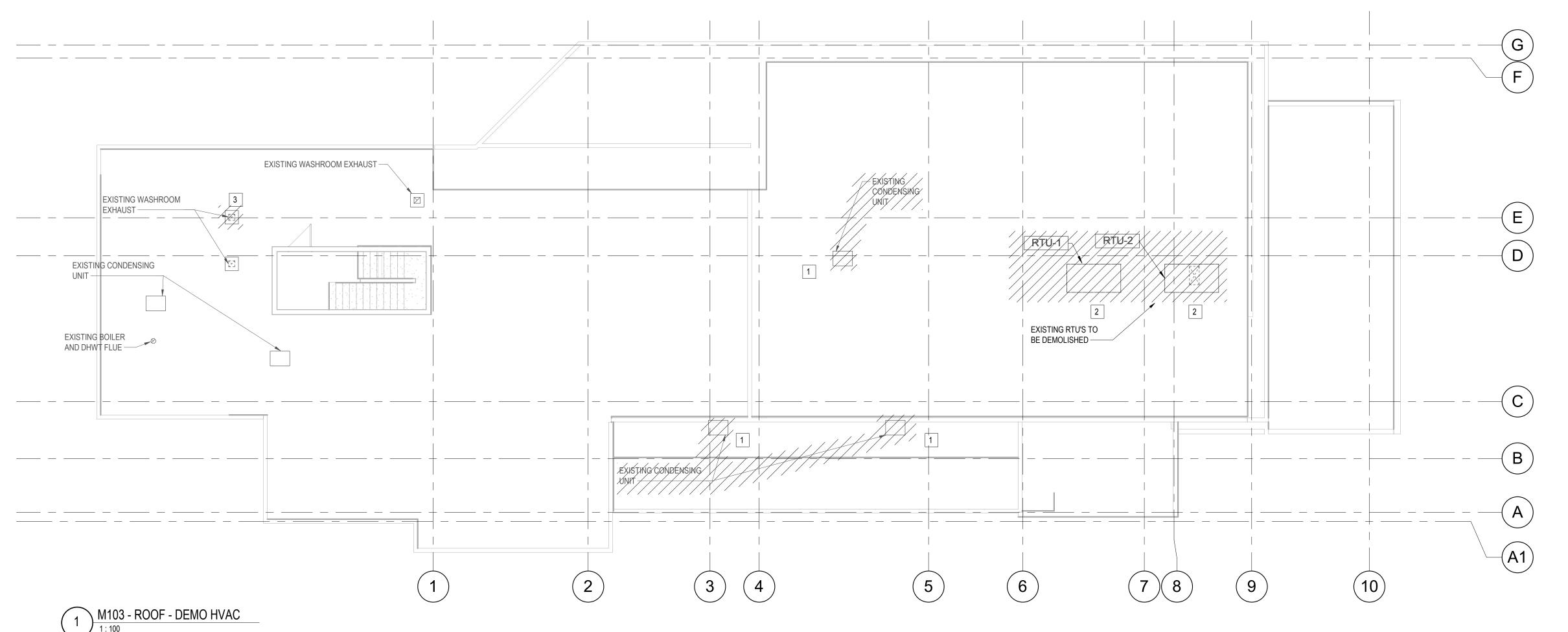
DRAWING TITLE

LEVEL 1 - DEMO HVAC

PROJECT

151014.000 M102

REVISION No.



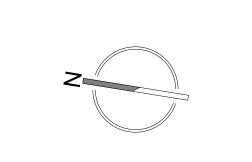
1. REFER TO GENERAL DEMO NOTES ON M001

DRAWING NOTES:

- REMOVE EXISTING CONDENSING UNITS CONNECTED TO EXISITNG CEILING MOUNTED FAN COILS BELOW. REMOVE EXISTING PIPING SUPPORTS, POWER CONNECTIONS AND ALL ACCESSORIES
- 2 REMOVE EXISTING ROOFTOP UNITS. REMOVE ASSOCAITED DUCTWORK, UNIT SUPPORTS, GAS PIPING, POWER CONNECTIONS, CONTROLS, AND ALL ACCESSORIES
- REMOVE EXISTING EXHAUST FAN INCLUDING DUCTWORK, ROOF CURB, POWER CONNECTIONS AND ACCESSORIES

REVIS	ION No.DATE	DESCRIPTION
1.	14/12/2016	ISSUED FOR DD
2.	11/01/2017	ISSUED FOR REVISED DD
3.	27/01/2017	ISSUED FOR 30% WD
4.	23/02/2017	ISSUED FOR 60% WD
5.	17/03/2017	ISSUED FOR 90% WD
6.	11/04/2017	ISSUED FOR TENDER
7.	25/04/2017	ADDENDUM M-1
8.	28/04/2017	ADDENDUM M-2
10.	12/05/2017	ADDENDUM M-3
11.	19/07/2017	POST TENDER ADDENDUM M-1
12.	09/08/2017	ISSUED FOR CONSTRUCTION
I		





E-Mail: info@integralgroup.com www.integralgroup.com

SEAL

SMITHERS REGIONAL AIRPORT TERMINAL EXPANSION

6421 AIRPORT ROAD SMITHERS, BC V0J 2N2





DRAWING TITLE

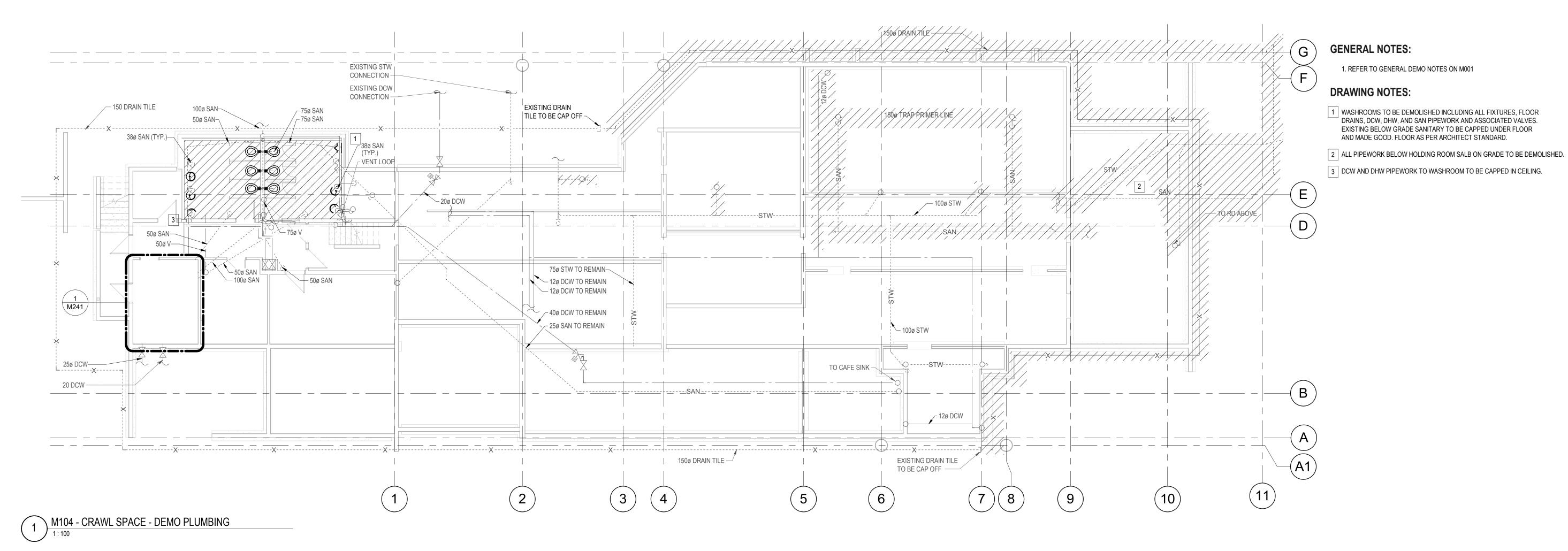
ROOF - DEMO HVAC

SHEET

151014.000 M103

Copyright reserved. This drawing and all copyright therein are the sole and clusive property of the consultant. Reproduction or use of this drawing in whole in part is prohibited and may not be used without the written consent of Moore Wilson Architects Inc.

FILE PATH: C.\Users\dfaina\Documents\Wech - Smithers Airport Expansion 151014.000_df PLOT DATE: 09/08/2017 1:51:40 PM





REVISION No. DATE

11/01/2017

09/08/2017

E-Mail: info@integralgroup.com www.integralgroup.com

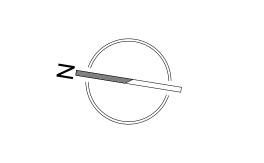
DESCRIPTION

ISSUED FOR REVISED DD

POST TENDER ADDENDUM

ISSUED FOR

CONSULTANT Suite 180 - 200 Granville Street Vancouver BC Canada V6C 1S4 604.687.1800 Telephone 604.687.1802 Facsimile



SMITHERS REGIONAL AIRPORT TERMINAL EXPANSION

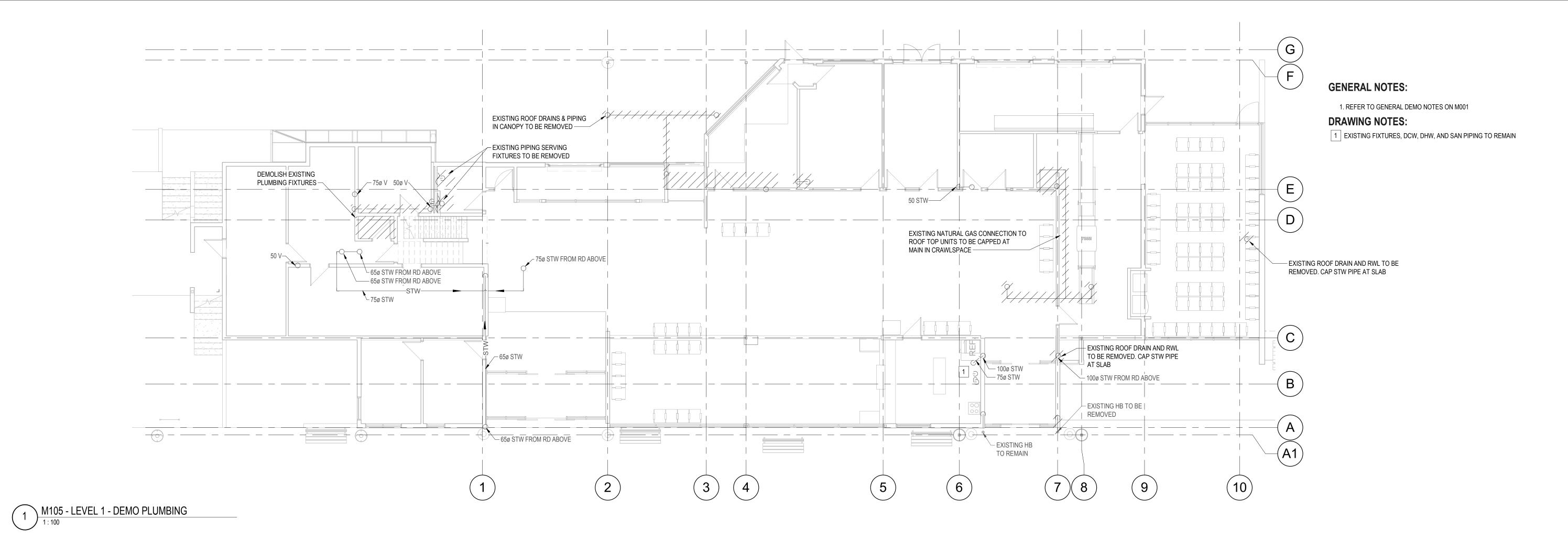


DRAWN BY DF CHECKED NB SCALE 1:100 FILE NAME

DRAWING TITLE

CRAWLSPACE -DEMO PLUMBING

151014.000 M104 REVISION No.



REVISION No. DATE DESCRIPTION ISSUED FOR REVISED DD 11/01/2017 ISSUED FOR 30% WD 27/01/2017 ISSUED FOR 60% WD 23/02/2017 ISSUED FOR 90% WD 17/03/2017 ISSUED FOR TENDER 11/04/2017 25/04/2017 ADDENDUM M-1 28/04/2017 ADDENDUM M-2 ADDENDUM M-3 12/05/2017 POST TENDER ADDENDUM ISSUED FOR 09/08/2017

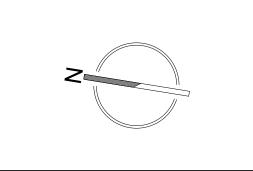
The contractor shall verify and accept responsibility for all dimensions. Do NOT scale the drawing. ALL errors or omissions shall be reported without delay to Moore Wilson Architects Inc.

CONSULTANT

INTEGRAL

GROUP

Suite 180 - 200 Granville Street
Vancouver BC Canada V6C 1S4
604.687.1800 Telephone
604.687.1802 Facsimile
E-Mail: info@integralgroup.com
www.integralgroup.com



SEAL

SMITHERS REGIONAL AIRPORT TERMINAL EXPANSION

6421 AIRPORT ROAD SMITHERS, BC V0J 2N2



DRAWN BY DF
CHECKED NB

P. 250-384-2131
E. info@moorewilson.ca

SCALE 1:100 DATE 2017/08/09
FILE NAME

DRAWING TITLE

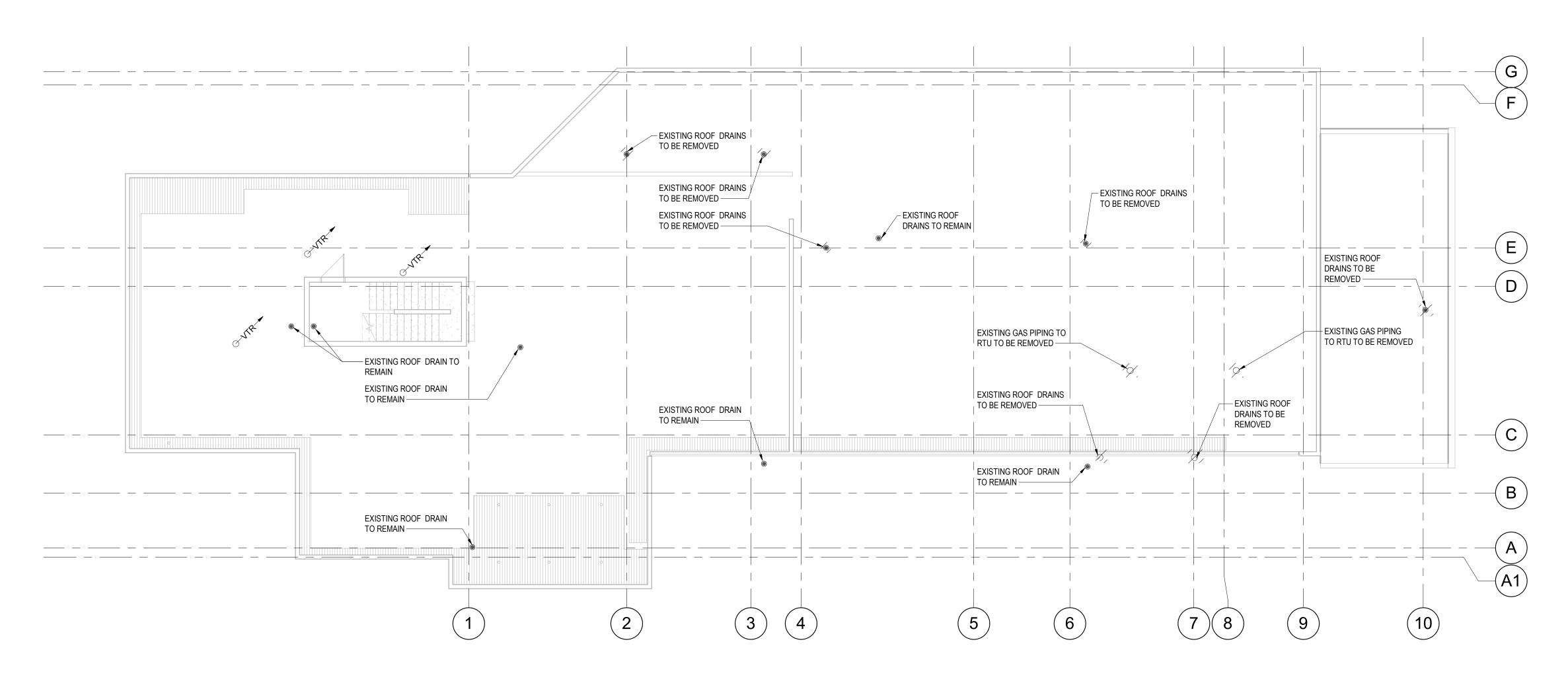
LEVEL 1 - DEMO PLUMBING

PRO.IF

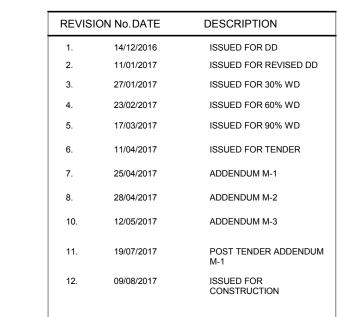
SHEET

151014.000 M105
REVISION No. 12.

FILE PATH: C:\Users\dfarina\Documents\Mech - Smithers Airport Expansion 16 PLOT DATE: 09/08/2017 1:51:43 PM



REFER TO GENERAL DEMO NOTES ON M001
 EXISTING ROOF DRAINS TO BE REMOVED AND ROOF IS TO BE MADE GOOD



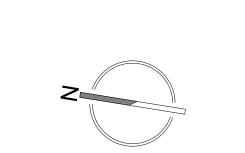
The contractor shall verify and accept responsibility for all dimensions. Do NOT scale the drawing. ALL erifyros or omissions shall be reported without delay to Moore Wilson Architects Inc.

CONSULTANT

INTEGRAL

GROUP

Suite 180 - 200 Granville Street
Vancouver BC Canada V6C 1S4
604.687.1800 Telephone
604.687.1802 Facsimile
E-Mail: info@integralgroup.com
www.integralgroup.com



SEAL



6421 AIRPORT ROAE SMITHERS, BC V0J 2N2



DRAWN BY DF
CHECKED NB

SCALE 1:100

P. 250-384-2131
E. info@moorewilso

DATE 201

FILE NAME

DRAWING TITLE

ROOF - DEMO PLUMBING

PROJE

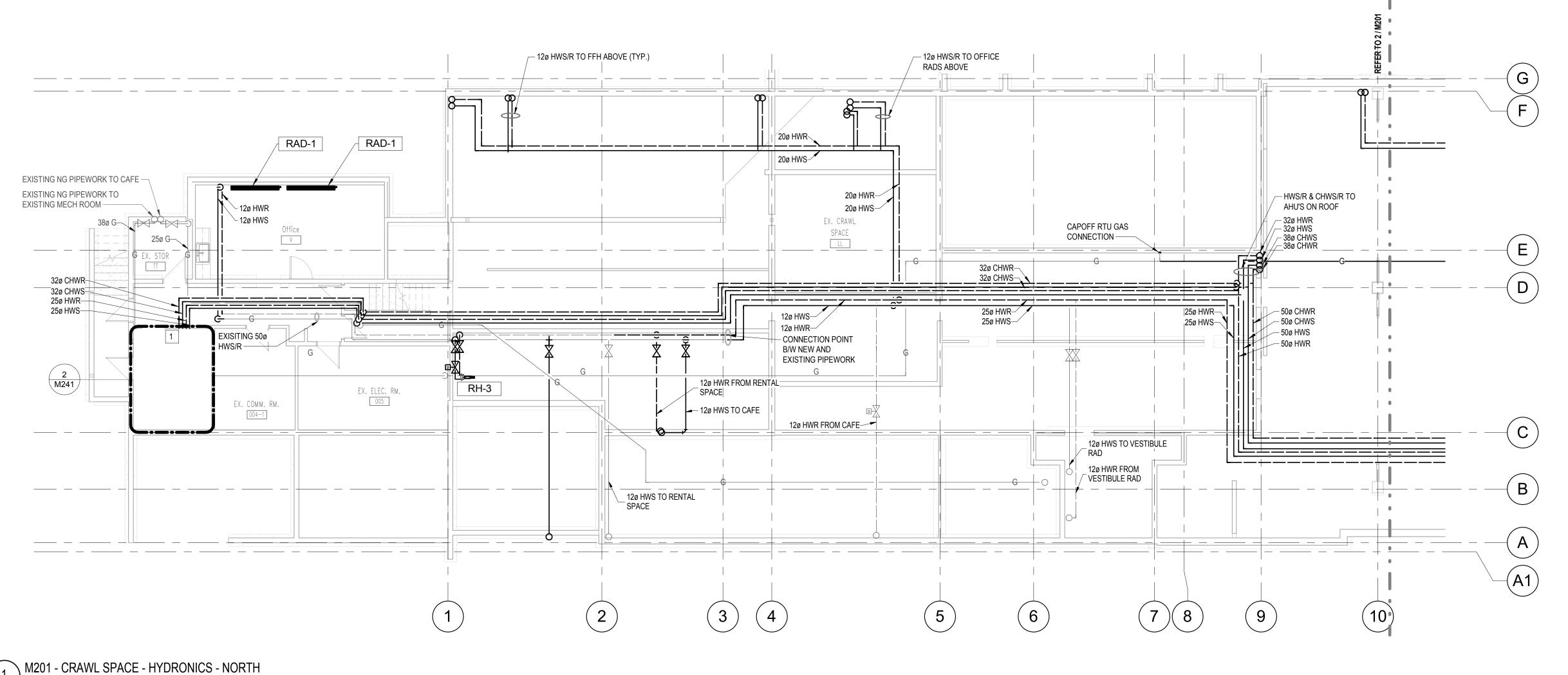
SHEET

151014.000 M106

REVISION No. 12.

Copyright reserved. This drawing and all copyright therein are the sole and exclusive property of the consultant. Reproduction or use of this drawing in whole or in part is prohibited and may not be used without the written consent of Moore

1:100

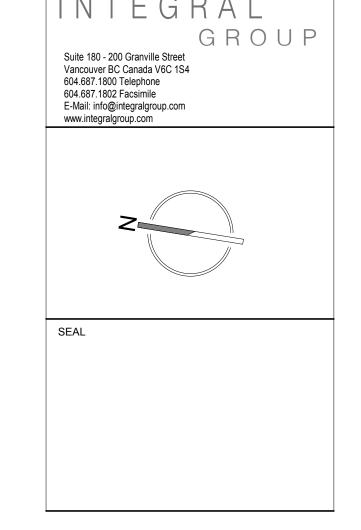


DRAWING NOTES:

1 ALL PENETRATIONS THROUGH FIRE RATED WALLS TO BE FIRE RATED IN LINE WITH ARCHITECTS SPECIFICATIONS.

GENERAL NOTES:

1. SIZES OF EXISTING PIPEWORK INCLUDED ON M101.



REVISION No. DATE

11/01/2017

27/01/2017

23/02/2017

17/03/2017

11/04/2017

28/04/2017

09/08/2017

CONSULTANT

DESCRIPTION

ISSUED FOR REVISED DD

ISSUED FOR 30% WD

ISSUED FOR 60% WD

ISSUED FOR 90% WD

ISSUED FOR TENDER

ADDENDUM M-1

ADDENDUM M-2

ADDENDUM M-3

ISSUED FOR

POST TENDER ADDENDUM

SMITHERS REGIONAL AIRPORT TERMINAL EXPANSION

6421 AIRPORT ROAD SMITHERS, BC V0J 2N2



DRAWN BY CHECKED	DF NB	P. 250-38- E. info@mod	4-2131 prewilson.ca
SCALE FILE NAME	1 : 100	DATE	2017/08/0

DRAWING TITLE

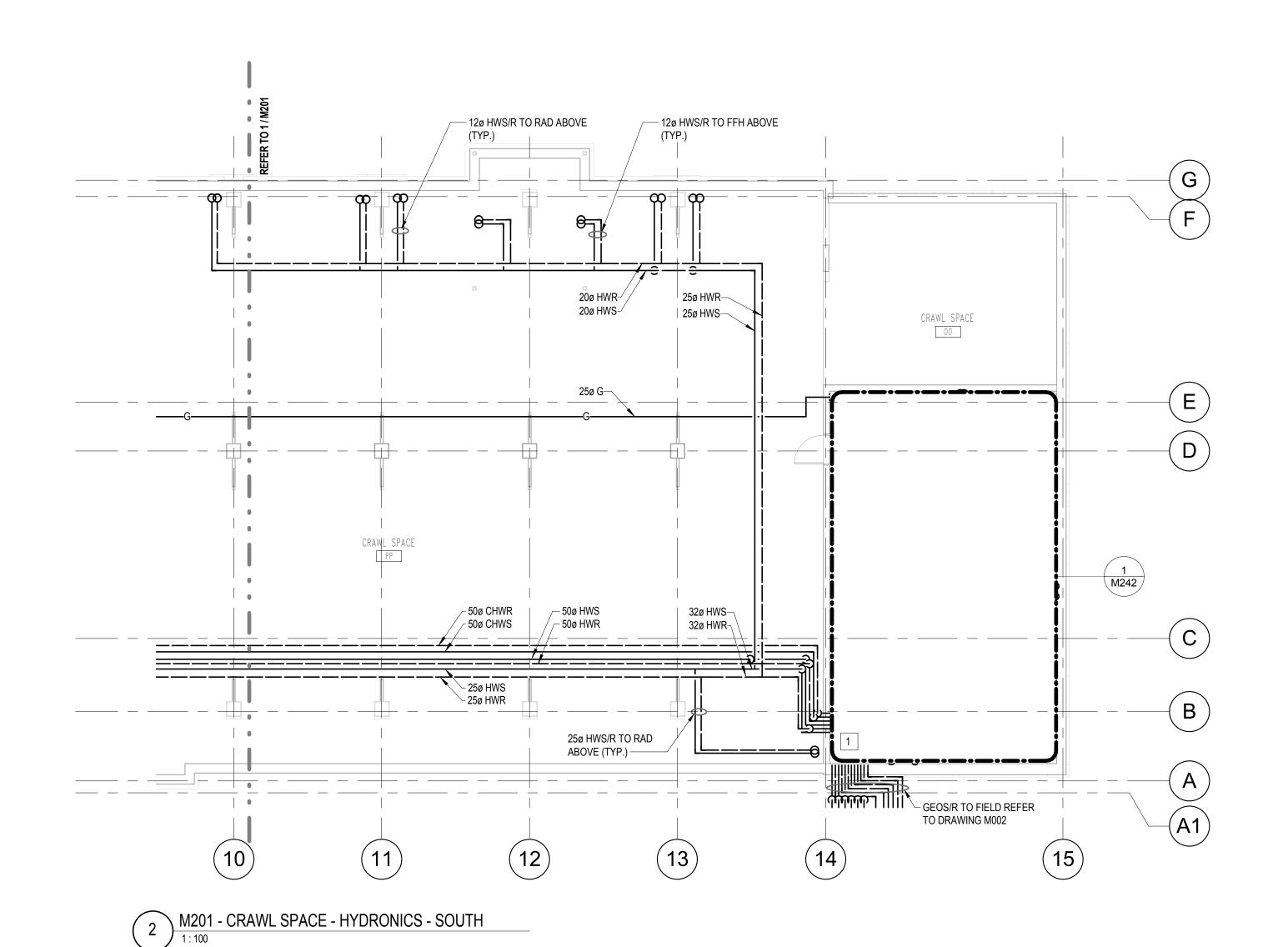
CRAWLSPACE - HYDRONICS

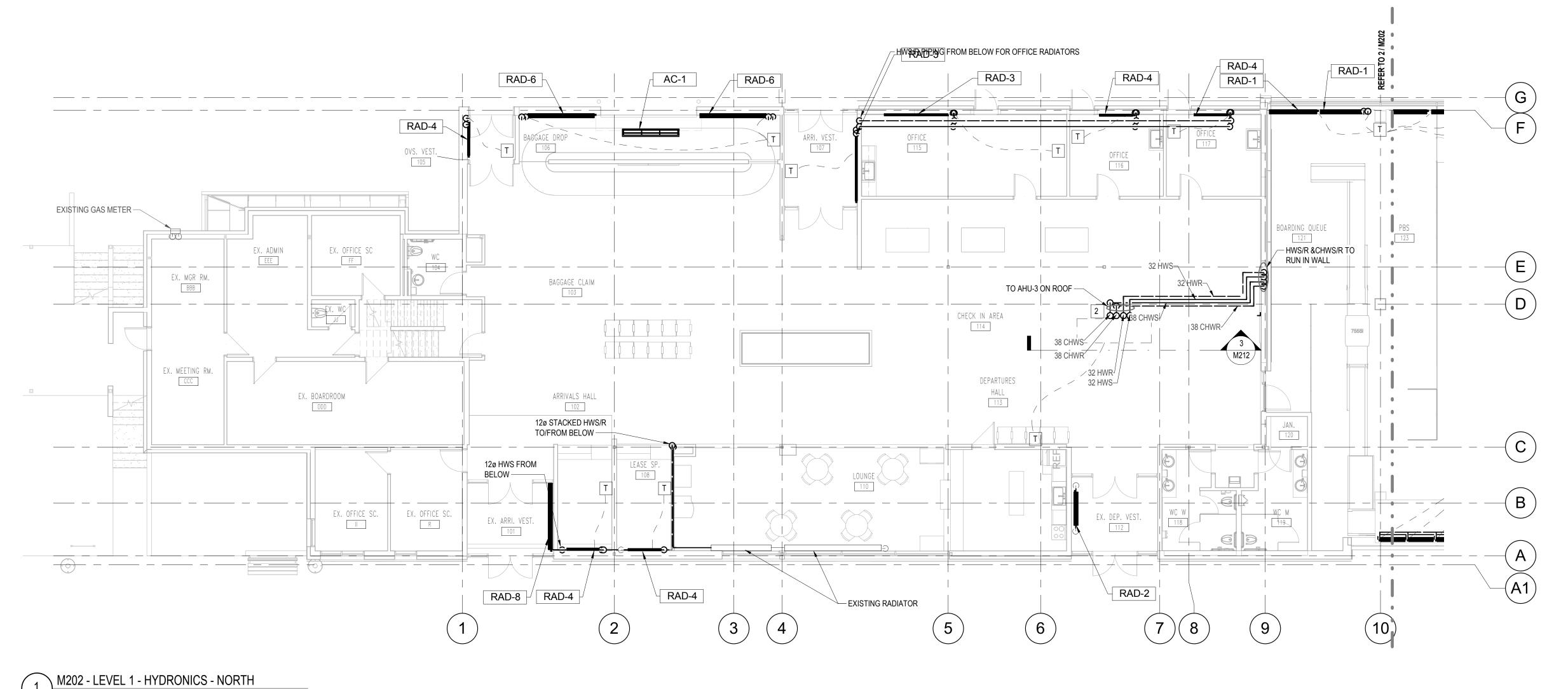
PROJECT

151014.000 M201

REVISION No.

Copyright reserved. This drawing and all copyright therein are the sole and exclusive property of the consultant. Reproduction or use of this drawing in whole or in part is prohibited and may not be used without the written consent of Moore





1. ALL RADIATORS TO BE C/W THERMOSTAT RADIATOR VALVE AND ISOLATION VALVE.
2. ALL FORCED FLOW HEATERS TO BE C/W ISOALTION VALVES AND

THERMOSTAT CONTROL.

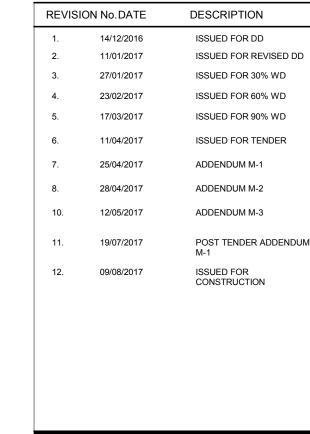
3. SIZES OF EXISTING PIPEWORK INCLUDED ON M102.

4. TEMPERATURE SENSOR TO BE INSTALLED AT 1500 AFFL.

DRAWING NOTES:

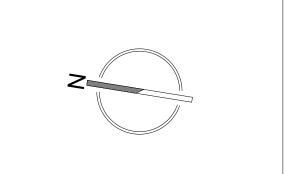
1 REFER TO MECHANICAL DETAIL M502 FOR UNIT HEATER INSTALATION DETAIL

2 CHW AND HW PIPING TO RISE UP INTO AHU-3 PIPING VESTIBULE. PROVIDE ISOLATION VALVES AND DRAIN CONNECTIONS ON PIPING DIRECTLY BELOW UNIT.





604.687.1802 Facsimile E-Mail: info@integralgroup.com www.integralgroup.com





SMITHERS REGIONAL AIRPORT TERMINAL EXPANSION

6421 AIRPORT ROAD SMITHERS, BC VOJ 2N2





DRAWING TITLE

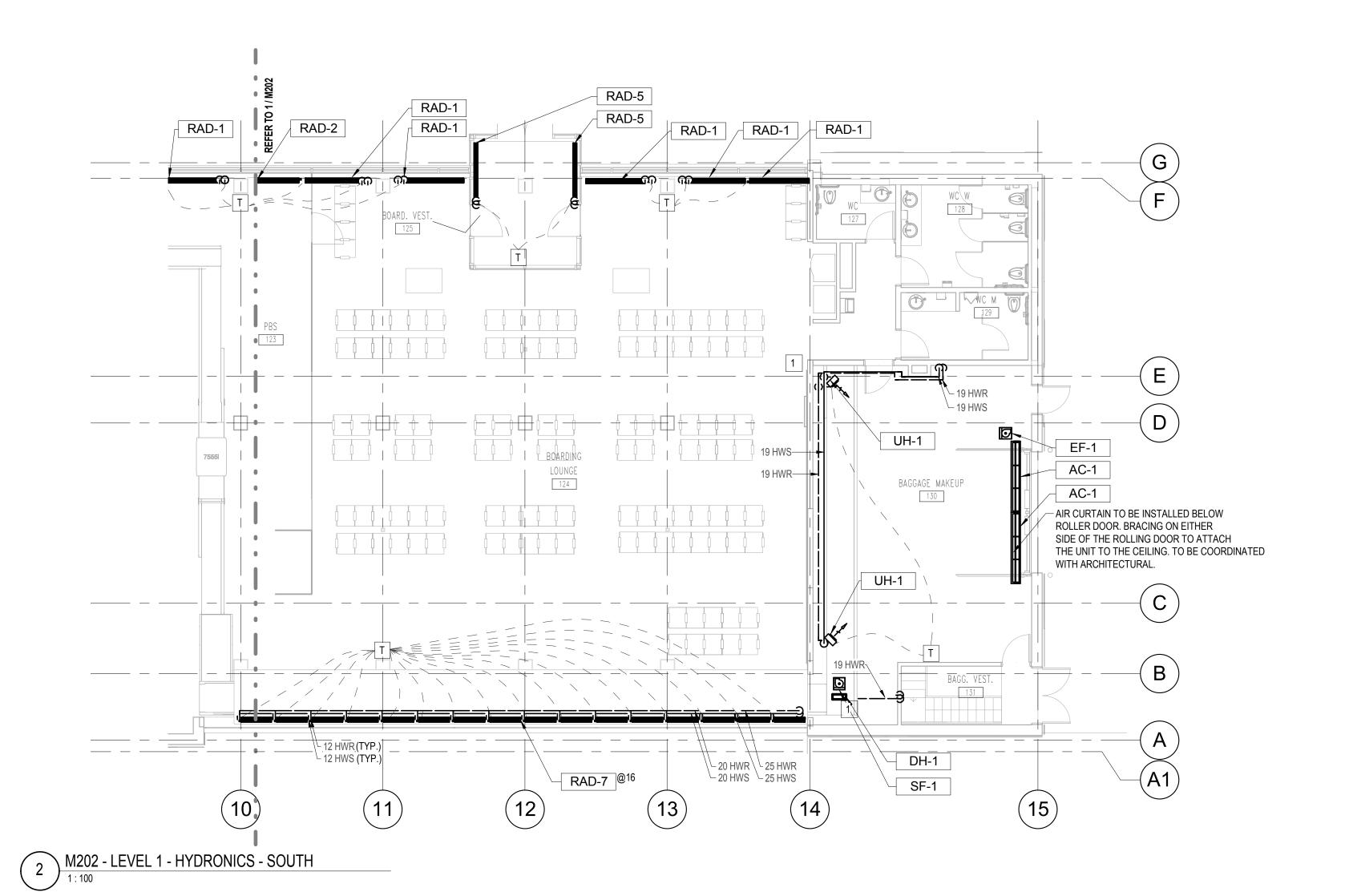
LEVEL 1 -HYDRONICS

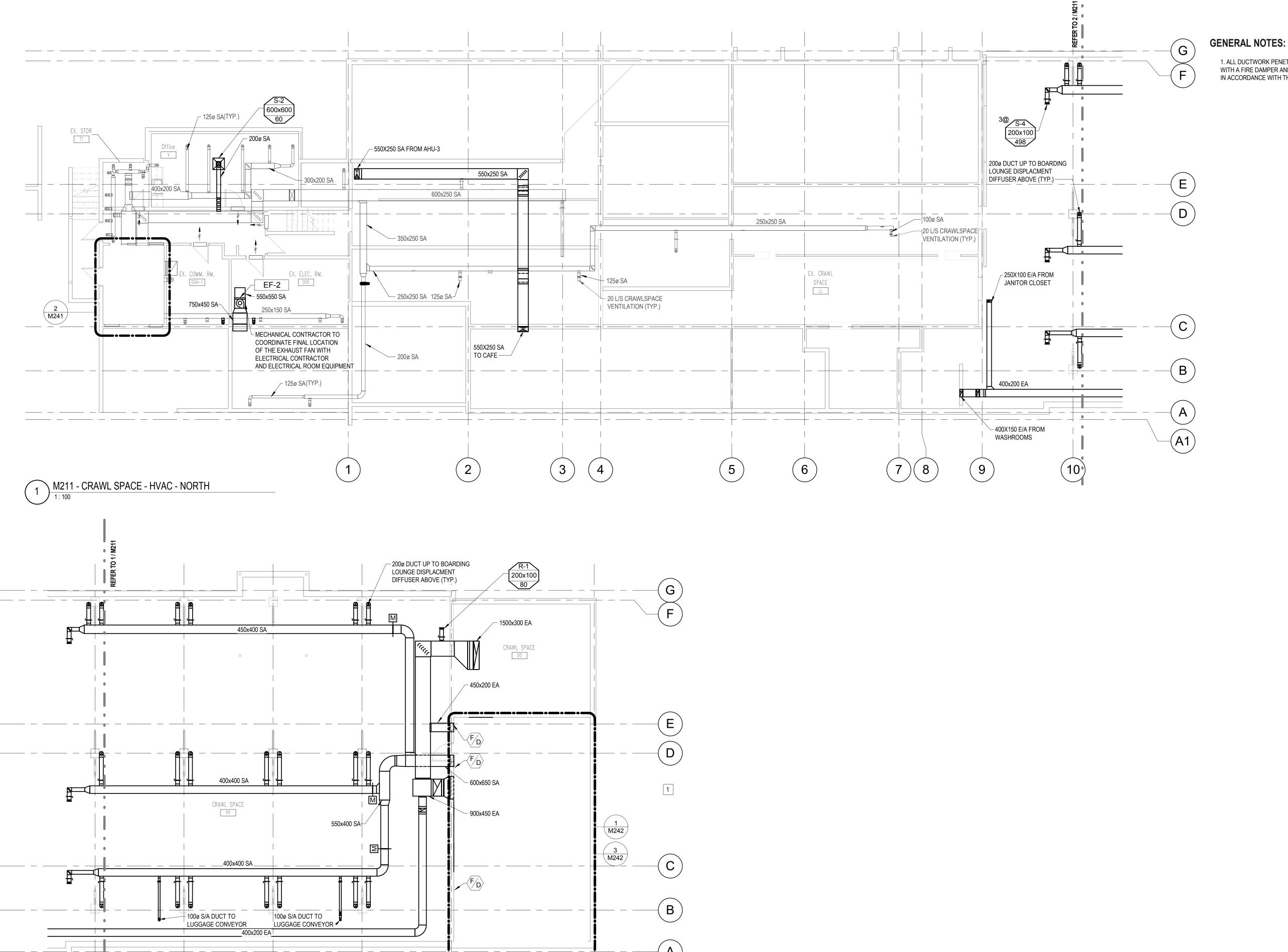
PROJECT

151014.000 M202

REVISION No.

Copyright reserved. This drawing and all copyright therein are the sole and exclusive property of the consultant. Reproduction or use of this drawing in whole or in part is prohibited and may not be used without the written consent of Moore Wilson Architects Inc.





(15)

(13)

M211 - CRAWL SPACE - HVAC - SOUTH

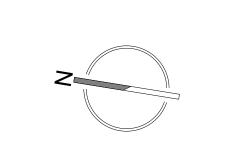
(14)

1. ALL DUCTWORK PENETRATING FIRE RATED WALLS TO BE EQUIPPED WITH A FIRE DAMPER AND ALL OTHER SERVICES MUST BE FIRE STOPPED IN ACCORDANCE WITH THE FIRE ASSEMBLY RATING.

REVISION No. DATE DESCRIPTION ISSUED FOR REVISED DD 11/01/2017 ISSUED FOR 30% WD 27/01/2017 ISSUED FOR 60% WD 23/02/2017 ISSUED FOR 90% WD 17/03/2017 ISSUED FOR TENDER 11/04/2017 ADDENDUM M-1 25/04/2017 28/04/2017 ADDENDUM M-2 ADDENDUM M-3 12/05/2017 POST TENDER ADDENDUM ISSUED FOR 09/08/2017

CONSULTANT

Suite 180 - 200 Granville Street Vancouver BC Canada V6C 1S4 604.687.1800 Telephone 604.687.1802 Facsimile E-Mail: info@integralgroup.com www.integralgroup.com



SMITHERS REGIONAL AIRPORT TERMINAL EXPANSION



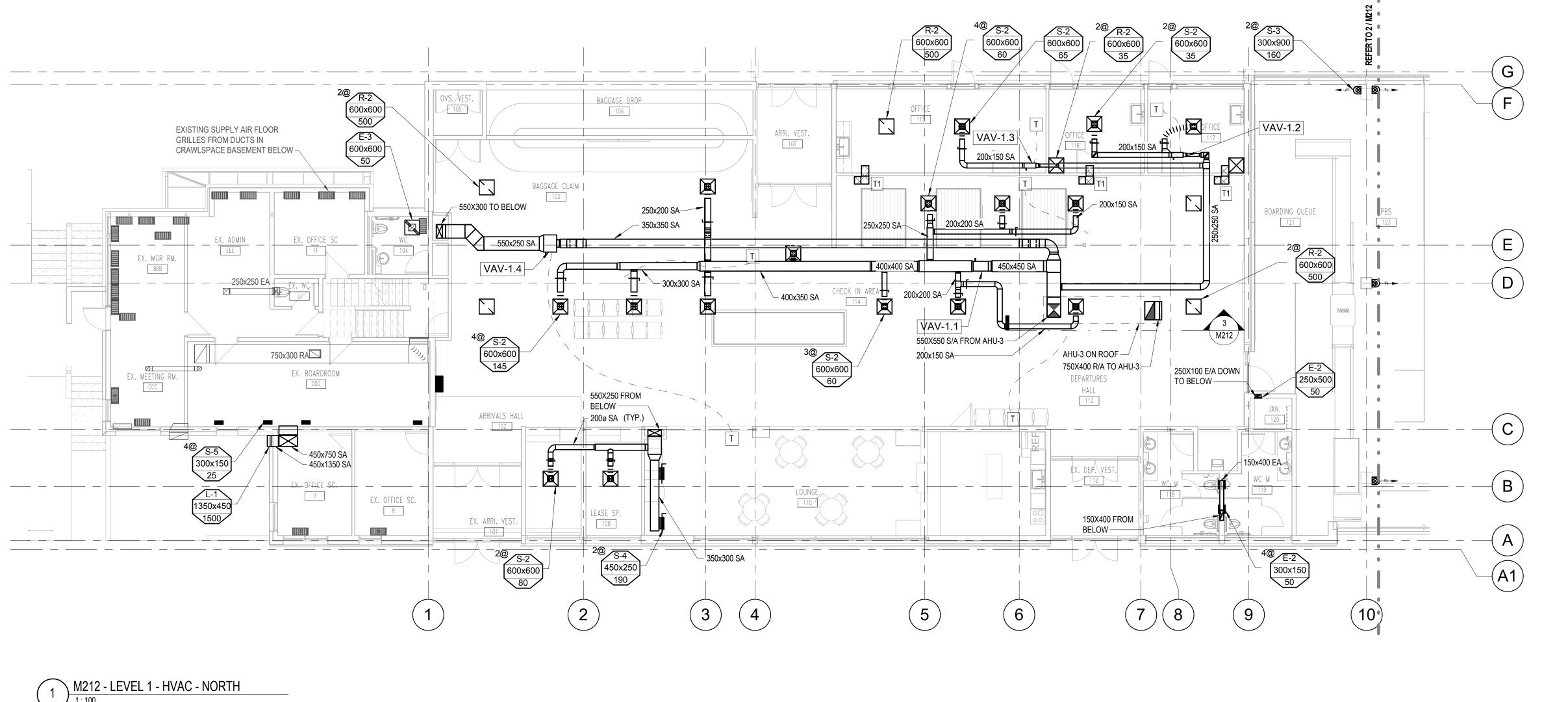
DRAWN BY DF CHECKED NB SCALE 1:100 FILE NAME

DRAWING TITLE

CRAWLSPACE - HVAC

151014.000 M211

REVISION No.



DRAWING NOTES:

1 ALL PENETRATIONS THROUGH FIRE RATED WALLS MUST BE FIRE RATED IN LINE WITH ARCHITECTS SPECIFICATIONS.

PROVIDE FIRE DAMPERS AT ALL DUCT PENETRATIONS THROUGH FLOOR ☐ OF BAGGAGE MAKEUP ROOM / CEILING OF MECHANICAL ROOM

GENERAL NOTES:

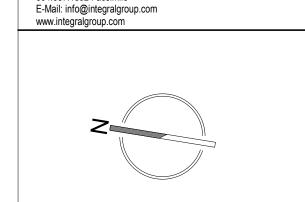
AHU-3

− 750x400 RA

T/O ROOF 104905

U/S ROOF 104000

1. SIZES OF EXISTING DUCTWORK INCLUDED ON M102.



REVISION No. DATE

11/01/2017

27/01/2017

23/02/2017

17/03/2017

11/04/2017

25/04/2017

28/04/2017

09/08/2017

CONSULTANT

Suite 180 - 200 Granville Street Vancouver BC Canada V6C 1S4

604.687.1800 Telephone

604.687.1802 Facsimile

DESCRIPTION

ISSUED FOR REVISED DD

ISSUED FOR 30% WD

ISSUED FOR 60% WD

ISSUED FOR 90% WD

ISSUED FOR TENDER

ADDENDUM M-1

ADDENDUM M-2

ADDENDUM M-3

ISSUED FOR

POST TENDER ADDENDUM

SMITHERS REGIONAL AIRPORT TERMINAL EXPANSION

6421 AIRPORT ROAD SMITHERS, BC V0J 2N2



DRAWN BY CHECKED	DF NB	P. 250-38- E. info@mod	4-2131 orewilson.ca
SCALE FILE NAME	As indicated	DATE	2017/08/09

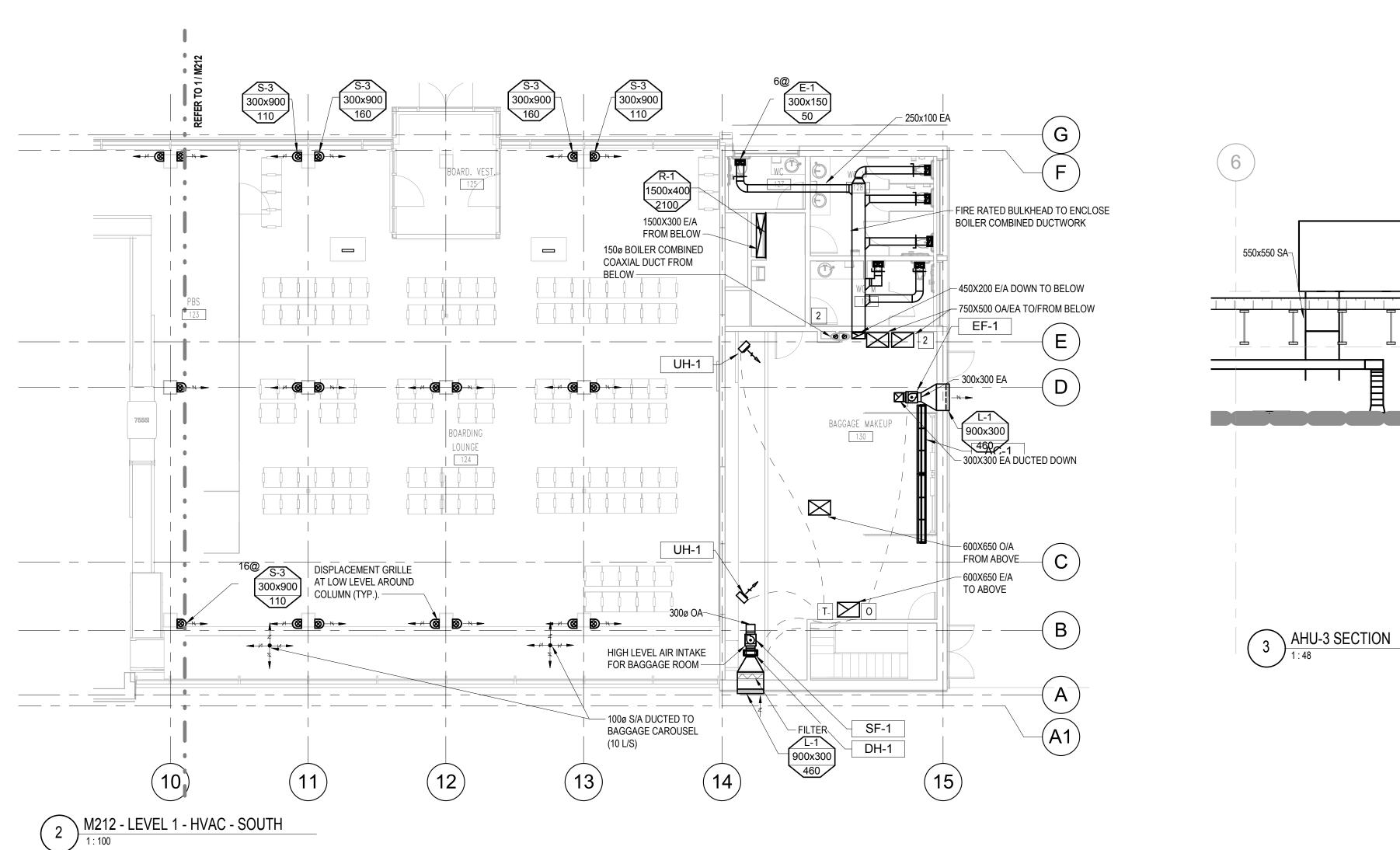
DRAWING TITLE

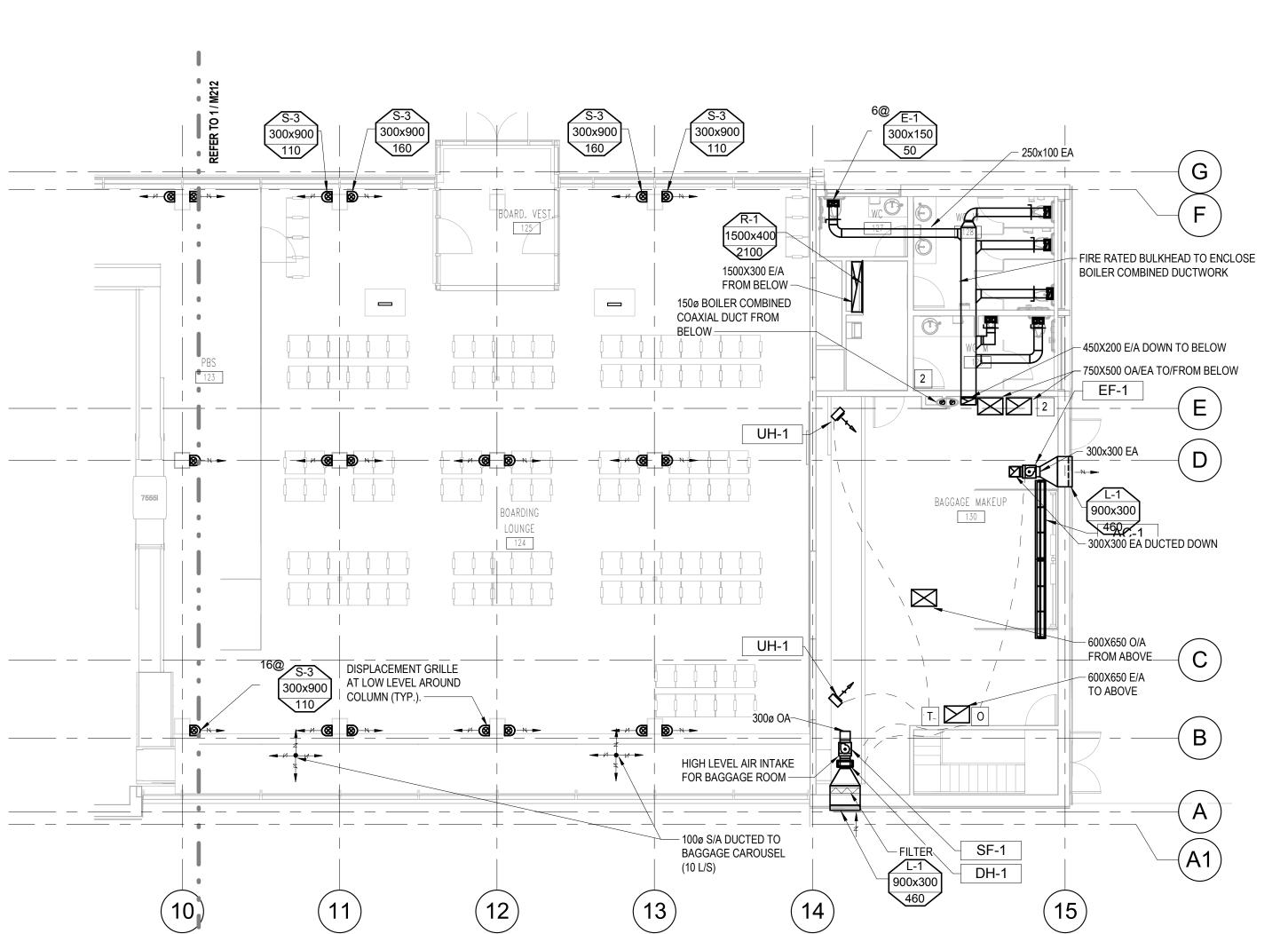
LEVEL 1 - HVAC

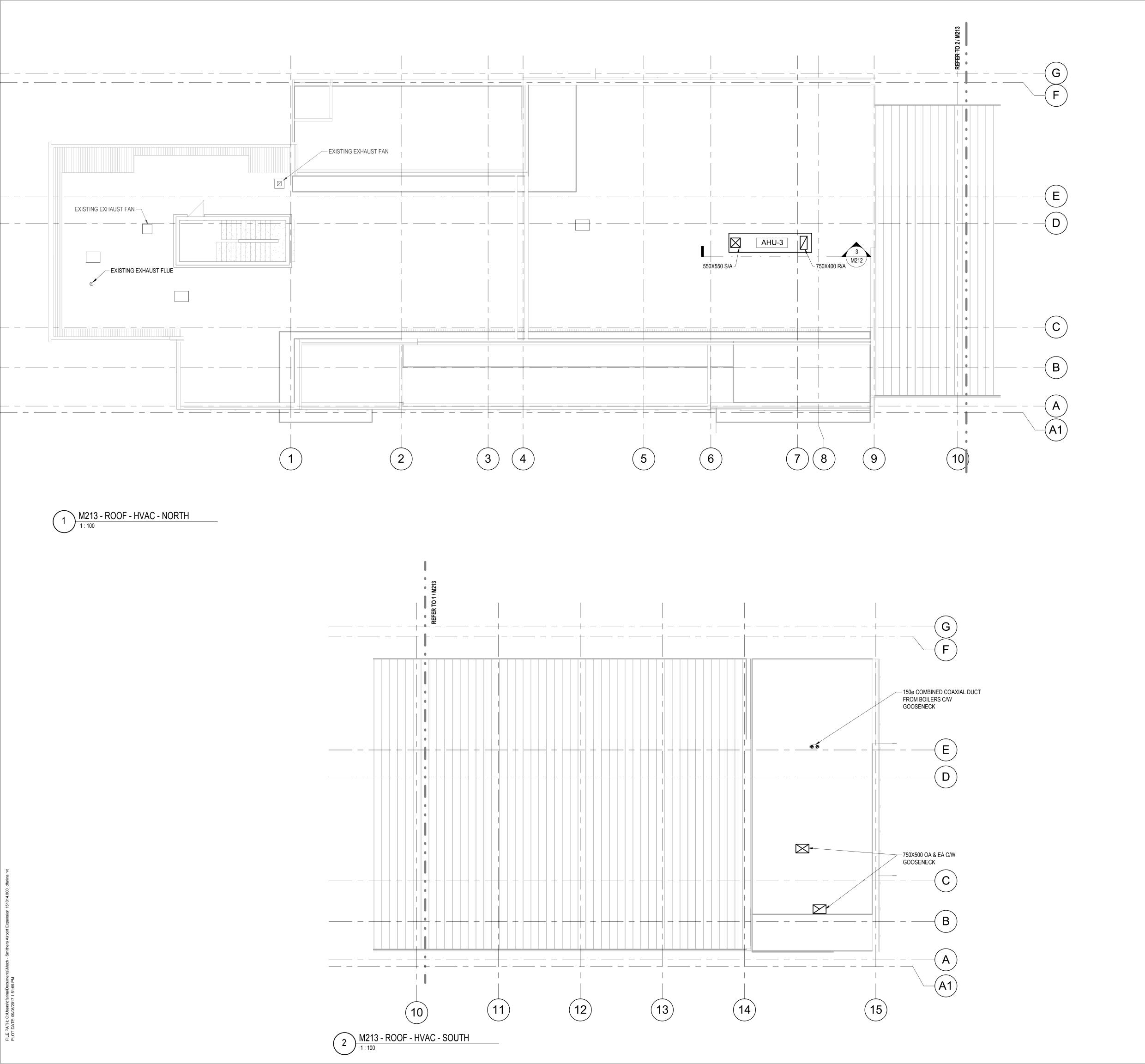
PROJECT

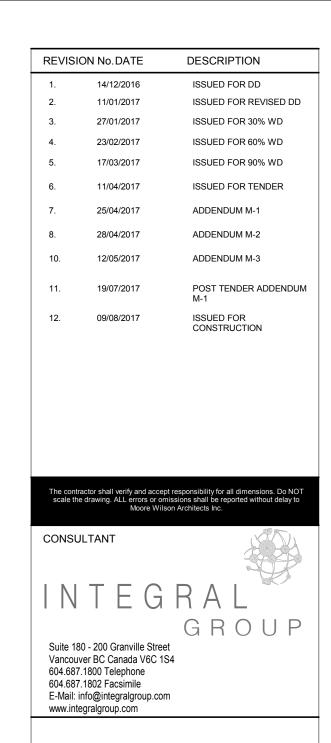
151014.000 M212

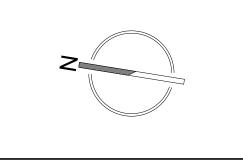
REVISION No.









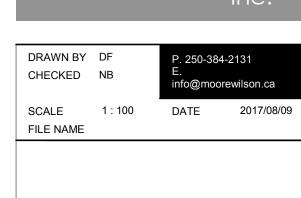


SEAL

SMITHERS REGIONAL AIRPORT TERMINAL EXPANSION

6421 AIRPORT ROAD SMITHERS, BC VOJ 2N2





DRAWING TITLE

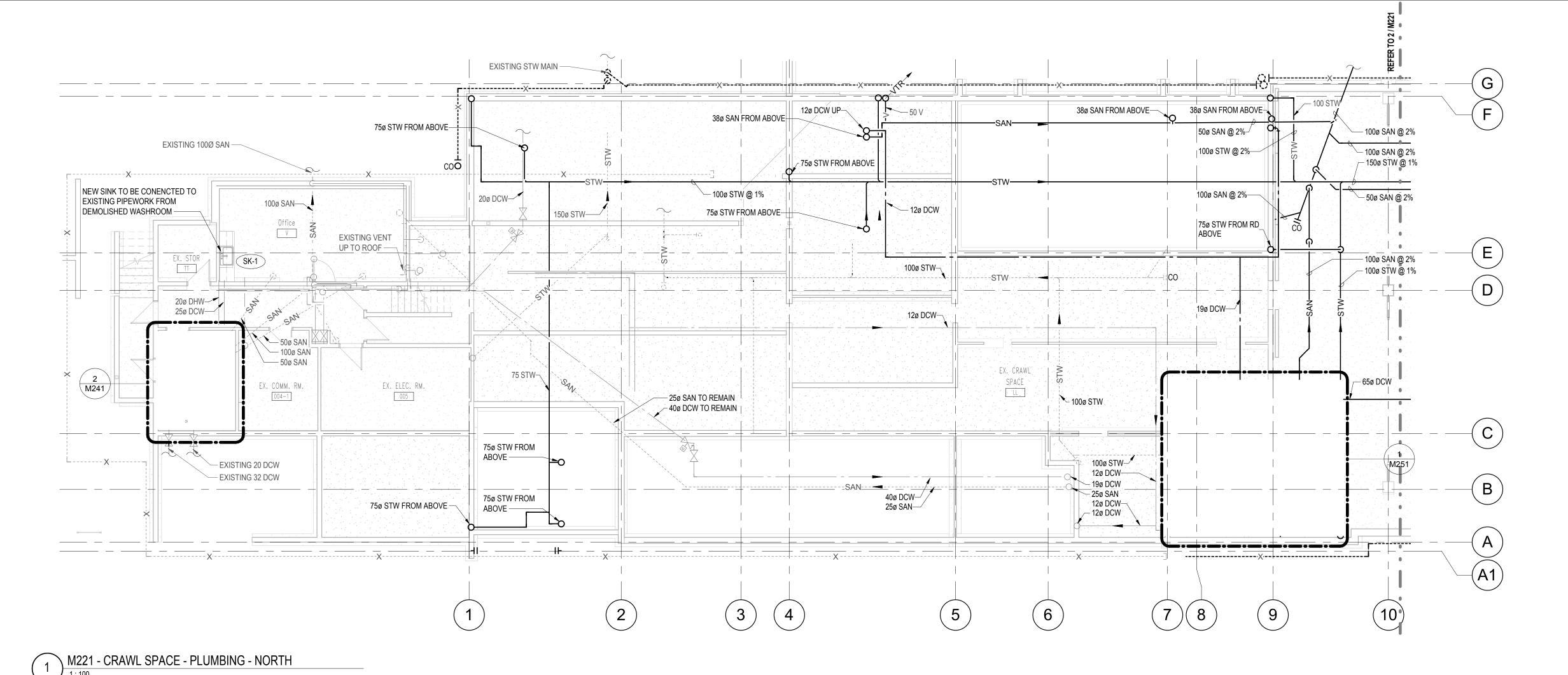
ROOF - HVAC

ROJECT

151014.000 M213

REVISION No.

Copyright reserved. This drawing and all copyright therein are the se exclusive property of the consultant. Reproduction or use of this drawing or in part is prohibited and may not be used without the written consen



- NEW 150ø DRAIN TILE

SUMP C/W SUMP PUMP P-S-1 & P-S-2

100ø STW @ 1%—

50ø SAN @ 2%

50ø SAN @ 2%

SAND INTERCEPTOR

EXISTING STW CONNECTION SEE CIVIL DRAWINGS

(13)

DEPTH = 1.35M 2 0.75M W X 1.2M L

NEW 150ø DRAIN TILE

(12)

75ø STW @ 1%-

- 100ø SAN @ 2%

— 150ø STW @ 1% _/− 50ø SAN @ 2%

- 65ø DCW

(11)

75ø STW @ 1%—

EXISTING STW MANHOLE SEE CIVIL DRAWINGS

___ 200ø STW

CRAWL SPAC

PP.

— DROP TO 8" BELOW BASEMENT FLOOR LEVEL

──75ø SAN @ 2%

75ø SAN @ 2%—

- 75ø SAN @ 2%

75ø SAN @ 2%—

−75ø SAN @ 2%

— 50ø SAN @ 0% — 50ø SAN @ 2%

50ø SAN @ 2%—

50ø SAN @ 2%

− 75ø SAN @ 2%

75ø SAN @ 2%—

NEW SEDIMENT TRAP C/W PUMPS
BY CIVIL. REFER TO CIVIL
DRAWINGS FOR DETAILS

(15)

FDO----

(14)

----**O**FD

(G)

E

D

(C)

(B)

4 M251 DRAWING NOTES:

1 ALL PENETRATIONS THROUGH FIRE RATED WALLS MUST BE FIRE RATED IN LINE WITH ARCHITECTS SPECIFICATIONS.

GENERAL NOTES:

1. SIZES OF EXISTING PIPEWORK INCLUDED ON M104.

ISSUED FOR REVISED DD 11/01/2017 ISSUED FOR 30% WD 27/01/2017 ISSUED FOR 60% WD 23/02/2017 ISSUED FOR 90% WD 17/03/2017 ISSUED FOR TENDER 11/04/2017 25/04/2017 ADDENDUM M-1 28/04/2017 ADDENDUM M-2 ADDENDUM M-3 12/05/2017 POST TENDER ADDENDUM ISSUED FOR 09/08/2017

DESCRIPTION

REVISION No. DATE

The contractor shall verify and accept responsibility for all dimensions. Do NOT scale the drawing. ALL errors or omissions shall be reported without delay to Moore Wilson Architects Inc.

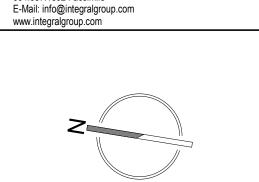
CONSULTANT

INTEGRAL

GROUP

Suite 180 - 200 Granville Street
Vancouver BC Canada V6C 1S4

604.687.1800 Telephone 604.687.1802 Facsimile



SEAL

SMITHERS REGIONAL AIRPORT TERMINAL EXPANSION

6421 AIRPORT ROAD SMITHERS, BC V0J 2N2



DRAWN BY DF
CHECKED NB

SCALE 1:100

P. 250-384-2131

E. info@moorewilson.ca

DATE 2017/08/09

FILE NAME

DRAWING TITLE

CRAWLSPACE - PLUMBING

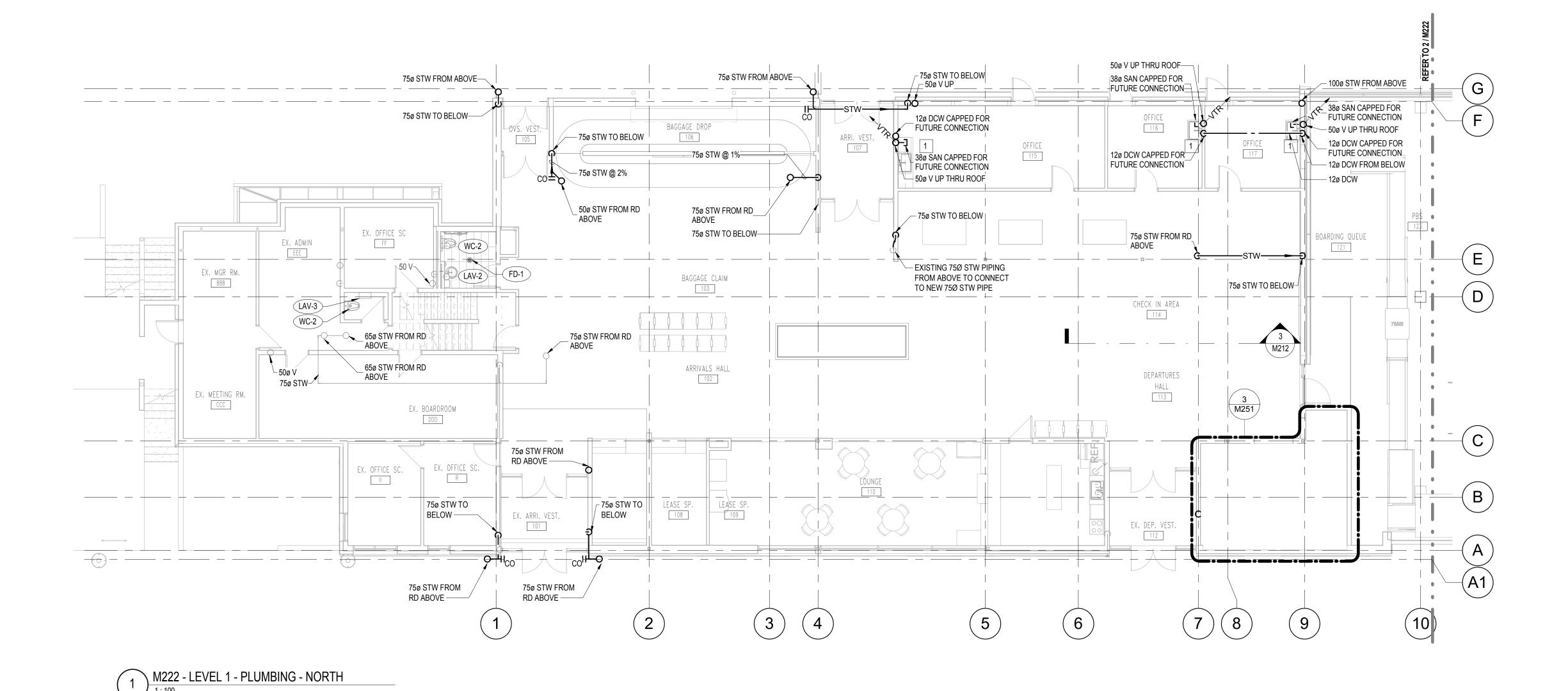
PROJECT

SHEE

2 M221 - CRAWL SPACE - PLUMBING - SOUTH

REVISION No. 12

Copyright reserved. The desired and all copyright beard are of the security of a part is produced and with content of the security of a part is produced and all copyright reserved. The desired and all copyright reserved are in the security of a part is produced and and copyright reserved are in the security of a part is produced and and copyright reserved. The desired and all copyright reserved are in the security of a part is produced and and copyright reserved are in the security of a part is produced and and copyright reserved.

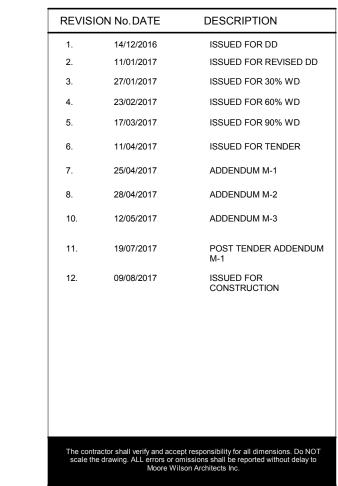




1 UTILITIES TO TENANT SPACES TO BE CAPPED OFF FOR FUTURE CONNECTION

GENERAL NOTES:

1. SIZES OF EXISTING PIPEWORK INCLUDED ON M105.



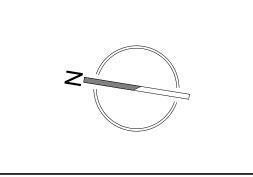
The contractor shall verify and accept responsibility for all dimensions. Do NOT scale the drawing. ALL errors or omissions shall be reported without delay to Moore Wilson Architects Inc.

CONSULTANT

INTEGRAL

GROUP

Suite 180 - 200 Granville Street
Vancouver BC Canada V6C 1S4
604.687.1800 Telephone
604.687.1802 Facsimile
E-Mail: info@integralgroup.com
www.integralgroup.com

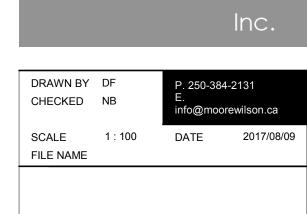


SEAL

SMITHERS REGIONAL AIRPORT TERMINAL EXPANSION

6421 AIRPORT ROAD SMITHERS, BC V0J 2N2





DRAWING TITLE

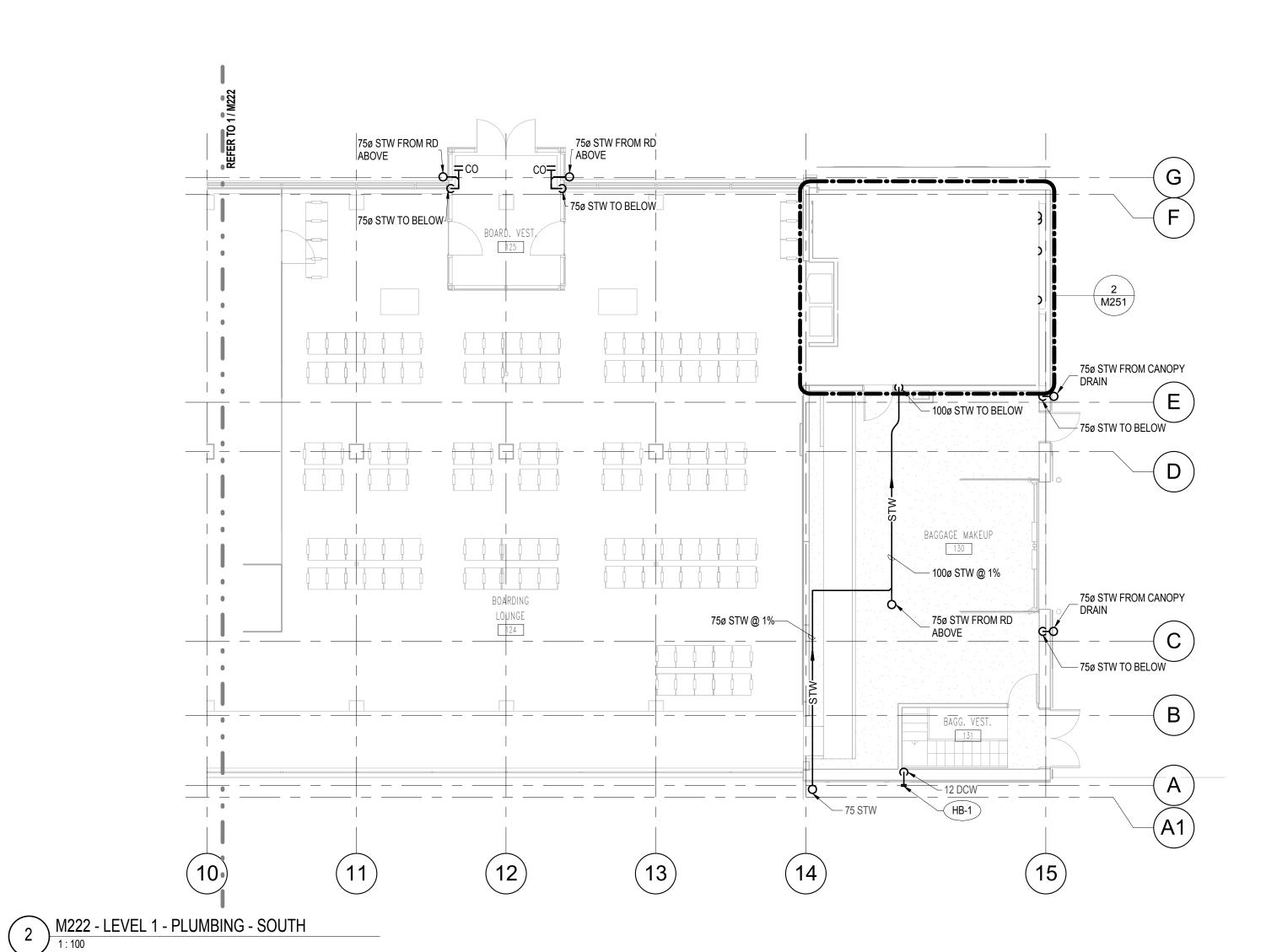
LEVEL 1 - PLUMBING

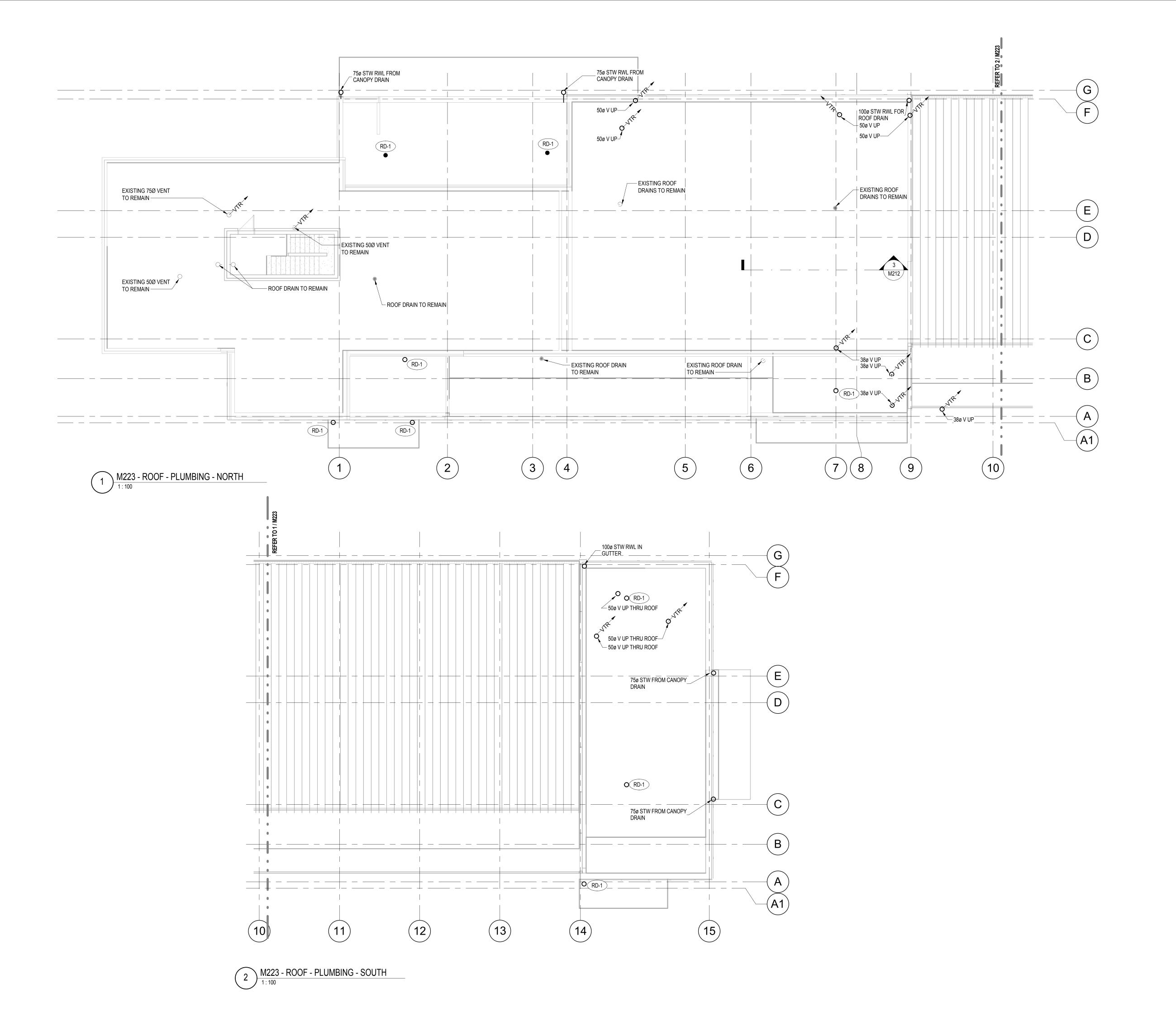
PROJECT

151014.000 M222

REVISION No. 12.

Copyright reserved. This drawing and all copyright therein are the sole and exclusive property of the consultant. Reproduction or use of this drawing in whole or in part is prohibited and may not be used without the written consent of Moore Wilson Architects Inc.





REVISION No. DATE DESCRIPTION ISSUED FOR REVISED DD 11/01/2017 ISSUED FOR 30% WD 27/01/2017 ISSUED FOR 60% WD 23/02/2017 ISSUED FOR 90% WD 17/03/2017 ISSUED FOR TENDER 11/04/2017 ADDENDUM M-1 25/04/2017 28/04/2017 ADDENDUM M-2 ADDENDUM M-3 12/05/2017 POST TENDER ADDENDUM ISSUED FOR CONSTRUCTION 09/08/2017

The contractor shall verify and accept responsibility for all dimensions. Do NOT scale the drawing. ALL errors or omissions shall be reported without delay to Moore Wilson Architects Inc.

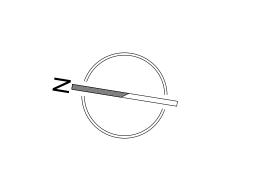
CONSULTANT

INTEGRAL

GROUP

Suite 180 - 200 Granville Street
Vancouver BC Canada V6C 1S4
604.687.1800 Telephone

604.687.1802 Facsimile E-Mail: info@integralgroup.com www.integralgroup.com



SEAL



6421 AIRPORT ROAE SMITHERS, BC V0J 2N2



DRAWN BY DF
CHECKED NB

SCALE 1:100

FILE NAME

P. 250-384-2131

E. info@moorewilson.ca

DATE 2017/08/09

DRAWING TITLE

ROOF - PLUMBING

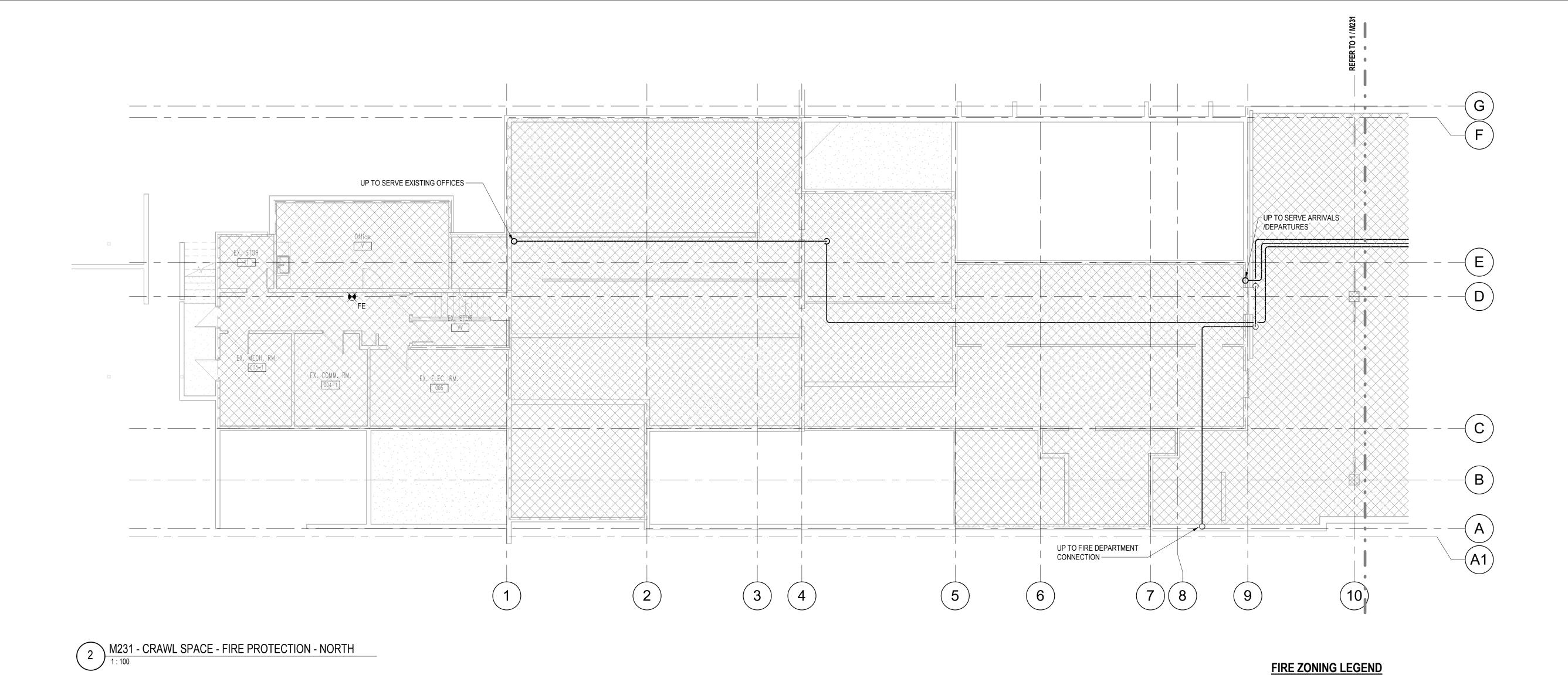
PRO.IF

SHEET

151014.000 M223

REVISION No. 12.

Copyright reserved. This drawing and all copyright therein are the sole and usive property of the consultant. Reproduction or use of this drawing in whole n part is prohibited and may not be used without the written consent of Moore Wilson Architects Inc.



(13)

(12)

(11)

1 M231 - CRAWL SPACE - FIRE PROTECTION - SOUTH

(14)

(15)

REVISION No. DATE DESCRIPTION ISSUED FOR REVISED DD 11/01/2017 ISSUED FOR 30% WD 27/01/2017 ISSUED FOR 60% WD 23/02/2017 ISSUED FOR 90% WD ISSUED FOR TENDER 25/04/2017 ADDENDUM M-1 ADDENDUM M-2 ADDENDUM M-3 POST TENDER ADDENDUM 09/08/2017

The contractor shall verify and accept responsibility for all dimensions. Do NOT scale the drawing. ALL errors or omissions shall be reported without delay to Moore Wilson Architects Inc.

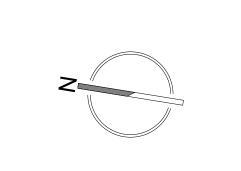
CONSULTANT

INTEGRAL

GROUP

Suite 180 - 200 Granville Street
Vancouver BC Canada V6C 1S4
604.687.1800 Telephone

604.687.1802 Facsimile E-Mail: info@integralgroup.com www.integralgroup.com



SEAL

WET ZONE 1 LIGHT HAZARD

WET ZONE 2 ORDINARY HAZARD GROUP 2

SMITHERS REGIONAL AIRPORT TERMINAL EXPANSION

6421 AIRPORT ROAD SMITHERS, BC VOJ 2N2



DRAWN BY DF
CHECKED NB

SCALE 1:100
FILE NAME

P. 250-384-2131
E.
info@moorewilson.ca

DATE 2017/08/09

DRAWING TITLE

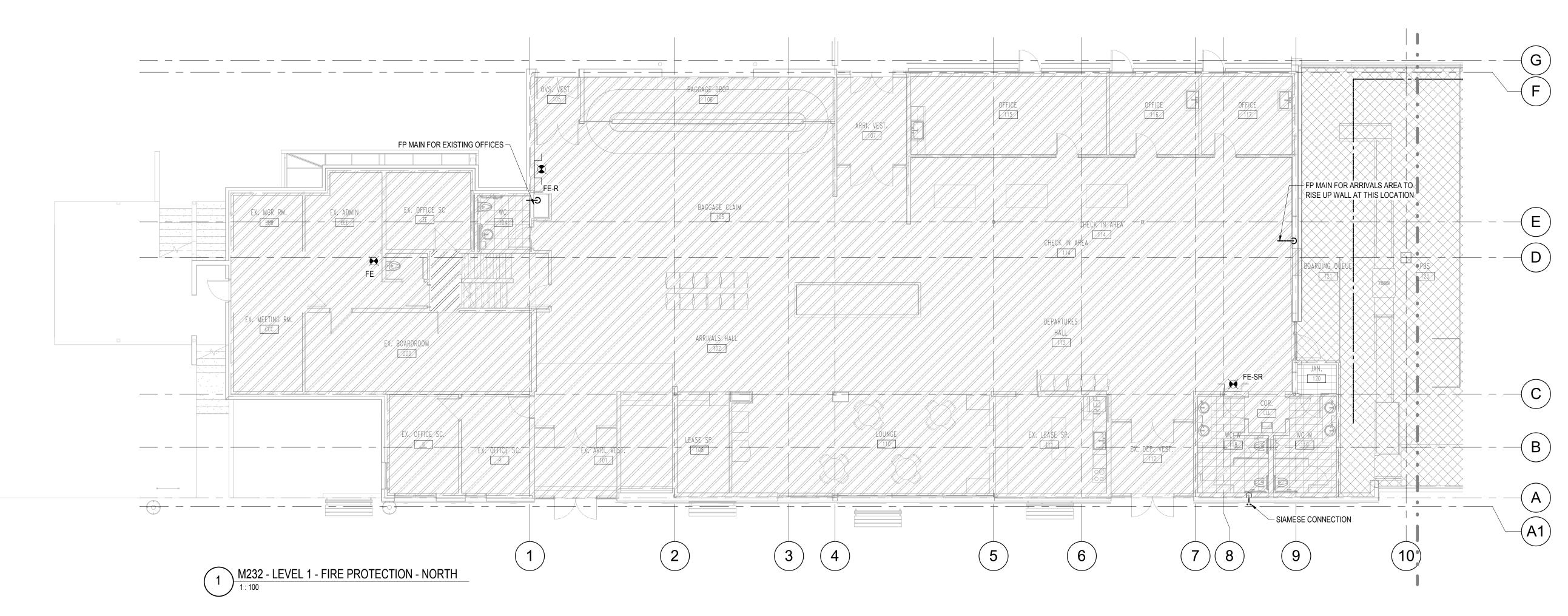
CRAWLSPACE - FIRE PROTECTION

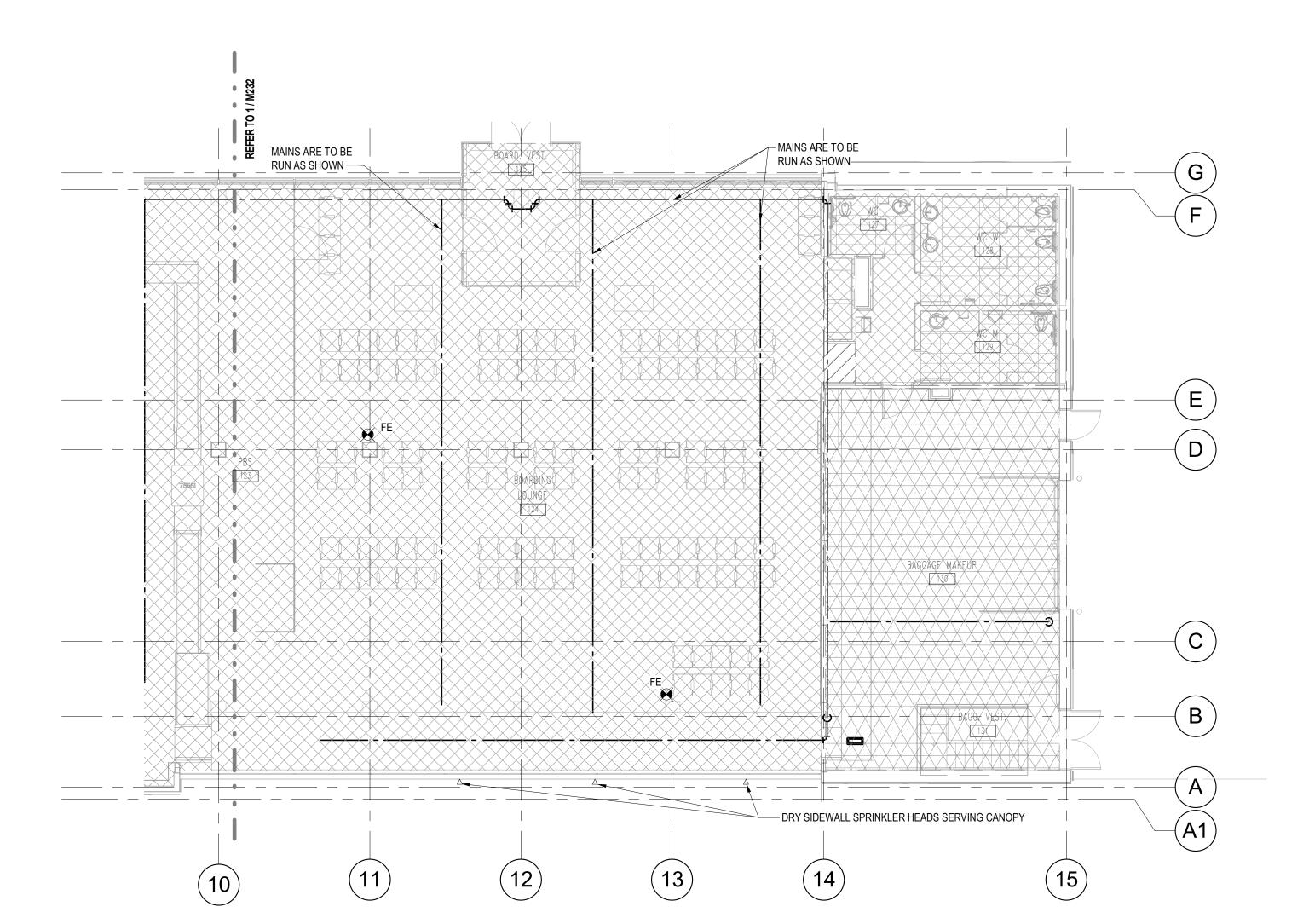
PROJECT

151014.000 M231

REVISION No. 12.

Copyright reserved. This drawing and all copyright therein are the sole and exclusive property of the consultant. Reproduction or use of this drawing in whole or in part is prohibited and may not be used without the written consent of Moore Wilson Architects Inc.





FIRE ZONING LEGEND

WET ZONE 1 LIGHT HAZARD GROUP 1

WET ZONE 2 ORDINARY HAZARD GROUP 1

WET ZONE 3 ORDINARY HAZARD GROUP 2



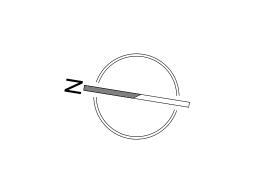
The contractor shall verify and accept responsibility for all dimensions. Do NOT scale the drawing. ALL errors or omissions shall be reported without delay to Moore Wilson Architects Inc.

CONSULTANT

INTEGRAL

GROUP

Suite 180 - 200 Granville Street
Vancouver BC Canada V6C 1S4
604.687.1800 Telephone



SEAL

604.687.1802 Facsimile E-Mail: info@integralgroup.com www.integralgroup.com

SMITHERS REGIONAL AIRPORT TERMINAL EXPANSION

6421 AIRPORT ROAD SMITHERS, BC V0J 2N2



DRAWN BY DF
CHECKED NB

SCALE 1:100

P. 250-384-2131
E. info@moorewilson.ca

DATE 2017/08/09
FILE NAME

DRAWING TITLE

LEVEL 1 - FIRE PROTECTION

PROJECT

151014.000 M232

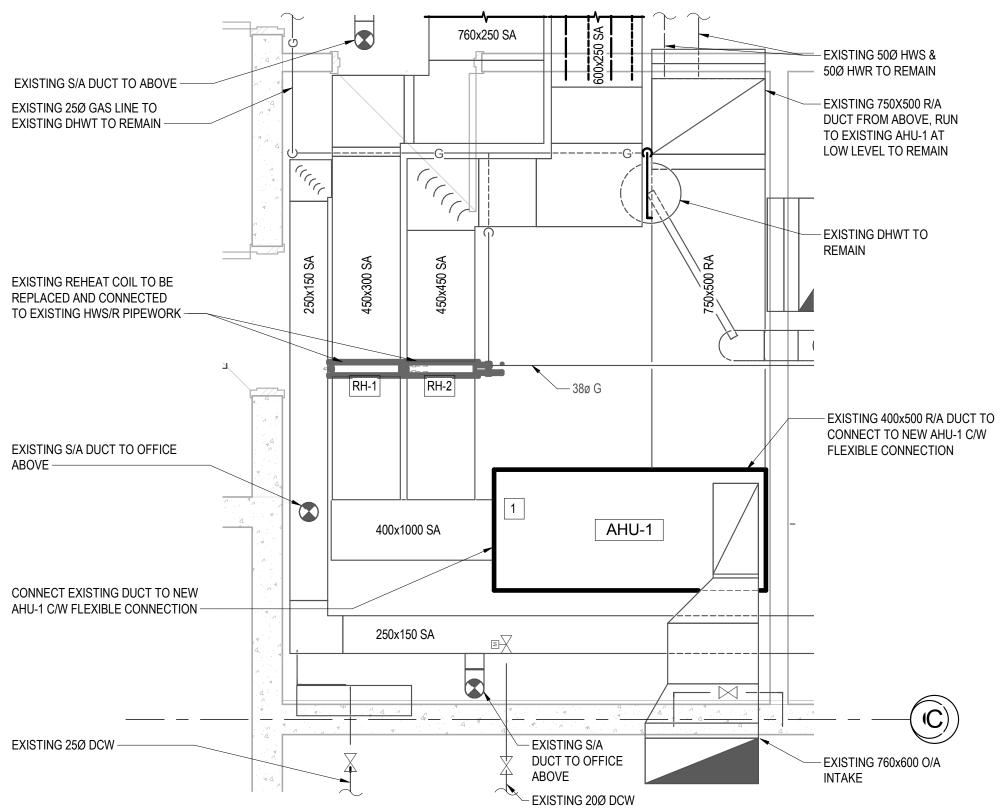
REVISION No.

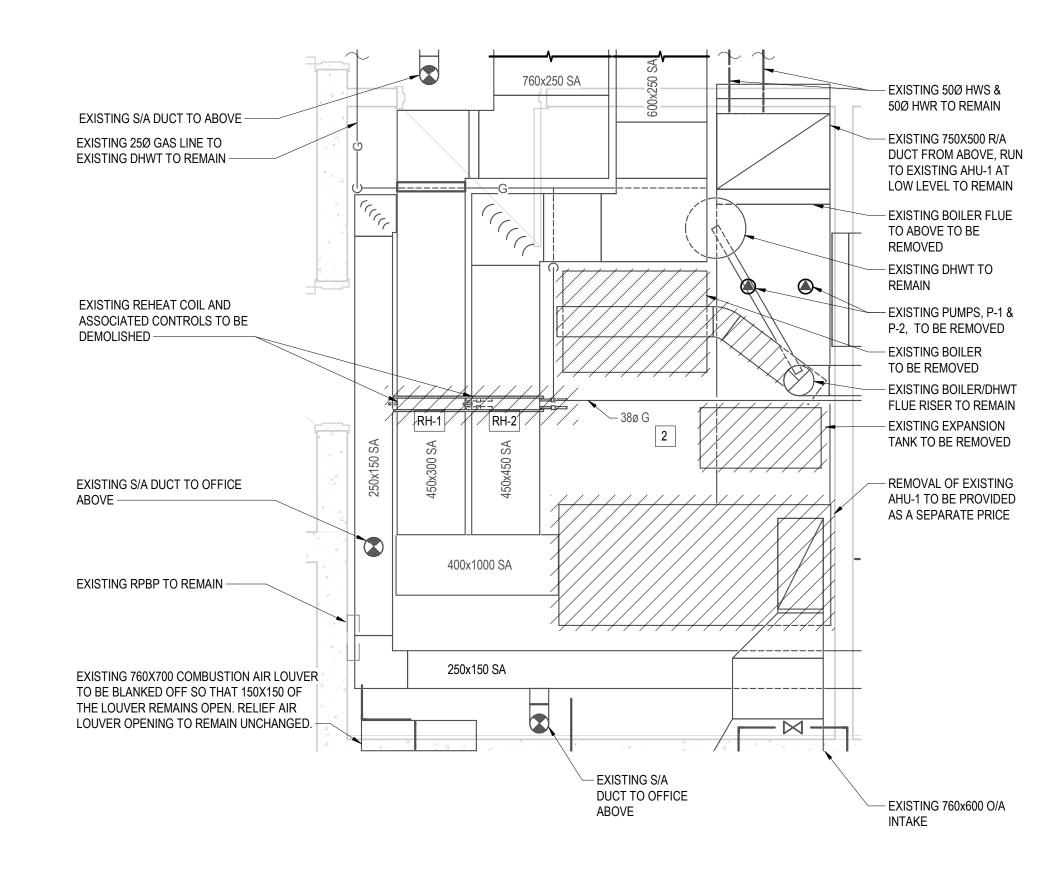
Copyright reserved. This drawing and all copyright therein are the sole and exclusive property of the consultant. Reproduction or use of this drawing in wh or in part is prohibited and may not be used without the written consent of Moc Wisson Architects Inc.

M232 - LEVEL 1 - FIRE PROTECTION - SOUTH

DRAWING NOTES:

- 1 SUPPLY AND INSTALL OF AHU-1 TO BE PROVIDED AS A SEPARATE PRICE. NEW AHU TO BE BROUGHT TO SITE IN PIECES AND ASSEMBLED ON SITE. NEW AHU TO CONNECT TO EXISTING DISTRIBUTION DUCTWORK. NEW AHU-1 AND EXISTING S/A DUCTWORK TO BE SUPPORTED ON RAISED FRAME.
- 2 EXISTING DHWT AND CONTROLS REMAIN.







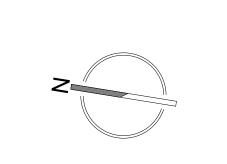
ISSUED FOR REVISED DD 11/01/2017 ISSUED FOR 30% WD 27/01/2017 ISSUED FOR 60% WD 23/02/2017 ISSUED FOR 90% WD 17/03/2017 ISSUED FOR TENDER 11/04/2017 ADDENDUM M-1 25/04/2017 28/04/2017 ADDENDUM M-2 12/05/2017 ADDENDUM M-3 POST TENDER ADDENDUM ISSUED FOR CONSTRUCTION 09/08/2017

DESCRIPTION

REVISION No. DATE

CONSULTANT

Suite 180 - 200 Granville Street Vancouver BC Canada V6C 1S4 604.687.1800 Telephone 604.687.1802 Facsimile E-Mail: info@integralgroup.com www.integralgroup.com



SEAL

SMITHERS REGIONAL AIRPORT TERMINAL EXPANSION

6421 AIRPORT ROAD SMITHERS, BC VOJ 2N2



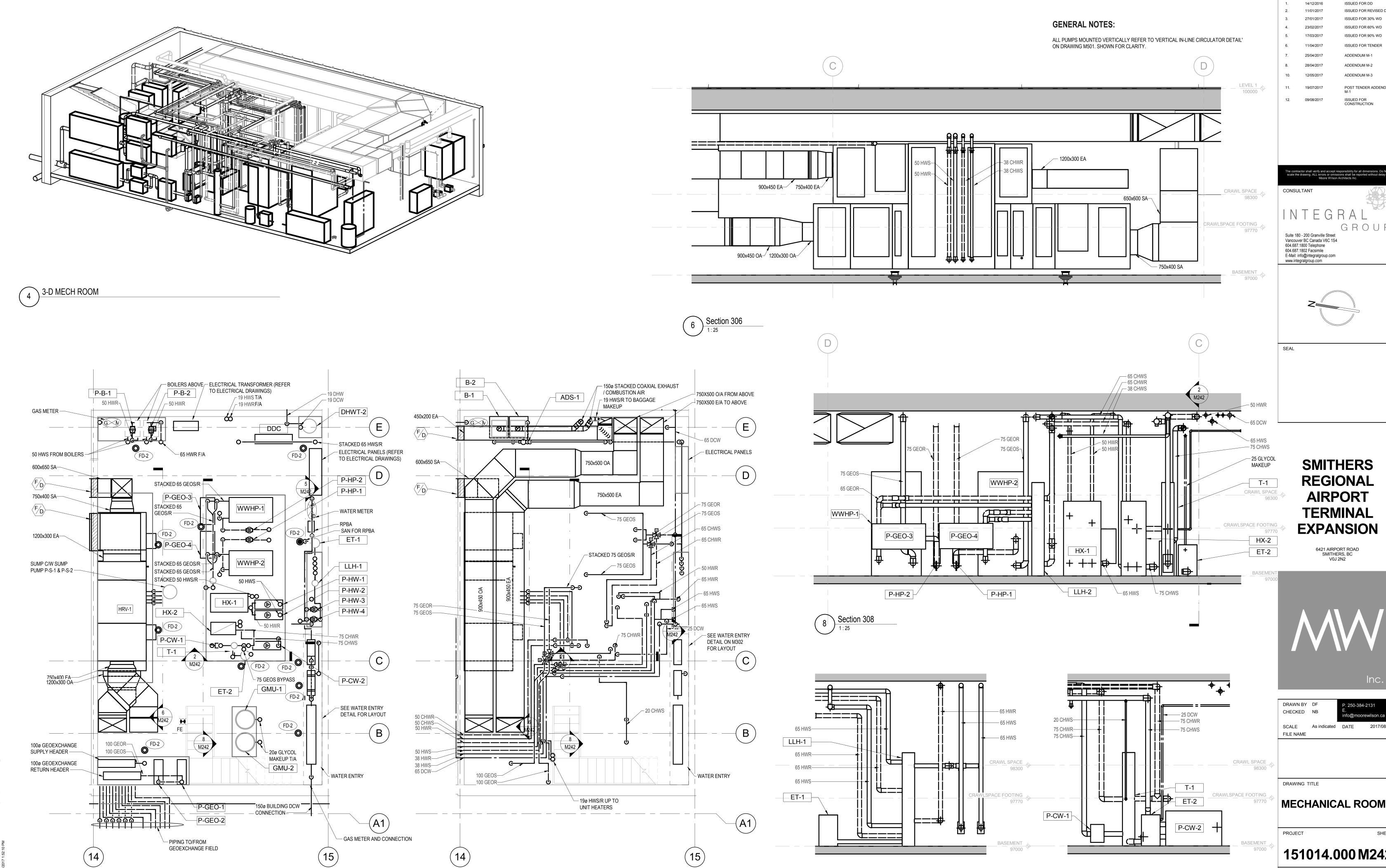
DRAWN BY Author CHECKED Checker SCALE 1:25 DATE 2017/08/09 FILE NAME

DRAWING TITLE

EXISTING MECHANICAL ROOM

PROJECT

151014.000 M241 REVISION No.



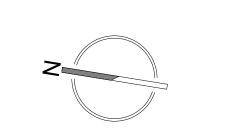
\ NEW MECHANICAL ROOM HIGH LEVEL

NEW MECHANICAL ROOM LOW LEVEL

1:50

5 LOW LOSS HEADER #1 SECTION

REVISION No. DATE DESCRIPTION ISSUED FOR REVISED DD ISSUED FOR 30% WD ISSUED FOR 60% WD ISSUED FOR 90% WD ISSUED FOR TENDER ADDENDUM M-1 ADDENDUM M-2 ADDENDUM M-3 POST TENDER ADDENDUM





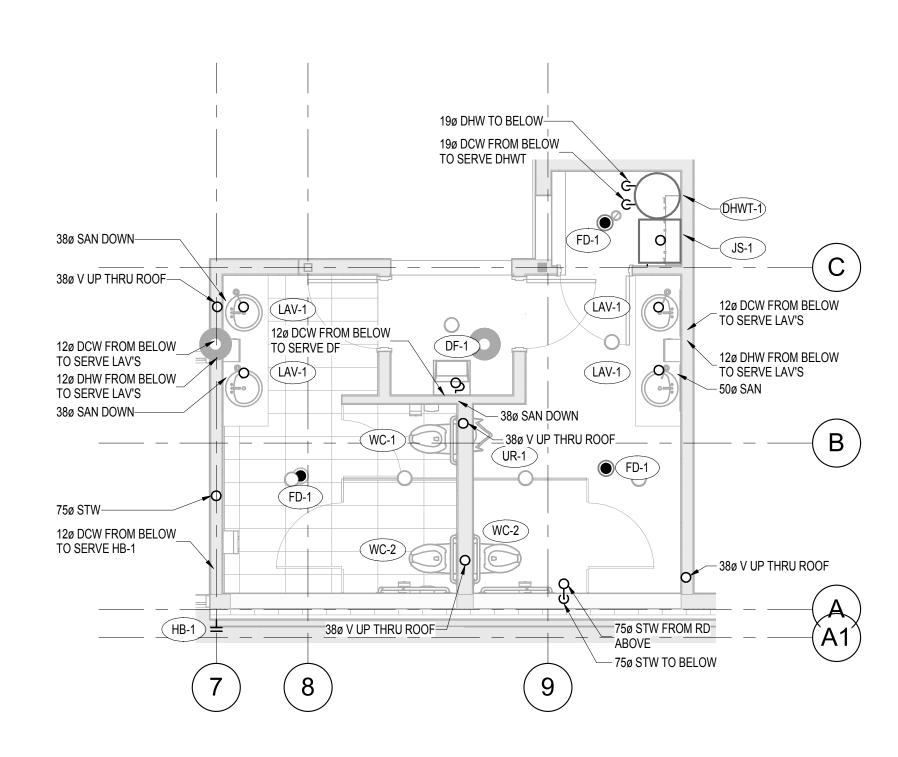
SCALE As indicated DATE 2017/08/09

151014.000 M242

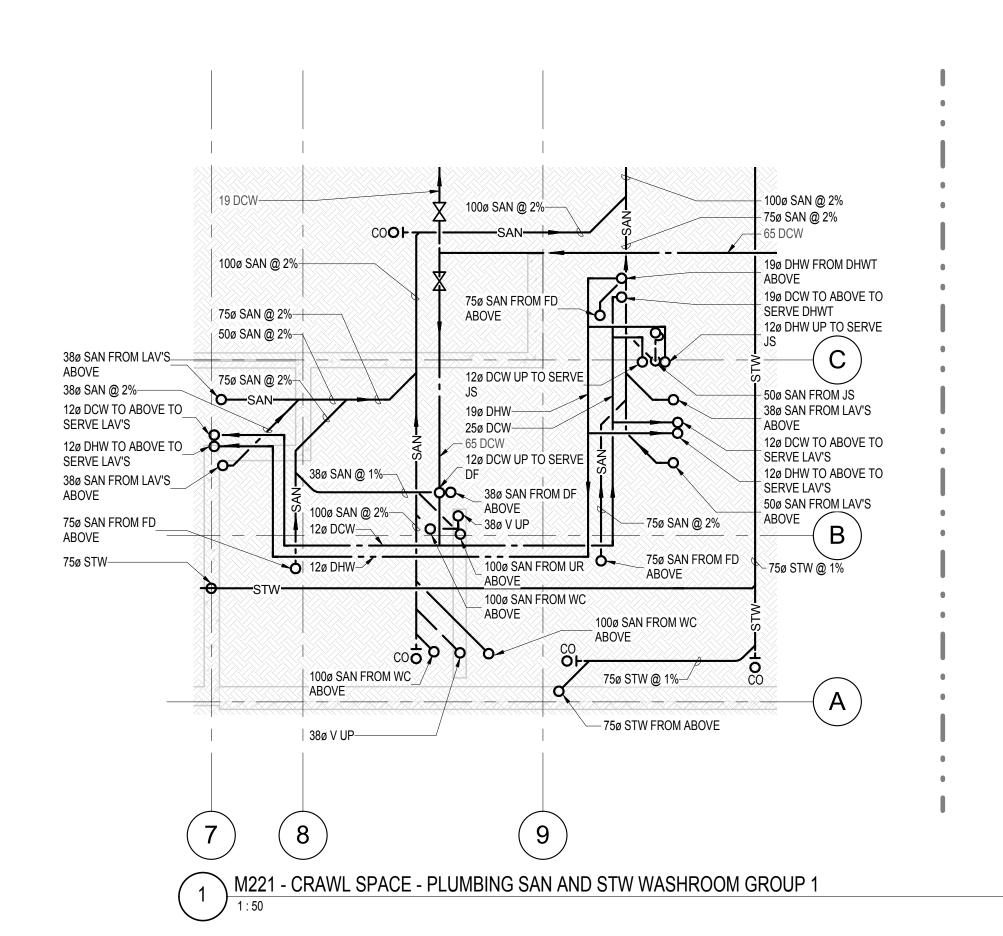
REVISION No.

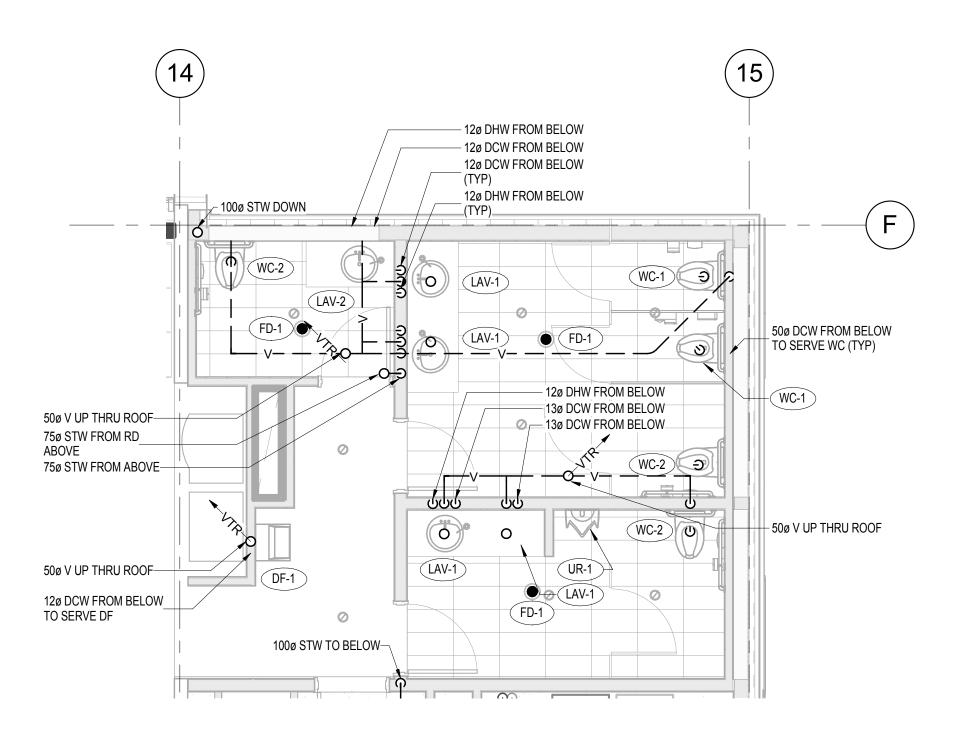
BUFFER TANK SECTION

1:25

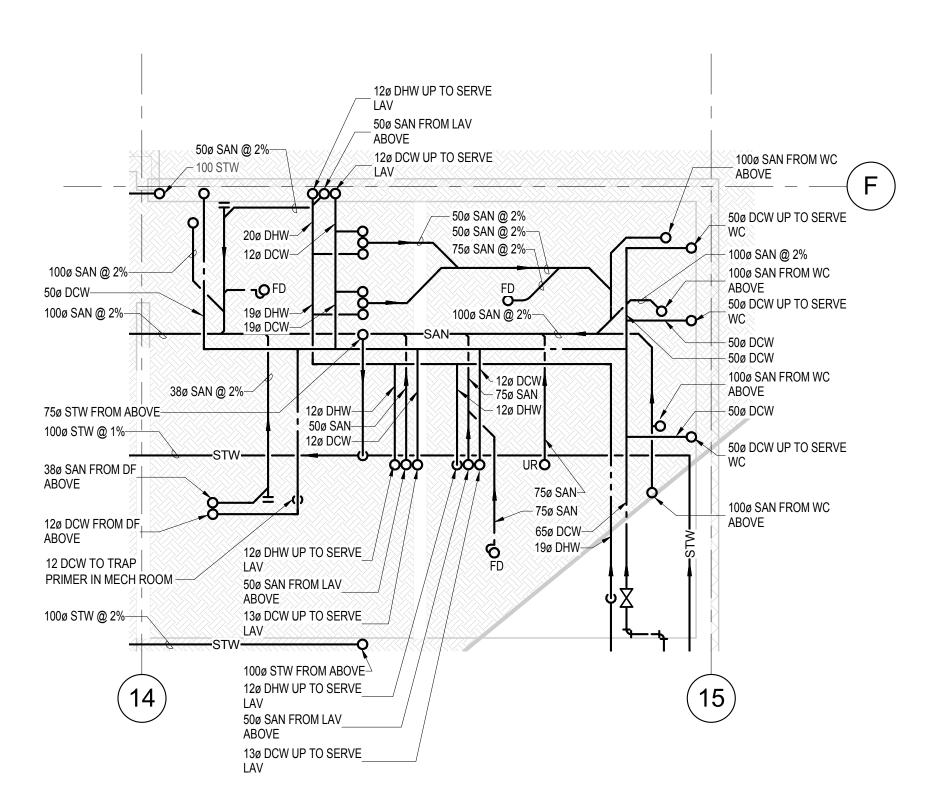


WASHROOM GROUP 1



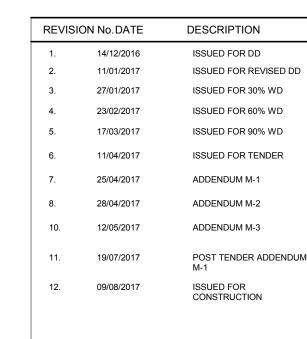


WASHROOM GROUP 2



M221 - CRAWL SPACE - PLUMBING SAN AND STW - WASHROOM GROUP 2

FIXTURE	DCW	DHW	SAN	VENT
LAV-1	12	12	32	32
LAV-2	12	12	32	32
WC-1		-	100	-
WC-2		-	100	-
DF-1	12	DF-1	38	32
UR-1	25	UR-1	-	-
JS-1	12	12	75	-



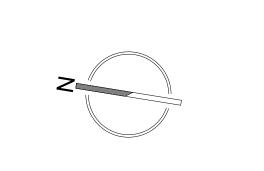
The contractor shall verify and accept responsibility for all dimensions. Do NOT scale the drawing. ALL errors or omissions shall be reported without delay to Moore Wilson Architects Inc.

CONSULTANT

INTEGRAL

CORDINATED

Suite 180 - 200 Granville Street
Vancouver BC Canada V6C 1S4
604.687.1800 Telephone
604.687.1802 Facsimile
E-Mail: info@integralgroup.com
www.integralgroup.com



SEAL

SMITHERS REGIONAL AIRPORT TERMINAL EXPANSION

6421 AIRPORT ROAD SMITHERS, BC V0J 2N2



DRAWN BY DF
CHECKED NB

SCALE As indicated DATE 2017/08/09
FILE NAME

DRAWING TITLE

WASHROOM LAYOUTS

PROJECT

OHEE!

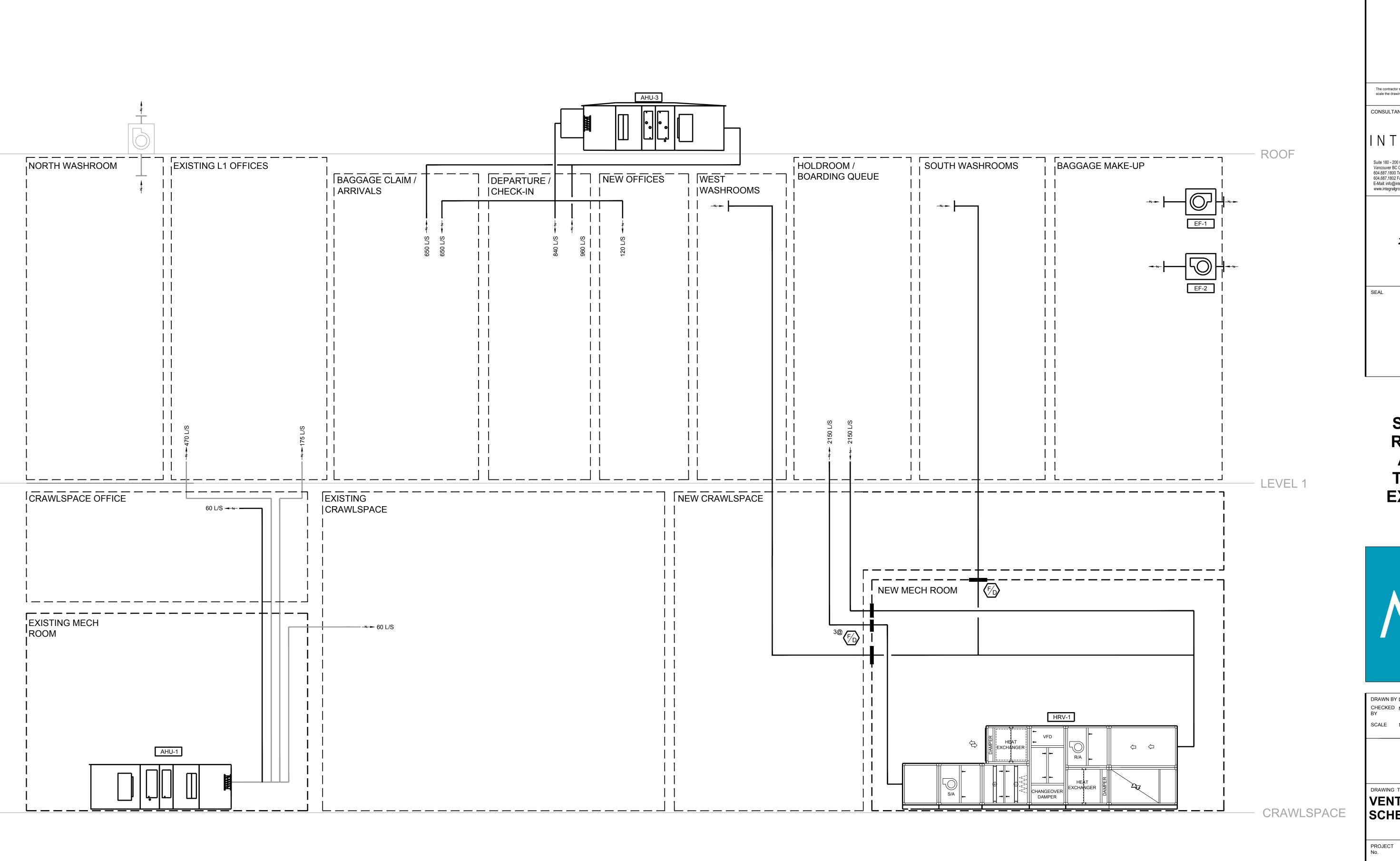
REVISION No.

12.

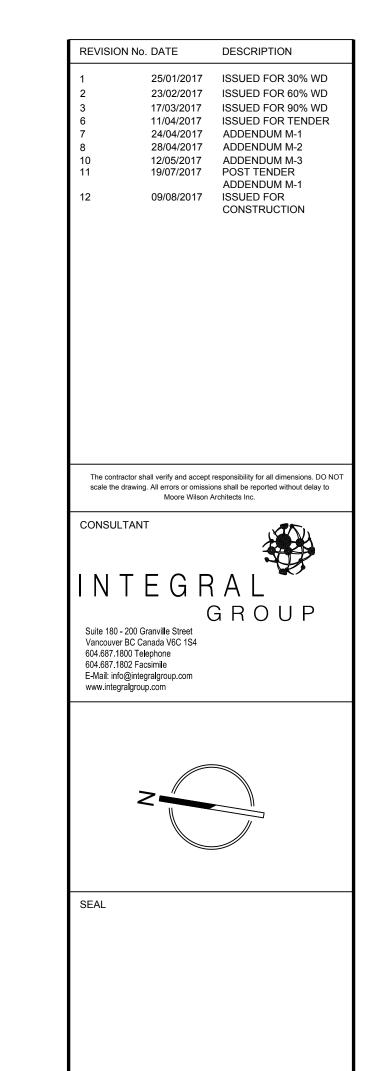
Copyright reserved. This drawing and all copyright therein are the sole and exclusive property of the consultant. Reproduction or use of this drawing in whole

151014.000 M251





VENTILATION SCHEMATIC



SMITHERS REGIONAL AIRPORT TERMINAL EXPANSION



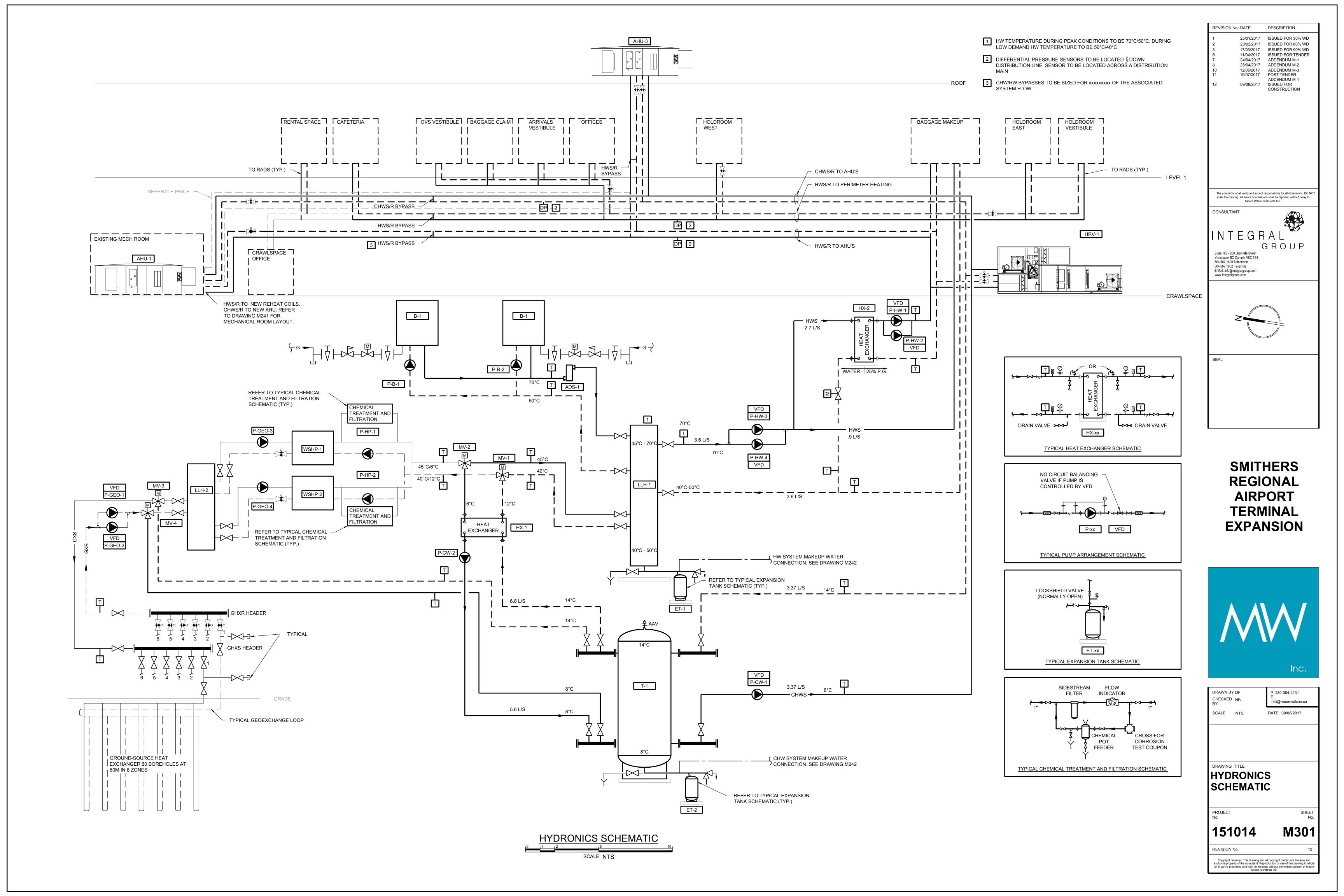
DRAWN BY CHECKED		P. 250-38 E.
BY	115	info@mo
SCALE	NTS	DATE 09
DRAWING	TITLE	
VEN.	TILATIO	NC
20H	EMATI (٠

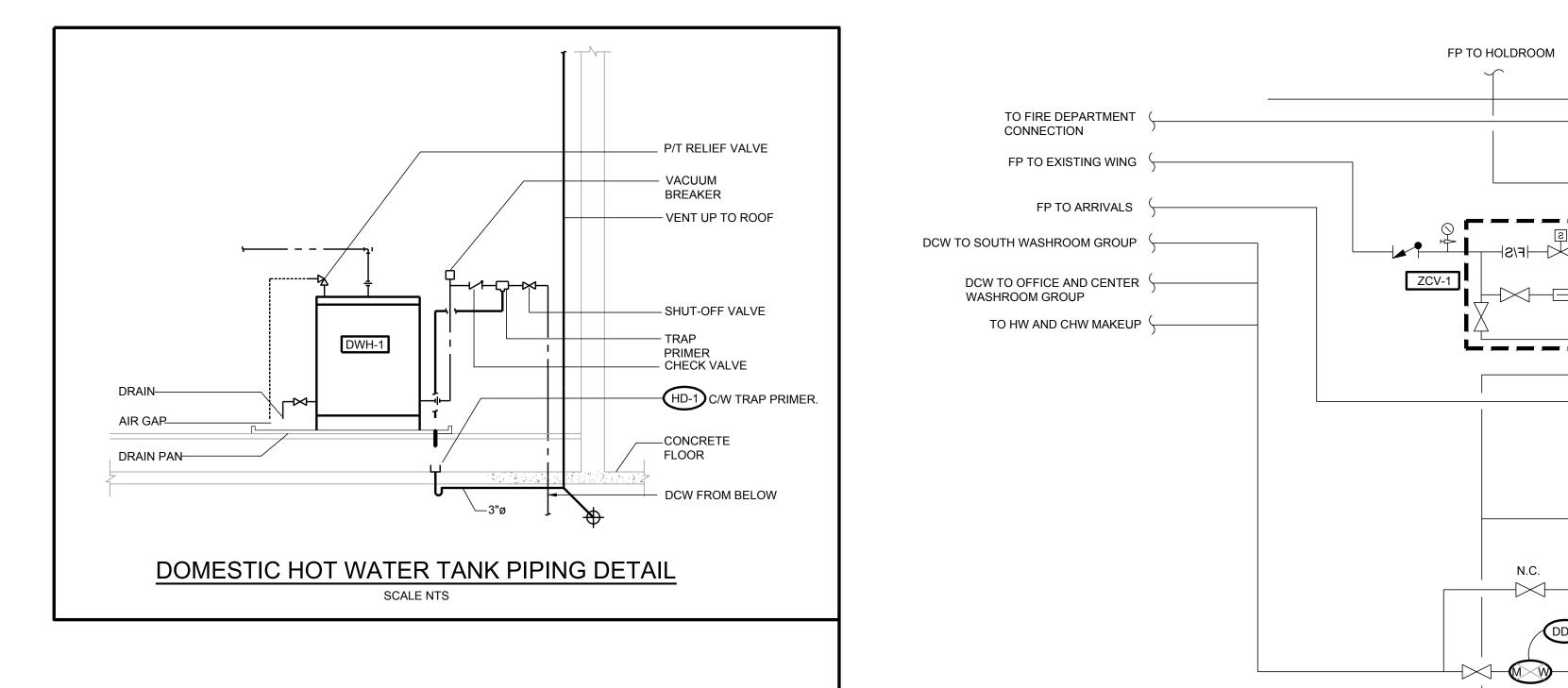
151014

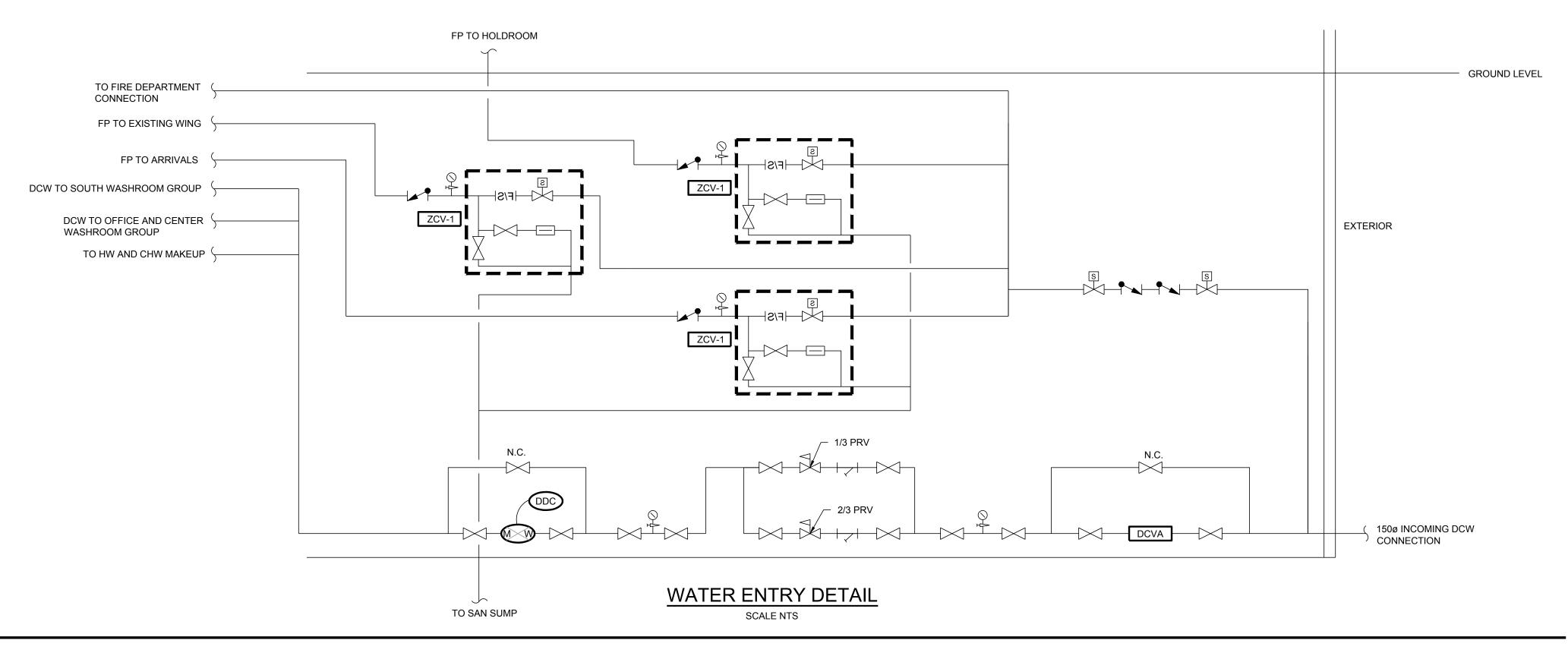
VISION No.

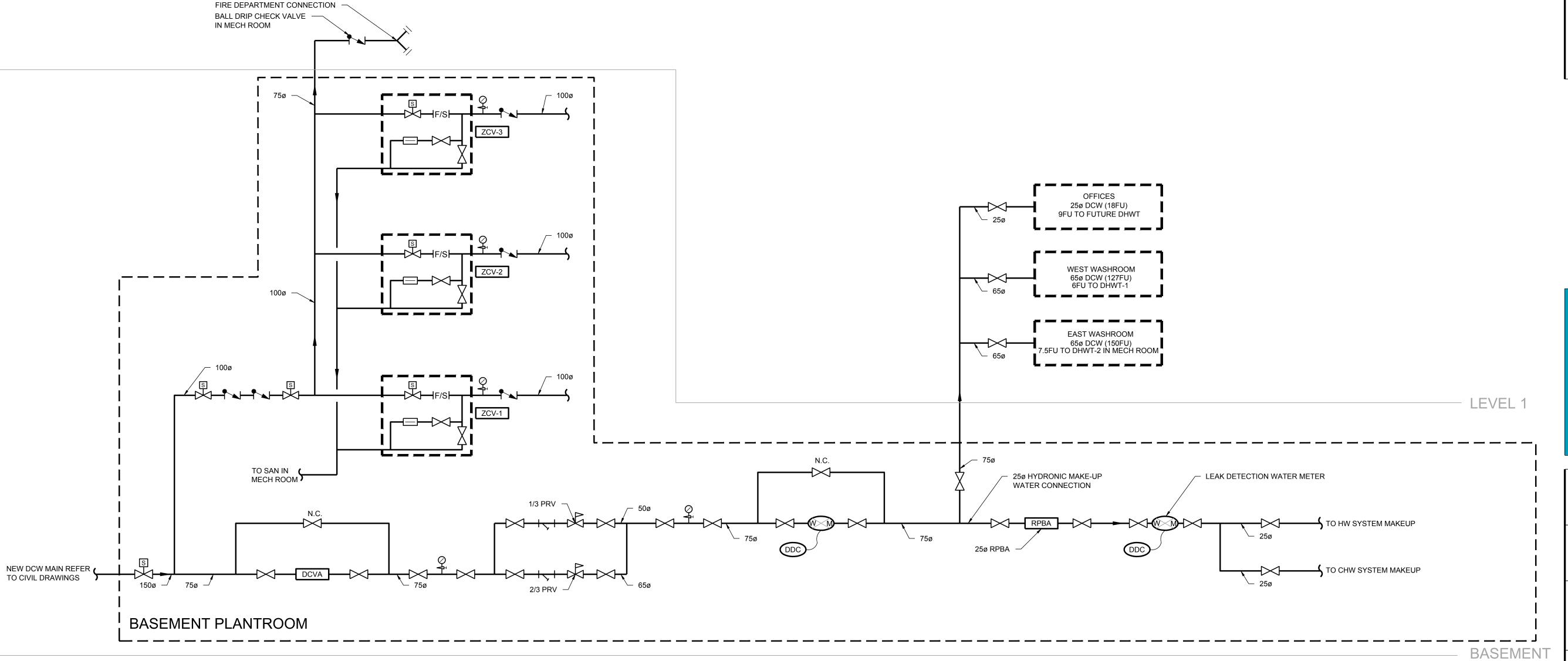
copyright reserved. This drawing and all copyright therein are the sole and usive property of the consultant. Reproduction or use of this drawing in wh part is prohibited and may not be used without the written consent of Moc

M300









SMITHERS REGIONAL AIRPORT TERMINAL EXPANSION

REVISION No. DATE

DESCRIPTION

POST TENDER

ADDENDUM M-1

CONSTRUCTION

25/01/2017 ISSUED FOR 30% WD

23/02/2017 ISSUED FOR 60% WD 17/03/2017 ISSUED FOR 90% WD 11/04/2017 ISSUED FOR TENDER

24/04/2017 ADDENDUM M-1

28/04/2017 ADDENDUM M-2 12/05/2017 ADDENDUM M-3

09/08/2017 ISSUED FOR

The contractor shall verify and accept responsibility for all dimensions. DO NOT scale the drawing. All errors or omissions shall be reported without delay to Moore Wilson Architects Inc.

GROUP

INTEGRAL

Suite 180 - 200 Granville Street Vancouver BC Canada V6C 1S4 604.687.1800 Telephone

604.687.1802 Facsimile E-Mail: info@integralgroup.com www.integralgroup.com

CONSULTANT



DRAWN BY DF
CHECKED NB
BY

SCALE NTS

P. 250-384-2131
E. info@moorewilson.ca

DATE 09/08/2017

FIRE PROTECTION
AND WATER ENTRY
SCHEMATIC

151014 M302

REVISION No.

Copyright reserved. This drawing and all copyright therein

		PLUMBIN			1
SYMBOL	FIXTURE	DESCRIPTION	Material	ACCESSORIES	NOTES/COMMEN TS
WC-1	Toilet	TOTO CT705ELN 'Floor mounted Flushometer Toilet', Toilet, white vitreous china, Floor Mounted, operates in the range of 4.8 L to 6 L (1.28 US Gal to 1.6 US Gal) per flush, elongated bowl.		TOTO CT708EV, heavy duty Toilet Seat, solid plastic with antimicrobial surface, open front less cover. TOTO TET2LA, 'EcoPower', Concealed Flushometer for Top Spud toilet,4.8 L (1.28 US Gal) flush factory set flow.	standard w/c
WC-2	Toilet	TOTO CT705ELN 'Floor mounted Flushometer Toilet', Toilet, white vitreous china, Floor Mounted, operates in the range of 4.8 L to 6 L (1.28 US Gal to 1.6 US Gal) per flush, elongated bowl.		TOTO CT708EV, heavy duty Toilet Seat, solid plastic with antimicrobial and fire retardant surface, open front with cover. TOTO TET2LA, 'EcoPower', Concealed Flushometer for Top Spud toilet,4.8 L (1.28 US Gal) flush factory set flow.	barrier-free w/c
UR-1	Urinal	TOTO UT445U, 'High Efficiency Washout Urinal', Urinal, vitreous china, operates at 0.5 L (0.125 US Gal) per flush Wall Hung.		TOTO TEU2UA 0.125, 'EcoPower', Concealed Flushometer for Top Spud urinal, 0.5 L (0.125 US Gal) factory set flow.	barrier-free urinal
LAV-1	Basin	Elkay ELUH9 'Asana Stainless Steel Single Bowl' Undermount Bathroom Sink Basin, self-rimming - drop-in.		TOTO TEL105 Series, 'EcoPower', Electronic faucet, 1.9 LPM (0.5 GPM) aerator spray outlet. Lawler #TMM-1070, Point Of Use Mechanical Water Mixing Valve, integral checks. McGuire #155WCC, Offset Open Grid Drain. McGuire #LFH170BVRB, polished brass Faucet Supplies. McGuire #8872CBSAN, P-Trap. McGuire #PW2000WC, 'PROWRAP', Sanitary Covering.	barrier-free lavatory
LAV-2	Basin	TOTO LT307 (A) ' commercial wall hung lavatory' wall mounted bathroom sink basin		TOTO TEL105 Series, 'EcoPower', Electronic faucet, 1.9 LPM (0.5 GPM) aerator spray outlet. Lawler #TMM-1070, Point Of Use Mechanical Water Mixing Valve, integral checks. McGuire #8872CBSAN, P-Trap. McGuire #PW2000WC, 'PROWRAP', Sanitary Covering. Jay R. Smith 0700 (Concealed Arms) with 19" arms 0800 (Wall Support Plate).	barrier-free lavatory
LAV-3	Basin	Whitehaus WH1-114R vitreous china wall mounted bathroom sink basin. Single hole faucet driled on the right side. Basin dimensions 19 3/4" W x 9 7/8"D x 5 1/4"H.		Basin, faucet and trap to be supplied as a packaged product. Product to be CSA compliant and available in Canada McGuire #8872CBSAN, P-Trap. McGuire #PW2000WC, 'PROWRAP', Sanitary Covering.	
JS-1	Sink	Stern Williams #MTB-2424, 'MTB series', Service / Mop sink.		Chicago Faucets #897-369VP-XK, Two Handle Manual faucet, wall mounted unrestricted hose end outlet. Stern Williams A-20 Bumper Guard anodized aluminum cap Bumper Guard Size Quantity Description Stern Williams T-35 Hose and Wall Hook hose 36" (914mm) long with 3/4" (19mm) chrome coupling, stainless steel wall bracket. Stern Williams T-40 Mop Hanger stainless steel #4 finish, 24" (610mm) long with 3 rubber spring loaded clips. Stern Williams BP Back Splash Panel 20 gauge type 304 stainless steel. Stern Williams TC-3 Gasket 3" (76mm) for XHCI, plastic and steel pipe. Provide P-Trap.	janitor sink
SK-1	Sink	Franke Commercial #LBS6810/316-1/1, Countertop Mount Sink.		Chicago Faucets #50-ABCP-GN2A-E2805-5-317VP-XK, Two Handle Manual faucet. Lawler #TMM-1070, Point Of Use Mechanical Water Mixing Valve, integral checks. McGuire #LFH170BV, polished brass Faucet Supplies. Provide P-Trap.	G4S lunchroom sink
DF-1	Drinking Fountain	Elkay LMABF8WS 'EZH2O' Bottle Filling Station, .071 l/s (1.1-1.5 GPM)		115V, F.L. AMPS: 4.0, RATED AMPS: 370	Drinking fountair w/ bottle fill station
HB-1	Hose bib	JAY R SMITH 5509QT-NB NON-FREEZE RECESSED WALL HYDRANT CAST NICKEL-BRONZE BOX AND VANDAL-RESISTANT COVER FOR FLUSH INSTALLATION IN EXTERIOR WALL. 1/4-TURN ANTI-SIPHON, AUTOMATIC DRAINING OPERATION. T-KEY FOR OPERATION SHALL INSERT PERPENDICULARLY INTO VALVE STEM. 20ø THREADED HOSE CONNECTION AT 50° WYE ANGLE FROM VERTICAL.		VANDAL-RESISTANT LOCKING COVER, INTEGRAL VACUUM BREAKER ASSEMBLY, ADJUSTABLE WALL CLAMP.	
FD-1	General Floor Drain	Watts FD-103NH-C-A5-1-6-15		125mm (5") nickel bronze strainer with extension, vandal proof	
FD-2	Heavy Duty Floor Drain	Watts FD-103NH-C-5-1-6-15		125mm (5") heavy duty strainer with extension, vandal proof	
RD-1	General Roof Drain	Wats RD-103NH-A-ADJ-BED		Adjustable flow control, sump receiver, adjustable extension, deck clamp	

AIR HANDLING UN Tag No.		AHU-1	AHU-3
MANUFACTURER		TRANE	OLYMPIC
MODEL NUMBER		CSAA003UA	OAH008GDGM
LOCATION		EXISTING MECH ROOM	ROOF
SERVICE		EXISTING OFFICES	DEPARTURES/ARRIVALS
WEIGHT	KG	415	1550
DIMENSIONS (LXHXW)	MM	2200X825X800	4750X8251150X1100
VOLTAGE/PHASE	V/Ph	208/3	575/3
FAN SUPPLY AIR:			
FLOW	L/S	700	1700
EXTERNAL STATIC	PA	185	190
MOTOR	НР	3	5
MIN O/A		200	1010
COOLING COIL:			
SENSIBLE	KW	8.2	26.5
LATENT	KW		
TOTAL	KW	10.5	34
WATER SIDE:			
GLYCOL CONTENT	%	25	25
EWT/LWT	°C	8/14	8/14
FLOW	L/S	0.44	1.4
AIR SIDE:			
EAT [WB/DB]	°C	22/17	24/18.5
LAT [WB/DB]			12.5/12.4
WATER PRESSURE DROP	KPA	6.6	30
AIR PRESSURE DROP	PA	250	112
HEATING COIL:			
TOTAL	KW		81.5
WATER SIDE:			
GLYCOL CONTENT	%		25
EWT/LWT	°C		70/50
FLOW	L/S		1
AIR SIDE:			
EAT/LAT	°C		-5/32
FILTER STAGES		-4" MERV 13 -2" MERV 8	-300mm" MERV 11 -MERV 15 CARBON FILTI
WATER PRESSURE DROP	KPA		28.7
AIR PRESSURE DROP	PA		52
Notes:		COOLING ONLY. FRONT SA DISCHARGE, BOTTOM RA INTAKE, TOP OA INTAKE (REFER TO DRAWINGS). ALL ACCESS PANELS ARE TO BE ON THE LEFT SIDE OF THE UNIT.	EXTERIOR AHU C/W PIPII VESTIBULE & VSD IN NEM 3R ENCLOSURE. BOTTON SA DISCHARGE, BOTTON RA INTAKE, LEFT OA INTAKE, RIGHT RELIEF DISCHARGE (REFER TO DRAWINGS). ALL ACCES PANELS ARE TO BE ON THE LEFT SIDE OF THE UNIT COIL CONNECTIONS AN PIPING ENCLOSURE TO E

AIR CURTAIN SCHEDULE								
Tag No.		AC-1						
Location		BAGGAGE ARRIVALS						
Service		Garage Door						
Door Size (H x W)	mm x mm	3000 x 3800						
Unit Length	mm	2350						
Manufacturer		THERMOSCREENS						
Model		HX2000A						
Air Flow	L/s	820						
Fan Speed	RPM							
Motor per unit	kW							
Voltage / Phase		208/3/60						
Weight	kg	80						
Notes:		c/w control package, door switch, supported with unitstrut bracing below rolling door to be coordianted w/ architecture.						

WATER SOURCE HEAT P	UMP SCHEDULE
TAG NO.	WWHP-1+2
MANUFACTURER	Multistack
MODEL NUMBER	MS20X6
NOMINAL KW	70
LOAD SIDE MEDIUM	WATER
SOURCE SIDE MEDIUM	25% GLYCOL
LOAD SIDE WATER FLOW RATE (L/S)	3.4
CONDENSER WATER FLOR RATE (I/s)	2.57
LOAD SIDE WATER PRESSURE (KPA)	9
SOURCE SIDE WATER PRESSURE (KPA)	92
VOLTAGE/PHASE	575/3
MCA/MOP	36/60
OPERATING WEIGHT (KG)	544 KG
REFRIGERANT TYPE	R410A/R134A
DIMENSION (L/W/H)	1600x1400x1700
COOLING PERFORMANCE	
LOAD ENTERING/LEAVING ºC	10.6ºC/5.6ºC
SOURCE ENTERING/LEAVING ºC	26.7ºC/35ºC
TOTAL CAPACITY (kW)	70kW
EER	14.8
HEATING PERFORMANCE	
HEATING CAPACITY (kW)	70kW
LOAD ENTERING/LEAVING ºC	45°C/40°C
SOURCE ENTERING/LEAVING ºC	5ºC/0ºC
СОР	3.3
ACCESSORIES	

CHW BUFFER TA SCHEDULE	ANK/HEADER
TAG NO.	T-1
MANUFACTURER	TACO
MODEL NO.	5900 FLEXBALANCE PLUS (59025P)
LOCATION	MECHANICAL PLANTROOM
SERVICE	CHILLED WATER (25% PG)
PIPE SIZE	65mm
DIMENSIONS (DIAxH)	340mm X 840MM
OPTIMUM FLOW	3.97 L/s
WEIGHT (KG)	64
MAXIMUM OPERATING PRESSURE (PSI)	861 Kpa (125 PSI)
NOTES	

TAG NO.	B-1, B-2
MANUFACTURER	VIESSMANN
MODEL NO.	VITODENS B2HA-150
LOCATION	MECHANICAL PLANTROOM
SERVICE	HEATING
CAPACITY	
NOMINAL INPUT	150 kW
NOMINAL OUTPUT	145 kW
NOMINAL EFFICIENCY (%)	93%
MINIMUM NATURAL GAS SUPPLY PRESSURE	1 kPA
MAXIMUM NATURAL GAS SUPPLY PRESSURE	3.5 kPA
BURNER MODEL	MODULATING MATRIX CYLINDER BURNER
BURNER MOTOR POWER (HP)	
VOLTAGE/PHASE	120 V/ 1 PHASE
BOILER MODULATION RANGE	33 KW to 155kW (113 to 530 MBH)
WATER FLOW	1.8 L/s
WATER P.D.	28.1 kPa (9.4 ft)
MAX. OPERATING PRESSURE	500 kPa
BOILER CONTROL VOLTAGE/PHASE	120 V / 1 PH
OPERATING WEIGHT (kg)	135 KG
DIMENSIONS (mm)	600 W x 689 D x 1128 H
NOTES & ACCESSORIES	1. ACID NEUTRALISER KIT. 2. 55 PSI PRESSURE RELIEF VALVE 3. ON BOARD DIGITAL CONTROL UNIT.

<u>EXHAUST FAN</u>									
EXHAUST AIR FLOW PE	R FAN			2,500 L/S					
NUMBER OF FANS				1 EXHAUST					
TOTAL EXHAUST FLOW				2,500 L/S					
EXTERNAL STATIC PRE	SSURE			0.5 KPA					
MOTOR (HP)				1 @ 10 BHP					
MOTOR RPM				4000					
FAN RPM				1800					
FILTER TOTAL SOUND POWER			F	ILTER: MERV 8					
COOLING COIL									
AIR FLOW				2,400 L/S					
EAT DB/WB				26°C / 20°C					
LAT DB/WB				18°C/17.3°C					
EWT				6°C					
LWT				11°C					
WATER FLOW				1.18 L/s					
WATER P.D.			1.1	kPa (12.28 ft w.c.)					
AIR P.D.			0.1	1 kPa (0.44" w.c.)					
TOTAL CAPACITY				24.8 kW					
SENSIBLE CAPACITY									
PREHEATING COIL									
AIR FLOW				2400					
EAT DB				-29°C					
LAT				-10°C					
EWT				70°C					
LWT				50°C					
WATER FLOW				0.71					
WATER P.D.				6 KPA					
AIR P.D.				.5 KPA					
TOTAL CAPACITY	LIEATING	(DELIEAT ODERATION AT FUI	L DEC	HON AIDELOWA					
AID I		(REHEAT OPERATION AT FUL	L DES						
	FLOW T DB			2400 -10°C					
	AT	18°C							
	WT	70							
	NT	50							
	R FLOW	1.05							
	ER P.D.	8.7 KPA							
	P.D.	.5 KPA							
TOTAL C	CAPACITY	81.5							
NO	TES	ALL UNITS SHALL USE SING EXHAUST FANS, VFD'S AND BE DIRECT DRIVE C/W VF WATER CONNECTION CO ADDITIONAL REQUIREMENT OF SLAB OPENINGS AND SI RETURN, AND EXHAUST AIR	D CON FD. RE DNFIGI TS AND TE-FA	TROLS. SUPPLY AND EXTER TO DRAWINGS FOR JUDGE TO SECULIAR TO SECUL	XHAUST FANS ARE TO IR AIR OPENING AND SPECIFICATION FOR RDINATE INSTALLATION DR OUTDOOR, SUPPLY				
UNIT HEATER S	SCHEDULE	REHEAT COIL S	SCH	EDULE					
TAG NO	UH-1	Tag No.		RH-1	RH-2				
LOCATION	BAGGAGE MAKEUP	HEATING COIL: TOTAL	KW	27	12				
MANUFACTURER		WATER SIDE:	KVV	27	12				
MODEL	STERLING	GLYCOL CONTENT	%	50	50				
IVIL JI JE I				65/45	65/45				
	C-1180-02	EWT/LWT	°C						
CAPACITY (KW)	C-1180-02 41	FLOW	L/S	0.32	0.14				
CAPACITY (KW)		FLOW AIR SIDE:	L/S	0.32	0.14				
CAPACITY (KW) AIR FLOW (L/s) ENTERING AIR TEMP.	41	FLOW AIR SIDE: EAT/LAT		•	·				
CAPACITY (KW) AIR FLOW (L/s) ENTERING AIR TEMP.	41	FLOW AIR SIDE: EAT/LAT FILTER STAGES	L/S °C	0.32 -29ºC/18ºC	0.14 -29ºC/18ºC				
CAPACITY (KW) AIR FLOW (L/s) ENTERING AIR TEMP. (°C) LEAVING AIR TEMP.	41 110	FLOW AIR SIDE: EAT/LAT FILTER STAGES MAX WATER PRESSURE DROP	L/S	0.32	0.14				
CAPACITY (KW) AIR FLOW (L/s) ENTERING AIR TEMP. (°C) LEAVING AIR TEMP.	41 110	FLOW AIR SIDE: EAT/LAT FILTER STAGES MAX WATER PRESSURE DROP MAX AIR PRESSURE	L/S °C	0.32 -29ºC/18ºC	0.14 -29ºC/18ºC				
CAPACITY (KW) AIR FLOW (L/s) ENTERING AIR TEMP. (°C) LEAVING AIR TEMP. (°C)	41 110 -24	FLOW AIR SIDE: EAT/LAT FILTER STAGES MAX WATER PRESSURE DROP MAX AIR PRESSURE DROP	°C KPA	0.32 -29ºC/18ºC 30	0.14 -29ºC/18ºC 30				
CAPACITY (KW) AIR FLOW (L/s) ENTERING AIR TEMP. (°C) LEAVING AIR TEMP. (°C)	41 110 -24	FLOW AIR SIDE: EAT/LAT FILTER STAGES MAX WATER PRESSURE DROP MAX AIR PRESSURE	°C KPA	0.32 -29ºC/18ºC 30	0.14 -29ºC/18ºC 30				
CAPACITY (KW) AIR FLOW (L/s) ENTERING AIR TEMP. (°C) LEAVING AIR TEMP. (°C) WATER FLOW (L/min) ENTERING WATER	41 110 -24 10	FLOW AIR SIDE: EAT/LAT FILTER STAGES MAX WATER PRESSURE DROP MAX AIR PRESSURE DROP	°C KPA	0.32 -29ºC/18ºC 30	0.14 -29ºC/18ºC 30				
CAPACITY (KW) AIR FLOW (L/s) ENTERING AIR TEMP. (°C) LEAVING AIR TEMP. (°C) WATER FLOW (L/min) ENTERING WATER	41 110 -24 10 6.4	FLOW AIR SIDE: EAT/LAT FILTER STAGES MAX WATER PRESSURE DROP MAX AIR PRESSURE DROP	°C KPA	0.32 -29ºC/18ºC 30	0.14 -29ºC/18ºC 30				
CAPACITY (KW) AIR FLOW (L/s) ENTERING AIR TEMP. (°C) LEAVING AIR TEMP. (°C) WATER FLOW (L/min) ENTERING WATER TEMPERATURE (°C)	41 110 -24 10	FLOW AIR SIDE: EAT/LAT FILTER STAGES MAX WATER PRESSURE DROP MAX AIR PRESSURE DROP	°C KPA	0.32 -29ºC/18ºC 30	0.14 -29ºC/18ºC 30				
CAPACITY (KW) AIR FLOW (L/s) ENTERING AIR TEMP. (°C) LEAVING AIR TEMP. (°C) WATER FLOW (L/min) ENTERING WATER TEMPERATURE (°C)	41 110 -24 10 6.4	FLOW AIR SIDE: EAT/LAT FILTER STAGES MAX WATER PRESSURE DROP MAX AIR PRESSURE DROP	°C KPA	0.32 -29ºC/18ºC 30	0.14 -29ºC/18ºC 30				
CAPACITY (KW) AIR FLOW (L/s) ENTERING AIR TEMP. (°C) LEAVING AIR TEMP. (°C) WATER FLOW (L/min) ENTERING WATER TEMPERATURE (°C)	41 110 -24 10 6.4	FLOW AIR SIDE: EAT/LAT FILTER STAGES MAX WATER PRESSURE DROP MAX AIR PRESSURE DROP	°C KPA	0.32 -29ºC/18ºC 30	0.14 -29ºC/18ºC 30				

WEIGHT (Kg)

ACCESSORIES

-HIGH CAPACITY COIL

HEAT RECOVERY VENTILATOR SCHEDULE

COOLING/DEHUMIDIFICATION COIL

HRV-1

TRANE

CLIMATE CHANGER

MECHANICAL PLANTROOM

BOARDING LOUNGE & PBS

5000 x 1540 x 1990

575 V / 3 PH

MIN 71.5%

MIN 70.5%

2,500 L/S

1 x SUPPLY 2,500 L/S

0.5 KPA

1 @ 10 BHP

RH-3

50

65/45

0.04

-29ºC/18ºC

50

FILTER: MERV 15

CUSTOM INDOOR PACKAGED AIR HANDLING UNIT WITH HEAT WHEEL-TYPE

AIR-TO-AIR HEAT RECOVERY, HEATING/REHEAT COIL, AND

FILTER: MERV 11 FINAL: CARBON FILTER

TAG NO.

MODEL

MANUFACTURER

DESCRIPTION

VOLTAGE/PHASE

AIR FLOW PER FAN

NUMBER OF FANS

TOTAL AIR FLOW

TOTAL SOUND POWER

MOTOR (HP)

MOTOR RPM

EXHAUST FAN

FAN RPM FILTER

MAX OVERALL DIMENSIONS (MM)

EFFECTIVENESS [SUMMER] (%)

EXTERNAL STATIC PRESSURE

HEAT RECOVERY TOTAL TEMPERATURE EFFECTIVENESS [WINTER] (%) HEAT RECOVERY TOTAL TEMPERATURE

LOCATION

MCA/MOP

WEIGHT SUPPLY FAN

SERVICE

i			
	REVISION No.	DATE	DESCRIPTION
	1	25/01/2017	ISSUED FOR 30% WD
	2	23/02/2017	ISSUED FOR 60% WD
	3 6	17/03/2017 11/04/2017	ISSUED FOR 90% WD ISSUED FOR TENDER
	7	24/04/2017	ADDENDUM M-1
	8 10	28/04/2017 12/05/2017	ADDENDUM M-2 ADDENDUM M-3
	11	19/07/2017	POST TENDER ADDENDUM M-1
	12	09/08/2017	ISSUED FOR
			CONSTRUCTION
			sponsibility for all dimensions. DO NOT
	scale the drawing.	All errors or omission Moore Wilson Are	s shall be reported without delay to chitects Inc.
	CONSULTANT		
	CONSULTANT		y Du
	 	- C D	Λ I
	I N T E	- G R	AL
		G	ROUP
	Suite 180 - 200 Gr Vancouver BC Car		
	604.687.1800 Tele	phone	
	604.687.1802 Face E-Mail: info@integ	algroup.com	
	www.integralgroup	.com	
	2		
	2		
	2		
	2		
	Z		
	SFAI		
	SEAL		
		MITL	IFRS
		MITH	HERS
	S		
	S R	EGIC	DNAL
	S R	EGIC	DNAL
	S R	EGIC VIRP	ONAL ORT
	S R	EGIC VIRP	ONAL ORT
	S R H T	EGIO AIRP ERM	ONAL ORT INAL
	S R H T	EGIO AIRP ERM	ONAL ORT INAL
	S R H T	EGIO AIRP ERM	ONAL ORT
	S R H T	EGIO AIRP ERM	ONAL ORT INAL
	S R H T	EGIO AIRP ERM	ONAL ORT INAL
	S R H T	EGIO AIRP ERM	ONAL ORT INAL





		Inc.
DRAWN BY	DF	P. 250-384-2131
CHECKED BY	NB	E. info@moorewilson.ca
SCALE	NTS	DATE 09/08/2017

DRAWING TITLE EQUIPMENT SCHEDULE

PROJECT 151014

M400

Copyright reserved. This drawing and all copyright therein are the sole and exclusive property of the consultant. Reproduction or use of this drawing in whole or in part is prohibited and may not be used without the written consent of Moore Wilson Architects Inc.

REVISION No.

EQUIPMENT SCHEDULE

BOILER SCHEDULE

PERIMETER RAD	ATION SCHEDULE							
Tag No.	RAD-1	RAD-2	RAD-3	RAD-4	RAD-5	RAD-6	RAD-7	RAD-8
Location	Holdroom	Holdroom	Various	Various	Boarding Vestibule	Arrivals Hall	Holdroom	Café
Manufacturer	Jaga	Jaga	Jaga	Jaga	Jaga	Jaga	Jaga	Jaga
Model	Strada	Strada	Strada	Strada	tempo Freestand	Strada	Build in Wall	Strada
Mounting	Wall Mounted	Wall Mounted	Wall Mounted	Wall Mounted	Floor Mounted	Wall Mounted	In Wall	Wall Mounted
Heat Output (kW)	2.8	2	2	1	1.3	4	1.3	2.3
Flow Rate (L/s)	0.034	0.024	0.024	0.012	0.016	0.047	0.016	0.044
Pressure Drop (kPa)								
Fluid Medium	Water	Water	Water	Water	Water	Water	Water	Water
EWT (°C)	70	70	70	70	70	70	70	70
LWT (°C)	50	50	50	50	50	50	50	50
Length (mm)	1975	1375	2750	1375	1775	2750	3050	2750
Width (mm)	165	165	83	83	125	165	350	165
Height (mm)	490	490	490	490	400	490	140	490
Weight (kg)								
Notes:	C/W manufacturer produced continuous joiners trim to conceal pipework/valving	C/W manufacturer produced continuous joiners trim to conceal pipework/valving	C/W manufacturer produced end caps trim to conceal pipework/valving	C/W manufacturer produced continuous joiners or end caps trim to conceal pipework/valving	C/W manufacturer produced end caps trim to conceal pipework/valving			C/W manufacturer produced continuous joiners, end cap trim and empty casing sections to conceal pipework/valving

TAG NO.	S-1	S-2	S-3	S-4	S-5	E-1	E-2	E-3	R-1	R-2	L-1
MANUFACTURER		EH PRICE	TROX	EH PRICE	EH PRICE	EH PRICE	EH PRICE	EH PRICE	EH PRICE	EH PRICE	GREENHECK
TYPE		SPD SERIES	QL-WH-RO-0	RCG SERIES	LFG SERIES	80	80	SPD SERIES	80	80	ESK-402RM SERIES
FINISH		WHITE POWDER COAT - B12	CLEAR ANNODIZED ALUMINUM	WHITE POWDER COAT - B12	CLEAR ANNODIZED ALUMINUM	WHITE POWDER COAT - B12	CLEAR ANNODIZED ALUMINUM	WHITE POWDER COAT - B12	WHITE POWDER COAT - B12	WHITE POWDER COAT - B12	WHITE POWDER COAT
DESCRIPTION	EXISTING IN FLOOR SUPPLY	CEILING DIFFUSER SUPPLY	SEMI-CIRCLE DISPLACEMENT SUPPLY	SIDEWALL SUPPLY	IN FLOOR SUPPLY	EGGCRATE FACE EXHAUST	EGGCRATE FACE EXHAUST	CEILING DIFFUSER EXHAUST	EGGCRATE FACE RETURN	EGGCRATE FACE RETURN	RECESSED MULLION LOUVER (300X900)
FRAMING/MOUNTING		DRYWALL / DUCT	WALL MOUNTED	WALL MOUNTED	FLOOR MOUNTED	CEILING MOUNTED	WALL MOUNTED	DRYWALL / DUCT	WALL MOUNTED	CEILING MOUNTED	WALL MOUNTED
NOTE											

		DU	CT WALL MOU	JNTED	MOUNTED	MOUNTED		DUCT		MOUNTED				1		OSED E CLOSED OP LOOP	
NOTE																TEMS. SYSTEMS.	
														I		I	
PUMP SCHEDU	ULE																
Гад No.		P-B-1	P-B-2	P-HW-1	P-HW-2	P-HW-3	P-HW-4	P-CW-1	P-CW-2	P-HP-1	P-HP-2	P-GEO-1	P-GEO-2	P-GEO-3	P-GEO-4	P-S-1	P-S-2
_ocation		BASEMENT MECH ROOM	BASEMENT MECH ROOM	BASEMENT MECH ROOM	BASEMENT MECH ROOM	BASEMENT MECH ROOM	BASEMENT MECH ROOM	BASEMENT MECH ROOM	BASEMENT MECH ROOM	BASEMENT MECH ROOM	BASEMENT MECH ROOM	BASEMENT MECH ROOM	BASEMENT MECH ROOM	BASEMENT MECH ROOM	BASEMENT MEC ROOM	H BASEMENT MECH ROOM	BASEMENT MECH ROOM
Service		BOILER HEATING CIRCULATION	BOILER HEATING CIRCULATION	AHU/HRV HEATING WATER RECIRCULATION	AHU/HRV HEATING WATER RECIRCULATION	HEATING WATER CIRCULATION (DUTY)	HEATING WATER CIRCULATION (STANDBY)	AHU/HRV CHILLED WATER RECIRCULATION	COOLING SIDE HEAT EXCHANGER CIRCULATION	HEAT PUMP CIRCULATION	HEAT PUMP CIRCULATION	GEO-EXCHANGE CIRCULATION (DUTY)	GEO-EXCHANGE CIRCULATION (STANDBY)	HEAT PUMP #1 CIRCULATION	HEAT PUMP #2 CIRCULATION	MECH ROOM SUMP PUMP	MECH ROOM SUMP PUMP
Manufacturer		ARMSTRONG	ARMSTRONG	ARMSTRONG	ARMSTRONG	ARMSTRONG	ARMSTRONG	ARMSTRONG	ARMSTRONG	ARMSTRONG	ARMSTRONG	ARMSTRONG	ARMSTRONG	ARMSTRONG	ARMSTRONG	ZOELLER	ZOELLER
Model		E8.2 182202-657	E8.2 182202-657	4380 1508-001.5	4380 1508-001.5	4380 0206-001.0	4380 0206-001.0	4380 0206-001.5	4380-2X2X6-1 HP	E22.2 CI 120v	E22.2 CI 120v	4300-0206-0070.5	4300-0206-0070.5	E19.2 ci 120V	E19.2 ci 120V	N-264	N-264
Style		CIRCULATOR	CIRCULATOR	CIRCULATOR	CIRCULATOR	CIRCULATOR	CIRCULATOR	CIRCULATOR	CIRCULATOR	CIRCULATOR	CIRCULATOR	CIRCULATOR	CIRCULATOR	CIRCULATOR	CIRCULATOR	SUMP PUMP	SUMP PUMP
Min. Pump Efficiency	%																
Pump Capacity																	
Operation Flow	L/S	1.8	1.8	2.7	2.7	3.6	3.6	3.4	5.6	2.8	2.8	9.0	9.0	2.6	2.6	3.8	3.8
Operation Head	kPa	28.0	28.0	140.0	140.0	75.0	75.0	102.0	69.0	90.0	90.0	250.0	250.0	55.0	55.0	30.0	30.0
Medium		WATER	WATER	25% GLYCOL	25% GLYCOL	WATER	WATER	25% GLYCOL	25% GLYCOL	WATER	WATER	25% GLYCOL	25% GLYCOL	25% GLYCOL	25% GLYCOL	WASTE WATER	WASTE WATER
Pump Housing																	
Motor																	
Power	HP	1/6	1/6	1.5	1.5	1	1	1.5	1	.4	.4	7.5	7.5	0.4	0.4	0.4	0.4
Speed	RPM	3400	3400	1600	1600	1650	1650	1615	1760	3350	3350	3150	3150	3400	3400	1725	1725
Drive Control		CONSTANT SPEED	CONSTANT SPEED	VFD	VFD	VFD	VFD	VFD	CONSTANT SPEED	CONSTANT SPEED	CONSTANT SPEED	VFD	VFD	CONSTANT SPEED	CONSTANT SPEE	D CONSTANT SPEED	CONSTANT SPEED
Motor Efficiency	%																
Voltage / Phase		120/1	120/1	575/3	575/3	575/3	575/3	575/3	575/3	115/1	115/1	575/3	575/3	115/1	115/1	115/1	115/1
Dimensions																	
LxWxH	mm	164x107x180	164x107x180	506x461x690	506x461x690	505x432x696	505x432x696	381x274x562	381x274x562	216x107x261	216x107x261			216x107x261	216x107x261	334x288x375	334x288x375
Weight	kg	6	6	110	110	96	96	87	78	11	11	80	80	11	11	18	18
Suction Size	mm			38	38	50	50	50	50	38	38	50	50	38	38	50	50
Discharge Size	mm			38	38	50	50	50	50	38	38	50	50	38	38	50	50
Impeller Size	mm			205	205	140	140	144	137	78	78	133	133	78	78		
Operation				PARALLEL	PARALLEL	PARALLEL	PARALLEL					PARALLEL	PARALLEL				
Notes		PREMIUM EFFICIENCY MOTORS	PREMIUM EFFICIENCY MOTORS	PREMIUM EFFICIENCY MOTORS	PREMIUM EFFICIENCY MOTORS	PREMIUM EFFICIENCY MOTORS	PREMIUM EFFICIENCY MOTORS	PREMIUM EFFICIENCY MOTORS	PREMIUM EFFICIENCY MOTORS	PREMIUM EFFICIENCY MOTORS	PREMIUM EFFICIENCY MOTORS	PREMIUM EFFICIENCY MOTORS	PREMIUM EFFICIENCY MOTORS	PREMIUM EFFICIENCY MOTORS	PREMIUM EFFICIENCY MOTORS	PREMIUM EFFICIENCY MOTORS	PREMIUM EFFICIENCY MOTORS

HYDRONIC DUCT HEATER					
TAG NO.	DH-1				
MANUFACTURER	TRANE				
MODEL	DP2B12				
LOCATION	CEILING				
SERVICE	BAGGAGE MAKEUP				
AIR FLOW (L/S)	310				
EWT (°C)	70				
LWT (°C)	50				
CAPACITY (KW)	12.6				
NOTES					

EXPANSION TANK SCHEDULE SCHEDULE							
TAG NO.	ET-1	ET-2	ET-3				
LOCATION	MECH ROOM	MECH ROOM	MECH ROOM				
SERVICE	HEATING WATER	CHILLED WATER	HEATING WATER				
MANUFACTURER	AMTROL	AMTROL	AMTROL				
MODEL	AX-40V	AX-80V	AX-40V				
ACCEPTANCE VOLUME (L)	42	85	42				
TANK VOLUME (L)	83	168	83				
DIMENSIONS (øxh)(mm)	405mm D X 760mm H	600mm D X 740mm H	405mm D X 760mm H				
MAXIMUM OPERATING PRESSURE (kPa)	861	1034	861				
SHIPPING WEIGHT (KG)	34	70	34				
NOTES	ASME RATED TANK. NONPOTABL E CLOSED LOOP SYSTEMS.	ASME RATED TANK. NONPOTABL E CLOSED LOOP SYSTEMS.	ASME RATED TANK. NONPOTABL E CLOSED LOOP SYSTEMS.				

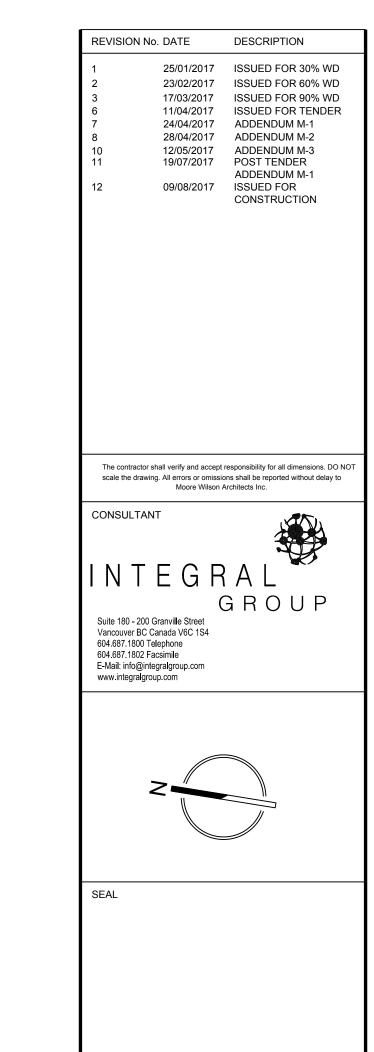
SPRINKLER HEAD FINISH SCHEDULE						
AREA	DESCRIPTION					
FIRST FLOOR - PAINTED GWB	CONCEALED PENDANT, WHITE					
FIRST FLOOR - STAINED CLT	CONCEALED PENDANT, CUSTOM COLOUR CONFIRMED BY ARCH					
FIRST FLOOR - 2' X 2' CEILING GRID	CONCEALED PENDANT, WHITE					
FIRST FLOOR - 2' X 4' CEILING GRID	CONCEALED PENDANT, WHITE					
CRAWLSPACE - EXPOSED	CONCEALED PENDANT, WHITE					
BASEMENT - EXPOSED CONCRETE	BRASS, UPRIGHT, WIRE GUARD					

VAV BOX SCHEDULE								
TAG NO.	VAV-1.1	VAV-1.2	VAV-1.3	VAV-1.4 EH PRICE				
MANUFACTURER	EH PRICE	EH PRICE	EH PRICE					
DESCRIPTION	SDV5	SDV5	SDV5	SDV5				
SERVICE	ARRIVALS/DEP ARTURES	SMALL OFFICES	LARGE OFFICE	LEASE SPACE / LOUNGE				
SIZE	12	5	5	12				
MAX L/S	1000	65	65	700				
MIN L/S	700	20	20	270				
POWER (KW)	-	-	-	-				
NOTE								

FAN SCHEDUL	E				
TAG NO.	EF-1	EF-2	SF-1 GREENHECK		
MANUFACTURER	GREENHECK	GREENHECK			
MODEL	SQ-95-G-VG	BSQ 140	SQ-95-D-VG		
LOCATION	BAGGAGE HANDLING ROOM	ELECTRICAL ROOM COOLING	BAGGAGE HANDLING ROOM		
SERVICE	EXHAUST	EXHAUST	SUPPLY		
CAPACITY (L/S)	460	1500	460		
STATIC PRESSURE (PA)	75	250	125		
FAN RPM (RPM)	1300	1709	1725		
MOTOR POWER (WATT)	1/4	1	1/4		
VOLTAGE/PHASE	120/1	120/1	120/1		
SONES/Dba	6.4	23	9.8		
WEIGHT (KG)	19	51	19		
CONTROL	0-10 VDC	0-10 VDC	0-10 VDC		
NOTES	- ISOLATION KIT	- ISOLATION KIT	- ISOLATION KIT		

TAG NO.	HX-1	HX-2		
SERVICE	CHILLED WATER	HEATING WATER		
MAXIMUM PRESSURE DROP (KPA)	35	35		
MAXIMUM WORKING PRESSURE (KPA)	860	860		
CAPACITY (KW)	158	276		
SOURCE SIDE:				
FLUID	WATER	WATER		
EWT (°C)	6	70		
LWT (°C)	12	50		
FLOW RATE	6.3	3.3		
LOAD SIDE:				
FLUID	25% PROPYLENE GLYCOL	50% PROPYLENE GLYCO		
EWT (°C)	14	45		
LWT (°C)	8	65		
FLOW RATE	6.7	3.3		

Tag No.		DHWT-1	DHWT-2		
Location		Janitor Closet	Mech Room		
Service		Mid Washroom Group + Janitor Closet	South Washroom Group		
Туре		Electric	Electric		
Manufacturer		Bradford white	Bradford white		
Model		LD-50L3-3	LD-20L3-3		
Power	V/Ph	208/1	208/1		
Size (Dia x height)	mm	600øx794	457øx632		
Total Capacity	kW	5	5		
Tank Volume	L	178	72		
Recovery	LPh	68	68		
EWT	°C	4	4		
LWT	°C	60	60		



SMITHERS REGIONAL AIRPORT TERMINAL EXPANSION

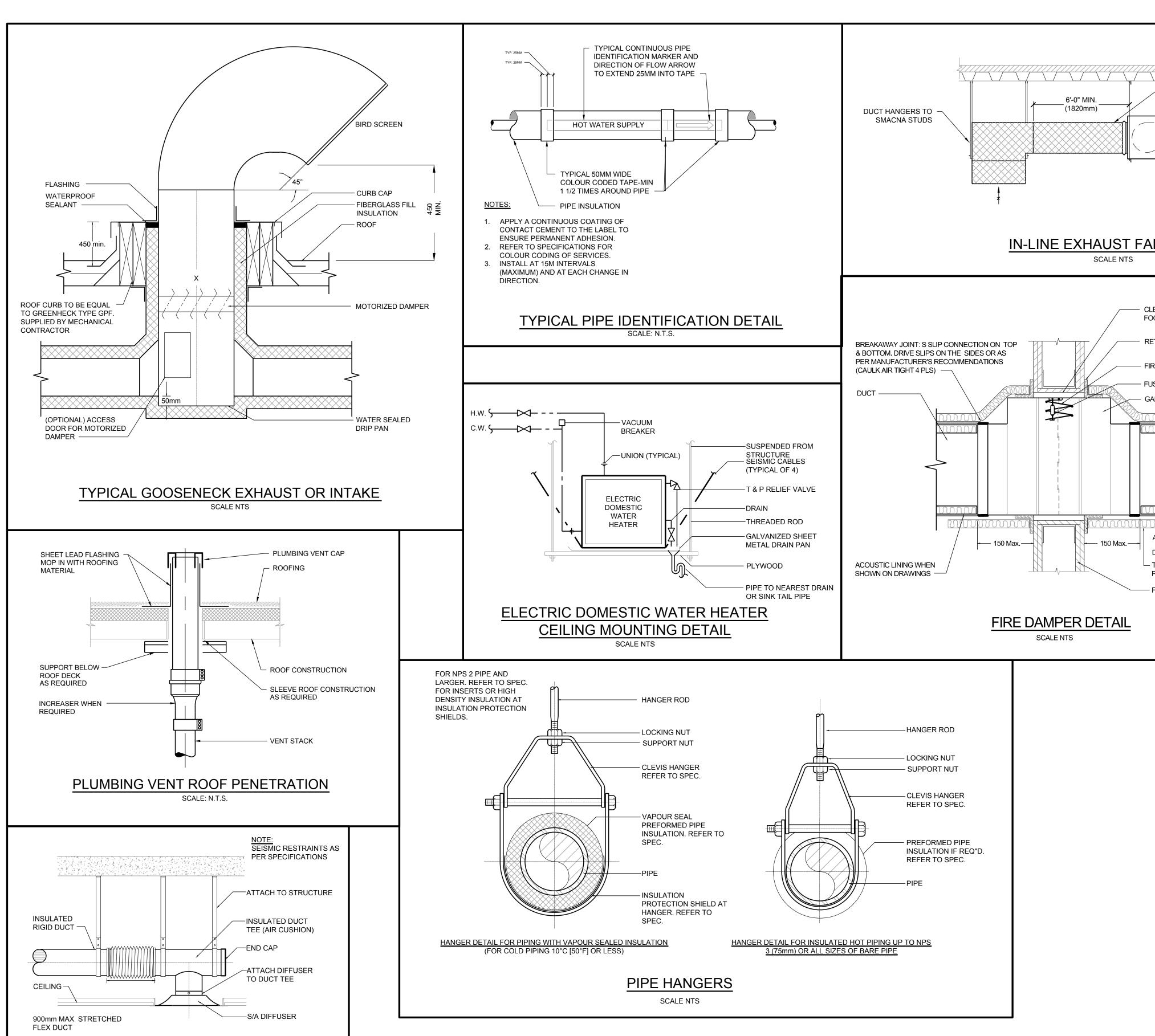


DRAWN BY		P. 250-384 E.
BY SCALE		info@moor
_		
DRAWING	TITLE	
-	IPMEN	
SCH	EDULE	

151014

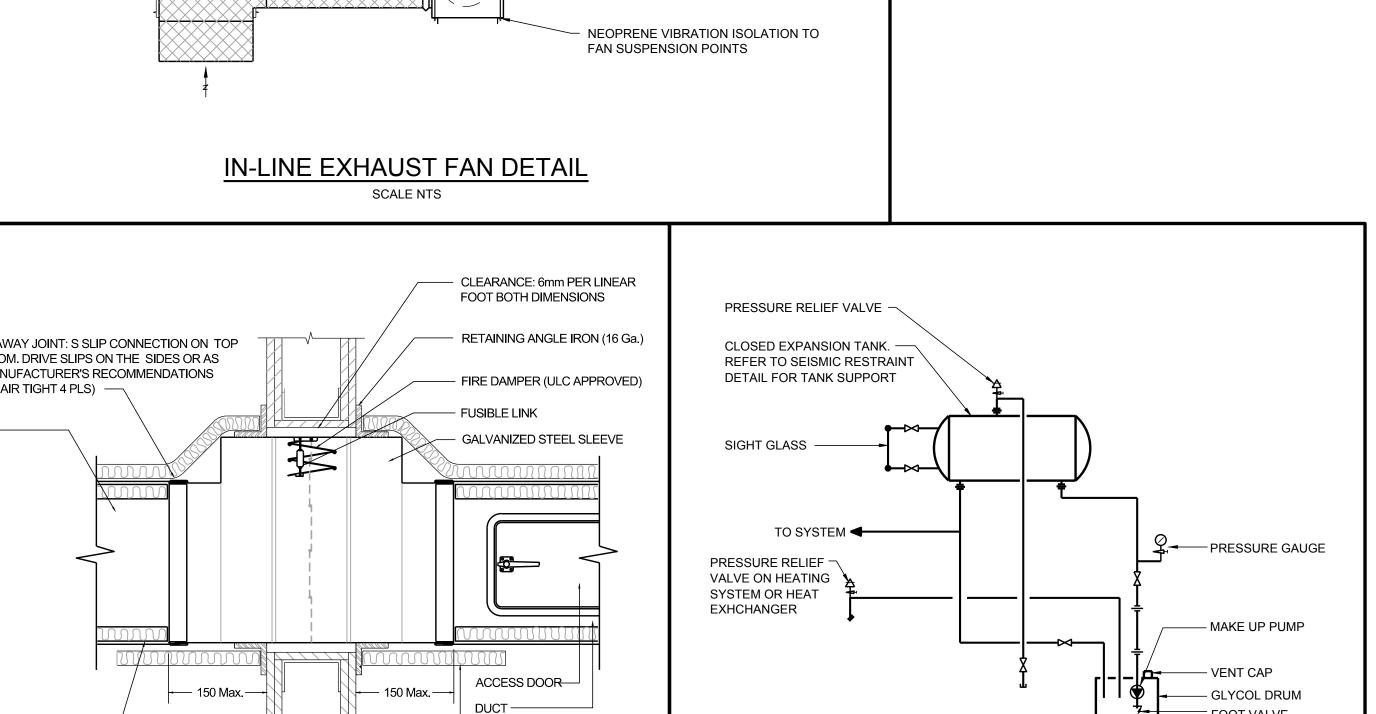
M401

EQUIPMENT SCHEDULE
SCALE: NTS



SUPPLY AIR DIFFUSER

(SQUARE PLAQUE)
SCALE NTS



- THERMAL INSULATION AS

PER SPECIFICATION

- ACOUSTICALLY LINED INTAKE DUCT

1"(25mm) THICKNESS -3LB DENSITY SIZE

AND CONFIGURATION AS PER PLANS

- IN-LINE EXHAUST FAN C/W VIBRATION ISOLATION AND SLACK CABLE SEISMIC

FAN DISCHARGE TO CEILING SPACE OR

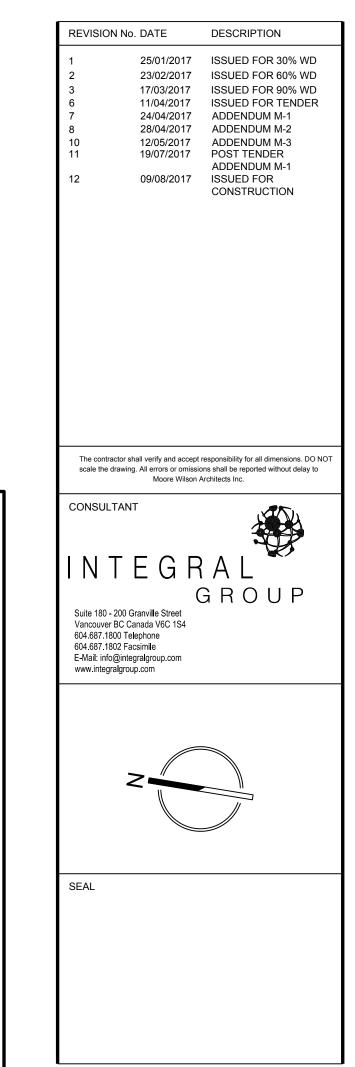
RESTRAINTS

TO DUCT AS PER PLANS

6'-0" MIN.

SCALE NTS

(1820mm)



SMITHERS REGIONAL AIRPORT TERMINAL EXPANSION

FOOT VALVE

FLOOR

GLYCOL SYSTEM

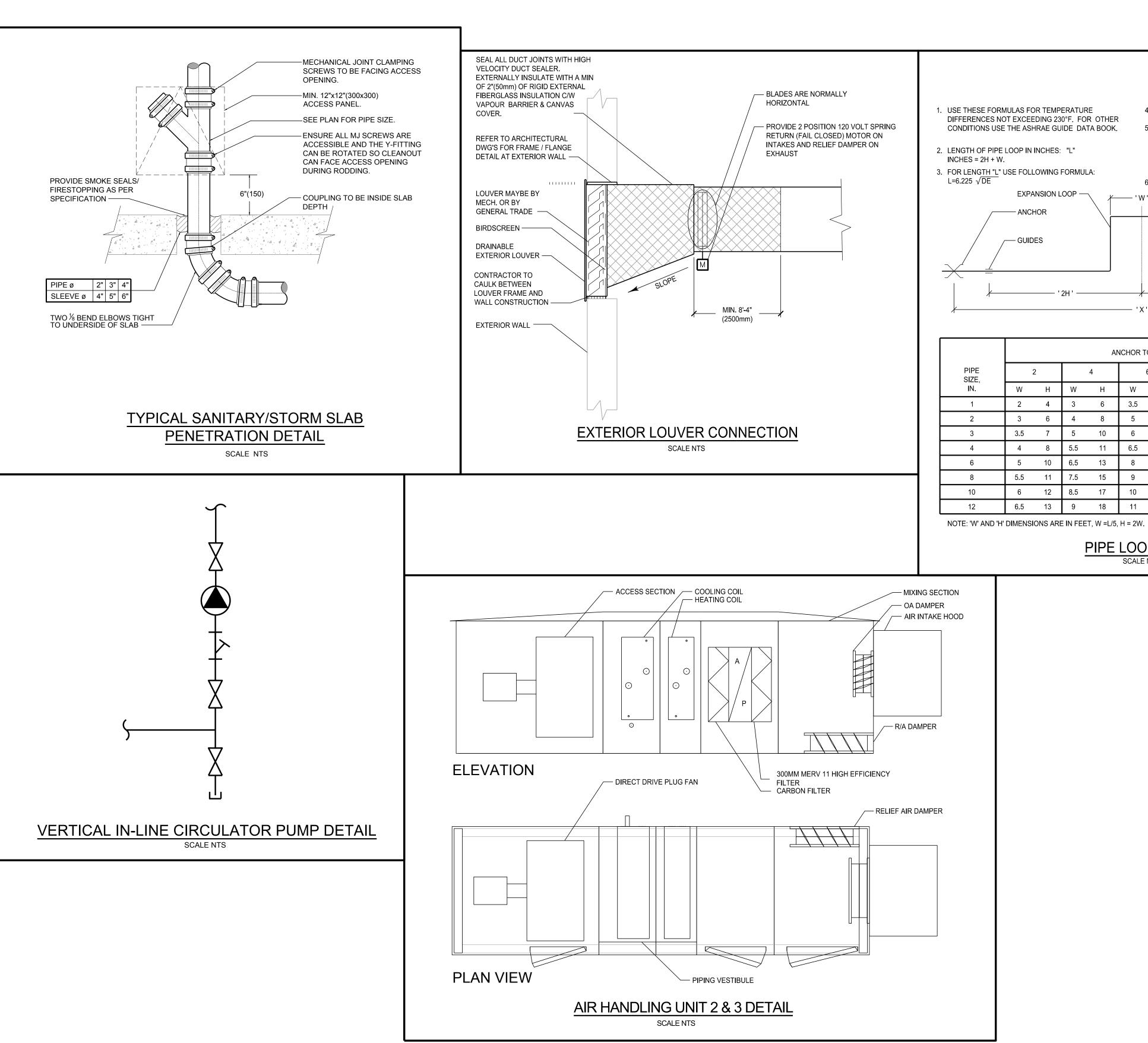
CLOSED EXPANSION TANK

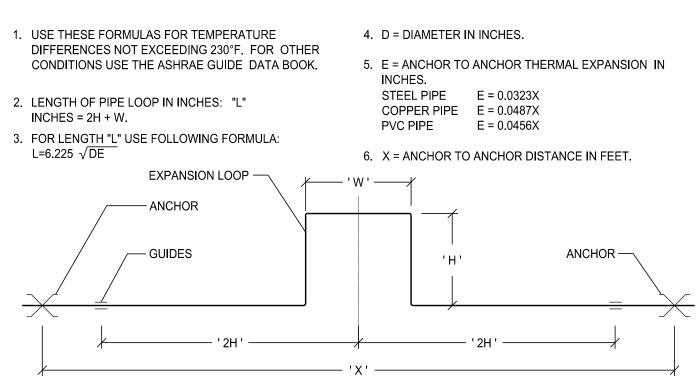
SCALE: N.T.S.



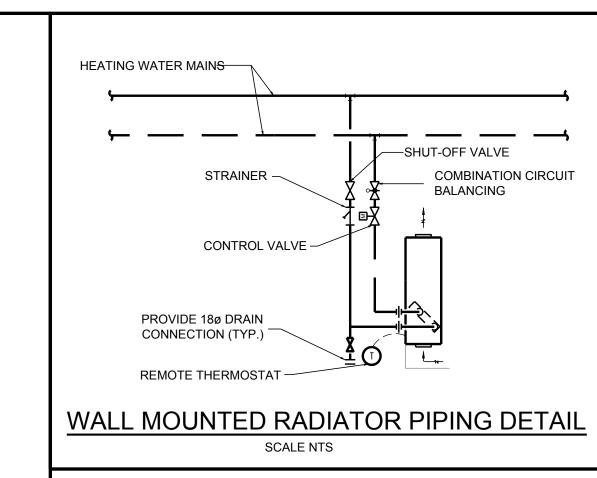
```
DRAWN BY DF
                                             P. 250-384-2131
  CHECKED NB
                                              info@moorewilson.ca
   SCALE NTS
                                          DATE 09/08/2017
    DRAWING TITLE
DETAILS - 1
   PROJECT
                                                    M500
151014
    REVISION No.
     Copyright reserved. This drawing and all copyright therein are the sole and exclusive property of the consultant. Reproduction or use of this drawing in whole or in part is prohibited and may not be used without the written consent of Moore Wilson Architects Inc.
```

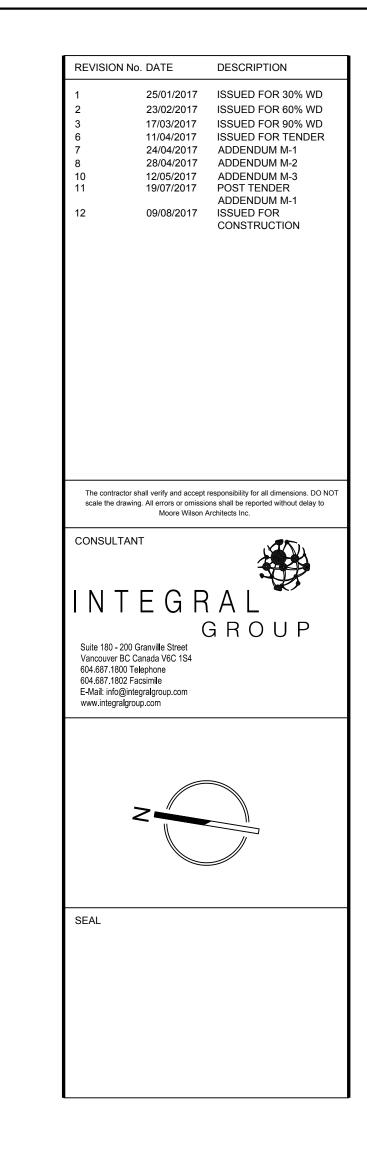






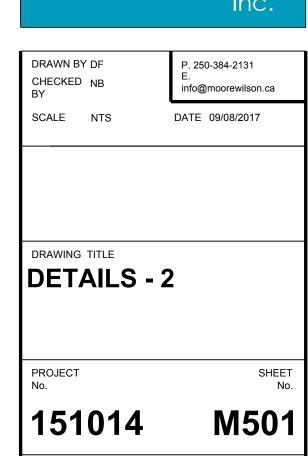
		ANCHOR TO ANCHOR EXPANSION 'E', IN.										
PIPE 2 SIZE,	2	4		6		8		10		12		
IN.	W	Н	W	Н	W	Н	W	Н	W	Н	W	Н
1	2	4	3	6	3.5	7	4	8	4.5	9	5	10
2	3	6	4	8	5	10	5.5	11	6	12	7	14
3	3.5	7	5	10	6	12	6.5	13	7.5	15	8	16
4	4	8	5.5	11	6.5	13	7.5	15	8.5	17	9	18
6	5	10	6.5	13	8	16	9	18	10	20	11	22
8	5.5	11	7.5	15	9	18	10.5	21	12	24	13	26
10	6	12	8.5	17	10	20	11.5	23	13	26	14	28
12	6.5	13	9	18	11	22	12.5	25	14	28	15.5	31



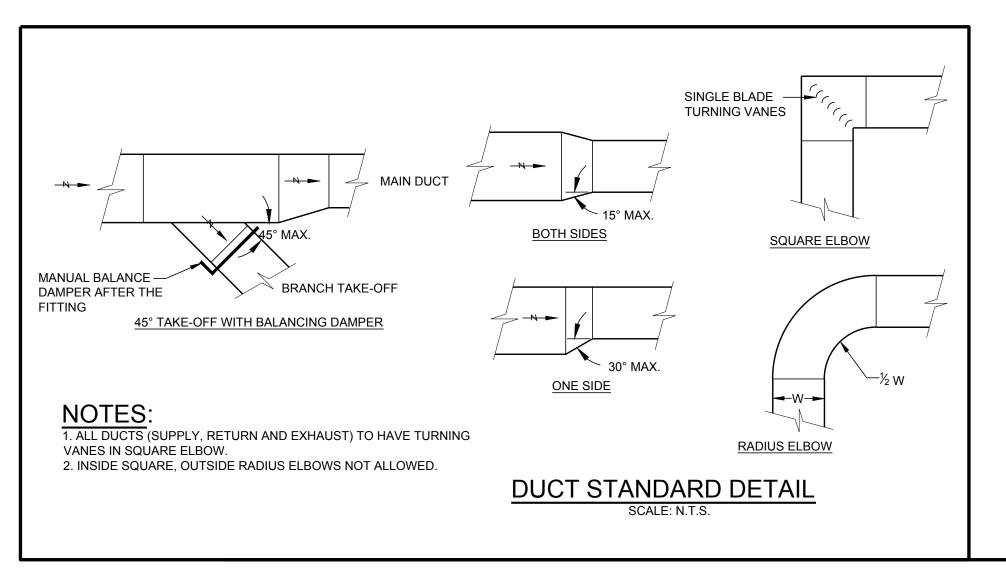


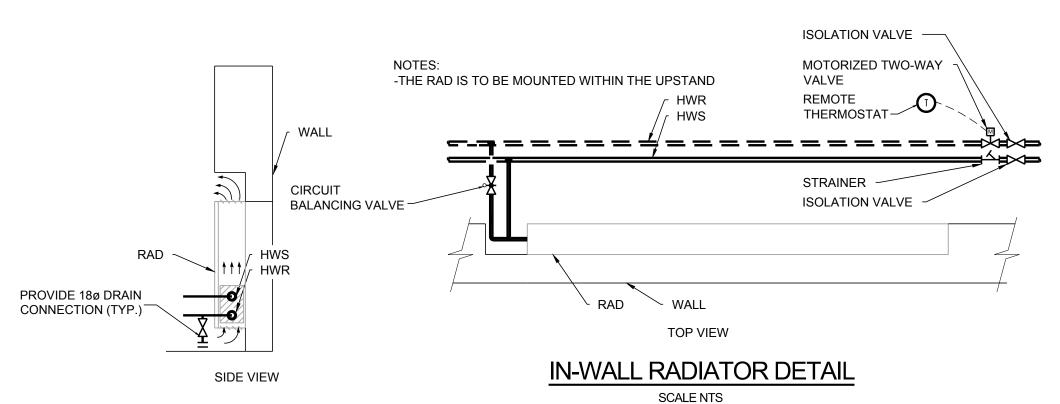
SMITHERS REGIONAL AIRPORT TERMINAL EXPANSION

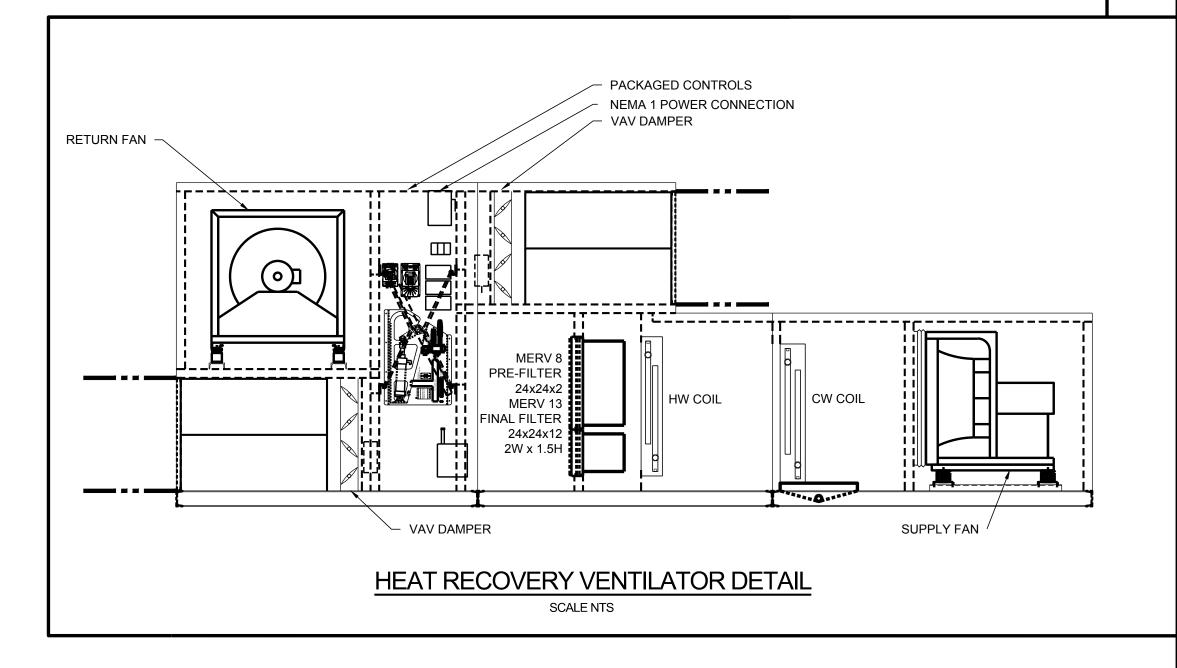


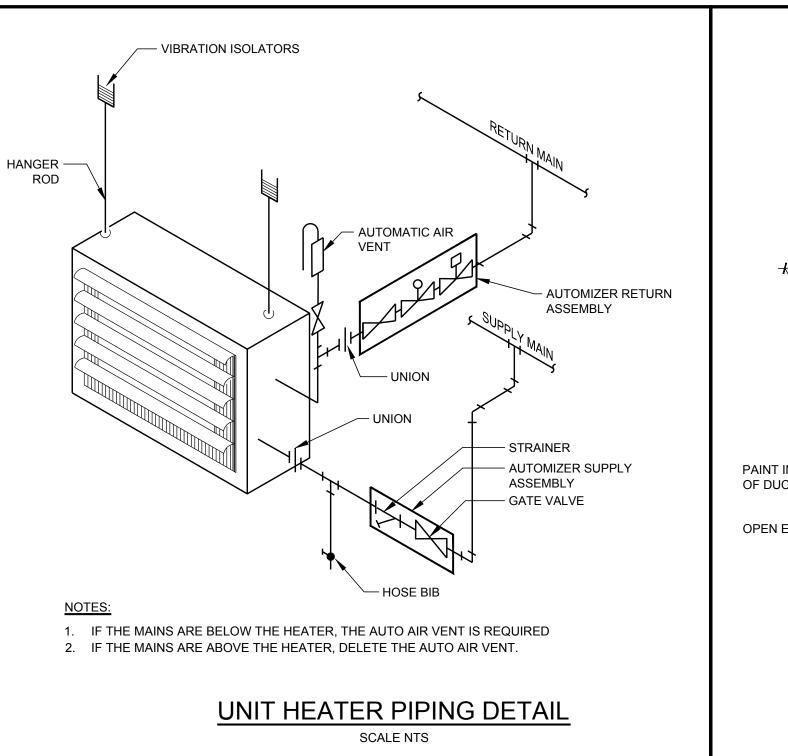


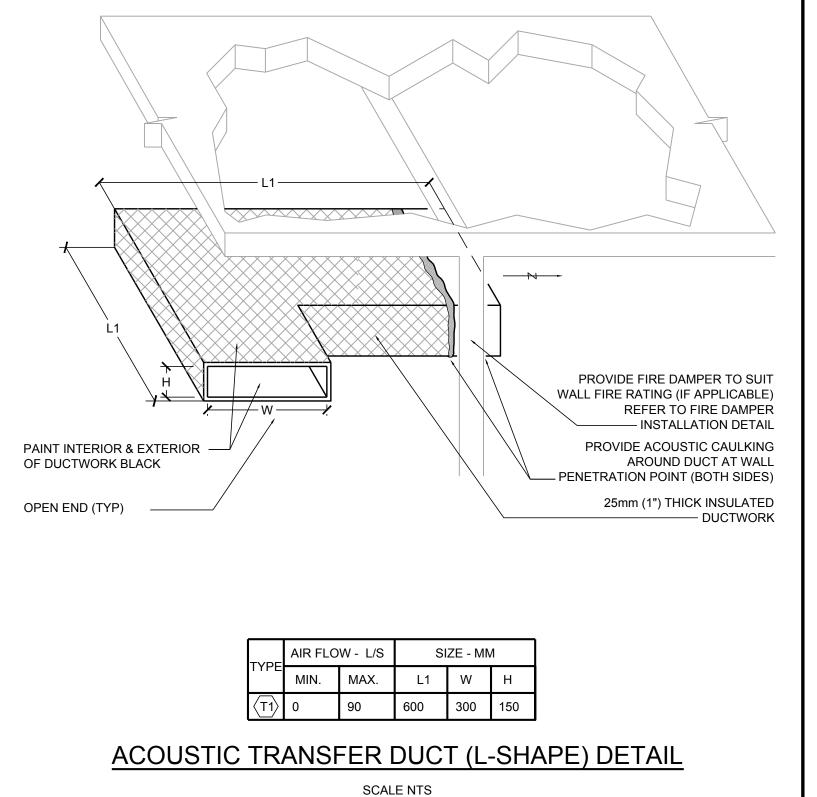


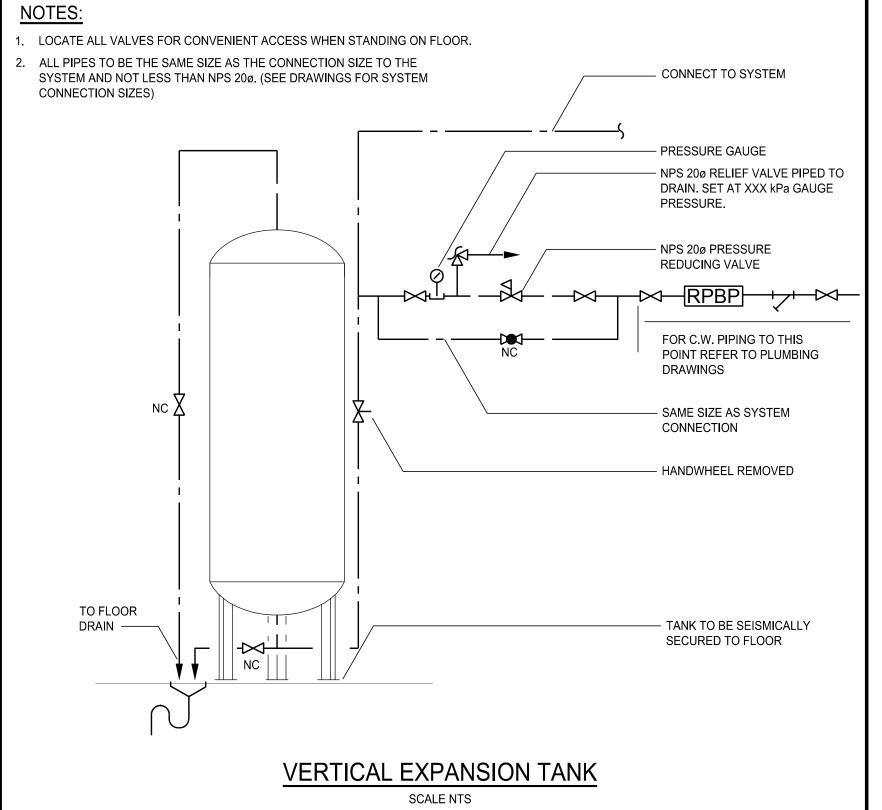


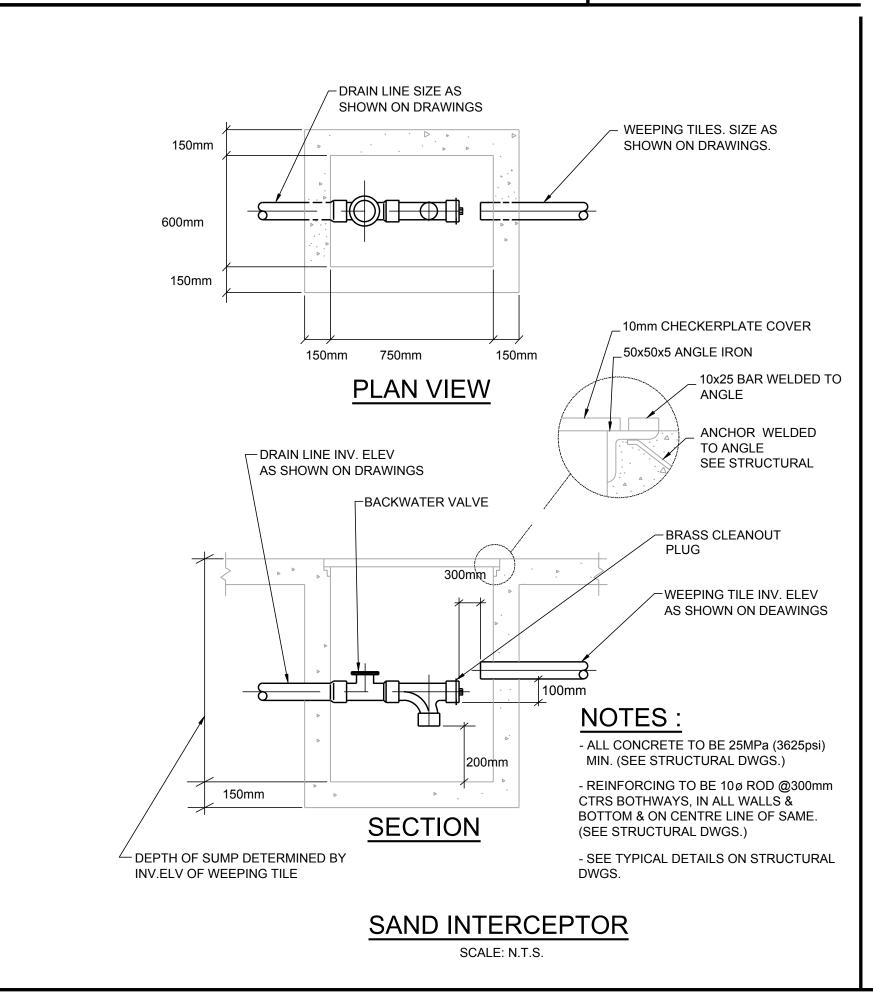


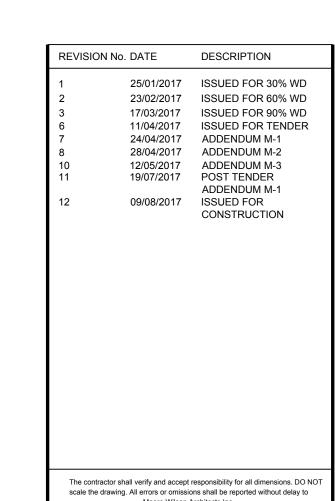










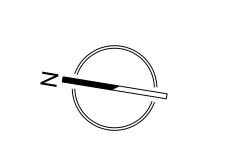


scale the drawing. All errors or omissions shall be reported without delay to Moore Wilson Architects Inc.

INTEGRAL
GROUP

Suite 180 - 200 Granville Street

Vancouver BC Canada V6C 1S4
604.687.1800 Telephone



SEAL

604 687 1802 Facsimile

E-Mail: info@integralgroup.com www.integralgroup.com

SMITHERS REGIONAL AIRPORT TERMINAL EXPANSION



DRAWN BY DF
CHECKED NB
BY
SCALE NTS

P. 250-384-2131 E. info@moorewilson.ca

DETAILS - 3

PROJECT No.

151014 M502

REVISION No.

Copyright reserved. This drawing and all copyright therein are the sole and exclusive property of the consultant. Reproduction or use of this drawing in whole or in part is prohibited and may not be used without the written consent of Moore Wilson Architects Inc.

