

	MECHANICAL PIPING							
SYMBOL	DESCRIPTION							
-+::-	PIPE DOWN							
 0	PIPE UP							
0	PIPE UP & DOWN							
- ⊳>-	VALVE							
−₩ −	BALANCING VALVE							
-† <	CHECK VALVE							
- - - - - - - - - -	STRAINER							
- ৢ\$\$	LOCK-SHEILD VALVE							
№	PRESSURE REDUCING VALVE							
-\$-\$-	ELECTRONIC CONTROL VALVE (2-WAY & 3-WAY)							
- ⋈ ⋈-	PNEUMATIC CONTROL VALVE (2-WAY & 3-WAY)							
−⅓ −	3-WAY VALVE (MANUAL)							
$\stackrel{\Longrightarrow}{\longrightarrow}$	PIPE CONTINUATION							
\leftarrow CD \rightarrow	CONDENSATE DRAINAGE PIPING							
\longleftarrow G \longrightarrow	NATURAL GAS PIPING							
 	FLOW DIRECTION							
⊱ RL/RG →	REFRIGERANT LIQUID AND GAS PIPING							
	PUMP							
CAP	CAPPED PIPE							
<u> </u>	PRESSURE GAUGE							
	THERMOMETER							
Ł	PRESSURE RELIEF VALVE							

FIRE PROTECTION									
SYMBOL DESCRIPTION									
0	CONCEALED SPRINKLER HEAD								
F	FIRE EXTINGUISHER C/W WALL BRACKET								
₹	FIRE DEPARTMENT CONNECTION								
- ⋈-	SUPERVISED VALVE								

DUCTWORK								
SYMBOL	DESCRIPTION							
$\boxtimes \boxtimes$	SUPPLY AIR DUCT UP & DOWN							
	RETURN / EXHAUST AIR DUCT UP & DOWN							
00	ROUND DUCT UP & DOWN							
Tours.	SQUARE ELBOW WITH TURNING VANES							
	DUCTWORK FLEXIBLE CONNECTION							
	1" THICK ACOUSTICALLY LINED DUCTWORK							
	EXTERNALLY INSULATED DUCTWORK (REFER TO SPECIFICATIONS FOR THICKNESS)							
	DUCT CONTINUATION (ROUND & RECTANGULAR)							
	SUPPLY AIR DIFFUSER C/W FLEX DUCT & SPIN ON CONNECTION WITH BALANCING DAMPER							
] **] **	SUPPLY / RETURN GRILLE							
— —	RETURN / EXHAUST GRILLE							
T	THERMOSTAT							
S	SWITCH							
	CONTROL WIRING							

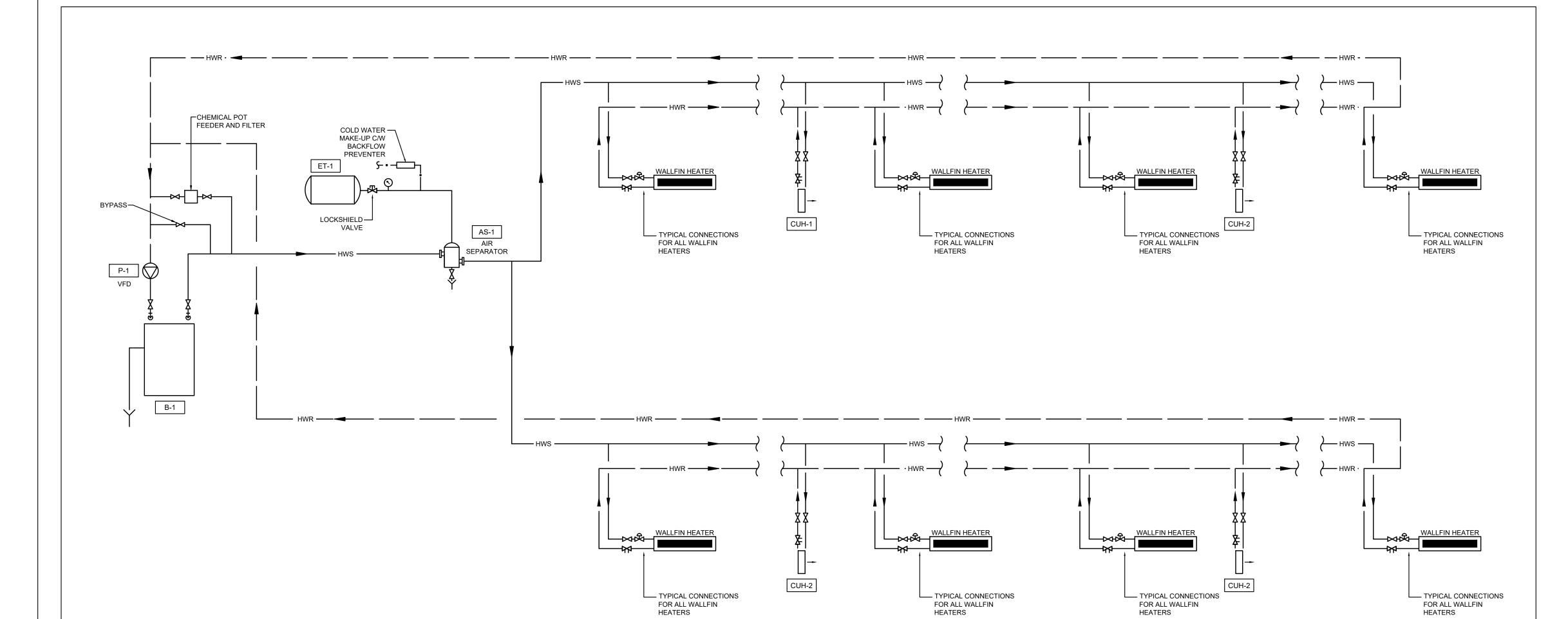
PI	PLUMBING AND DRAINAGE										
SYMBOL	DESCRIPTION										
D	WATER CLOSET - TANK TYPE										
જ	P-TRAP										
co _co ♀ =	CLEAN OUT (FLOOR & CEILING)										
Ø FD	ROUND FLOOR DRAIN										
⊚ HD	HUB DRAIN										
Δ	PIPE WYE CONNECTION										
工	PIPE TEE										
├ - 	DOMESTIC COLD WATER (DCW) PIPING										
├ ─	DOMESTIC HOT WATER (DHW) PIPING										
├ ── SAN ─ →	SANITARY DRAINAGE (SAN) PIPING										
├	VENT PIPING										
├ 	DOMESTIC HOT WATER RECIRC. (DHWR) PIPING										

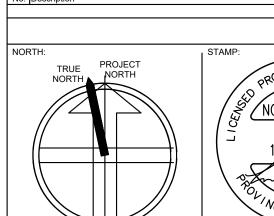
MECHANICAL DRAWING LIST									
DRAWING NO.	DRAWING NAME								
M1.0	DRAWING LIST, SYMBOL LIST & NOTES								
M2.0	GROUND FLOOR & ROOF PLANS - HVAC								
M2.1	GROUND FLOOR PLAN - PIPING								
M3.0	BELOW GRADE & GROUND FLOOR PLANS - PLUMBING								
M4.0	GROUND FLOOR PLAN - FIRE PROTECTION								
M5.0	CONTROLS DIAGRAMS & FLOW DIAGRAM								
M6.0	SCHEDULES 1								
M6.1	SCHEDULES 2								
M6.2	SCHEDULES 3								
M7.0	DETAILS 1								
N 7 4	DETAIL C 2								

TAGS									
SYMBOL	DESCRIPTION								
TAG-1 EQUIPMENT TAG									
AIRFLOW DIRECTION									
CTE CONNECT TO EXISTING									
[###] FLOW IN CFM									
DIFFUSER TAG									
DIFFUSE	2 A 8"Ø [200] ER TYPE AIRFLOW								
VAV BOX TAG									
DUCTWORK									
	HEIGHT S - 14"x14" [1000] L AIRFLOW *IF APPLICABLE								

DRAWING NO.	DRAWING NAME
M1.0	DRAWING LIST, SYMBOL LIST & NOTES
M2.0	GROUND FLOOR & ROOF PLANS - HVAC
M2.1	GROUND FLOOR PLAN - PIPING
M3.0	BELOW GRADE & GROUND FLOOR PLANS - PLUMBING
M4.0	GROUND FLOOR PLAN - FIRE PROTECTION
M5.0	CONTROLS DIAGRAMS & FLOW DIAGRAM
M6.0	SCHEDULES 1
M6.1	SCHEDULES 2
M6.2	SCHEDULES 3
M7.0	DETAILS 1
M7.1	DETAILS 2

SYMBOL	DESCRIPTION								
TAG-1 EQUIPMENT TAG									
→ μ AIRFLOW DIRECTION									
CTE	CONNECT TO EXISTING								
[###]	FLOW IN CFM								
DIFFUSER TAG									
DIFFUSER TYPE AIRFLOW VAV BOX TAG DUCTWORK									
TYPE: (S)UPPLY (R)ETURN (E)XAUSTION S - 14"x14" [1000] WIDTH									





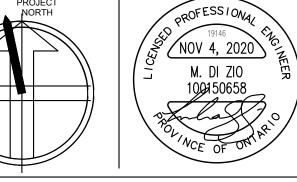
3. ISSUED FOR PERMIT REVISIONS

ISSUED FOR COORDINATION

ISSUED FOR PERMIT

APPLICATION NUMBER:

APPLICATION NUMBER:





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DRAWING LIST, SYMBOL LIST & NOTES

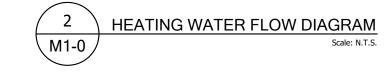
2020.03.19 Drawn By Checked By SL/KL MD

2020.11.04 MD

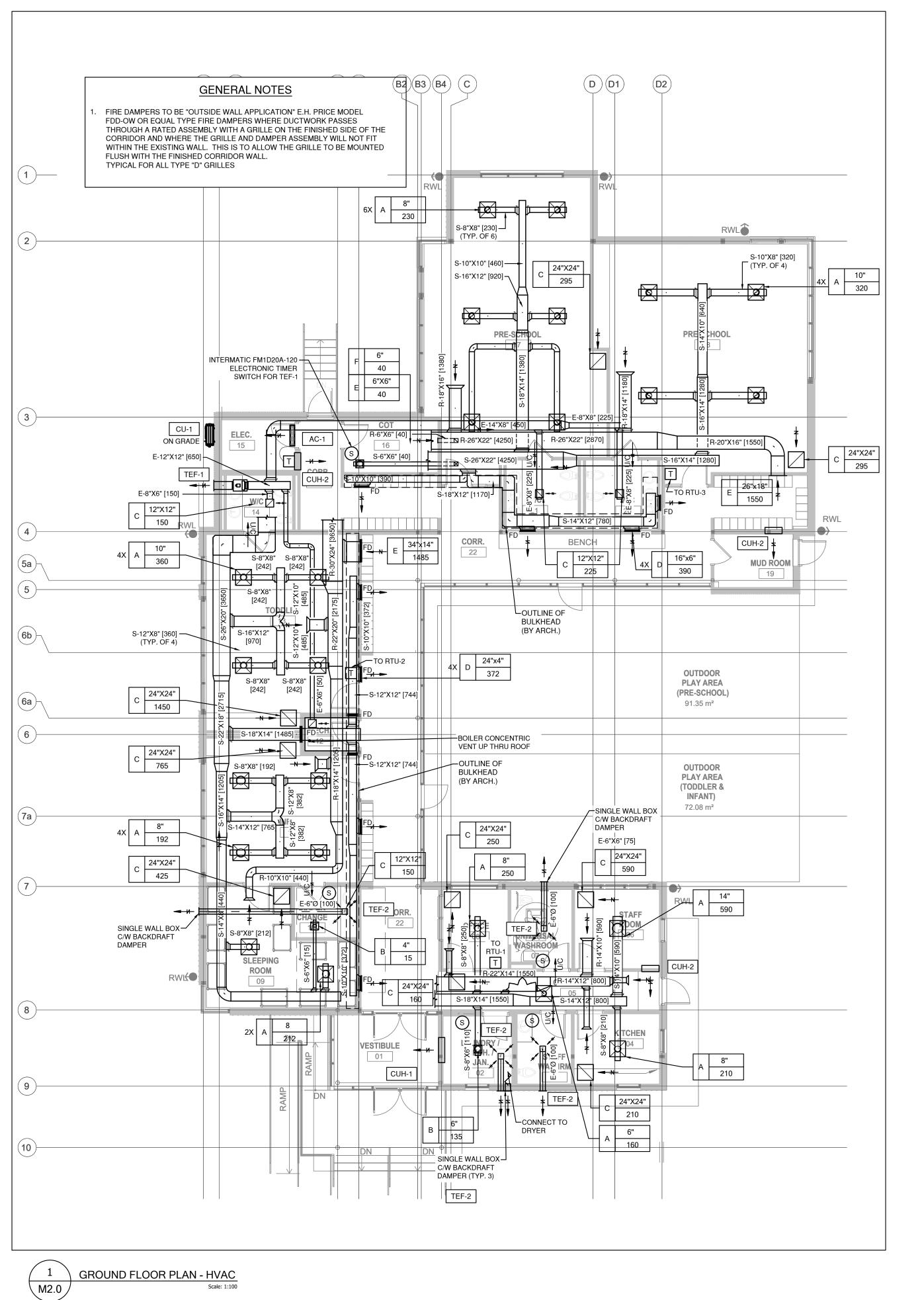
2020.06.26 MD

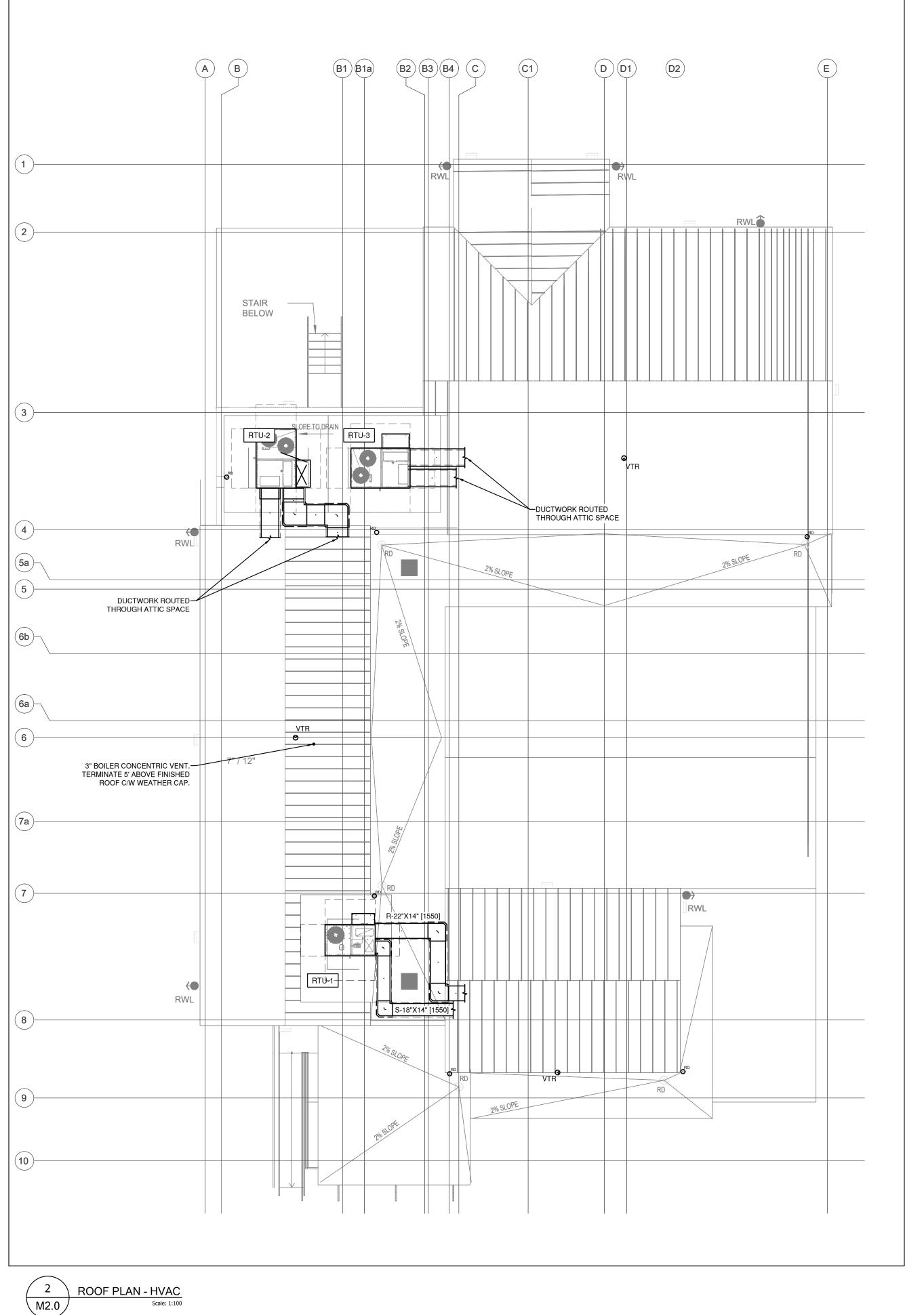
2020.04.03 VK

YYYY.MM.DD By



SITE PLAN
Scale: 1:300





REVISIONS

A

B

SUBMITTALS

10.

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3. ISSUED FOR PERMIT REVISIONS

2020.11.04 MD

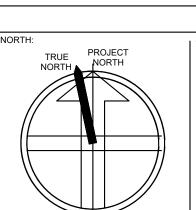
2. ISSUED FOR PERMIT

1. ISSUED FOR COORDINATION

1. ISSUED FOR COORDINATION

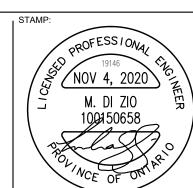
2020.04.03 VK

No. Description



APPLICATION NUMBER:

APPLICATION NUMBER:





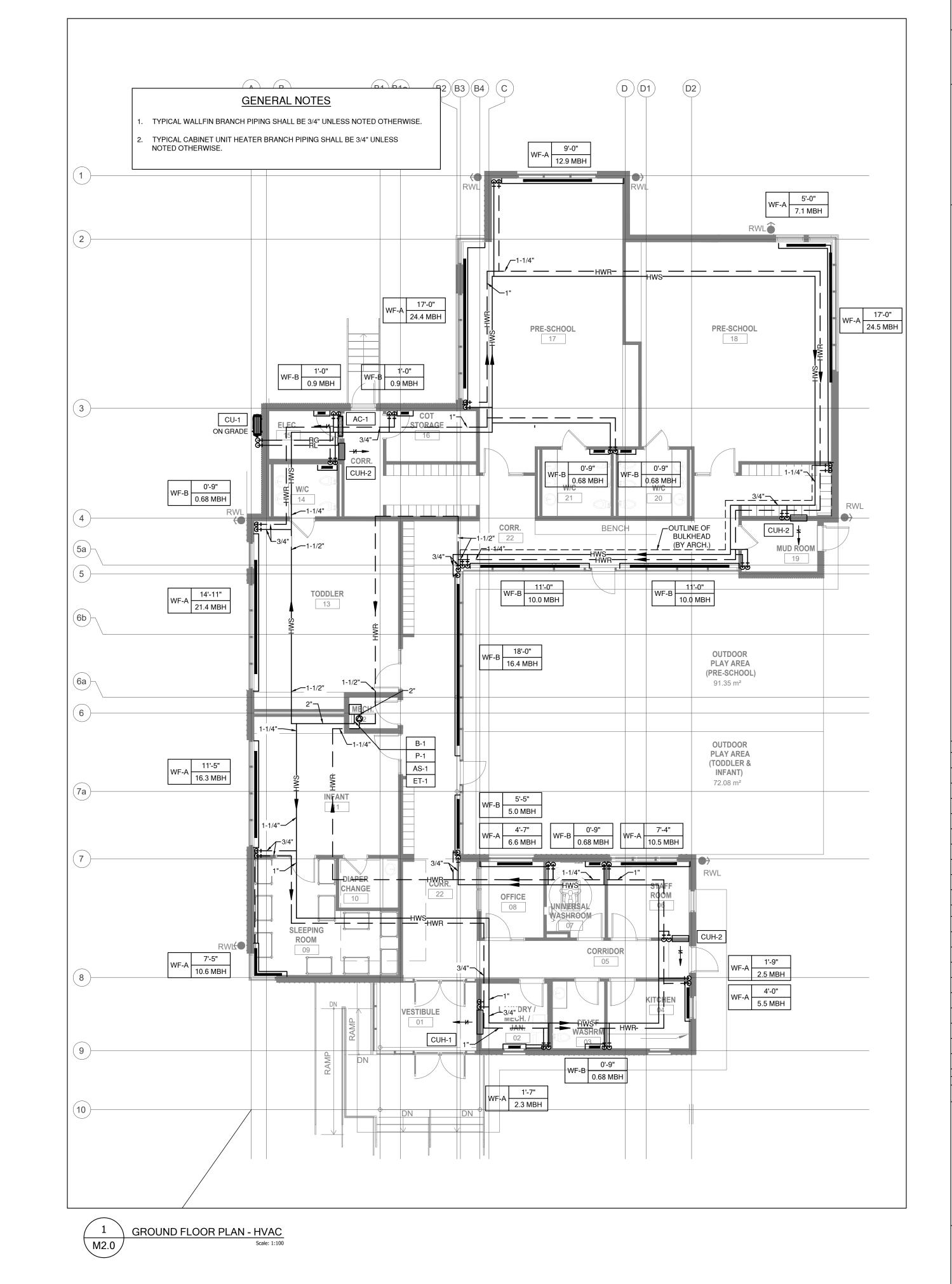
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GROUND FLOOR & ROOF PLANS - HVAC

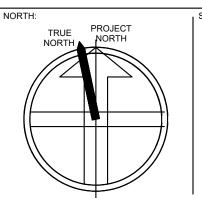
2020.03.19
Scale Drawn By Checked B
1:100 SL MD
Project Number

M2.0



APPLICATION NUMBER:

APPLICATION NUMBER:







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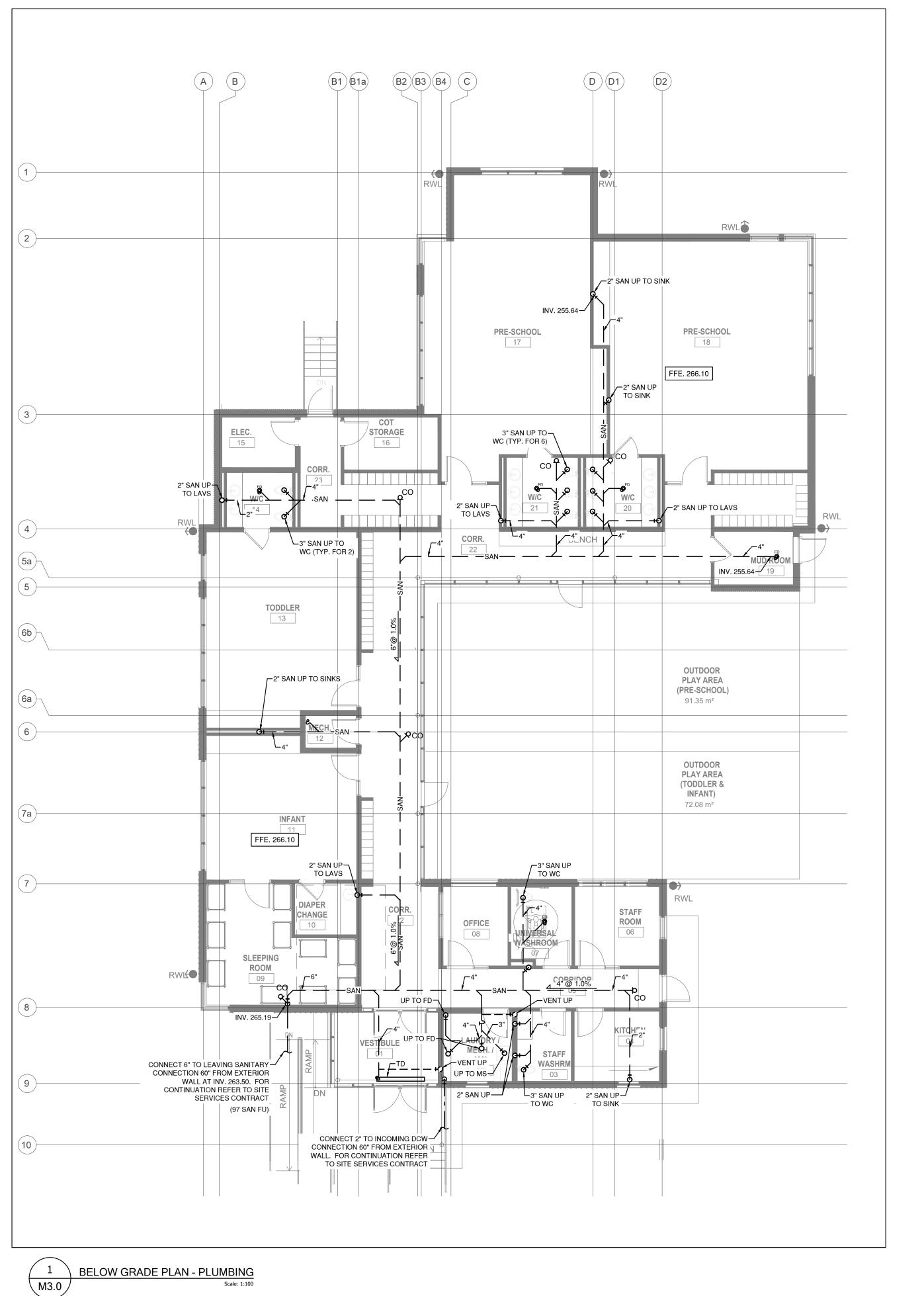
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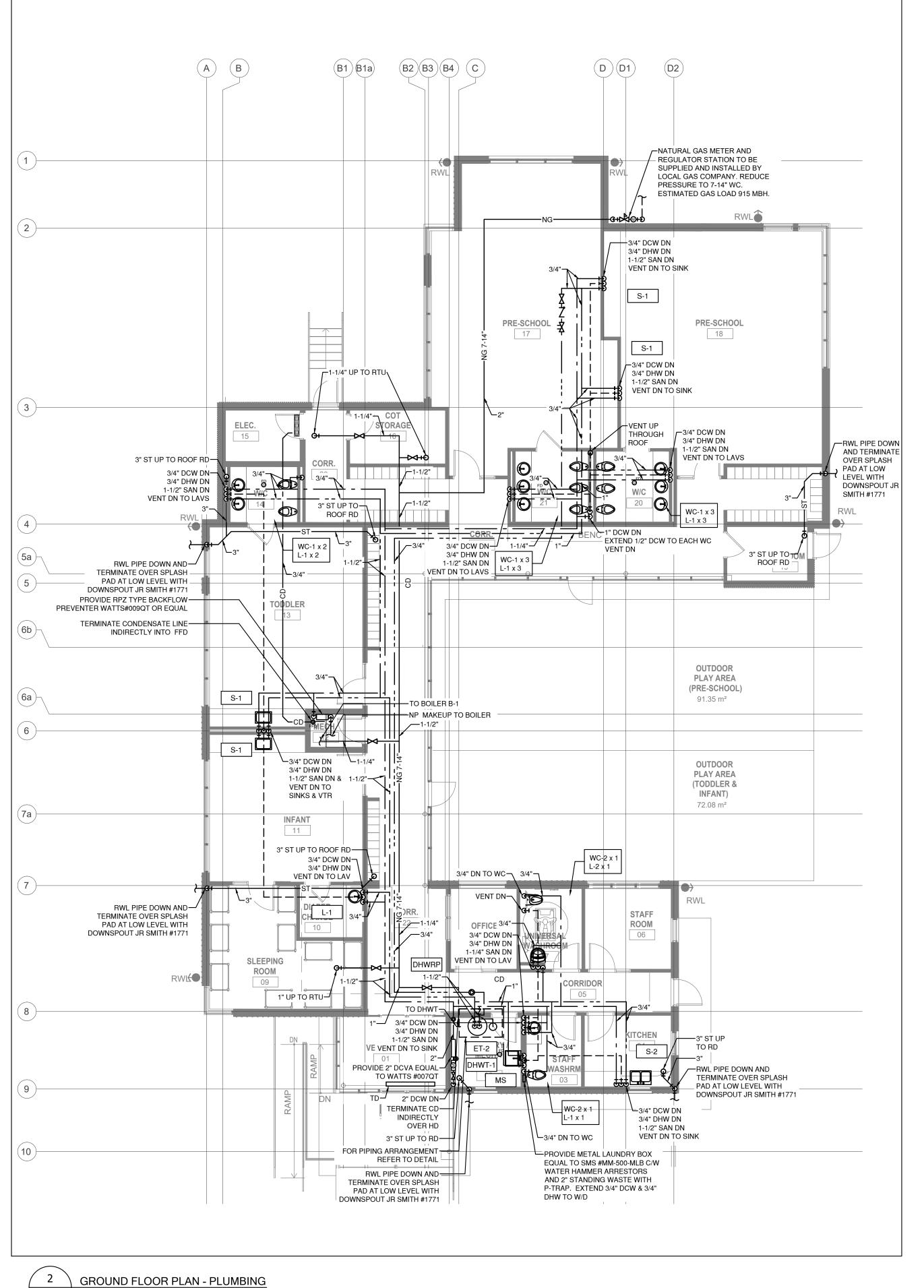
GROUND FLOOR PLAN - PIPING

020.03.19

by Checked By Checked By SL MD SL MD

100 SL MD



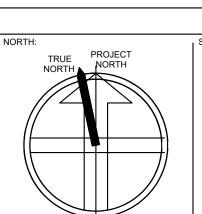


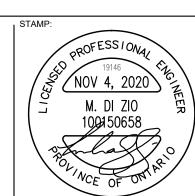
M3.0

B. ISSUED FOR PERMIT REVISIONS ISSUED FOR PERMIT 2020.06.26 MD ISSUED FOR COORDINATION 2020.04.03 VK NOV 4, 2020

APPLICATION NUMBER:

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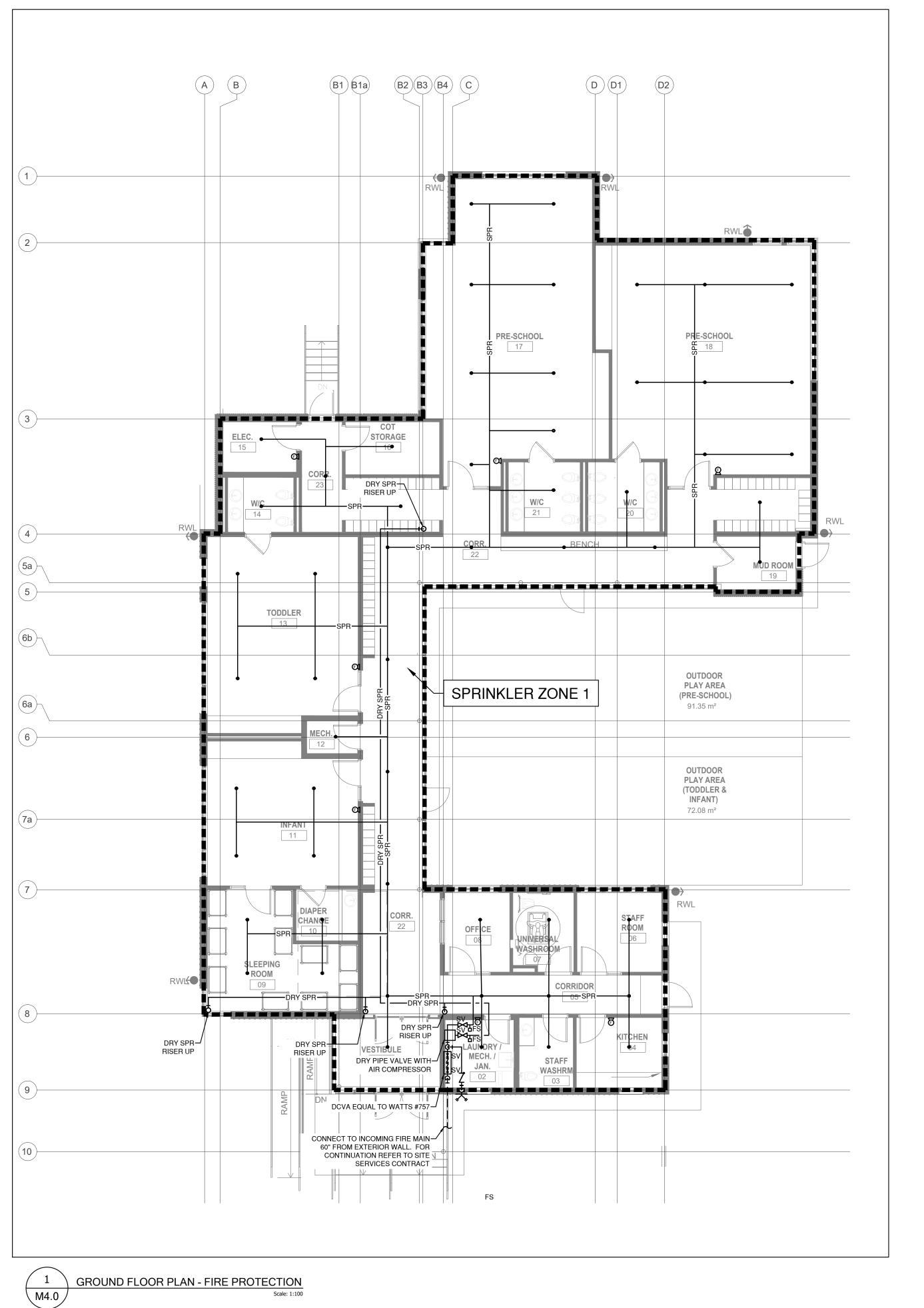


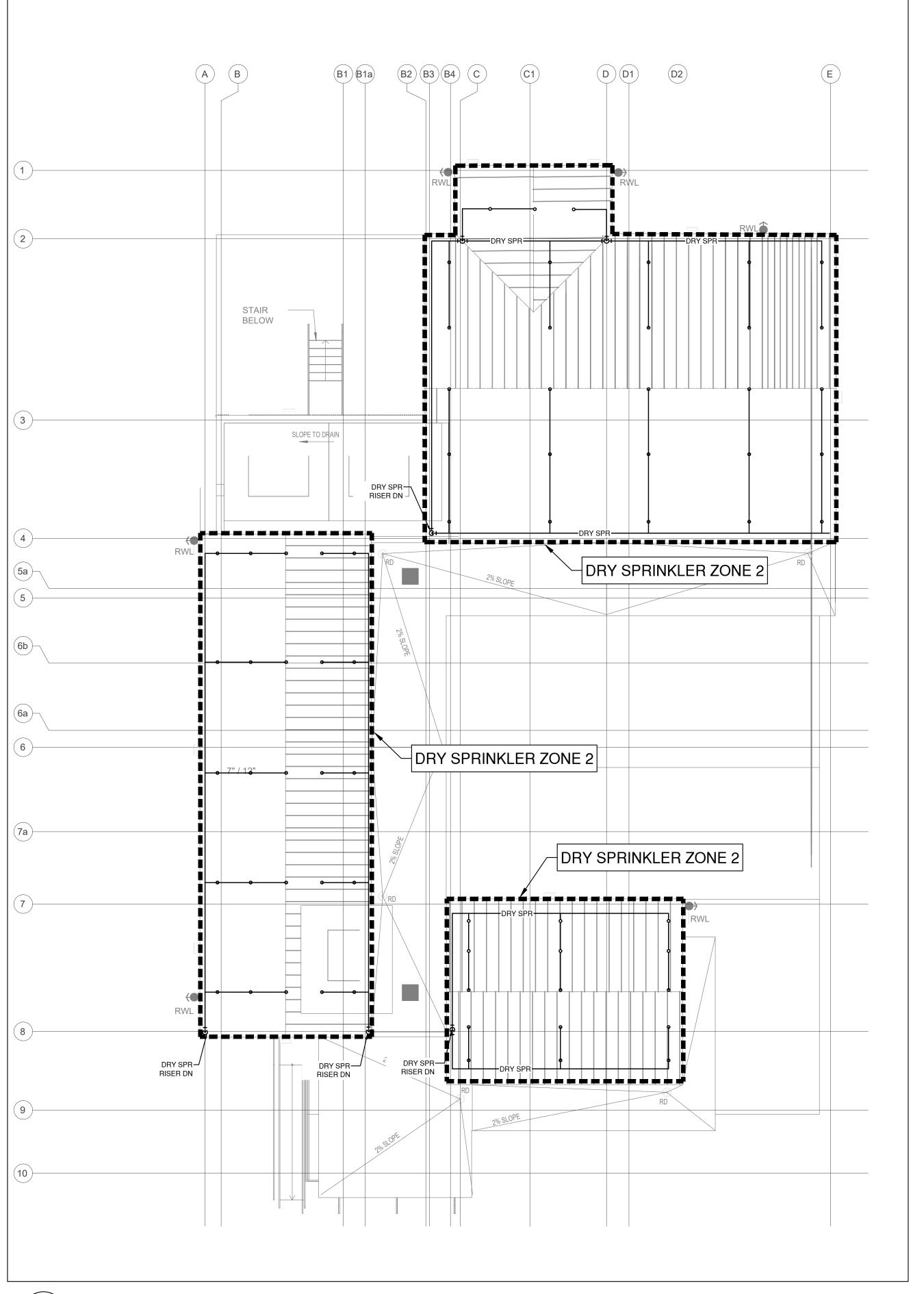


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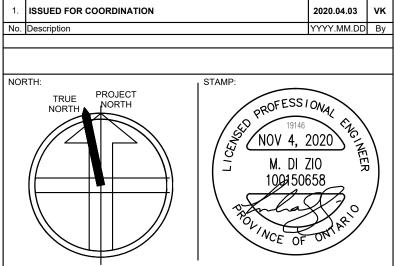
BELOW GR. & GROUND FLOOR - PLUMBING





2 PIT M4.0

PITCHED ROOF FLOOR PLAN - FIRE PROTECTION





3. ISSUED FOR PERMIT REVISIONS

ISSUED FOR PERMIT

REVISIONS

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APPLICATION NUMBER:

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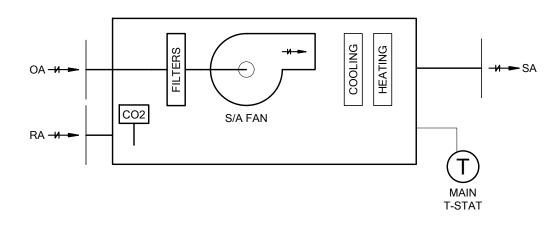
17A - 30 Pennsylvania Avenue
Vaughan, Ontario L4K 4A5
email: info@rdzeng.ca

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GROUND FLOOR PLAN - FIRE PROTECTION

M4.0

2020.06.26 MD



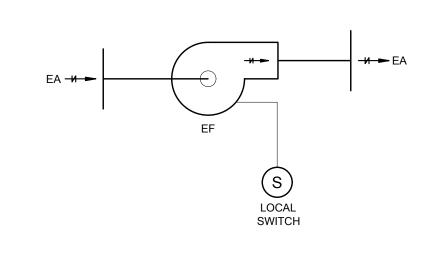
SEQUENCE OF OPERATION

- 1. DURING OCCUPIED MODE, PACKAGED UNIT TO RUN CONTINUOUSLY TO MAINTAIN ROOM TEMPERATURE SENSOR SETPOINT OF 22.2°C (ADJUSTABLE) IN HEATING AND 23.3°C (ADJUSTABLE) IN COOLING. DURING UNOCCUPIED MODE, UNIT TO OPERATE TO MAINTAIN ROOM TEMPERATURE SENSOR SETPOINT OF 18°C (ADJUSTABLE) IN HEATING AND 26°C (ADJUSTABLE) IN COOLING. UNIT TO MODULATE FAN SPEED, DX COOLING AND GAS HEATING AS REQUIRED.
- 2. THROUGH INTEGRATED ENTHALPY CONTROL, PACKAGED ROOFTOP UNIT SHALL PROVIDE FOR FREE COOLING WHEN THE RETURN AIR ENTHALPY IS GREATER THAN THE OUTDOOR AIR ENTHALPY (ECONOMIZER CONTROL).
- 3. UNIT TO MODULATE OUTDOOR AIR DAMPER POSITION TO MAINTAIN RETURN AIR CO2 CONCENTRATION BELOW 800 PPM (ADJUSTABLE)

<u>NOTES</u>

- 1. UNIT TO OPERATE CONTINUOUSLY BASED ON A TIME OF DAY SCHEDULE PROGRAMMED THROUGH PROGRAMMABLE THERMOSTAT.
- 2. UNIT COMPLETE WITH 7-DAY PROGRAMMABLE THERMOSTAT C/W TEMPERATURE SENSOR TO GOVERN UNIT OPERATION.

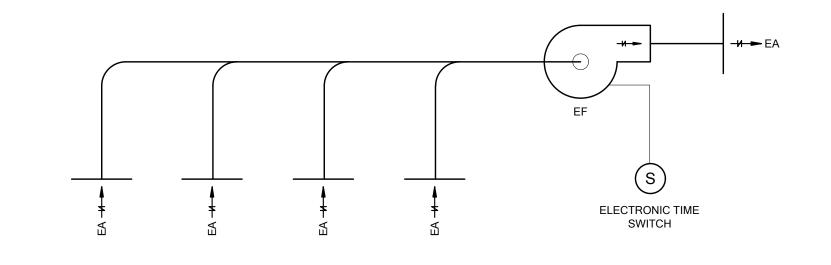
PACKAGED ROOFTOP UNITS



SEQUENCE OF OPERATION

- 1. LOCAL FAN SWITCH SHALL ENABLE/DISABLE EXHAUST FAN.
- 2. FAN TEF-2 SERVING JAN. CLOSET SHALL OPERATE CONTINUOUSLY AT ALL TIMES.

EXHAUST FAN "TEF-2"



SEQUENCE OF OPERATION

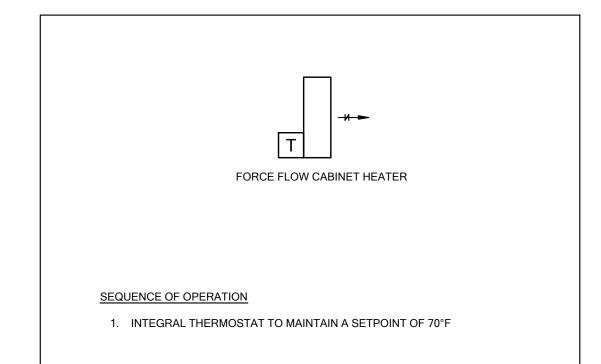
- 1. ELECTRONIC TIME SWITCH TO ENABLE/DISABLE TOILET EXHAUST FAN BASE ON TIME OF DAY SCHEDULE.
- 2. ONCE ENABLED, FAN TO OPERATE CONTINUOUSLY AT FULL CAPACITY.

1. ELECTRONIC TIME SWITCH EQUAL TO INTERMATIC MODEL# FM1D20A-120. SWITCH TO BE WALL MOUNTED IN COT STORAGE ROOM 16.

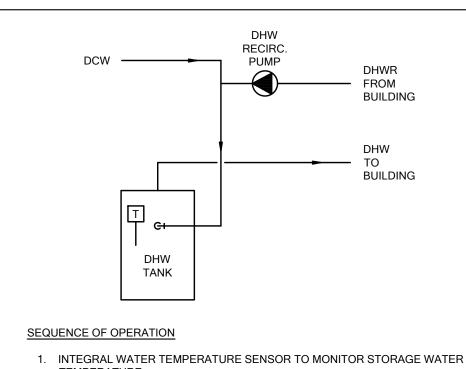
TOILET EXHAUST FAN "TEF-1" CONTROL DIAGRAM

- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL RELAYS, DRY CONTACTS, CONTACTORS, TRANSDUCERS, ETC. AS REQUIRED TO OPERATE THE SYSTEMS
- COORDINATE FINAL INSTALLATION POSITION OF EACH THERMOSTAT AND ALL OTHER CONTROLS RELATED DEVICES THAT ARE LOCATED ON WALLS, CEILINGS, FLOORS, ETC. IN ALL AREAS ON SITE WITH THE ARCHITECT AND/OR INTERIOR DESIGNER PRIOR TO ROUGH IN. WALL MOUNTED THERMOSTATS ARE TO BE MOUNTED AS PER LOCAL GOVERNING AUTHORITY AND BARRIER FREE
- ALL CONTROL WIRING IN AREAS WITH EXPOSED CEILINGS SHALL BE PROVIDED IN CONDUIT.

GENERAL CONTROL NOTES



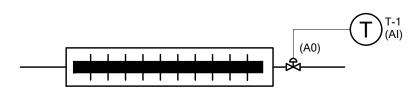
TYPICAL CABINET UNIT HEATER



- 1. INTEGRAL WATER TEMPERATURE SENSOR TO MONITOR STORAGE WATER
- 2. LOCAL CONTROLLER TO ENABLE AND DISABLE DOMESTIC HOT WATER TANK HEATER TO MAINTAIN WATER STORAGE TEMPERATURE SETPOINT OF 60°C(140°F).

1. RECIRCULATION PUMP RUN FOR 15 MIN OF EVERY HOUR.

DOMESTIC HOT WATER HEATER

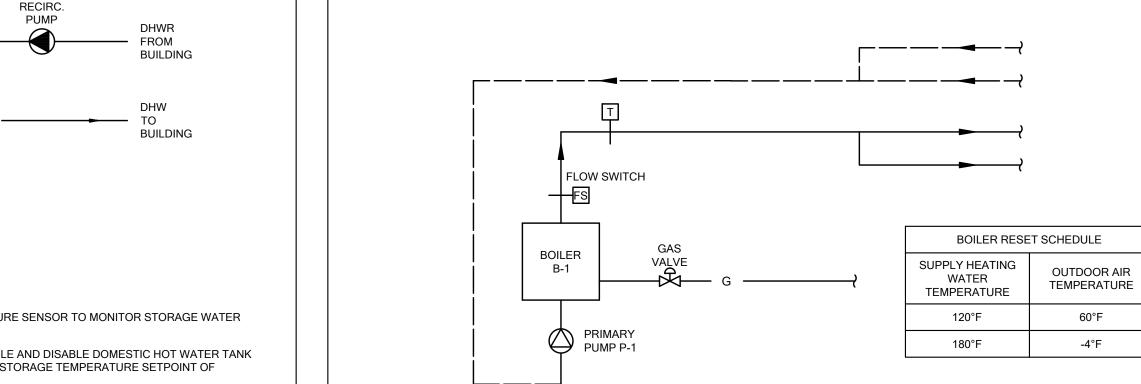


SEQUENCE OF OPERATION

1. IN HEATING MODE, LOCAL TEMPERATURE SENSOR SHALL MODULATE HEATING COIL CONTROL VALVE OF WALLFIN HEATER TO MAINTAIN THE FOLLOWING ROOM TEMPERATURE SETPOINTS (ADJUSTABLE): 22.2°C (72°F) IN FRONT OF HOUSE SPACES 15.6°C (60°F) FOR STORAGE AND SERVICE SPACES.

1. REFER TO FLOOR PLAN FOR LOCATIONS OF WALLFIN HEATERS.

WALLFIN HEATER CONTROL DIAGRAM



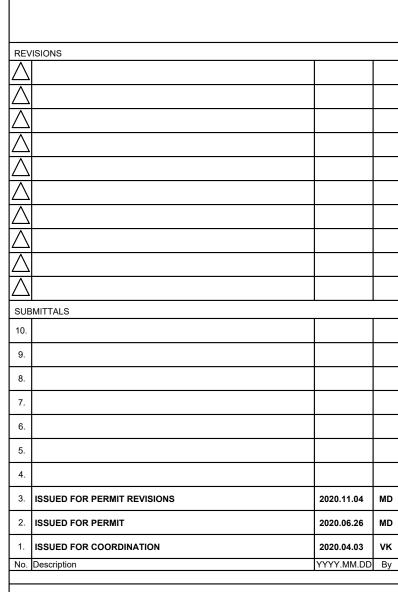
SEQUENCE OF OPERATION

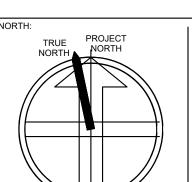
- THE SYSTEM IS ENERGIZED THROUGH LOCAL BOILER CONTROLLER. HEATING WATER IS AVAILABLE CONTINUOUSLY THROUGHOUT THE
- ONCE ENABLED, BOILER SHALL OPERATES ON IT'S OWN SYSTEMS OF CONTROL AND SAFETIES. THE BOILER CONTROLLER SHALL MODULATE THE BOILER BY SEQUENCING THE BOILER AND ASSOCIATED PUMP TO OPTIMIZE ENERGY USE AND MAINTAIN HOT WATER TEMPERATURE SETPOINT AT THE WATER SUPPLY TEMPERATURE SENSOR BASED ON OUTDOOR AR TEMPERATURE RESET SCHEDULE.
- ANYTIME THE BOILER IS ENABLED, PUMP P-1 SHALL START AND AS FLOW IS PROVEN, THE BOILER SHALL FIRE UNDER IT'S OWN CONTROLS AS NOTED ABOVE.

NOTES

- OUTDOOR AIR TEMPERATURE SENSOR PROVIDED BY BUILDING OUTDOOR AIR TEMPERATURE AND ENTHALPY STATION.
- WHEN BOILER IS TURNED ON, MONITOR THE HEATING WATER SUPPLY TEMPERATURE THROUGH THE BOILER FLOW SWITCH AND ENSURE THAT THE BOILER IS NOT ENABLED UNTIL FLOW IS PROVEN THROUGH THE BOILER.

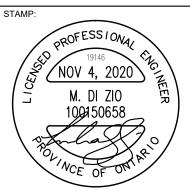
HOT WATER BOILER CONTROL DIAGRAM





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CONTROLS DIAGRAMS & FLOW DIAGRAMS

SL/KL MD

												SCHEDUL	E OF ROO	FTOP UNITS													
							DIMENSIONS									DX COOI	ING							HEATING			
					WEIGHT		DIMENSIONS		CURB DESIGN OUTDOOR AIR HEIGHT AIRFLOW		OR AIR EVAPORATOR					OAT (F)	T (E) CONDENSATE		FUEL			N.D. IT		0.47 (5)	HEAT		
TAG	MANUFACTURER	MODEL	LOCATION	AREA SERVED		WIDTH	LENGTH	HEIGHT				CA	PACITY (MBH)		EAT (F)	L	AT (F)	— OAT (F)	DRAIN SIZE	NO. COOLING STAGES		PRESSURE	HEATING STAGES	INPUT	OUTPUT	OAT (F)	HEAT RISE
					(LBS)	(IN.)	(IN.)	(IN.)	(IN.)	(CFM)	(CFM) %	SENSIE	BLE TOT.	TAL DB	WB	DB	WB	DB	(IN)	_ GINGLO	TYPE	(IN. WC)		(MBH)	(MBH)	DB	(F)
RTU-1	CARRIER	48GCEM05E2A1- 6W0C0	ROOF	OFFICES	555	44 1/8	74 3/8	33 3/8	14	1550	110 7	35.76	6 49.8	.85 76.8	64.5	55.0	53.7	87.0	3/4	2	NAT. GAS	7"-14"	1	110	88	-4.0	53.7
RTU-2	CARRIER	48TCRD12E2A1- 6W0M0	ROOF	INFANT, TODDLER, SLEEPING	940	59-1/2	88-1/8	49-3/8	14	3850	980 25	93.6	125.	5.58 78.8	65.9	55.8	55.2	87.0	3/4	2	NAT. GAS	7"-14"	1	180	148	-4.0	36.3
RTU-3	CARRIER	48TCRD12E2A1- 6W0M0	ROOF	PRE-SCHOOL	940	59-1/2	88-1/8	49-3/8	14	4250	1105 26	98.14	1 127.	7.62 78.9	65.9	57.0	56.2	87.0	3/4	2	NAT. GAS	7"-14"	1	220	184	-4.0	40.9

NOTES

1 REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS.

2 TEFC TYPE MOTOR

3 UNIT SHALL BE COMPLETE WITH 7-DAY PROGRAMMABLE THERMOSTAT, DEMAND CONTROL VENTILATION, CO2 SENSOR, MULTISPEED FAN AND DUAL ENTHALPY ECONOMIZER.

4 PROVIDE UNIT MOUNTED WEATHERPROOF DISCONNECT.

5 PROVIDE 2 INCH MERV 8 FILTER COMPLETE WITH ONE SPARE SET.

	SCHEDULE OF ROOFTOP UNITS CONTINUED												
		SUPPLY FAN				ELECTRICAL							
ESP	TSP	ВНР	MOTOR HP	VFD	MCA	МОСР	POWER (V/PH/HZ)	EMERGENCY POWER	REMARKS				
(IN. WC)	(IN. WC)												
0.65	0.72	0.75		YES	10	15	575/3/60	NO					
0.7	0.88	2.30		YES	23	25	575/3/60	NO					
0.7	0.93	2.89		YES	23	25	575/3/60	NO					

									LC	OSE MOTO	OR STAF	RTER SCH	EDULE																																
				COMBI	NATION STAF	RTER & DIS	CONNECT		MODIFICATIONS																																				
		MOTOR	FULL	FUSED	DISC.	S	TARTER					AUX. CONT.						BRANCH FEEDERS																		X. CONT.				WP D	VP DISCONNECT	CT DISCONNECT	EA SHIIT	F.A. SHUT	
ITEM NO.	DESCRIPTION	HP	LOAD (AMPS)	REQUIRED	FUSE	SIZE	TYPE	CONTROL TRANSFORMER (24V)	START/STOP PUSH BUTTON	H.O.A. SELECTOR SWITCH	PILOT LIGHT	NORMALLY OPEN	NORMALLY CLOSED	CABLE OR BUS	CONDUIT SIZE	DISCONNECT AT MOTOR	AT MOTOR	ONLY	DOWN	REMARKS																									
TEF-1	PRE-SCHOOL AND TODDLER ROOM WASHROOMS, MECH CLOSET			NOTE 2	NOTE 2	1	FVNR	YES	-	YES	YES	2	2	NOTE 2	NOTE 2	-	YES	-	-	120 - 1Ø RATED; QUANTITY = 1																									
TEF-2	UNIVERSAL AND STAFF WASHROOMS, LAUNDRY ROOM, AND DIAPER CHANGE ROOM			NOTE 2	NOTE 2	1	FVNR	YES	-	YES	YES	2	2	NOTE 2	NOTE 2	-	YES	-	-	120 - 1Ø RATED; QUANTITY = 4; FAN CONTROL BY LIGHT SWITCH																									
CUH-1	VESTIBULE	1/20	NOTE 2	NOTE 2	NOTE 2	1	FVNR	YES	-	YES	YES	2	2	NOTE 2	NOTE 2	-	YES	-	-	120 - 1Ø RATED; QUANTITY = 1																									
CUH-2	CORRIDORS, MUD ROOM	1/25	NOTE 2	NOTE 2	NOTE 2	1	FVNR	YES	-	YES	YES	2	2	NOTE 2	NOTE 2	-	YES	-	-	120 - 1Ø RATED; QUANTITY = 3																									
P-1	HEATING WATER PUMP	1.0	NOTE 2	NOTE 2	NOTE 2	1	FVNR	YES	-	YES	YES	2	2	NOTE 2	NOTE 2	-	YES	-	-	208 - 1Ø RATED; QUANTITY = 1																									

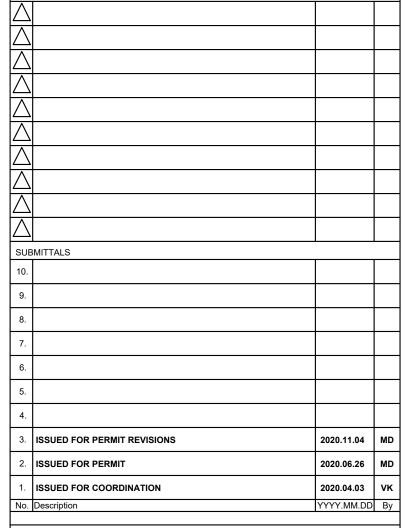
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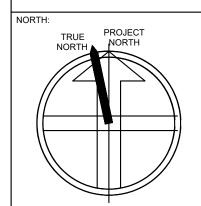
1. ALL STARTERS TO BE COMPLETE WITH EXTERNAL OVERLOAD RESET PUSH BUTTONS.

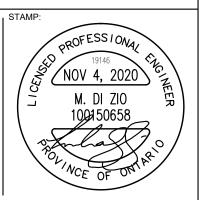
2. REFER TO ELECTRICAL FLOOR PLANS, PANEL SCHEDULES, AND SINGLE LINE DIAGRAM FOR ELECTRICAL REQUIREMENT SUCH AS FUSE SIZE, CIRCUIT, BRANCH FEEDER, BREAKER REQUIREMENT.

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EQUIPMENT SCHEDULES 1

Drawn By Checked By SL/KL MD

SCHEDULE OF VIBRATION ISOLATION											
EQUIPMENT	MANUFACTURER TYPE OF BASE & TYPE OF ISOLATION STATIC DEFLECTION (IN) REMARKS										
IN-LINE FANS	VIBRO ACOUSTICS	-	SHR	1	1/2" THICK RUBBER (NEOPRENE) GROMMET AT HANGAR ROD CONNECTION						
CONDENSING UNIT	VIBRO ACOUSTICS	-	NSN	1.5	UNIT MOUNTED ON NEOPRENE PAD ON CONCRETE PAVERS						

NOTES:

1. SHR - SPRING HANGERS

			SCHEDULE OF	GRILLES	S AND DIFF	FUSERS	
TYPE	MANUFACTURER	MODEL	DESCRIPTION	VOLUME CONTROL	FINISH	OPTIONS	REMARKS
А	E.H. PRICE	SCD	SQUARE CONE DIFFUSER	YES	TO ARCH. DIRECTION	SIZE: 24"x24" (600mm x 600mm) FRAME: 31 SURFACE MOUNT	REFER TO FLOOR PLANS FOR NECK SIZE AND AIRFLOWS.
В	E.H. PRICE	SCD	SQUARE CONE DIFFUSER	YES	TO ARCH. DIRECTION	SIZE: 12"x12" (300mm x 300mm) FRAME: 31 SURFACE MOUNT	REFER TO FLOOR PLANS FOR NECK SIZE AND AIRFLOWS.
С	E.H. PRICE	80	EGG CRATE	YES	TO ARCH. DIRECTION	DUCTED: F BORDER	REFER TO FLOOR PLANS FOR SIZE OF GRILLES.
D	E.H. PRICE	520FF	LOUVERED SUPPLY GRILLE	YES	TO ARCH. DIRECTION	DOUBLE DEFLECTION STEEL CONSTRUCTION SURFACE MOUNT: F BORDER SPIRAL DUCT: SDF FRAME L BLADE ORIENTATION FIRE RATED	REFER TO FLOOR PLANS FOR SIZE OF GRILLES.
E	E.H. PRICE	530FF	LOUVERED SUPPLY GRILLE 45° DEFLECTION	YES	TO ARCH. DIRECTION	STEEL CONSTRUCTION SURFACE MOUNT: F BORDER L BLADE ORIENTATION FIRE RATED	REFER TO FLOOR PLANS FOR SIZE OF GRILLES.
F	E.H. PRICE	SCD	SQUARE CONE DIFFUSER	TO ARCH. DIRECTION	SIZE: 12"x12" (300mm x 300mm) FRAME: 31 SURFACE MOUNT	REFER TO FLOOR PLANS FOR NECK SIZE AND AIRFLOWS.	

NOTES

- 1. CONFIRM FINISH WITH ARCHITECT PRIOR TO ORDER
- 2. REFER TO DRAWINGS FOR QUANTITIES.

SCHEDULE OF BOILERS

		NO.				SIZE	WEIGHT	INPUT	HEATING	NET AHRI	FLOW	ΛТ	HEAD	VENT	RELIEF		ELECTRICAL		
TAG	SYSTEM	REQ' D	LOCATION	MANUFACTURER	MODEL	(H x W x D)	(LBS)	MIN/MAX (MBH)	CAPACITY (MBH)	RATING (MBH)	RATE (GPM)	(°F)	LOSS (FT)	(IN)	VALVE (PSI)	POWER (V/Ø/Hz)	MCA	FLA	REMARKS
B-1	HEATING WATER	1	MECH 12	LOCHINVAR	WHB285N	43-3/8" X 16" X 19"	205	28.5/285	264	229	27	20	2.42	3	30	120/1/60	4.5	3.6	

NOTES

- 1. COMPLETE WITH CONCENTRIC VENT KIT.
- 2. COMPLETE WITH CONDENSATE NEUTRALIZATION KIT.
- 3. MODULATING BURNER WITH 10:1 TURNDOWN.
- 4. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

TAG	SYSTEM	NO. REQ'D	LOCATION	MANUFACTURER	MODEL	SIZE (IN) INLET X OUTLET	WEIGHT (LB)	FLOW (GPM)	HEAD (FT)	RPM	MOTOR BHP	MOTOR HP	VFD	POWER (V/Ø/Hz)	EMERGENCY POWER	REMARKS
P-1	HEATING WATER	1	MECH 12	GRUNDFOS	MAGNA3 65-150	2.5 X 2.5	53	26.4	40	1301	0.46	1.0	NO	208/1/60	NO	

NOTES

1.

					SO	CHEDULE OI	F MOTORIZ	ED UNIT HE	EATERS					
TAG	MANUFACTURER	MODEL	MODEL LOCATION CAPACITY AIRFLOW WATER EWT AT MOTOR (MBH) (CFM) (GPM) (°F) (°F) REMARKS									REMARKS		
						, ,		, ,	HP	RPM	VOLTAGE			
CUH-1	ENGINEERED AIR	CUH-4	VESTIBULE	31.8	370	3.07	180	20	1/20	1050	120/1/60	FULLY RECESSED ARRANGEMENT 16		

120/1/60 FULLY RECESSED ARRANGEMENT 16

 CORRIDOR, MUD ROOM
 16.2
 185
 1.62
 180
 20

NOTES

1. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS.

ENGINEERED AIR

				SCHEDULE OF W	ALLFINS			
TAG	MANUFACTURER	MODEL	ELEMENT	ENCLOSURE HEIGHT (IN)	CAPCITY (BTU/HR/FT)	AVERAGE WATER TEMPERATURE (°F)	NUMBER OF ROWS	REMARKS
WF-A	ENGINEERED AIR	WF-4C	1-1/4" COPPER TUBE W/ 4"X4" ALUMINUM FINS 50 FINS/FT	305	1,433	170	2	
WF-B	ENGINEERED AIR	WF-4C	1-1/4" COPPER TUBE W/ 4"X4" ALUMINUM FINS 50 FINS/FT	152	913	170	1	

NOTES

1. CAPACITIES BASED ON WATER TEMPERATURE DROP OF 20°F AND ENTERING AIR TEMPERATURE OF 70°F.

	SCHEDULE OF FANS																
						DESIGN							ELECT	RICAL			
TAG	MANUFACTURER	MODEL	LOCATION	AREA SERVED	WEIGHT (LBS)	AIRFLOW (CFM)	ESP (IN. WC)	RPM	ВНР	MOTOR HP	SPEED CONTROLLER	SOUND (SONES)	FLA (A)	POWER (V/Ø/Hz)	EMERGENCY POWER	REMARKS	
TEF-1	GREENHECK	BSQ-90	W/C 14	W/C 14, 20, 21, MECH 12	83	650	0.6	1589	0.25	1/3	YES	12.3	7.2	115/60/1	NO	INTERMATIC FM1D20A-120 ELECTRONIC TIMER SWITCH FOR TEF-1	
TEF-2	ZONEX	GM-3	VARIOUS	DIAPER CHANGE 10, LAUNDRY/MECH./JAN. 02, STAFF WASHROOM 03, UNIVERSAL WASHROOM 07	11	100	0.3	771	-	29W	NO	-	0.24	115/60/1	NO		

NOTES

- 1. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS
- 2. PROVIDE SPRING HANGER (EQUAL TO VIBRO-ACOUSTIC 'SHR') FOR INLINE FANS FOR VIBRATION ISOLATION.
- 3. BELT DRIVE FAN C/W SPEED CONTROLLER.

SCHEDULE OF DX SPLIT SYSTEMS

			OUTDOOR UNIT				INDO	OR UNIT			REFRIGERANT		ELEC ⁻	FRICAL			
SYSTEM	MANUFACTURER	MODEL	WEIGHT	SOUND PRESSURE LEVEL	MODEL	WEIGHT	AIRFLOW	RATED COOLING CAPACITY	RATED HEATING CAPACITY (17°F)	SOUND PRESSURE LEVEL	TYPE	ľ	MCA	MOCP (OUTDOOR)	POWER	EMERGENCY POWER	REMARKS
			(LBS)	(dBA)		(LBS)	(CFM)	(MBH)	(MBH)	(dB)	ITPE	INDOOR	OUTDOOR		(V/PH/HZ)		
AC-1 & CU-1	MITSUBISHI	PU-A12NKA7	92	46	PKA-A12HA7	29	320-370-425	5.8 - 12.0	5.5 - 18.0	36-40-43	R410-A	1	11	28	208/1/60	NO	HEAT PUMP OPERATION

NOTE

- 1. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS.
- 2. PROVIDE WIRED ZONE CONTROLLER MOUNTED ON WALL.
- 3. PROVIDE CONDENSATE PUMP KIT C/W INTERLOCK TO EVAPORATOR UNIT.
- 4. UNIT TO HAVE MULITPLE FAN SPEED SETTINGS. AIRFLOW AND SOUND PRESSURE DATA NOTED ABOVE IS FOR HIGH SPEED.
- 5. LOW AMBIENT COOLING KIT C/W WIND GUARD

No. Description NORTH: TRUE PROJECT NORTH

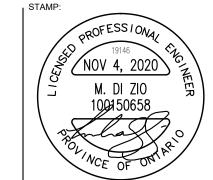
3. ISSUED FOR PERMIT REVISIONS

ISSUED FOR COORDINATION

ISSUED FOR PERMIT

APPLICATION NUMBER:

APPLICATION NUMBER:



2020.11.04 MD

2020.06.26 MD

2020.04.03 VKYYYY.MM.DD By



219031 - DENISON DAYCARE CENTRE

EQUIPMENT SCHEDULES 2

2020.03.19

Scale Drawn By Checked By N.T.S. SL/KL MD

Project Number

*M*6.1

			PLUMBING FIXTURE SCHEDULE					
OCATION	PRODUCTS	DESCRIPTION	ACCESSORIES	SAN	HW	CW	VEN T	NOTES/COMMENT
WC-1	TOILET	AMERICAN STANDARD BABY DEVORO #2315228.020 HET TOILET, 3128.001, 4019.228, 260 MM HIGH, VITREOUS CHINA, ROUND FRONT BOWL, WHITE FINISH, FLOOR MOUNTED, SIPHON JET FLUSH ACTION, 4.8 L (1.28 US GAL) PER FLUSH, RAISED SANITARY BAR, 254 MM X 229 MM (10" X 9") WATER SURFACE, TWO (2) PIECE, 'SPEED CONNECT' TANK ASSEMBLY, SIPHON JET FLUSH ACTION, RAISED SANITARY BAR, UNLINED TANK, UNBOLTED TANK COVER, 51 MM (2") FLUSH VALVE WITH FLAPPER, 'PILOT VALVE' WATER CONTROL (WITHOUT FLOAT) FOR QUIET REFILL, 254 MM (10") ROUGH-IN, ROUND FRONT BOWL, 51 MM (2") FULLY GLAZED INTERNAL TRAPWAY, FLOOR OUTLET, BOLT CAPS, TOILET SEAT NOT INCLUDED, DESIGNED FOR CHILDREN.	AMERICAN STANDARD BABY DEVORO #5001G055.020 BABY TOILET SEAT, HEAVY DUTY, FOR ROUND BOWL, OPEN FRONT, WHITE FINISH SOLID POLYPROPYLENE PLASTIC WITH EVERCLEAN SURFACE, LESS COVER, TOP MOUNT HINGES, POST NUTS AND WASHERS. MCGUIRE #LFH172BV TOILET SUPPLY, CHROME PLATED FINISH POLISHED BRASS, COMMERCIAL DUTY 1/4 TURN BALL VALVE ANGLE STOPS, 13 MM (1/2") I.D. INLET X 127 MM (5") LONG RIGID HORIZONTAL INTEGRAL COPPER SWEAT TUBE NIPPLES, COMBINATION V.P. LOOSE KEY HANDLES, ESCUTCHEON AND FLEXIBLE COPPER RISERS. PROVIDE FLOOR FLANGE, (SAME MATERIAL AS THE CONNECTING PIPE DRAIN), WITH ALL BRASS BOLTS AND WITH RUBBER GASKET.	4"	-	1/2"		FOR CHILDREN
WC-2	TOILET	AMERICAN STANDARD CADET PRO RIGHT HEIGHT ELONGATED #215AA.104.020 TOILET, 3517A.101, 4188A.104, 419 MM HIGH, VITREOUS CHINA ELONGATED BOWL, WHITE FINISH, FLOOR MOUNTED, SIPHON JET FLUSHING, 4.8 L (1.28 US GAL) PER FLUSH, RAISED SANITARY BAR AND FOUR (4) POINTS TANK STABILIZATION, 229 MM X 203 MM (9" X 8") WATER SURFACE, TWO (2) PIECE, 'SPEED CONNECT' TANK ASSEMBLY, OVERSIZED 76 MM (3") FLUSH VALVE WITH FLAPPER, METAL SHANK FILL VALVE, 305 MM (12") ROUGH-IN, ELONGATED BOWL, 54 MM (2-1/8") FULLY GLAZED INTERNAL TRAPWAY, FLOOR OUTLET, BOLT CAPS	CENTOCO #820STS.001 TOILET SEAT, EXTRA HEAVY DUTY, FOR ELONGATED BOWL, OPEN FRONT, SOLID PLASTIC, WITH COVER, STAINLESS STEEL CHECK HINGES, METAL FLAT WASHERS STAINLESS STEEL POSTS AND NUTS. MCGUIRE #LFH172BV TOILET SUPPLY, CHROME PLATED FINISH POLISHED BRASS, COMMERCIAL DUTY 1/4 TURN BALL VALVE ANGLE STOPS, 13 MM (1/2") I.D. INLET X 127 MM (5") LONG RIGID HORIZONTAL INTEGRAL COPPER SWEAT TUBE NIPPLES, COMBINATION V.P. LOOSE KEY HANDLES, ESCUTCHEON AND FLEXIBLE COPPER RISERS. PROVIDE FLOOR FLANGE, (SAME MATERIAL AS THE CONNECTING PIPE DRAIN), WITH ALL BRASS BOLTS AND WITH RUBBER GASKET.	4"	-	1/2"		BARRIER FREE
L-1	BASIN	AMERICAN STANDARD AQUALYN #0476.028.020 BASIN, 3 HOLES, 4" (102 MM) CENTER, 533 MM X 445 MM X 175 MM (21" X 17-1/2" X 6-7/8") HIGH, OVAL, VITREOUS CHINA, WHITE FINISH, SELF-RIMMING / DROP-IN, FRONT OVERFLOW, FAUCET LEDGE	AMERICAN STANDARD MONTERREY #5500170.002 TWO HANDLES FAUCET, POLISHED CHROME FINISH, CAST BRASS BODY, AERATOR OUTLET, CAST BRASS SPOUT, 95 MM (3-3/4") PROJECTION REACH, 4" (102 MM) LONG VANDAL RESISTANT RED AND BLUE INDEXED WRIST BLADE HANDLES. LAWLER #TMM-1070, BELOW DECK MECHANICAL WATER MIXING VALVE, BRONZE BODY, TEMPERATURE ADJUSTING DIAL, 10 MM (3/8") INLETS AND OUTLET COMPRESSION FITTINGS, HIGH TEMPERATURE THERMOSTATIC LIMIT STOP, SHUT-OFF WITH AUTOMATIC RESET WHEN TEMPERATURE EXCEEDS 120 °F (48.8 °C), INTEGRAL CHECKS, OFFER TEMPERATURE RANGE FROM FULL COLD THROUGH 46 °C (114.8 °F). PROVIDE TEE, ADAPTORS AND FLEX. COPPER TUBING TO SUIT INSTALLATION. PROVIDE TEMPERED WATER TO HOT SIDE OF FAUCET. MCGUIRE #155WC OFFSET GRID DRAIN, CAST BRASS ONE PIECE TOP, 17 GA. (1.5 MM) TUBULAR 32 MM (1-1/4") TAILPIECE. MCGUIRE #LFH170BV FAUCET SUPPLIES, CHROME PLATED FINISH POLISHED BRASS, COMMERCIAL DUTY 1/4 TURN BALL VALVE ANGLE STOPS, 13 MM (1/2") I.D. INLET X 127 MM (5") HORIZONTAL EXTENSION TUBES, CONVERTIBLE 1/4 TURN/LOOSE KEY HANDLES, ESCUTCHEON AND FLEXIBLE COPPER RISERS. MCGUIRE #8872C P-TRAP, HEAVY CAST BRASS ADJUSTABLE BODY, WITH SLIP NUT, 32 MM (1-1/4") SIZE, SHALLOW WALL FLANGE AND SEAMLESS TUBULAR WALL BEND	1-1/4"	1/2"	1/2"		
L-2	BASIN	AMERICAN STANDARD MURRO WITH EVERCLEAN #0954.004EC.020/0059.020EC.020 BASIN, 3 HOLES, 4" (102 MM) CENTER, 540 MM X 520 MM X 165 MM (21-1/4" X 20-1/2" X 6-1/2") HIGH, VITREOUS CHINA, WHITE FINISH, FOR CARRIER WITH CONCEALED ARMS, REAR OVERFLOW, RECESSED SELF-DRAINING FAUCET LEDGE. AMERICAN STANDARD 0059.020EC.020 SEMI-PEDESTAL P-TRAP COVER	AMERICAN STANDARD MONTERREY #7500170.002 TWO HANDLES FAUCET, POLISHED CHROME FINISH, BRASS, 1.9 LPM (0.5 GPM) PRESSURE COMPENSATING AERATOR OUTLET, RIGID/LIMITED SWING GOOSENECK SPOUT, 127 MM (5") PROJECTION REACH, 4" (102 MM) LONG VANDAL RESISTANT RED AND BLUE INDEXED WRIST BLADE HANDLES. LAWLER #TMM-1070, BELOW DECK MECHANICAL WATER MIXING VALVE, BRONZE BODY, TEMPERATURE ADJUSTING DIAL, 10 MM (3/8") INLETS AND OUTLET COMPRESSION FITTINGS, HIGH TEMPERATURE THERMOSTATIC LIMIT STOP, SHUT-OFF WITH AUTOMATIC RESET WHEN TEMPERATURE EXCEEDS 120 °F (48.8 °C), INTEGRAL CHECKS, OFFER TEMPERATURE RANGE FROM FULL COLD THROUGH 46 °C (114.8 °F). PROVIDE TEE, ADAPTORS AND FLEX. COPPER TUBING TO SUIT INSTALLATION. PROVIDE TEMPERED WATER TO HOT SIDE OF FAUCET. MCGUIRE #155A OPEN GRID DRAIN, CAST BRASS ONE PIECE TOP, 17 GA. (1.5 MM) TUBULAR 32 MM (1-1/4") TAILPIECE. MCGUIRE #LFH170BVRB FAUCET SUPPLIES, CHROME PLATED FINISH POLISHED BRASS, COMMERCIAL DUTY 1/4 TURN BALL VALVE ANGLE STOPS, 13 MM (1/2") I.D. INLET X 127 MM (5") HORIZONTAL EXTENSION TUBES, CONVERTIBLE 1/4 TURN/LOOSE KEY HANDLES, ESCUTCHEON AND STAINLESS STEEL BRAIDED FLEXIBLE RISERS. MCGUIRE #8872C P-TRAP, HEAVY CAST BRASS ADJUSTABLE BODY, WITH SLIP NUT, 32 MM (1-1/4") SIZE, SHALLOW WALL FLANGE AND SEAMLESS TUBULAR WALL BEND. WATTS #WCA-411-CA-481 BASIN CARRIER, CONCEALED ARMS, WALL FLANGES TO ATTACH TO BACKING PLATE SECURED IN WALL WITH LOCKING DEVICE AND LEVELLING SCREWS, HEAVY GAUGE STEEL UPRIGHTS WITH INTEGRAL WELDED FEET.	1-1/4"	1/2"	1/2"		BARRIER FREE
S-1	SINK	SINK INTEGRAL TO MILLWORK BY CLIENT	AMERICAN STANDARD MONTERREY #6409170.002 TWO HANDLES FAUCET, POLISHED CHROME FINISH, BRASS, 5.7 LPM (1.5 GPM) PRESSURE COMPENSATING AERATOR OUTLET, RIGID/SWING GOOSENECK SPOUT, 203 MM (8") PROJECTION REACH, 4" (102 MM) LONG VANDAL RESISTANT RED AND BLUE INDEXED WRIST BLADE HANDLES. LAWLER #TMM-1070, BELOW DECK MECHANICAL WATER MIXING VALVE, BRONZE BODY, TEMPERATURE ADJUSTING DIAL, 10 MM (3/8") INLETS AND OUTLET COMPRESSION FITTINGS, HIGH TEMPERATURE THERMOSTATIC LIMIT STOP, SHUT-OFF WITH AUTOMATIC RESET WHEN TEMPERATURE EXCEEDS 120 °F (48.8 °C), INTEGRAL CHECKS, OFFER TEMPERATURE RANGE FROM FULL COLD THROUGH 46 °C (114.8 °F). PROVIDE TEE, ADAPTORS AND FLEX. COPPER TUBING TO SUIT INSTALLATION. PROVIDE TEMPERED WATER TO HOT SIDE OF FAUCET. MCGUIRE #LFBV170 FAUCET SUPPLIES, CHROME PLATED FINISH POLISHED BRASS, COMMERCIAL DUTY 1/4 TURN BALL VALVE ANGLE STOPS, 13 MM (1/2") I.D. INLET X 127 MM (5") HORIZONTAL EXTENSION TUBES, CONVERTIBLE 1/4 TURN/LOOSE KEY HANDLES, ESCUTCHEON AND FLEXIBLE COPPER RISERS. MCGUIRE #8912CB P-TRAP, HEAVY CAST BRASS ADJUSTABLE BODY, WITH SLIP NUT, 38 MM (1-1/2") SIZE, BOX FLANGE AND SEAMLESS TUBULAR WALL BEND.	1-1/2"	1/2"	1/2"		
S-2	SINK	FRANKE COMMERCIAL #LBD6408-1/3 DOUBLE BOWL COUNTERTOP MOUNT SINK, 3 HOLES, 8" (203 MM) CENTER, 794 MM (31-1/4") WIDE X 521 MM (20-1/2") LONG X 203 MM (8") HIGH DEEP, SPILLWAY, COUNTER MOUNTED, BACKLEDGE, GRADE 18-10 20 GA. (0.9 MM) TYPE 302 STAINLESS STEEL, SELF-RIMMING, SATIN FINISH RIM AND BOWLS, MOUNTING KIT PROVIDED, FULLY UNDERCOATED TO REDUCE CONDENSATION AND RESONANCE, FACTORY APPLIED RIM SEAL, 3-1/2" (89 MM) CRUMB CUP WASTE ASSEMBLY WITH 1-1/2" (38 MM) TAILPIECE.	AMERICAN STANDARD COLONY SOFT #4275500.002 TWO HANDLES FAUCET, CHROME PLATED FINISH, METAL DECK PLATE, AERATOR OUTLET, CAST BRASS SWING SPOUT, 210 MM (8-1/4") PROJECTION REACH. MCGUIRE #LFBV170 FAUCET SUPPLIES, CHROME PLATED FINISH POLISHED BRASS, COMMERCIAL DUTY 1/4 TURN BALL VALVE ANGLE STOPS, 13 MM (1/2") I.D. INLET X 127 MM (5") HORIZONTAL EXTENSION TUBES, CONVERTIBLE 1/4 TURN/LOOSE KEY HANDLES, ESCUTCHEON AND FLEXIBLE COPPER RISERS. MCGUIRE #8912CB P-TRAP, HEAVY CAST BRASS ADJUSTABLE BODY, WITH SLIP NUT, 38 MM (1-1/2") SIZE, BOX FLANGE AND SEAMLESS TUBULAR WALL BEND.	1-1/2"	1/2"	1/2"		
LT-1	SINK	FIAT #FL1100 SINGLE BOWL LAUNDRY SINK, 3 HOLES, 4" (102 MM) CENTER, 584 MM (23") WIDE X 584 MM (23") LONG X 340 MM (13-3/8") HIGH DEEP, FLOOR MOUNTED, MOLDED STONE, WHITE, WHITE BAKED ENAMEL STEEL LEGS, STRAINER AND INTEGRAL DRAIN AND PLUG, 1 1/2" (38 MM) TAILPIECE.	AMERICAN STANDARD COLONY PRO #7074240.002 TWO HANDLES FAUCET, POLISHED CHROME FINISH, METAL DECK PLATE, 1/4 TURN WASHERLESS CERAMIC DISC VALVE, AERATOR OUTLET, SPOUT WITH HOSE END, 191 MM (7-1/2") PROJECTION REACH. MCGUIRE #LFBV170 FAUCET SUPPLIES, CHROME PLATED FINISH POLISHED BRASS, COMMERCIAL DUTY 1/4 TURN BALL VALVE ANGLE STOPS, 13 MM (1/2") I.D. INLET X 127 MM (5") HORIZONTAL EXTENSION TUBES, CONVERTIBLE 1/4 TURN/LOOSE KEY HANDLES, ESCUTCHEON AND FLEXIBLE COPPER RISERS. MCGUIRE #8912CB P-TRAP, HEAVY CAST BRASS ADJUSTABLE BODY, WITH SLIP NUT, 38 MM (1-1/2") SIZE, BOX FLANGE AND SEAMLESS TUBULAR WALL BEND.	1-1/2"	1/2"	1/2"	1-1/4"	
JS-1	MOP SINK	STERN WILLIAMS #MTB-2424 SQUARE SERVICE / MOP SINK, 610 MM (24") WIDE X 610 MM (24") LONG X 254 MM (10") HIGH DEEP, FLOOR MOUNTED, TERRAZZO COMPOSED OF PEARL GRAY MARBLE CHIPS AND PORTLAND CEMENT GROUND SMOOTH, SEALED TO RESIST STAIN FINISH, CAST BRASS DRAIN WITH STAINLESS STEEL STRAINER, 3"(75 MM) OUTLET. COMPLETE WITH DRAIN GASKET	FIAT #830-AA WALL MOUNTED TWO HANDLES FAUCET, CHROME PLATED FINISH, WALL MOUNT 8"(203 MM) CENTERSET, CAST BRASS BODY, 22.7 LPM (6.0 GPM) UNRESTRICTED HOSE END OUTLET, 152 MM (6") PROJECTION SPOUT WITH ATMOSPHERIC VACUUM BREAKER AND BUCKET HOOK, 237 MM (9-5/16") FROM WALL TO OUTLET REACH, CROSS HANDLE, TOP BRACE. STERN WILLIAMS T-35 HOSE AND WALL HOOK 36" (914 MM) LONG HOSE WITH 3/4" (19 MM) CHROME COUPLING, STAINLESS STEEL WALL BRACKET. STERN WILLIAMS #T-40 MOP HANGER, STAINLESS STEEL #4 FINISH, 24" (610 MM) LONG WITH 3 RUBBER SPRING LOADED CLIPS. STERN WILLIAMS BP BACK SPLASH PANEL 20 GA. (0.9 MM) TYPE 304 STAINLESS STEEL. PROVIDE P-TRAP SAME MATERIAL AS THE CONNECTING PIPE DRAIN.	3"	3/4"	3/4"	1-1/2"	PROVIDE BACKFLO PREVENTER

TAG	MANUFACTURER	MODEL	LOCATION	SIZE DIA. x HEIGHT	STORAGE CAPACITY	GAS INPUT	GAS PRESSURE	RECOVERY	VENTS	POWER	REMARKS
				(IN.)	(USGAL)	(MBH)	(IN.W.C.)	(GPH @ 100F RISE)	(IN.)	(V/PH/HZ)	
DHWT-1	A.O. SMITH	BTH-120	MECH. ROOM	27-3/4" x 53-1/2"	60	120	7.00	138	3	115/1/60	

1 CONDENSING TYPE HEATER

2 PROVIDE CONCENTRIC VENT TERMINATION KIT FOR ROOF PENETRATION.

				SCH	EDULE OF PLUM	BING PUMPS							
TAG	TAG SYSTEM NO. REQ'D OPERATION LOCATION MANUFACTURER MODEL FLOW (GPM) HEAD (FT) RPM MOTOR POWER (V/Ø/Hz) EMERGENCY POWER REMARKS												
DHWRP	DHW RECIRCULATION	1	RECIRC	MECHANICAL ROOM	ARMSTRONG	ASTRO 220SSU	1	5	3400	33 W	115/1/60	NO	

SCHEDULE OF EXPANSION TANKS ACCEPTANCE SIZE (DIA. x LENGTH) VOLUME (USGAL) MANUFACTURE VOLUME (USGAL) TAG SYSTEM LOCATION MODEL TYPE REMARKS HEATING WATER HORIZONTAL DIAPHRAGM ET-1 12"Ø x 22" AMTROL AX-15-DD 8.6 JAN/MECH 3.2 VERTICAL DIAPHRAGM DOMESTIC HOT

10.5"Ø x 13"

4.5

NOTES

ET-2

WATER

1. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS.

JAN/MECH

WATTS

PLT-12

SCHEDULE OF AIR SEPARATORS										
TAG	SYSTEM	LOCATION	MANUFACTURER	MODEL	FLOW RATE (GPM)	OUTLET SIZE (IN)	WEIGHT (KG)	REMARKS		
AS-1	HEATING WATER	MECH. ROOM	S.A. ARMSTRONG	VAS-2	42	2	70			

NOTES

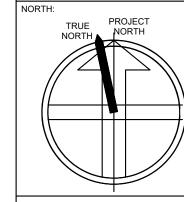
1. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS.

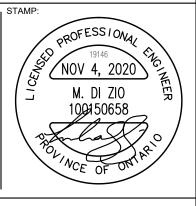
	SCHEDULE	OF DRAINS					
TAG	MANUFACTURER & MODEL	REMARKS					
FD-1	JR. SMITH 2005A-PO50	FINISHED AREAS					
FD-2	JR. SMITH 2030-PO50	UNFINISHED AREAS					
HD	JR. SMITH 2030-3591-PO50	HUB DRAIN					
RD	1010-E-R-C-CID	FOR CONVENTIONAL ROOF					
TD	JR. SMITH 9930 WITH 9870-451-SSPA GRATE	TRENCH TO BE ENCASED BY CONCRETE					
NOTES							
1. ALL DRAINS TO BE PRIMED AND VENTED AS PER OBC							

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3.	ISSUED FOR PERMIT REVISIONS	2020.11.04	MD				
2.	ISSUED FOR PERMIT	2020.06.26	MD				
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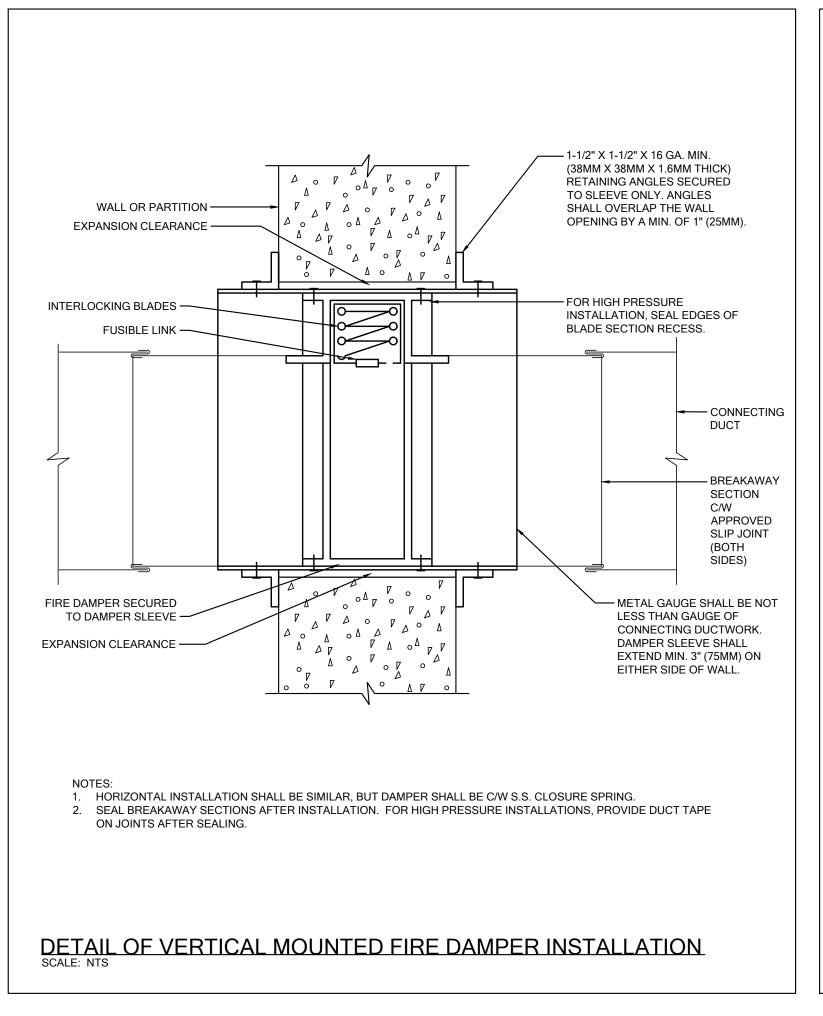


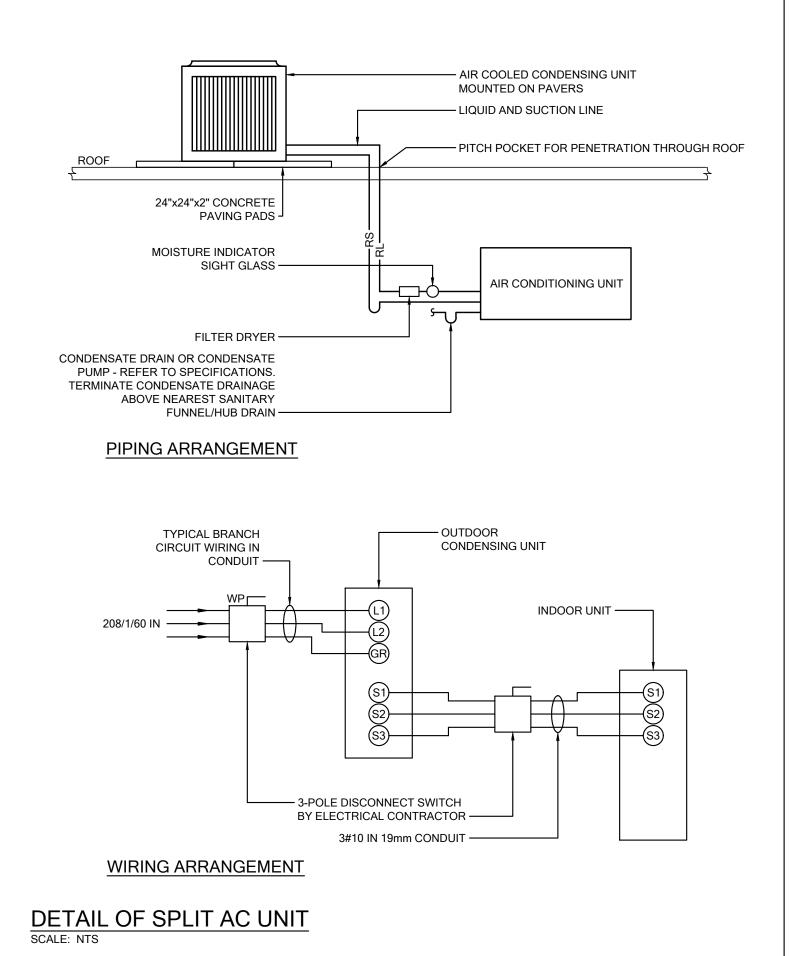
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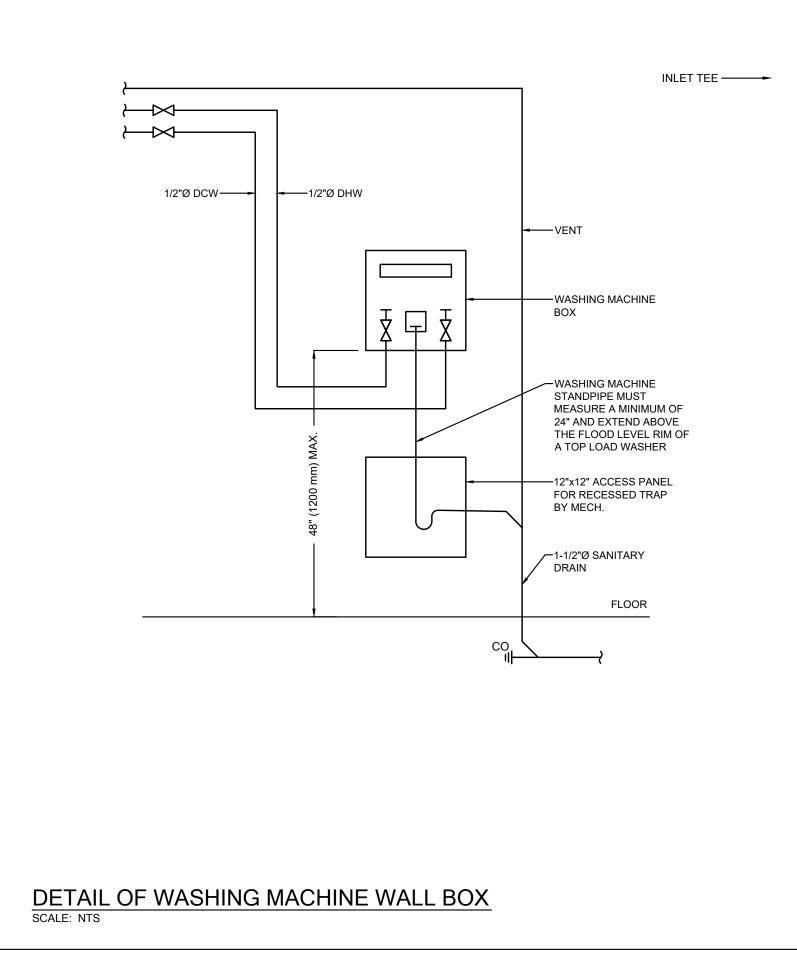
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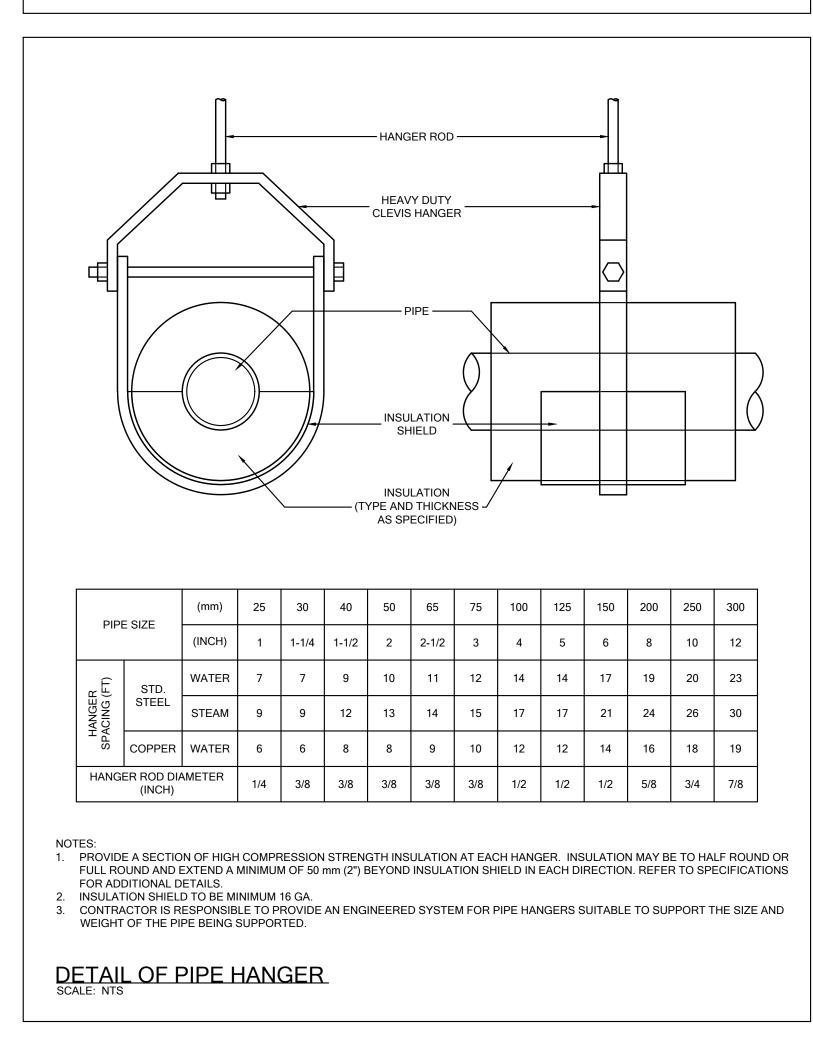
EQUIPMENT SCHEDULES 3

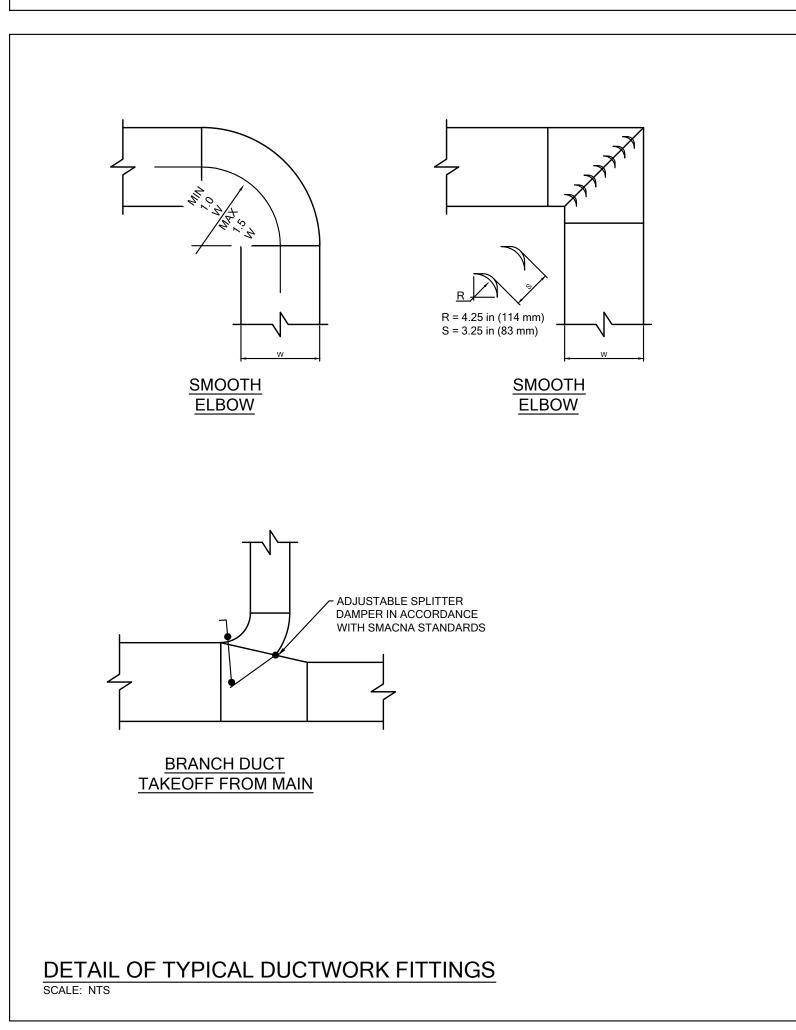
Drawn By Checked By SL/KL MD

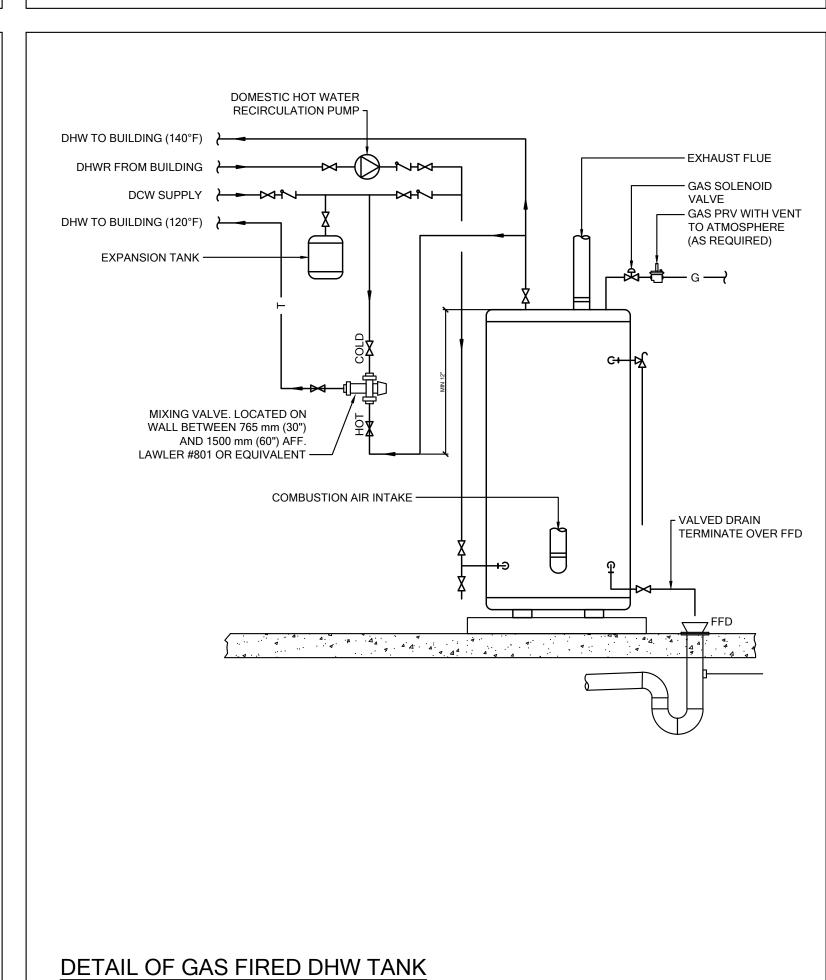


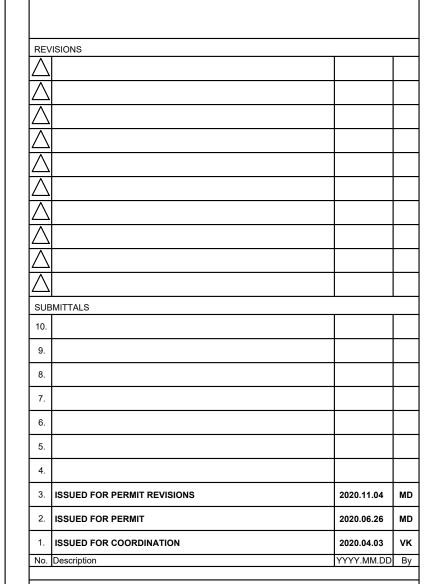






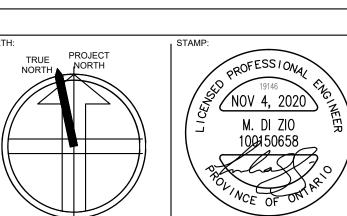






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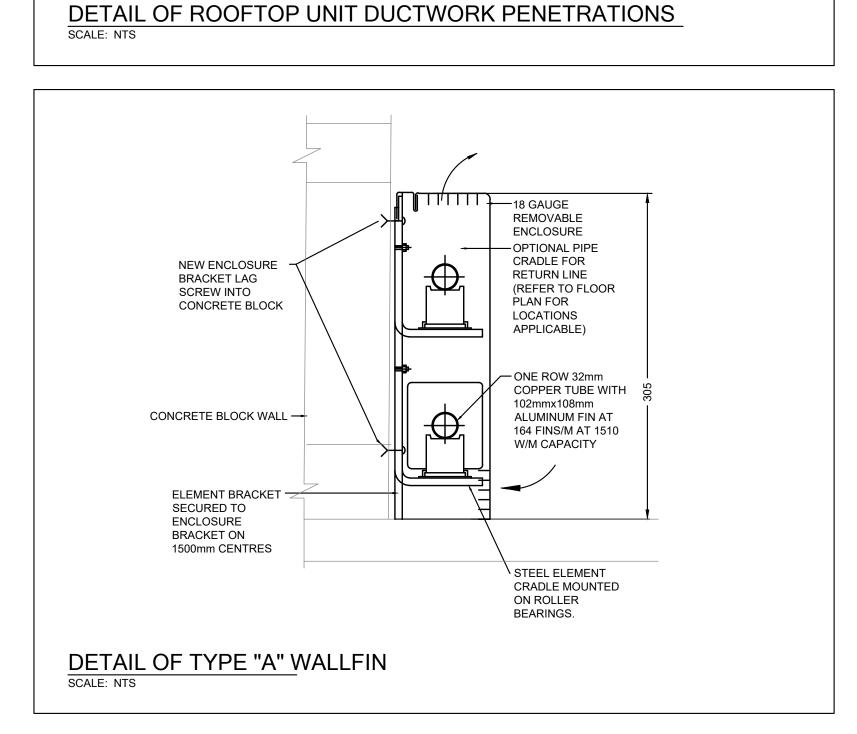


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DETAILS 1 2020.03.19

SL/KL MD



FLUSHING

37 MM BRANCH OFF TEE WITH

DRAINAGE VALVE ---

— STRAINER (NOT REQUIRED

FOR ELECTROMAGNETIC

TYPE WATER METER

MAX 40"

BYPASS

VALVE —

WATER METER DETAIL SCALE: NTS

CONDENSATE -

S/A DUCTWORK REFER— TO PLANS.

GAS-

VALVE

PRIVATE WATER

FLANGE ---

GATE VALVE —

VALVE ----

\ VALVE

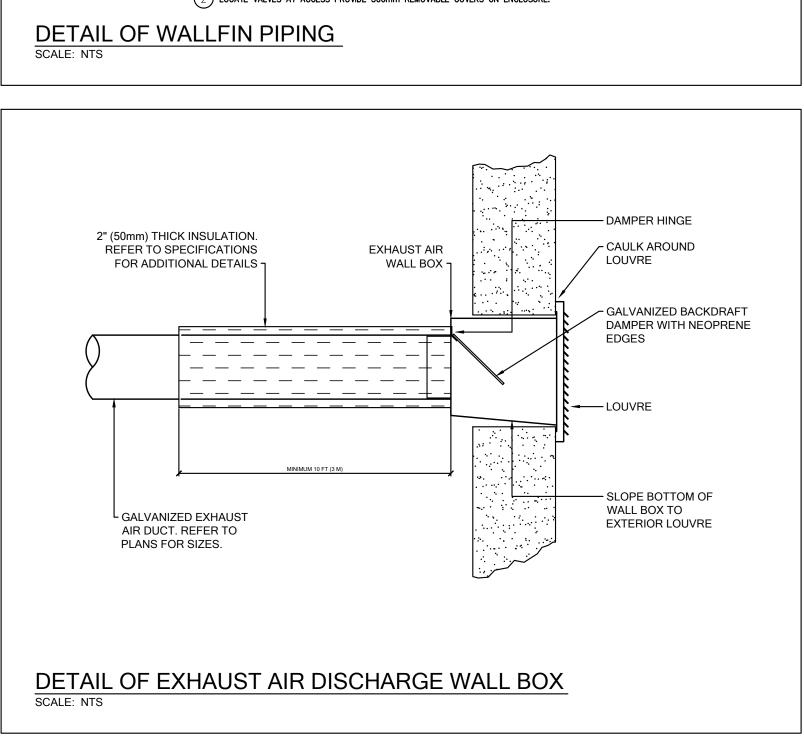
— ACOUSTIC LINING.

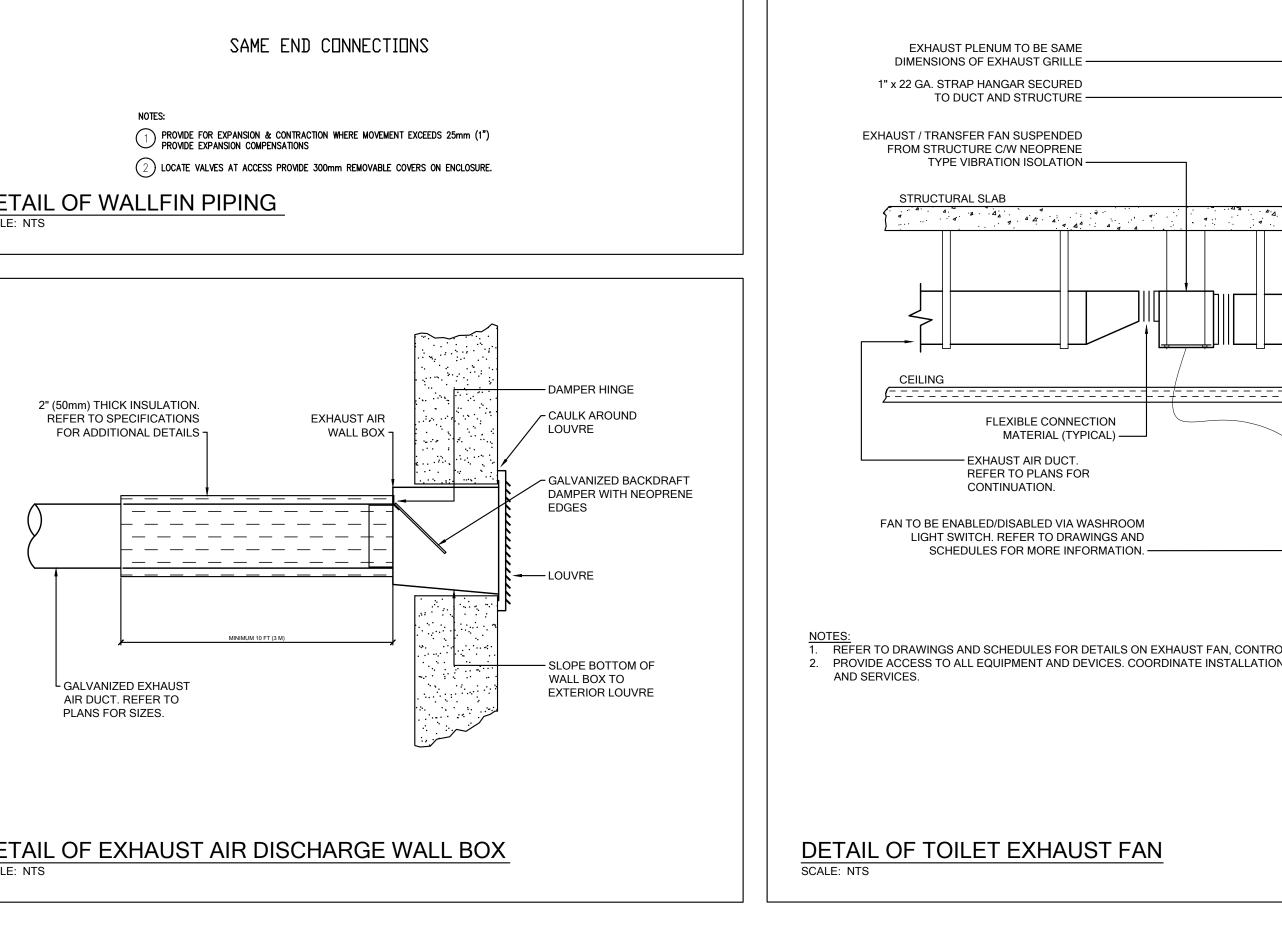
— R/A C/W BIRDSCREEN.

– FLOOR DRAIN (4" MINIMUM)

-ROOFTOP UNIT

PREVENTOR





STRUCTURE

- DRAW BANDS SNUG, WITHOUT CRUSHING FLEXIBLE DUCT

CEILING

~ 1D MINIMUM; 3D PREFERRED

> SUSPEND ELBOW

CIRCUIT BALANCING VALVE (TYPICAL) -

UNION (TYPICAL)

AIR VENT PIPED TO SCREWDRIVER OPERATOR ON FRONT OF ENCLOSURE (TYPICAL)

SLOPE UP

FLEXIBLE DUCT

PROVIDE DURABLE

ELBOW SUPPORT ~

1. WHEN LENGTH OF STRAIGHT DUCT UPSTREAM OF DIFFUSER

IS LESS THAN 3D, PROVIDE AN EQUALIZING GRID

DIFFUSER -

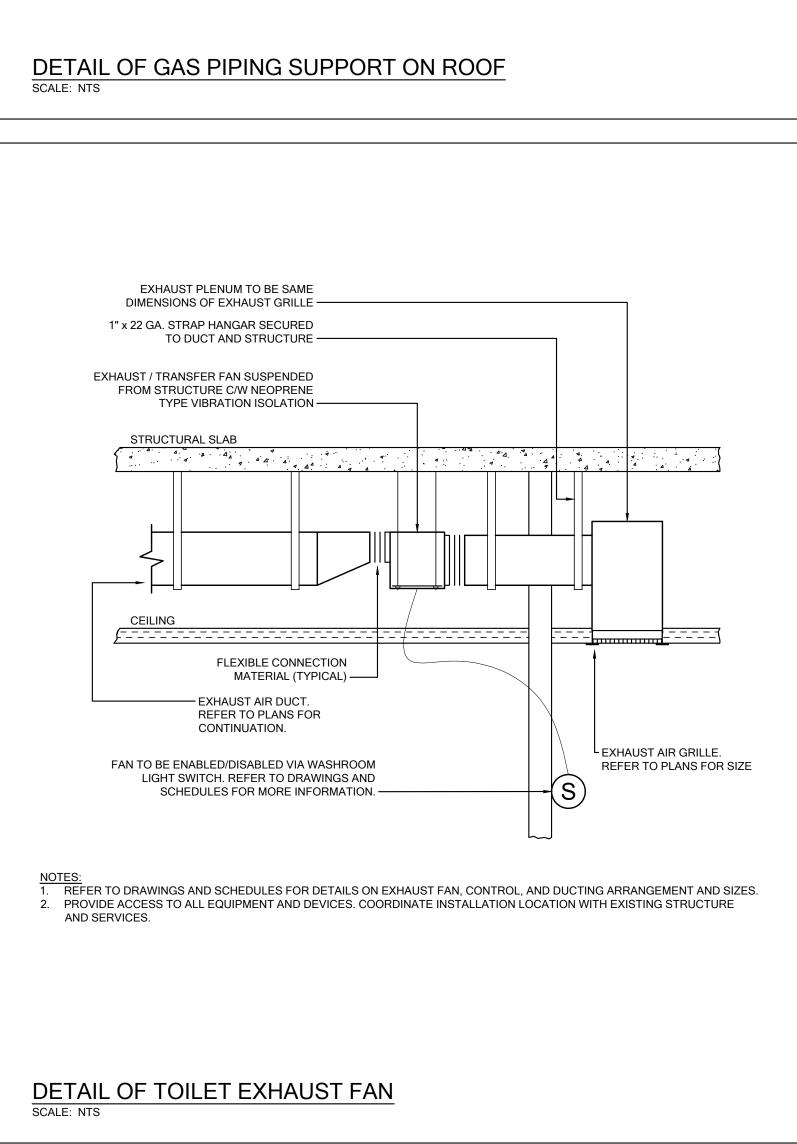
DETAIL OF FLEXIBLE DUCTWORK CONNECTION TO DIFFUSER

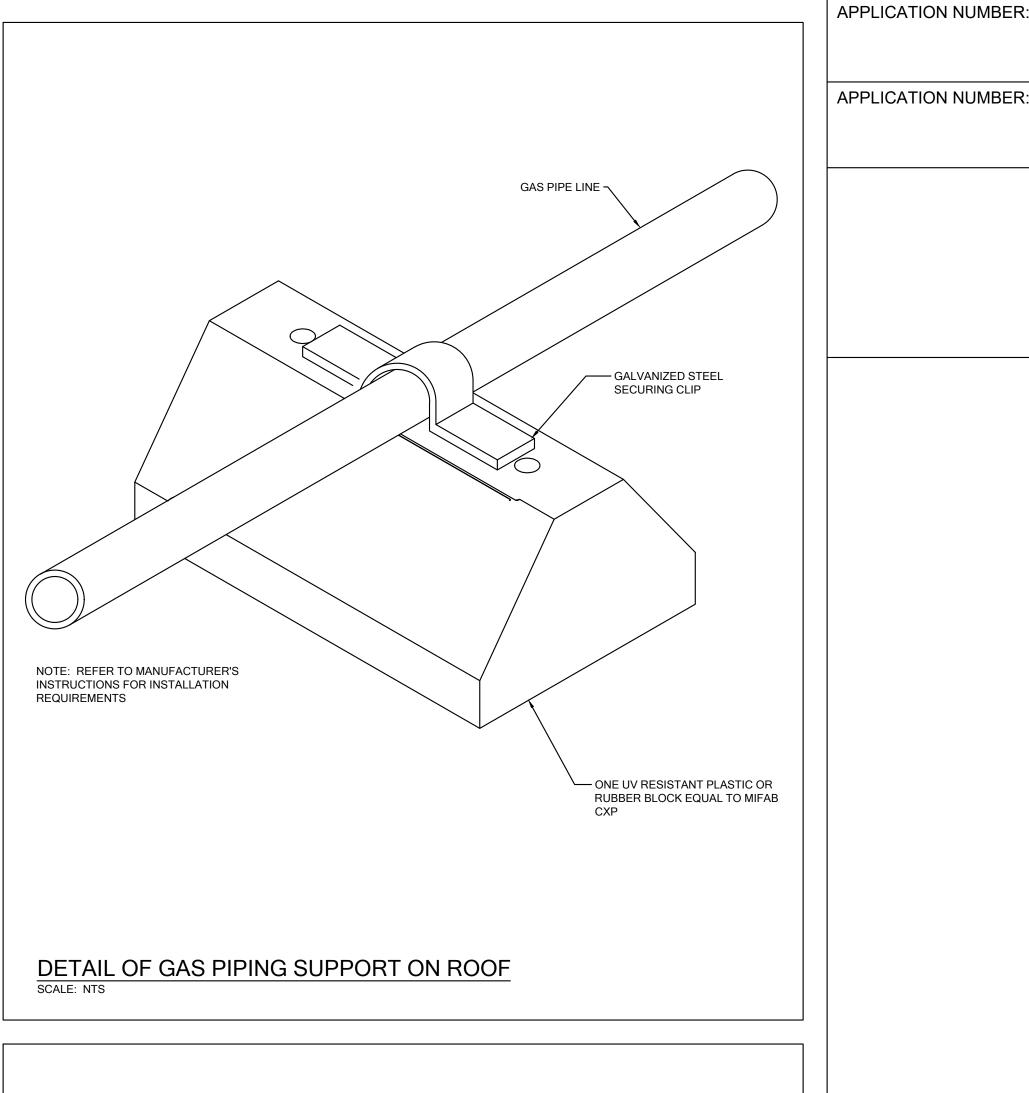
SEE NOTE 1

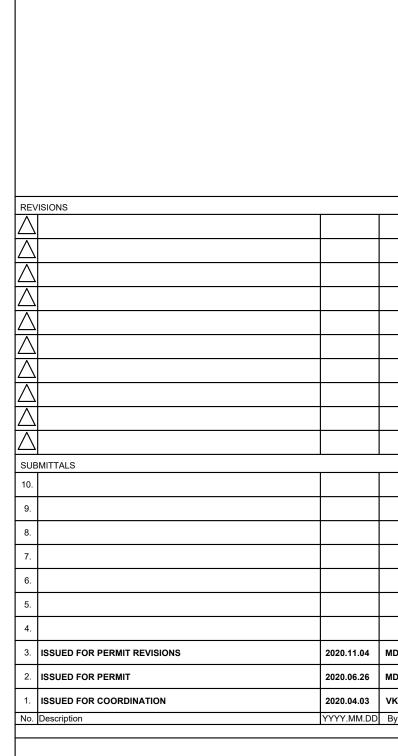
MAXIMUM LENGTH 6FT ¬

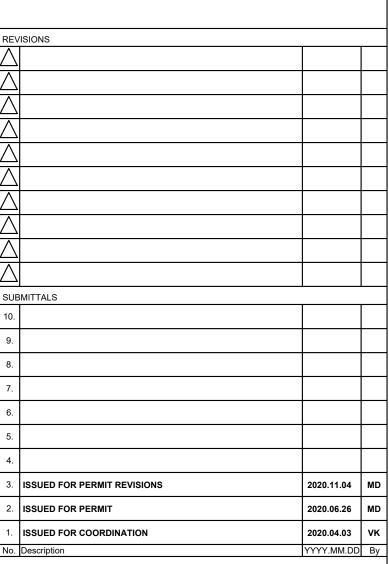
RIGID DUCT (AS REQUIRED)

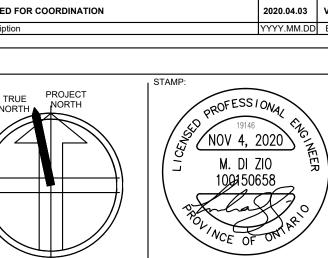
SPIN ON COLLAR WITH BALANCING DAMPER ^J













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