

NOTES:

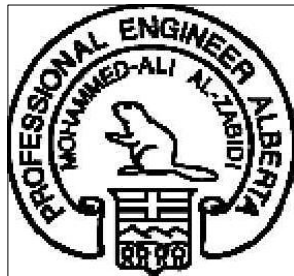
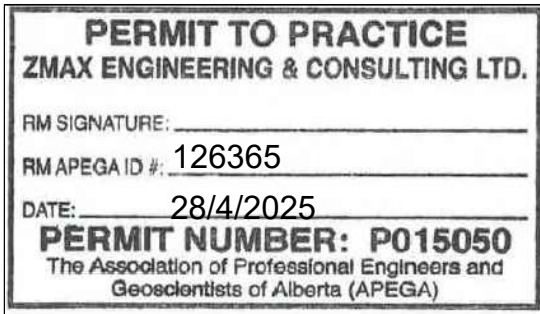
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CONTACT:

Mohammed-Ali Al-Zabidi, P.Eng. MBA,PMP



SEAL:

TITLE:

LIGHTING LAYOUT

CLIENT/PROJECT:

Kidzonla Childcare Centre
Unit14-100 Real Martin Dr.
Fort McMurray,AB

DATE: 28 April 2025

DESCRIPTION:
Issue For BP:

REVISION#
02

SCALE

1:100

PAGE NO:

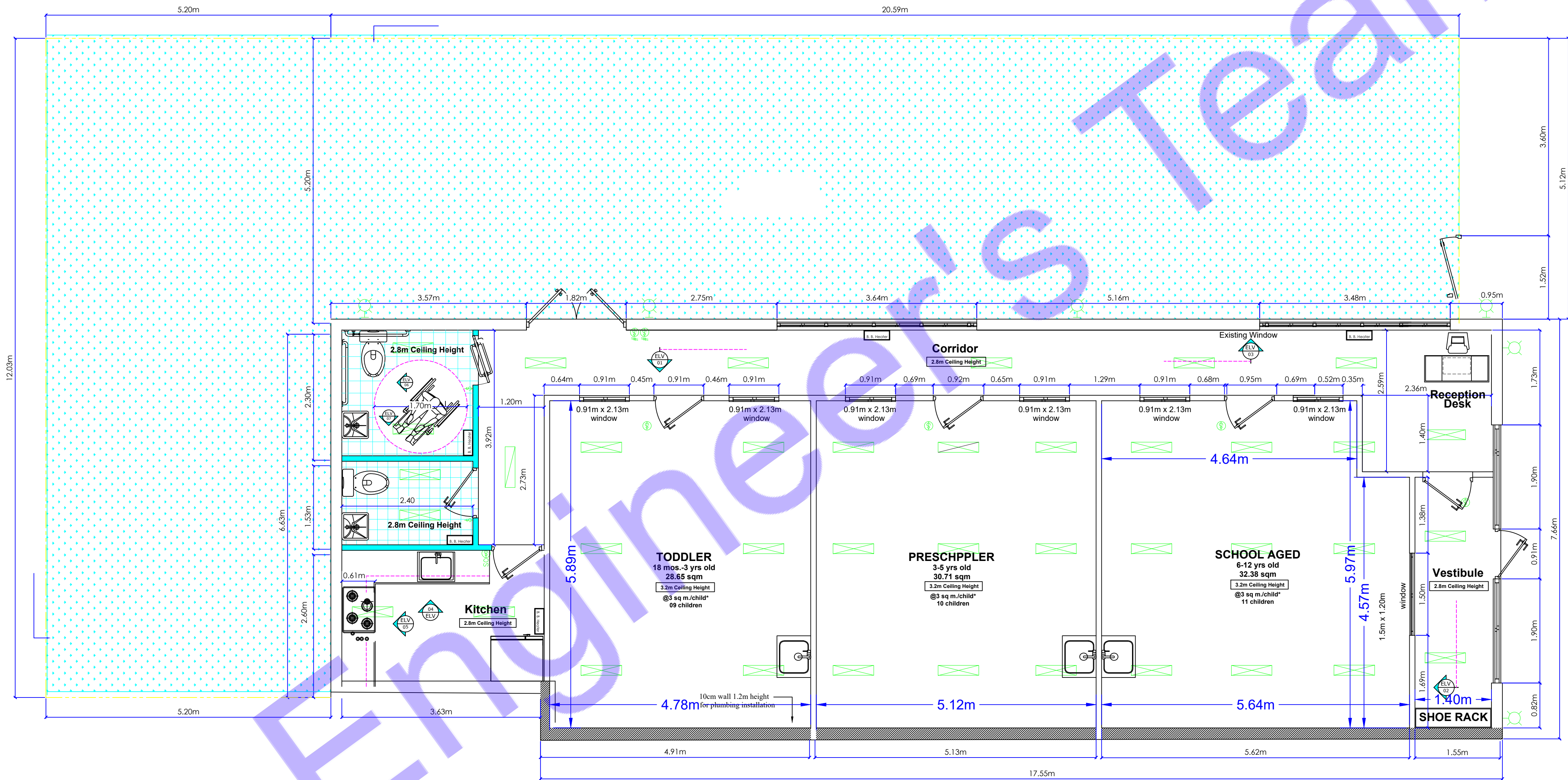
E100

PREPARED BY: IU

APPROVED BY: MA

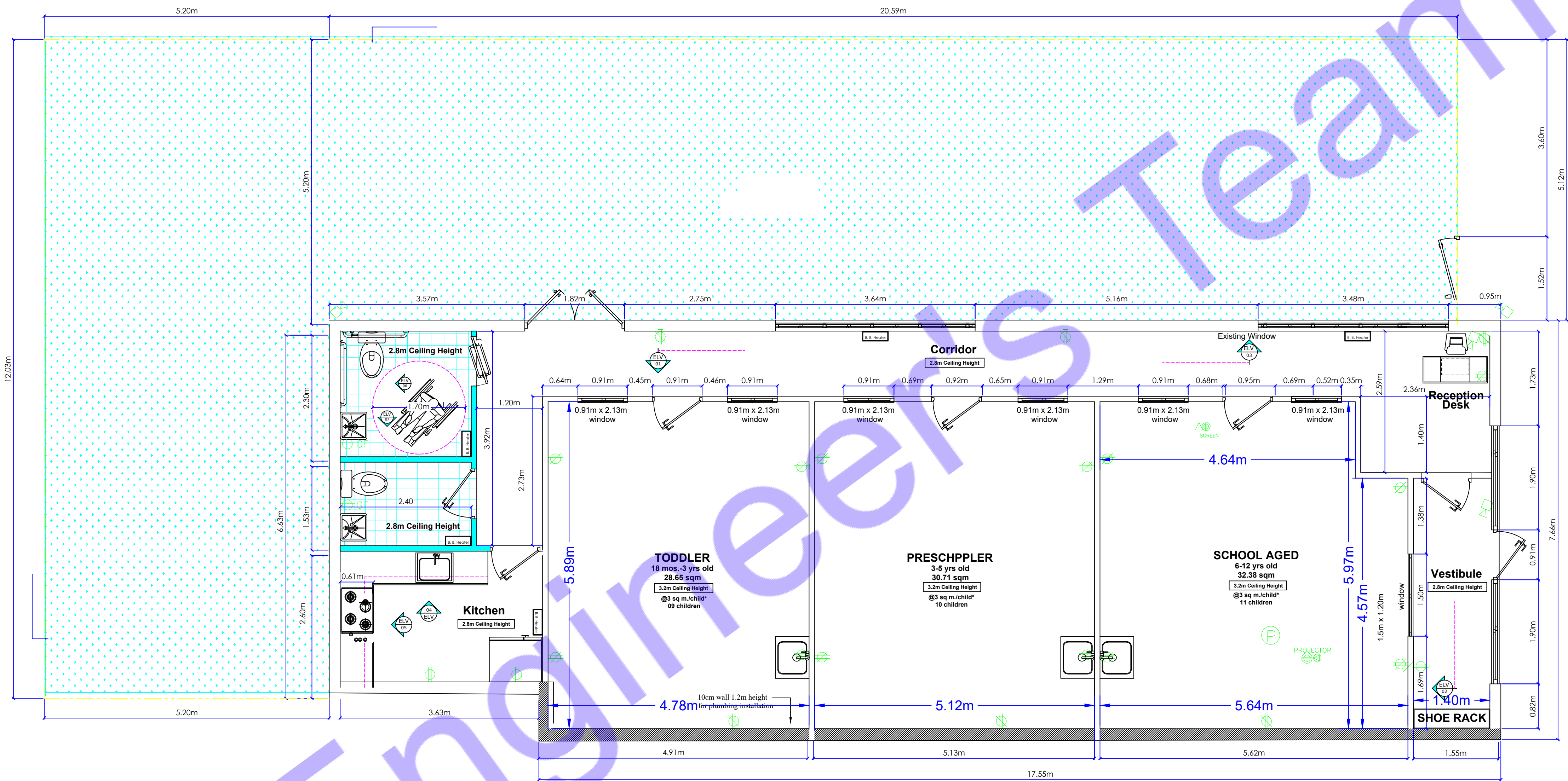
LIGHTING PLAN SYMBOLS

	T BAR LIGHTING
	LINE VOLTAGE SWITCH (120V TO 347V)
	DUPLEX 5-15R RECEPTACLE
	DUPLEX 5-15R RECEPTACLE C/W INTEGRAL GFCI PROTECTION
	DUPLEX 5-20R RECEPTACLE, T-SLOT
	Range outlet
	CAMERA
	PROJECTOR



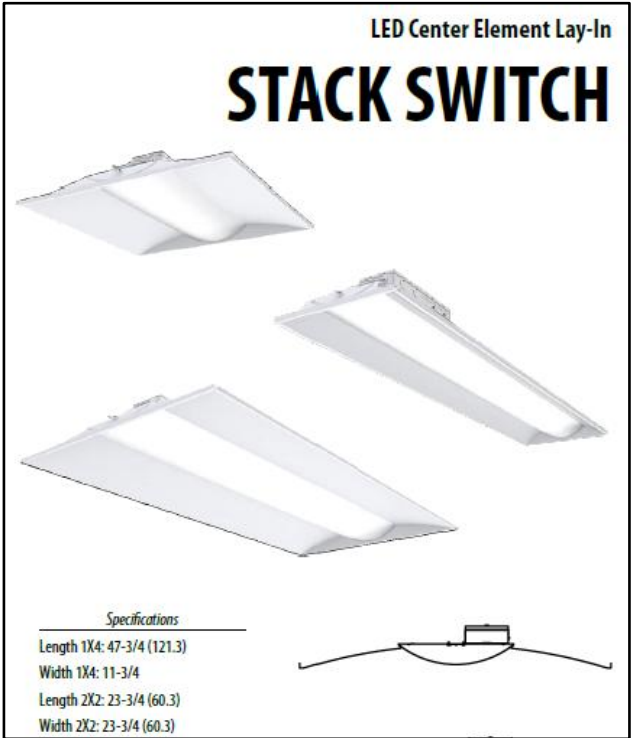
B.B. HEATER SCHEDULE

MARK	SERVING	NUMBER	WATTS	VOLTAGE	MAKE MODEL	NOTES	HEATER TYPE
BBH-1	BATHROOM ADA	1	900	120/60/1	ARTGOS 1005003687378224		BASEBOARD
BBH-2	BATHROOM	1	800	120/60/1	ARTGOS 1005003687378224		BASEBOARD
BBH-3	KITCHEN	1	1200	120/60/1	OFM1500BL OUE-OFM1500BL		BASEBOARD
BBH-4	CORRDOR	2	3000	120/60/1	OwKay izEuWSgwloStSluY		BASEBOARD



Notes:
1- Provide 120V AC for the power-operated exit doors & handicap power-operated washroom
2- Provide 120/240 V for electric range

Series	Size & Lumens	Switchable	Options
STAKS STAK Switchable	1X4 ALO6 Switchable Lumens - 4000LM, 5000LM, and 6000LM 2X2 ALO3 Switchable Lumens - 3000LM, 4000LM, and 5000LM 2X4 ALO6 Switchable Lumens - 4000LM, 5000LM, and 6000LM	SWW7 Switchable CCT - 35K, 40K, 50K	(BLANK) No Option * CP Chicago Plenum Rated * IE10WCP IE10WCP 10W Emergency backup, 10W * UVOLT 120-347 *



NOTES:

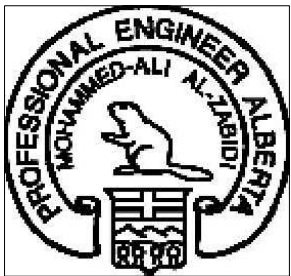
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SEAL:

TITLE:

ELECTRICAL OUTLET LAYOUT

CLIENT/PROJECT:
Kidzonia Childcare Centre
Unit14-100 Real Martin Dr.
Fort McMurray,AB

DATE: 28 April 2025

DESCRIPTION:
Issue For BP:

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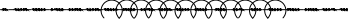
MAIN PANEL															
Panel Location-															
Voltage (Phase-Ground/Phase-Phase)		120	208	Source of Supply-From Service Disconnect/Meter											
Phase-		1		Wire-				3							
Rated Amps-		145.92		AIC-				10k							
MCCB		200 Amps MCCB		Mounting-				Wall Surface							
Circuit	Description	New/ Existing	Load Type	Breaker Size	Poles	Wire Size	A		Wire Size	Poles	Breaker Size	Load Type	New/ Existing	Description	Circuit
1	LIGHTING LOAD	N		15	1	#14	900	8000	#3	1	75		N	HAVC	2
3	WATER HEATER	N		20	1	#12	2000	600	#12	1	20		N	Coffee Maker/Toaster	4
5	Refrigerator	N		20	1	#12	600	800	#12	1	20		N	Microwave Oven	6
7	Dishwasher	N		20	1	#12	800	200	#12	1	20		N	CT-TODDLER	8
9	CT-PRESCHOOLER	N		20	1	#12	200	200	#12	1	20		N	CT-SCHOOL AGED	10
11	CT-ADA & BATHROOM	N		20	1	#12	50	200	#12	1	20		N	CT-KICHEN	12
13	CT-CORRIDOR	N		20	1	#12	50	400	#12	1	20		N	CT-VEGTIBULE	14
15	BBH-1	N		20	1	#12	900	1200	#12	1	20		N	BBH-3	16
17	BBH-2	N		20	1	#12	800	6000	#6	1	50		N	BBH-4	18
19	SPARE	--		--		--	--	--	--	--	--		--	SPARE	20
21	SPARE	--		--		--	--	--	--	--	--		--	SPARE	22
23	SPARE	--		--		--	--	--	--	--	--		--	SPARE	24
25	SPARE	--		--		--	--	--	--	--	--		--	SPARE	26
				Connected Load (W)		23900									
				Connected Amps		199									
				Main Type and Amps Rating		200 Amps MCCB									
Demand Load Calculation															
Load Classification		Connected Load	Demand Factor	Estimated Demand											
Lighting - Dwelling Unit		900	125%	1125											
Water Heater - Dwelling Unit		2000	100%	2000											
Receptacle		13000	65%	8450											
Cooling		8000	100%	8000											
Pump		0	125%	0											
Other		0	100%	0											
Demand Load		23900		19575											
Demand Amps				163											

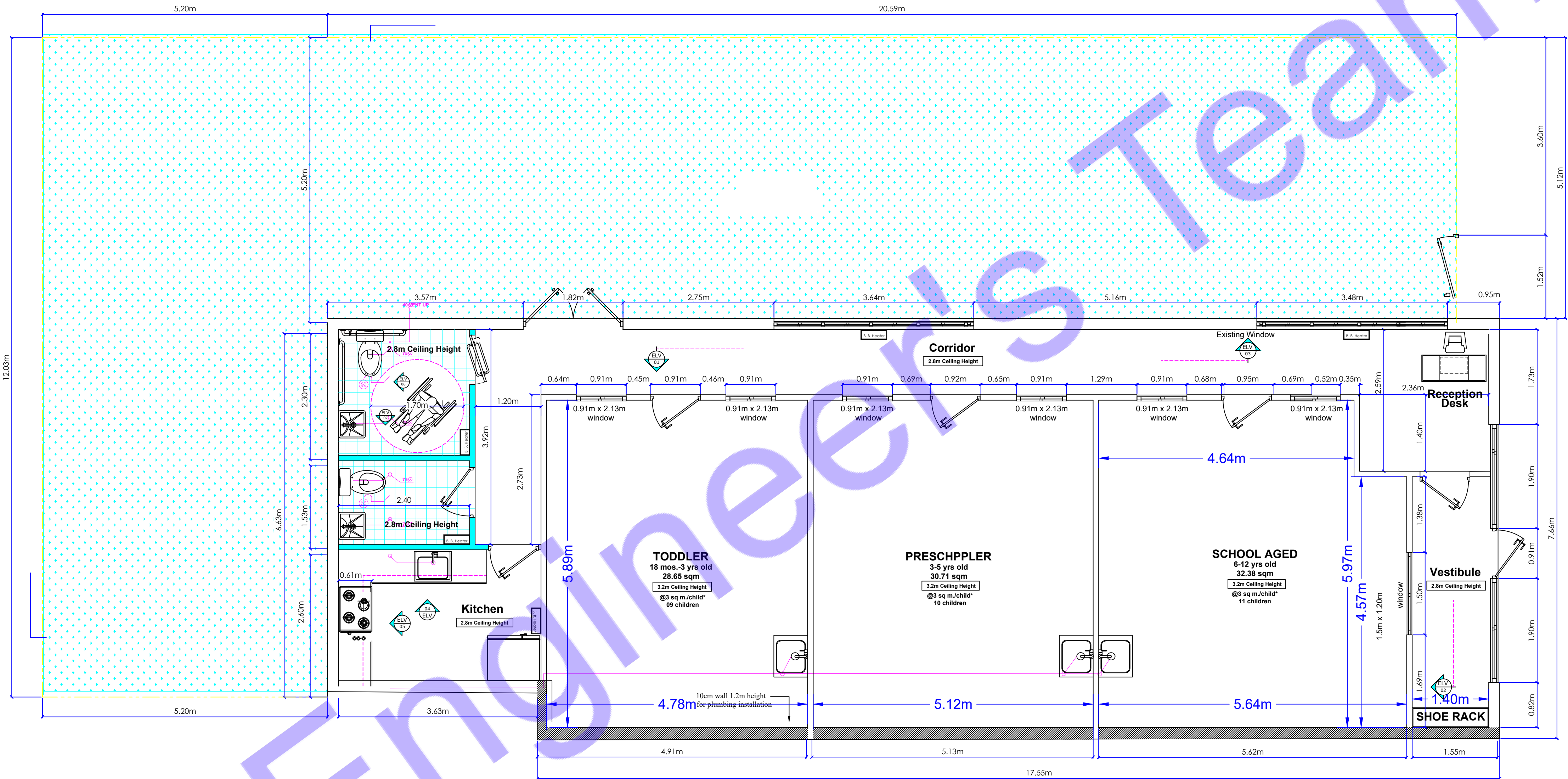
120V/208 Tree Phase 3W
SERVICE BY UTILITY CO
COORDINATE LOCATION
WITH UTILITY

ELECTRICAL METER
Single Phase

SAFETY SWITCH
200 A
MCCB
Single Phase

M - PANEL
120V/208V
SINGLE PHASE
3W

PLUMBING LEGEND	
	HEAT TRACE AND INSULATE PIPE
	COLD WATER
	HOT WATER
	SANITARY LINE BELOW GRADE
	SANITARY WASTE



NOTES:

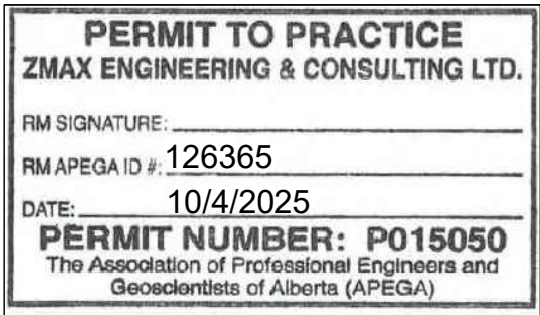
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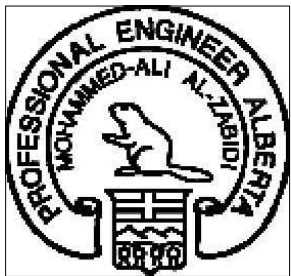
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CONTACT:

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SEAL:



TITLE:

DRAINAGE LAYOUT

CLIENT/PROJECT:

Kidzonia Childcare Centre
Unit14-100 Real Martin Dr.
Fort McMurray,AB

DATE: 10 April 2025

DESCRIPTION:
Issue For BP:

REVISION#
01

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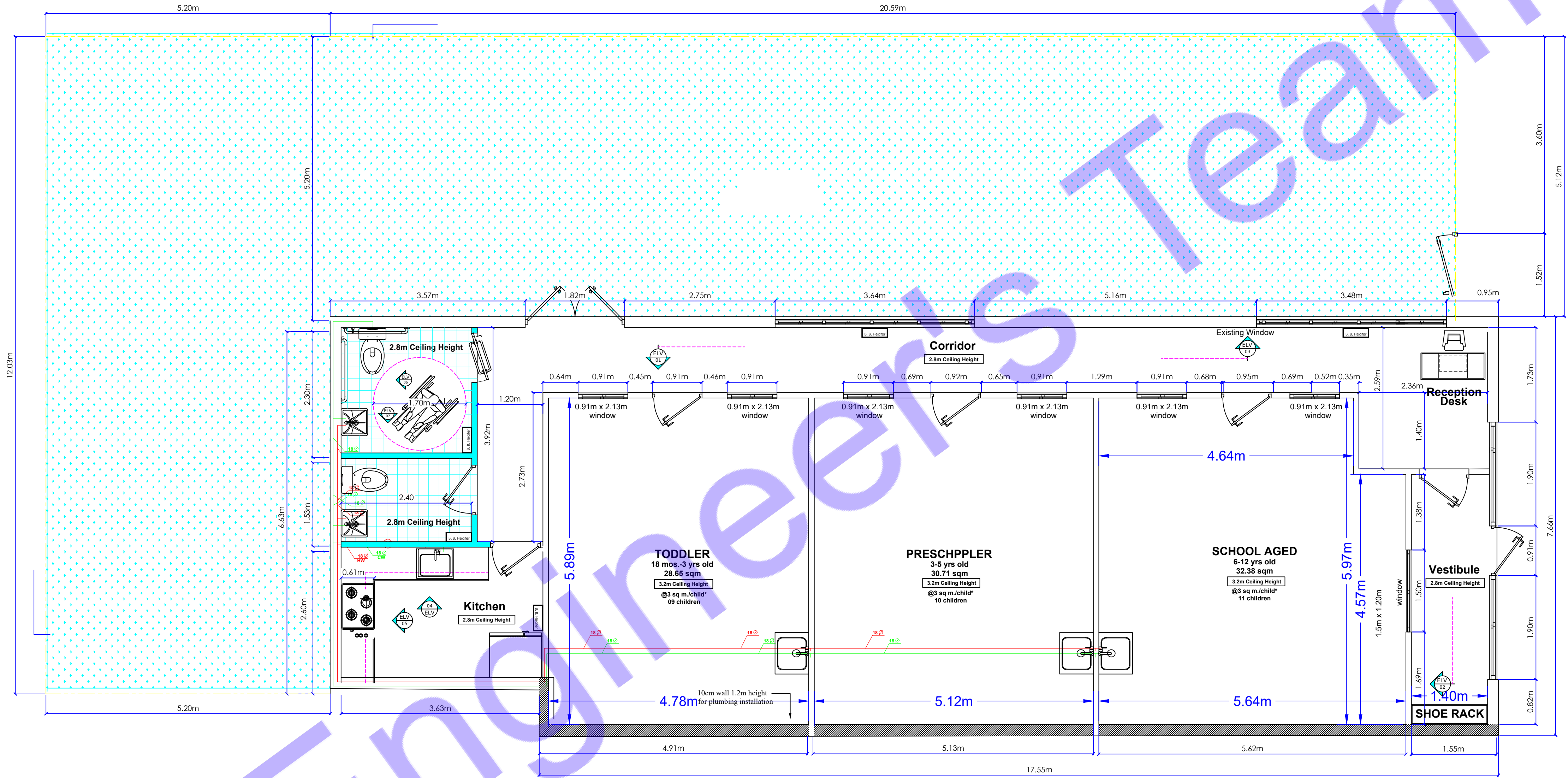
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M100

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APPROVED BY: MA

PLUMBING LEGEND	
	HEAT TRACE AND INSULATE PIPE
	COLD WATER
	HOT WATER
	SANITARY LINE BELOW GRADE
	SANITARY WASTE



NOTES:

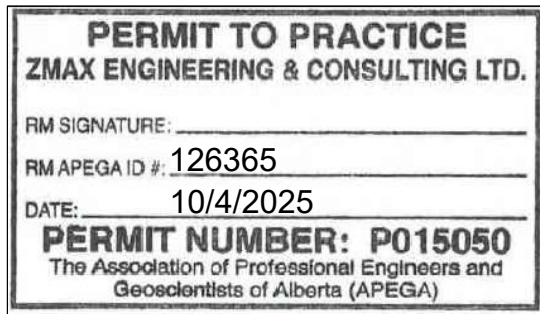
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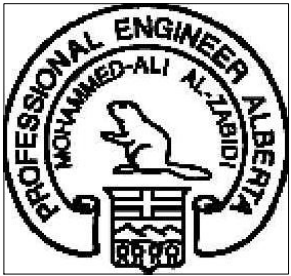
Phone:780-804-5959\780-880-7756

CONTACT:

Mohammed-Ali Al-Zabidi, P.Eng. MBA,PMP



SEAL:



TITLE:

HOT & COLD WATER LINES

CLIENT/PROJECT:

Kidzonia Childcare Centre
Unit14-100 Real Martin Dr.
Fort McMurray,AB

DATE: 10 April 2025

DESCRIPTION:
Issue For BP:

REVISION#
01

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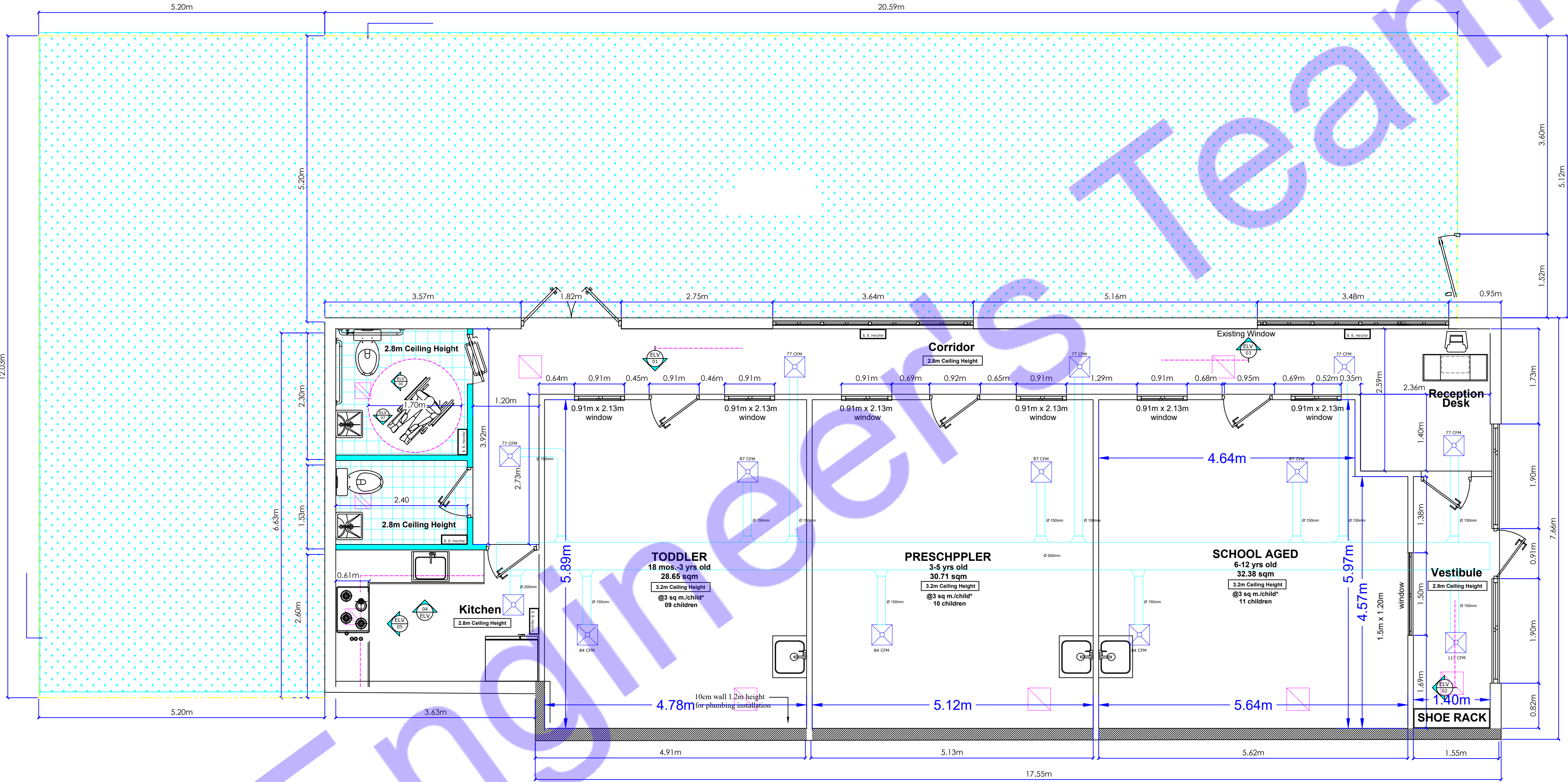
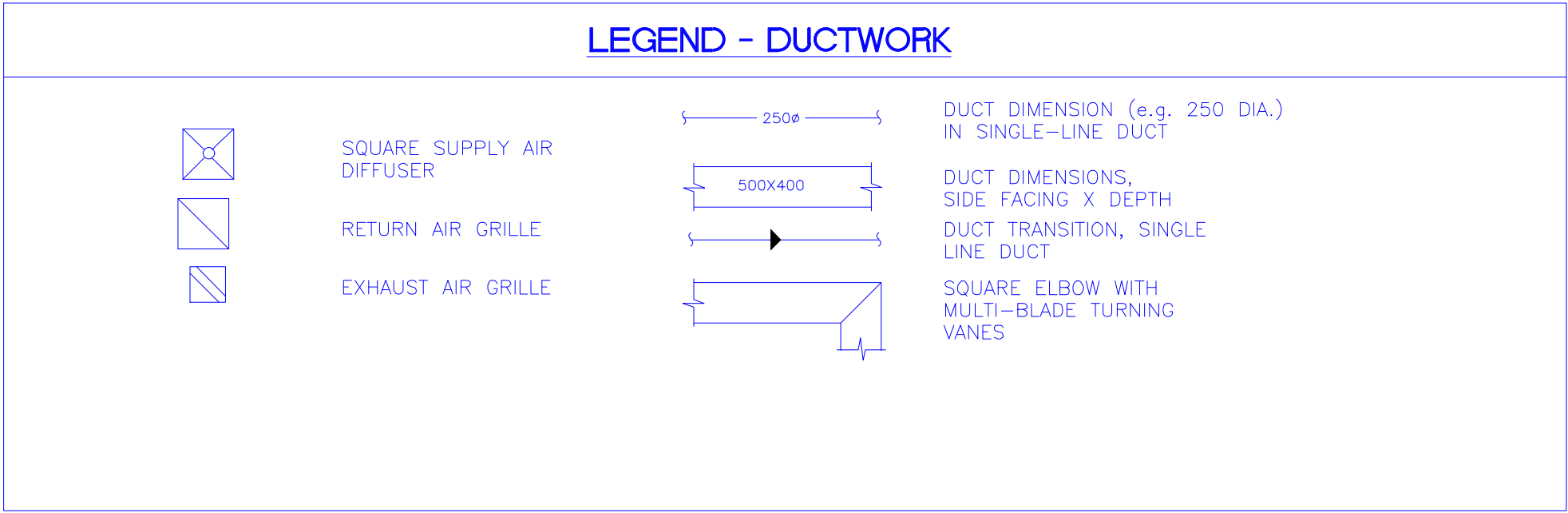
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M200

PREPARED BY: OS

APPROVED BY: MA



Notes:

1. Mechanical drawings shall be read in conjunction with architectural drawings and detailed elevations.
2. Dedicated MUA already installed for unit 14
3. Contractor to extend ducting as shown on HVAC plan
4. All fresh air requirements and exhaust rates as per ASHRAE 62.1

NOTES:

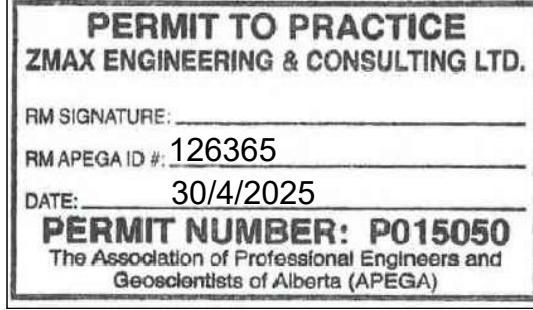
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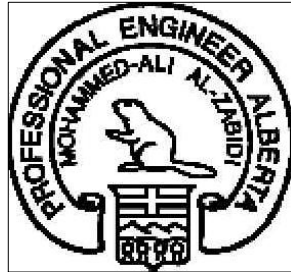
Phone:780-804-5959\780-880-7756

CONTACT:

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SEAL:



TITLE:

HVAC PLAN

CLIENT/PROJECT:

Kidzonia Childcare Centre
Unit14-100 Real Martin Dr.
Fort McMurray,AB

DATE: 30 April 2025

DESCRIPTION:
Issue For BP:

REVISION#
02

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M300

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APPROVED BY: MA



Designed By Engr. Al Amin (MEP Engineer | Director - Engineer's Team LTD)

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