CITY OF AVON

36080 CHESTER ROAD • AVON, OHIO 44011-1099 • (440) 937-7800 • FAX (440) 937-7824

Application for Building Permit ~ PERMIT PLAN REVIEW NUMBER_____

( ) Residential ( ) Commercial ( ) Industrial

The undersigned herby applies for a building permit to perform the following work (describe project): _____

_____

_____ **Total Estimated Cost:** _____

***House*:** _____ **Total Sq. Ft.** ***Garage*:**_____**Total Sq. Ft.** ***Other*:** _____**Total Sq. Ft.** **Construction Type:** _____ **Use Group:**_____

PROPERTY INFORMATION / JOB SITE	
Address:	
Permanent Parcel Number:	***Zoning Classification:***
Development Name, if applicable:	

OWNER INFORMATION	CONTRACTOR INFORMATION
Name:	***Name:***
Address:	***Address:***
City , State/ Zip Code:	***City , State/ Zip Code:***
Email:	***Email:***
Phone:	***Phone:***

I hereby agree to the conditions of this Application for Building Permit and to comply with all Ordinances of the City of Avon, all Ordinance, and the Law of the State of Ohio, relating to work to be done there under.

Signature of Applicant/Agent: _____ **Date:** _____

Permit Fee

Permit Fee $_____

Occupancy Fee $ _____ **Total Permit Fee $** _____

OBBS 1% / OBBS 3% $_____

Comments_____

_____

_____

_____

Approved: _____ Date:_____

City of Avon Building Official

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To Be Completed By Homeowner or Homeowner's Contractor

OWNER INFORMATION	CONTRACTOR INFORMATION
Name:	***Name:***
Address:	***Address:***
City , State/ Zip Code:	***City , State/ Zip Code:***
Email:	***Email:***
Phone:	***Phone:***

Natural Gas Load Calculations	BTU"S
Max Generator Load per Specifications Sheet	
Furnace	
Hot Water Tank	
Dryer	
Stove	
Fireplace	
Barbecue	
Other Natural Gas Appliance	

***Total Load : _____**

	****Must be confirmed by Gas Provider***
Gas Meter Maximum Output in BTU's	
****Minus Total Loads***	

Gas Line Sizes & Lengths: **(See Table 2413.4(1) 2013 Residential Code of Ohio)**

_____ _____

_____ _____

_____ _____

2/6/14

Gas	Natural
Inlet Pressure	Less than 2 psi
Pressure Drop	0.5 in. w.c.
Specific Gravity	0.60

TABLE 2413.4(1)
SCHEDULE 40 METALLIC PIPE

	PIPE SIZE (inch)													
Nominal	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12
Actual ID	0.622	0.824	1.049	1.380	1.610	2.067	2.469	3.068	4.026	5.047	6.065	7.981	10.020	11.938
Length (ft)	Capacity in Cubic Feet of Gas per Hour													
10	172	360	678	1,390	2,090	4,020	6,400	11,300	23,100	41,800	67,600	139,000	252,000	399,000
20	118	247	466	957	1,430	2,760	4,400	7,780	15,900	28,700	46,500	95,500	173,000	275,000
30	95	199	374	768	1,150	2,220	3,530	6,250	12,700	23,000	37,300	76,700	139,000	220,000
40	81	170	320	657	985	1,900	3,020	5,350	10,900	19,700	31,900	65,600	119,000	189,000
50	72	151	284	583	873	1,680	2,680	4,740	9,660	17,500	28,300	58,200	106,000	167,000
60	65	137	257	528	791	1,520	2,430	4,290	8,760	15,800	25,600	52,700	95,700	152,000
70	60	126	237	486	728	1,400	2,230	3,950	8,050	14,600	23,600	48,500	88,100	139,000
80	56	117	220	452	677	1,300	2,080	3,670	7,490	13,600	22,000	45,100	81,900	130,000
90	52	110	207	424	635	1,220	1,950	3,450	7,030	12,700	20,600	42,300	76,900	122,000
100	50	104	195	400	600	1,160	1,840	3,260	6,640	12,000	19,500	40,000	72,600	115,000
125	44	92	173	355	532	1,020	1,630	2,890	5,890	10,600	17,200	35,400	64,300	102,000
150	40	83	157	322	482	928	1,480	2,610	5,330	9,650	15,600	32,100	58,300	92,300
175	37	77	144	296	443	854	1,360	2,410	4,910	8,880	14,400	29,500	53,600	84,900
200	34	71	134	275	412	794	1,270	2,240	4,560	8,260	13,400	27,500	49,900	79,000
250	30	63	119	244	366	704	1,120	1,980	4,050	7,320	11,900	24,300	44,200	70,000
300	27	57	108	221	331	638	1,020	1,800	3,670	6,630	10,700	22,100	40,100	63,400
350	25	53	99	203	305	587	935	1,650	3,370	6,100	9,880	20,300	36,900	58,400
400	23	49	92	189	283	546	870	1,540	3,140	5,680	9,190	18,900	34,300	54,300
450	22	46	86	177	266	512	816	1,440	2,940	5,330	8,620	17,700	32,200	50,900
500	21	43	82	168	251	484	771	1,360	2,780	5,030	8,150	16,700	30,400	48,100
550	20	41	78	159	239	459	732	1,290	2,640	4,780	7,740	15,900	28,900	45,700
600	19	39	74	152	228	438	699	1,240	2,520	4,560	7,380	15,200	27,500	43,600
650	18	38	71	145	218	420	669	1,180	2,410	4,360	7,070	14,500	26,400	41,800
700	17	36	68	140	209	403	643	1,140	2,320	4,190	6,790	14,000	25,300	40,100
750	17	35	66	135	202	389	619	1,090	2,230	4,040	6,540	13,400	24,400	38,600
800	16	34	63	130	195	375	598	1,060	2,160	3,900	6,320	13,000	23,600	37,300
850	16	33	61	126	189	363	579	1,020	2,090	3,780	6,110	12,600	22,800	36,100
900	15	32	59	122	183	352	561	992	2,020	3,660	5,930	12,200	22,100	35,000
950	15	31	58	118	178	342	545	963	1,960	3,550	5,760	11,800	21,500	34,000
1,000	14	30	56	115	173	333	530	937	1,910	3,460	5,600	11,500	20,900	33,100
1,100	14	28	53	109	164	316	503	890	1,810	3,280	5,320	10,900	19,800	31,400
1,200	13	27	51	104	156	301	480	849	1,730	3,130	5,070	10,400	18,900	30,000
1,300	12	26	49	100	150	289	460	813	1,660	3,000	4,860	9,980	18,100	28,700
1,400	12	25	47	96	144	277	442	781	1,590	2,880	4,670	9,590	17,400	27,600
1,500	11	24	45	93	139	267	426	752	1,530	2,780	4,500	9,240	16,800	26,600
1,600	11	23	44	89	134	258	411	727	1,480	2,680	4,340	8,920	16,200	25,600
1,700	11	22	42	86	130	250	398	703	1,430	2,590	4,200	8,630	15,700	24,800
1,800	10	22	41	84	126	242	386	682	1,390	2,520	4,070	8,370	15,200	24,100
1,900	10	21	40	81	122	235	375	662	1,350	2,440	3,960	8,130	14,800	23,400
2,000	NA	20	39	79	119	229	364	644	1,310	2,380	3,850	7,910	14,400	22,700

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 pound per square inch = 6.895 kPa, 1-inch water column = 0.2488 kPa, 1 British thermal unit per hour = 0.2931 W, 1 cubic foot per hour = 0.0283 m^3/h, 1 degree = 0.01745 rad.

Notes:

1. NA means a flow of less than 10 cfh.
2. All table entries have been rounded to three significant digits.

Worksheet -- NEC 2011, 220 Part IV					
Contractor --		Email --			
Phone --		FAX --			
Job Name --					
Date --	Location	--			
Voltage (Circle)	240V - 1ø				
Fuel		NG	LPV		
Elec. Service	100 Amp	200 Amp	400 Amp	Other	
NET SQUARE FOOTAGE					
GENERAL LOADS	QTY	Rating (Load)	Factor	LOADS (VA)	LOADS (kW) (VA ÷ 1,000)
General Lighting and General Use Receptacles	0	3 VA/ft²	100%	0	0.00
Branch Circuits (1500 VA//ft²)					
Small Appliance Circuits (20 Amp)		1500	100%	0	0.00
Laundry Circuits		1500	100%	0	0.00
Fixed Appliances		Full Current Rating			
Well			100%	0	0.00
Sump Pump			100%	0	0.00
Freezer			100%	0	0.00
Microwave (Not counter-top model)			100%	0	0.00
Disposal			100%	0	0.00
Dishwasher			100%	0	0.00
Range (See Table 220.55 for multiple cooking appliances)			100%	0	0.00
Wall-Mounted Oven			100%	0	0.00
			100%	0	0.00
Water Heater			100%	0	0.00
Clothes Dryer			100%	0	0.00
Garage Door Opener			100%	0	0.00
Septic Grinder			100%	0	0.00
Other (List)			100%	0	0.00
			100%	0	0.00
			100%	0	0.00
			100%	0	0.00
			100%	0	0.00
			100%	0	0.00
			100%	0	0.00
			100%	0	0.00
			100%	0	0.00
Total General Loads				0	0.00
HEAT / A-C LOAD					
A-C / Cooling Equipment			100%	0	0.00
Heat Pump					
· Compressor (if not included as A-C)			100%	0	0.00
· Supplemental Electric Heat			65%	0	0.00
Electric Space Heating					
· Less than 4 seperately controlled units			65%	0	0.00
· 4 or more seperately controlled units			40%	0	0.00
System With Continuous Nameplate Load			100%	0	0.00
Largest Heat / A-C Load (VA) VA KW					
GENERAL LOADS					
· 1st 10kW of General Loads 100% kW			100%	0.00	
· Remaining General Loads (kW) 40% kW			40%	0.00	
CALCULATED GENERAL LOAD (kW) kW					0.00
LARGEST HEAT / A-C LOAD 100% kW kW					0
TOTAL CALCULATED LOAD (Net General Loads + Heat/A-C Load)					0.00