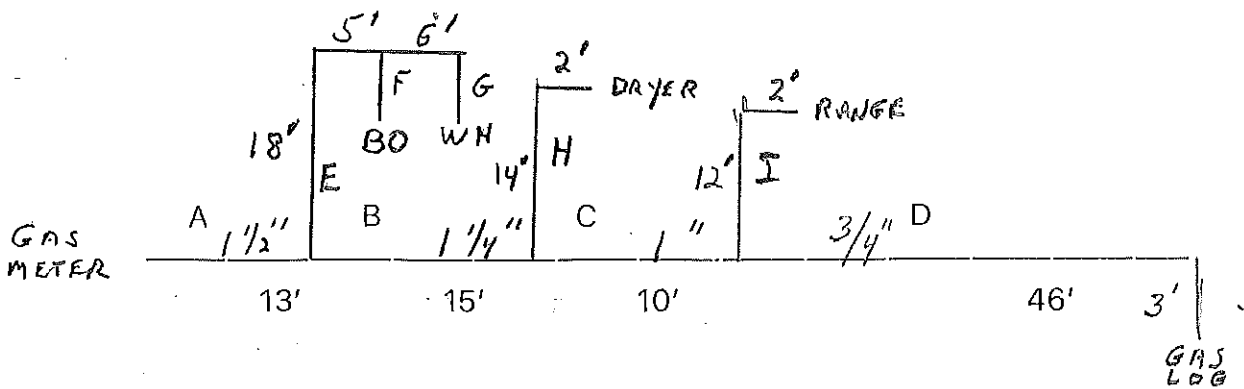


# GAS PIPE SIZING

## BRANCH LENGTH METHOD



1. Figure longest run from gas meter to furthest appliance.  $13' + 15' + 10' + 46' + 3' = 87'$
2. Add BTUs of all appliances
  - Boiler – 100,000 BTU's ( F )
  - Water Heater – 50,000 BTU's ( G )
  - Dryer – 35,000 BTU's ( H )
  - Range – 45,000 BTU's ( I )
  - Gas Log – 60,000 BTU's ( J )

Total BTU's = 290,000 BTU's

3. Inlet pressure less than 2 PSI
4. Using Gas Table G2413.4(5) 2018 IRC for corrugated stainless-steel tubing. ( CSST )

### Sizing Main Branch

### Pipe Diameter

A-	87' (13'+15'+10'+46'+3')	290,000 BTU's	1 1/2"
B-	87'	140,000 BTU's	1 1/4"
C-	87'	105,000 BTU's	1"
D-	87'	60,000 BTU's	3/4"

### Sizing Branches

### Pipe Diameter

E-	42' (13'+18'+5'+6")	150,000 BTU's	1"
	Boiler + Water Heater		
F-	36' (13'+18'+5')	100,000 BTU's	3/4"
	Boiler Only		
G-	42' (13'+18'+5'+6')	50,000 BTU's	1/2"
	Water Heater Only		
H-	44' (13'+15'+10'+12'+2')	35,000 BTU's	1/2"
	Dryer		
I-	52' (13'+15'+10'+12'+2')	45,000 BTU's	3/4"
	Range		
J-	87' (13'+15'+10'+46'+3')	60,000 BTU's	3/4"
	Gas Log		