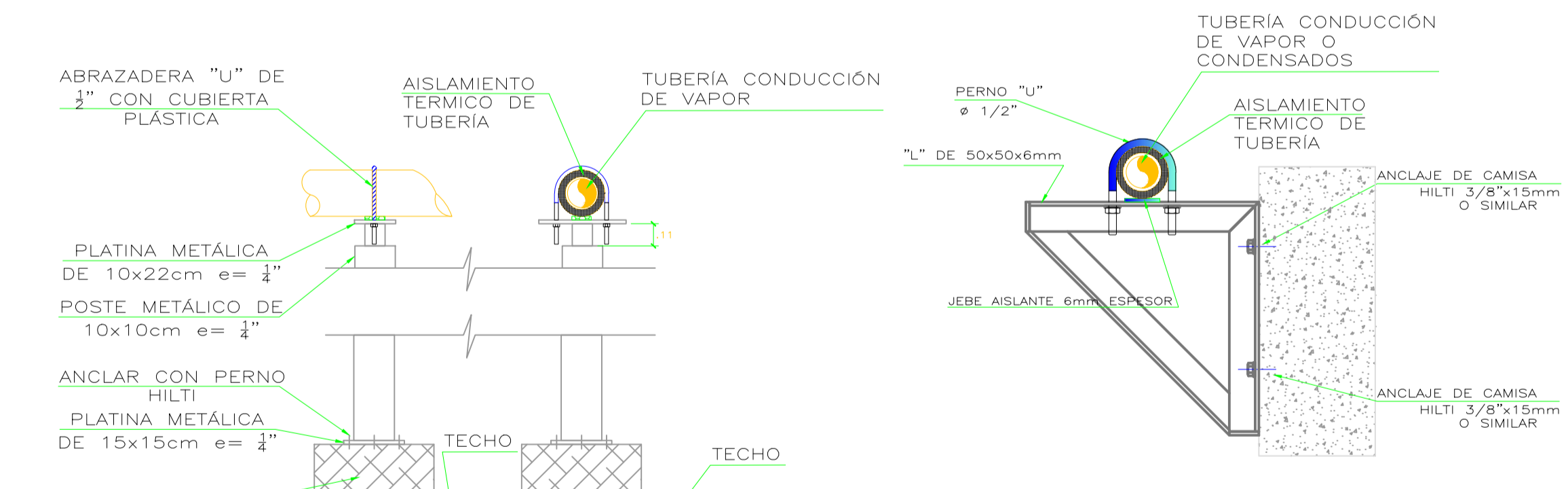


LÍNEA DE VAPOR Y CONDESADOS

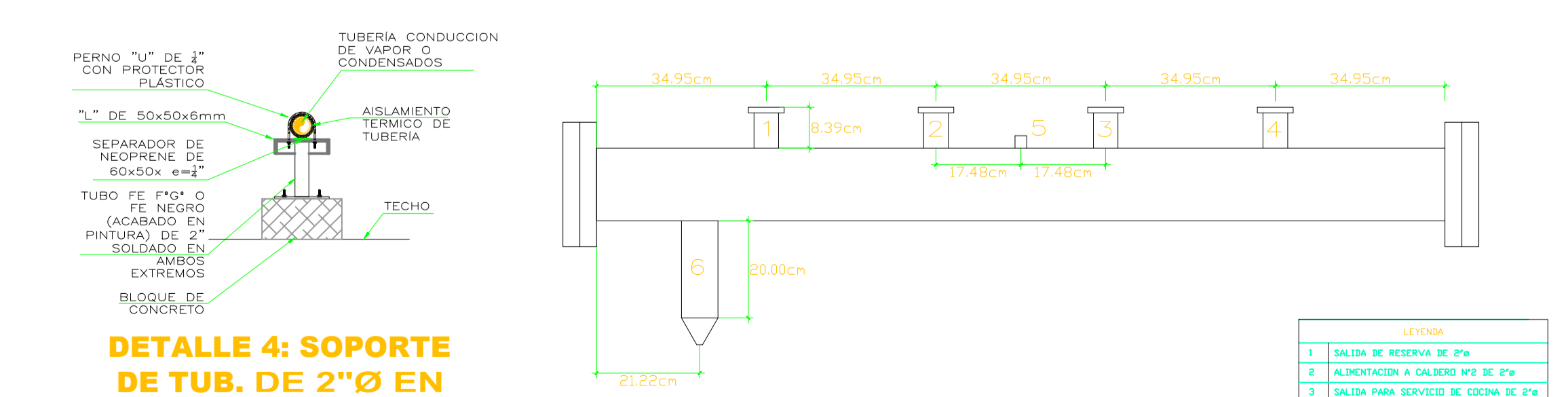


Tamaño nominal de la tubería en pulgadas	Máximo espaciamento en metros
1/2"	2.5
3/4"	3
1"	3.5
1 1/2"	4.5
2"	5
Mayores a 3"	6



DETALLE 3: SOPORTE DE TUB. DE 4"Ø EN TECHO
ESC.: S/E

DETALLE 5: SOPORTE DE TUB. EN HORIZONTAL POR PARED
ESCALA: S/E



DETALLE 4: SOPORTE DE TUB. DE 2"Ø EN TECHO
ESC.: S/E

DETALLE 6: CABECERO DE VAPOR
ESCALA: S/E

LEYENDA

1	SALIDA DE RESERVA DE 2"Ø
2	ALIMENTACION A CALDERA 102 IC 2"Ø
3	SALIDA PARA SERVICIO DE COCINA DE 2"Ø
4	ALIMENTACION A CALDERA 101 IC 2"Ø
5	ELIMINADOR DE AIRE DE 1"Ø
6	COLECTOR DE CONDENSADO DE 3"Ø

CALCULO DE LA CAÍDA DE PRESION EN LA RED DE VAPOR

EQUIPO	TRAMO	DIAM. INT. SELECCIONADO (mm)	TUBERÍA SELECCIONADA (Pulg.)	LONGITUD EQUIVALENTE (m)	TEMPERATURA (°C)	DENSIDAD (Kg/m3)	VISCOSIDAD (Kg/m-h)	VELOCIDAD REAL (m/s)	N° REYNOLD	RUGOSIDAD RELATIVA (e/D)	FACTOR DE FRICCIÓN (f)	P ₁ Bar (abs)	P ₂ Bar (abs)	Δp (P ₂ -P ₁) CAIDA DE PRESION POR TRAMOS (bar)	Δp (P ₂ final-P ₁ inicial) CAIDA DE PRESION TOTAL (bar)
LAVA VAJILLA	C-B	102.260	4"SCH40	12.7	115.000	0.977	0.049	22.90	167,672.07	0.000447	0.0190	1.700	1.637	0.063	0.135
	D-C	102.260	4"SCH40	2.8	115.000	0.977	0.049	17.35	127,022.53	0.000447	0.0195	1.637	1.629	0.008	
	E-D	102.260	4"SCH40	2.8	115.000	0.977	0.049	11.80	86,372.99	0.000447	0.0200	1.629	1.625	0.004	
	F-E	52.480	2"SCH40	2.8	115.000	0.977	0.049	23.71	89,094.50	0.000870	0.0225	1.625	1.591	0.034	
	G-F	52.480	2"SCH40	2.8	115.000	0.977	0.049	13.17	49,488.16	0.000870	0.0245	1.591	1.580	0.011	
	G-*Lava vajilla	40.940	1 1/2"SCH40	19.8	115.000	0.977	0.049	4.32	12,667.27	0.001120	0.0330	1.580	1.565	0.015	
MARMITA 5	C-B	102.260	4"SCH40	12.7	115.000	0.977	0.049	22.90	167,672.07	0.000447	0.0190	1.700	1.637	0.063	0.131
	D-C	102.260	4"SCH40	2.8	115.000	0.977	0.049	17.35	127,022.53	0.000447	0.0195	1.637	1.629	0.008	
	E-D	102.260	4"SCH40	2.8	115.000	0.977	0.049	11.80	86,372.99	0.000447	0.0200	1.629	1.625	0.004	
	F-E	52.480	2"SCH40	2.8	115.000	0.977	0.049	23.71	89,094.50	0.000870	0.0225	1.625	1.591	0.034	
	G-F	52.480	2"SCH40	2.8	115.000	0.977	0.049	13.17	49,488.16	0.000870	0.0245	1.591	1.580	0.011	
	G-H	52.480	2"SCH40	1.0	115.000	0.977	0.049	10.54	39,606.34	0.000870	0.0245	1.580	1.577	0.003	
H-Entrada de marmita 5	52.480	2"SCH40	3.3	115.000	0.977	0.049	10.54	39,606.34	0.000870	0.0245	1.577	1.569	0.009		
MARMITA 4	C-B	102.260	4"SCH40	12.7	115.000	0.977	0.049	22.90	167,672.07	0.000447	0.0193	1.700	1.636	0.064	0.119
	D-C	102.260	4"SCH40	2.8	115.000	0.977	0.049	17.35	127,022.53	0.000447	0.0200	1.636	1.628	0.008	
	E-D	102.260	4"SCH40	2.8	115.000	0.977	0.049	11.80	86,372.99	0.000447	0.0210	1.628	1.624	0.004	
	F-E	52.480	2"SCH40	2.8	115.000	0.977	0.049	23.71	89,094.50	0.000870	0.0225	1.624	1.590	0.034	
	F-Entrada de marmita 4	52.480	2"SCH40	3.3	115.000	0.977	0.049	10.54	39,606.34	0.000870	0.0240	1.590	1.581	0.009	
	H-Entrada de marmita 4	52.480	2"SCH40	3.3	115.000	0.977	0.049	10.54	39,606.34	0.000870	0.0240	1.581	1.573	0.008	
MARMITA 3	C-B	102.260	4"SCH40	12.7	115.000	0.977	0.049	22.90	167,672.07	0.000447	0.0193	1.700	1.636	0.064	0.129
	D-C	102.260	4"SCH40	2.8	115.000	0.977	0.049	17.35	127,022.53	0.000447	0.0200	1.636	1.628	0.008	
	E-D	102.260	4"SCH40	2.8	115.000	0.977	0.049	11.80	86,372.99	0.000447	0.0210	1.628	1.624	0.004	
	E-Entrada marmita 3	52.480	2"SCH40	3.3	115.000	0.977	0.049	21.08	79,207.74	0.000870	0.0370	1.624	1.571	0.053	
MARMITA 2	C-B	102.260	4"SCH40	12.7	115.000	0.977	0.049	22.90	167,672.07	0.000447	0.0193	1.700	1.636	0.064	0.125
	D-C	102.260	4"SCH40	2.8	115.000	0.977	0.049	17.35	127,022.53	0.000447	0.0200	1.636	1.628	0.008	
	D-Entrada de marmita 2	52.480	2"SCH40	3.3	115.000	0.977	0.049	21.08	79,207.74	0.000870	0.0370	1.628	1.575	0.053	
MARMITA 1	C-B	102.260	4"SCH40	12.7	115.000	0.977	0.049	22.90	167,672.07	0.000447	0.0193	1.700	1.636	0.064	0.117
	C-Entrada marmita 1	52.480	2"SCH40	3.3	115.000	0.977	0.049	21.08	79,207.74	0.000870	0.0370	1.636	1.583	0.053	
CABECERO-EST. REG.	A-B	52.480	2"SCH40	36.3	180.000	0.194	0.054	20.38	13,861.04	0.000870	0.0320	8.000	7.531	0.469	0.469