

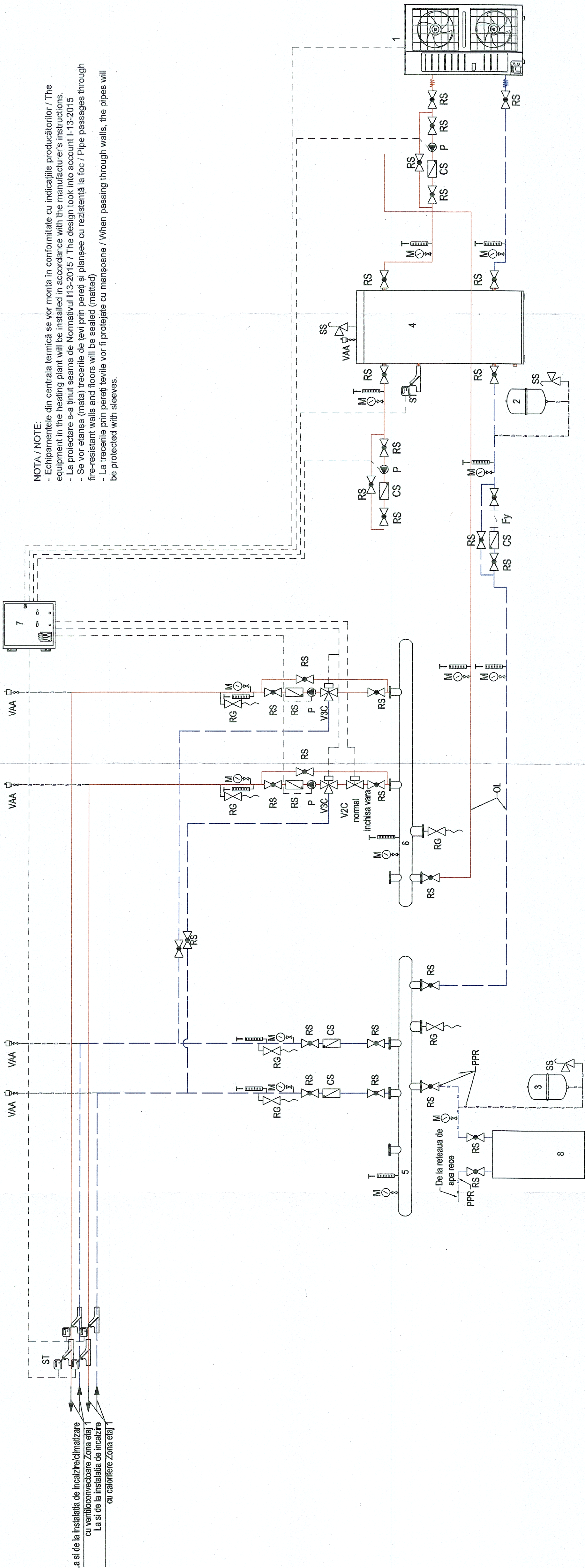
NOTA / NOTE:

- Echipamentele din centrala termică se vor monta în conformitate cu indicațiile producătorilor / The equipment in the heating plant will be installed in accordance with the manufacturer's instructions.
- La proiectare s-a ținut seama de Normativul I13-2015 / The design took into account I-13-2015
- Se vor etanșa (mata) trecerile de țevi prin pereți și planșee cu rezistență la foc / Pipe passages through fire-resistant walls and floors will be sealed (matted)
- La trecerile prin pereți țevile vor fi protejate cu manșoane / When passing through walls, the pipes will be protected with sleeves.

LEGENDA / LEGEND:

- 1 - Pompa de caldura aer-apa monobloc incalzire 7A/55W Qi=18 kW (-12A/55W Qi=12.7 kW), racire 35A/7W Qi=17 kW, echipata cu kit hidrolic / Air-water heat pump unit heating 7A/55W Qi=18 kW (-12A/55W Qi=12.7 kW), cooling 35A/7W Qi=17 kW, equipped with hydraulic kit
- 2 - Vas de expansiune inchis incalzire / Closed heating expansion vessel
- 3 - Vas de expansiune inchis sanitar / Closed sanitary expansion vessel
- 4 - Vas de acumulare apa calda izolat V=300 litri cu rezistenta electrica / Insulated hot water storage tank V=300 liters with electric resistance
- 5 - Distribuitor 2 circuite + 1 de rezerva / Distributor 2 circuits + 1 reserve
- 6 - Colector 2 circuite + 1 de rezerva / Collector 2 circuits + reserve
- 7 - Tablou automatizare / Automation panel
- 8 - Statie de dedurizare / Softening station
- SS - Supapa de siguranta cu arc / Safety valve with spring
- P - Pompa circulatie agent termic cu turatie variabila / Heating agent circulation pump with variable speed
- V3C - Vana electromagnetica cu trei cai automatizata / Automated three-way electromagnetic valve
- V2C - Vana electromagnetica cu doua cai automatizata / Automated two-way electromagnetic valve
- RG - Robinet de golire cu portfurn / Drain valve with porta turbus
- RS - Robinet cu opturator sferic, pn 6 bar / Ball valve, up to 6 bar
- RA - Robinet de amestec, pn 6 ba / Mixing valve, up to 6 bar
- CS - Clapeta de sens cu ventili, pn 6 bar / Check valve with valve, up to 6 bar
- T - Termometru / Thermometer
- M - Manometru / Manometer
- ST - Senzor de temperatura / Temperature sensor
- VA - Ventil de aerisire / Ventilation valve
- Fy - Filtru cu sita din inox / Filter with stainless steel

- Conducta agent termic apa calda tur / Hot water inlet pipe
- Conducta agent termic apa calda retur / Hot water outlet pipe
- Conducta apa rece / Cold water pipe
- Conducta expansiune / Expansion pipe
- Automatizare / Automation



 		COMPANIA NAȚIONALĂ DE CĂI FERATE "C.F.R." S.A. ROMANIAN NATIONAL RAILWAY COMPANY	
	ENTITATE CONTRACTANTA BENEFICIARY	 CONTRACTANT/CONTRACTOR ASOCIEREA JV L.S.P.C.F. S.A. 140-246/082	DENUMIRE INVESTIȚIE INVESTMENT NAME
			"Studiu de Fezabilitate pentru Electrifierea și Reabilitarea liniei de cale ferată Constanța - Mangalia" "Feasibility Study for Electrification and Rehabilitation of the Constanța - Mangalia Railway Line"
	PROIECTAT / DESIGNED VERIFICAT / CHECKED AVIZAT / ADVISED	NUME/NOME Ing. Vlad PETEAN Ing. Sonia TIU Ing. Marin BALCU	SECTIONE / SECTION SPECIALITATE / SPECIALITY OBJECT / OBJECT
			STATION / STATION MANGALIA INSTALAȚII TERMOMETRULI / THERMOMETER INSTALLATIONS CLADIRE ADMINISTRATIVĂ / ADMINISTRATIVE BUILDING SCHEMA FUNCȚIONALĂ ÎN CALZIRE ȘI CLIMATIZARE / FUNCTIONAL DIAGRAM HEATING AND AIR CONDITIONING
DATA / DATE: 09/2023		SCARA / SCALE: %	SF 6 SF 23 It C02 102 R4