

REV.	DESCRIPTION	DRAWN	DATE

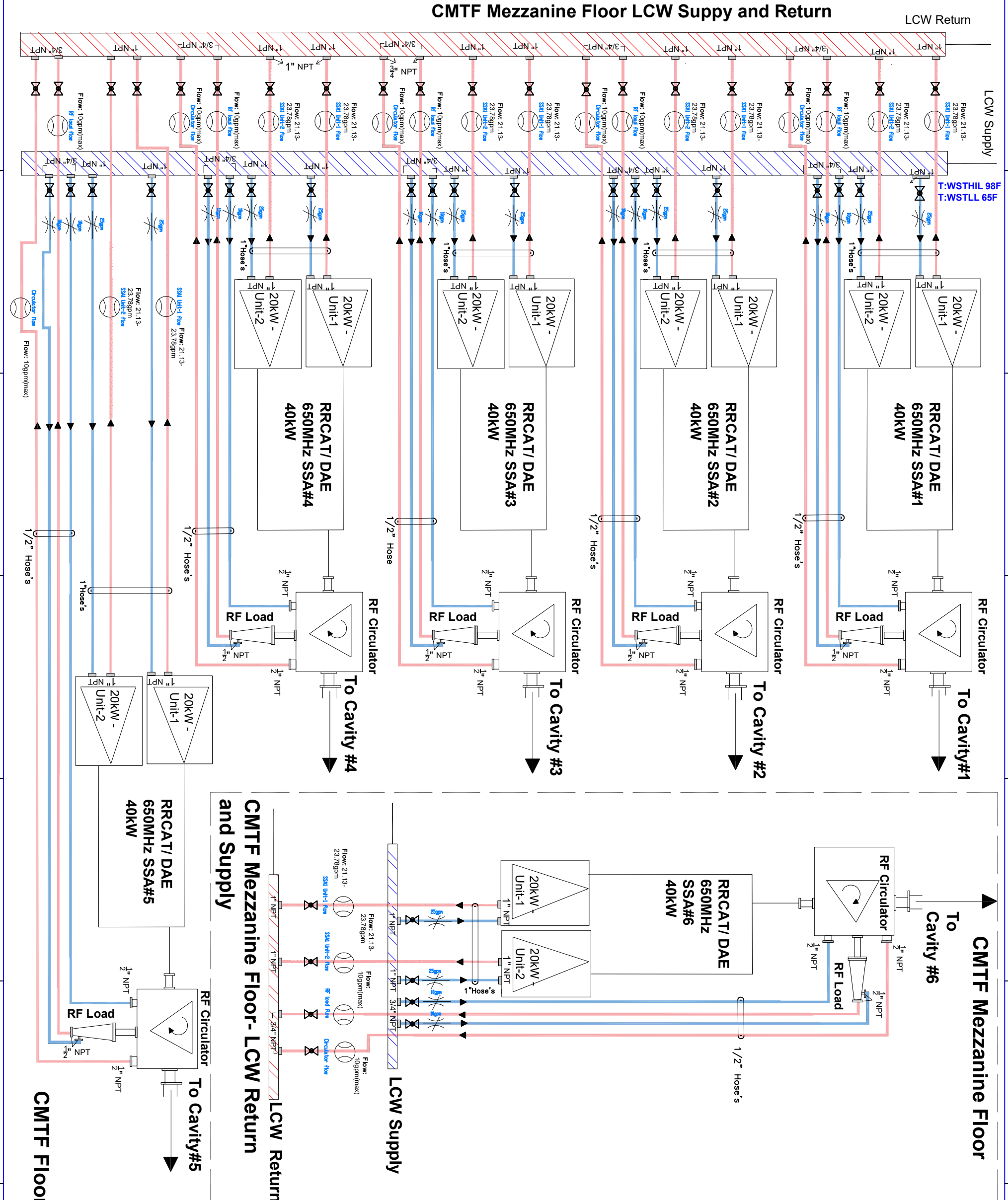
Notes

Water Cooling Specification for circulator and water load:

1. Maximum inlet water pressure: 145 psig.
2. Maximum water pressure drop: 29 psi.
3. Required flow, circulator: 10 gpm maximum.
4. Required flow, load: 10 gpm maximum.
5. Cooling water temperature nominal: 25-35 °C.
6. Cooling water header, Circulator: SS NPT (male) of 1/2" size.
7. Cooling water header, Load: SS NPT (male) of 1/2" size.

Water Cooling Specification for SSA:

1. Inlet Water Pressure: 125 psig Max
2. Required Flow 180 lpm Min (80-90 lpm per half-power amplifier unit)
3. Pressure Drop 60 psig
4. Max Water Temperature 28°C ± 2°C
5. Water Header Copper/SS NPT (male) of 1" size
6. Heat Load to Water-27 kW per half-power unit Max.
7. **LB650 cryomodules have fewer cavities (4 vs. 6) and require less power than HB650 cryomodules. Design is focused on serving HB650 cryomodule testing. Only one amplifier will be available for testing the first HB650 cryomodule.**



ITEM NO.	PART NO.	DESCRIPTION	DR	SIZE	QTY.	REMARKS
PARTS LIST						

UNLESS OTHERWISE SPECIFIED	ORIGINATOR	DR	SIZE
FUNCTIONS			

1. BREAK ALL SHARP EDGES	APPROVED	LOCATION:

MATERIAL	Created with AutoCAD 2019

FERMI NATIONAL ACCELERATOR LABORATORY
UNITED STATES DEPARTMENT OF ENERGY

AutoCAD Release 10

PIP2IT Low-Beta/ High-Beta 650MHz Piping and Instrumentation Schematic

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Team Center: EDD0012442

REV. A(1)