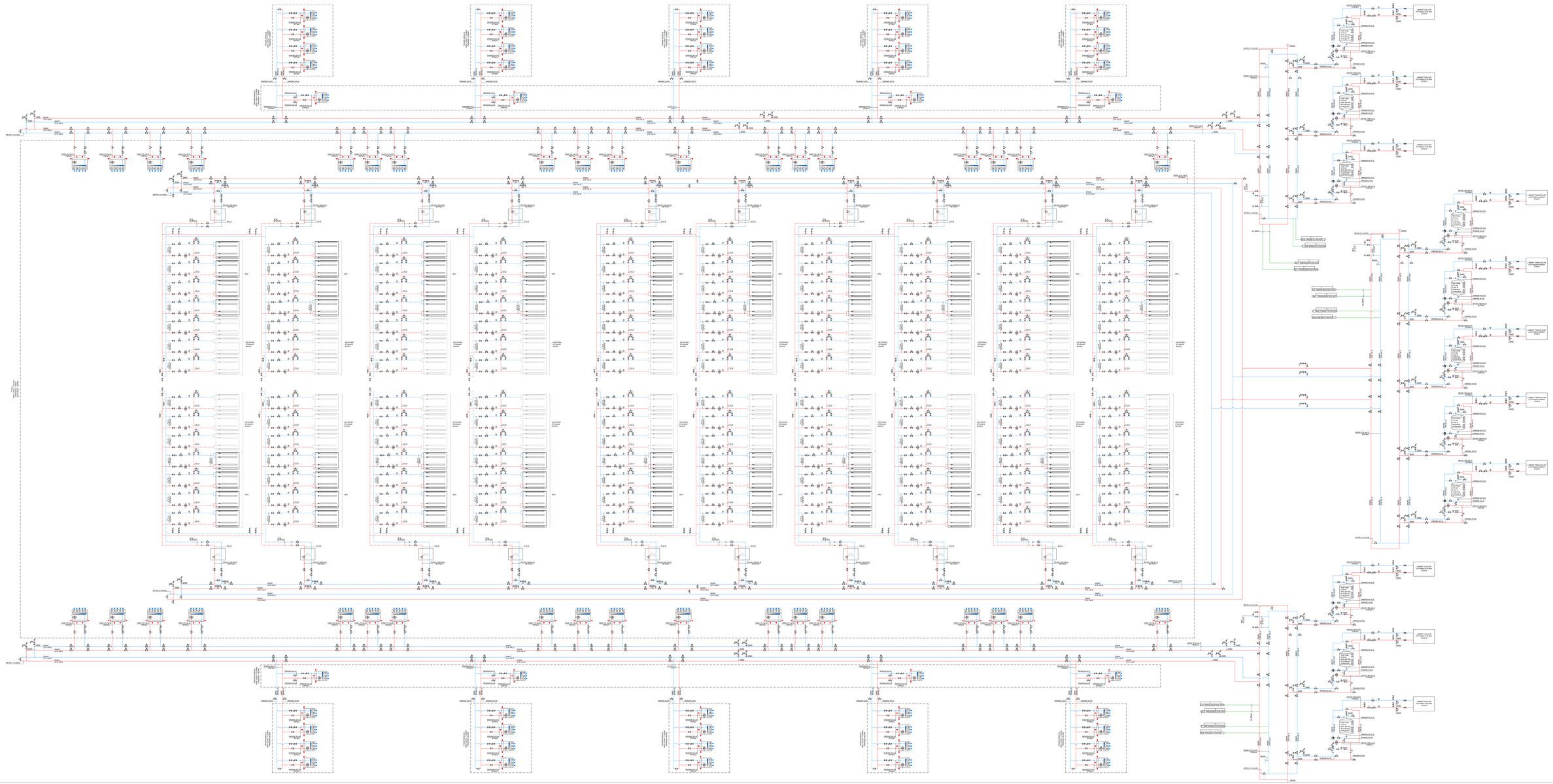
CHILLED WATER SYSTEM LEGEND
CHILLED WATER SUPPLY
CHILLED WATER RETURN
CHILLED WATER RETURN
CHILLED WATER SUPPLY
LEGEND COOLING SUPPLY (DEVICE CONNECTION)
LEGEND COOLING RETURN (DEVICE CONNECTION)
INDUSTRIAL WATER LINE (FIRE PIPE)
TWO WAY MODULATING CONTROL VALVE
TWO WAY BUTTERFLY VALVE WITH GEARBOX
TWO WAY ON/OFF CONTROL VALVE
THREE WAY CONTROL VALVE
SOLUTION BALL VALVE
SOLUTION BUTTERFLY VALVE
DRAIN CHECK
MANUAL BALANCING VALVE
STRAINER
SAFETY VALVE
FLOW METER
AUTOMATIC AIR VENT VALVE
CLEAN STRAINER PRESSURE GAUGE
AIR VENT
TEMPERATURE TRANSMITTER
PRESSURE TRANSMITTER
DIFFERENTIAL PRESSURE TRANSMITTER
TEMPERATURE GAUGE
PRESSURE GAUGE
GENERAL NOTES:
1. ALL INDOOR ROW CHILLER WATER PIPING SHALL BE INSULATED WITH 13MM THICKNESS FLEXIBLE CELL NITRILE INSULATION.
2. ALL OUTDOOR CHILLER WATER PIPING SHALL BE INSULATED WITH 19MM THICKNESS FLEXIBLE CELL NITRILE INSULATION.
3. CHILLED WATER SUPPLY AND RETURN PIPING SHALL BE INSULATED WITH 19MM THICKNESS FLEXIBLE CELL NITRILE INSULATION.
4. CHILLED WATER SUPPLY AND RETURN CONNECTIONS TO FRONT DOOR HEAT EXCHANGERS SHALL BE INSULATED WITH 19MM THICKNESS FLEXIBLE CELL NITRILE INSULATION.
5. PIPING SHALL BE PROVIDED WITH ADEQUATE EXPANSION COMPENSATORS TO ACCOMMODATE THERMAL EXPANSION AND CONTRACTION.
6. PIPING SHALL BE PROVIDED WITH ADEQUATE SUPPORTS FOR SEAMLESS PIPE FITTINGS.
7. PIPING SHALL BE PROVIDED WITH ADEQUATE SUPPORTS TO ALLOW FOR EASY REMOVAL OF ANY PIPE SECTION WITHOUT DISTURBING ADJACENT PIPE SECTIONS. PIPE SUPPORTS SHALL BE SPACED TO PREVENT SAGGING OF PIPE.
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COOLING UNITS AND CHILLER WATER TEMPERATURE
UNIT SUPPLY RETURN REQUIREMENT
RACK 21°C 27°C 18.4°C N+1
PDAC 21°C 27°C 18.4°C N+1
PDAH 22.5°C 27°C 18.4°C N+1
CHILLER PLAN 21°C 32.2°C 18.4°C N+1
COOLING UNITS AND CHILLER WATER TEMPERATURE
UNIT SUPPLY RETURN REQUIREMENT
RACK 21°C 27°C 18.4°C N+1
TRANSCLOUD
UNITS 21°C 46.8°C 18.4°C N+1
REV. PLAN
REV. DATE
R2 FOR INFORMATION 2025-08-26
VERTIV.
OneCore - referent design 10
CHILLED WATER RISER DIAGRAM
DRAWN BY: JOSIP STOJANOVIC
J. SIMIC
CHECKED BY: JOSIP STOJANOVIC
K. STAB
M-603
SHEET 1 OF 1
SHEET SIZE: ISO A1
SCALE: NTS
2025-08-26
R2