

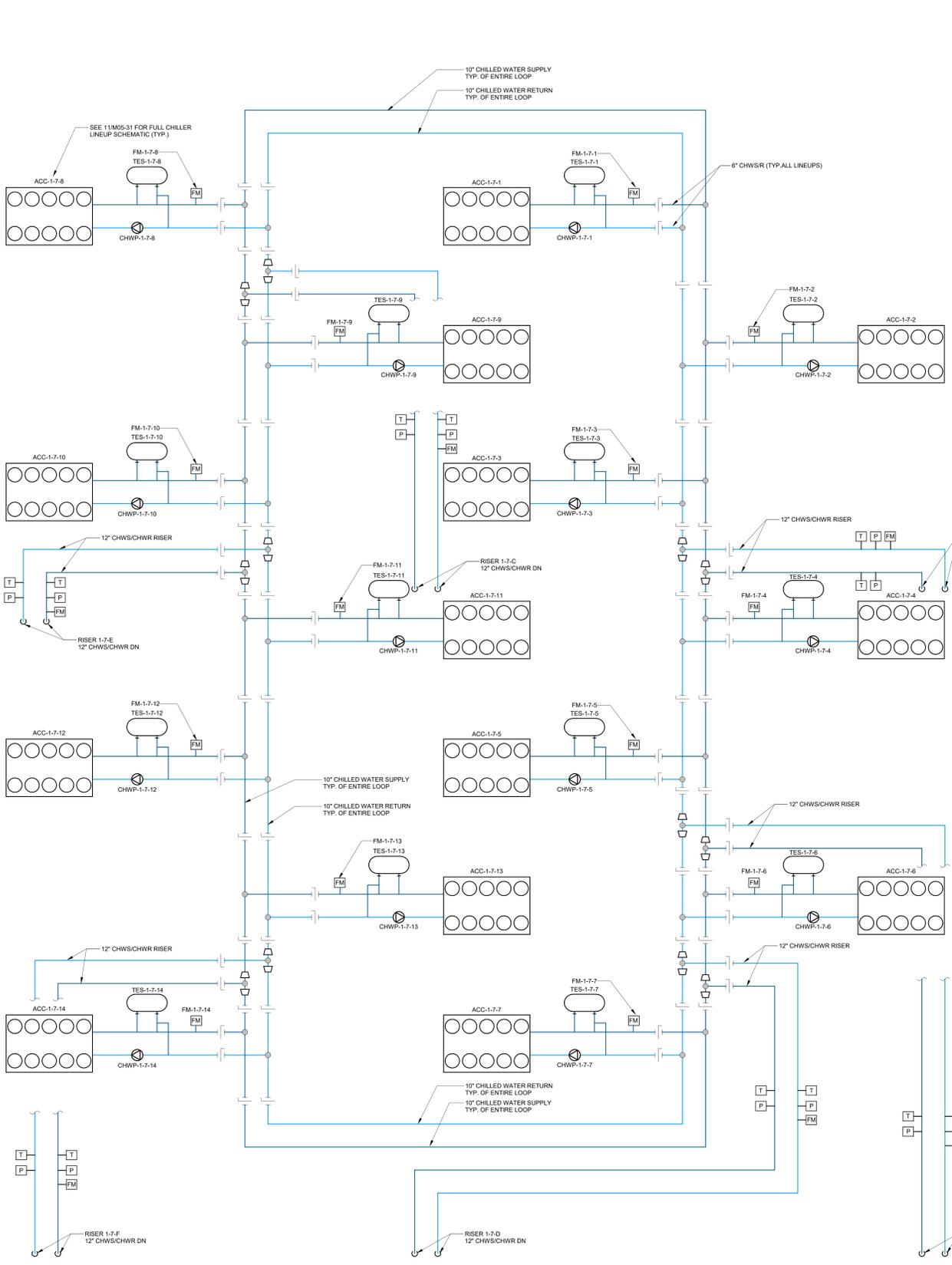
CHILLED WATER PLANT 1-7 DESIGN INFORMATION - 12 MW PLANT TOTAL, (2) 6 MW DATA HALLS PER PLANT

CRITICAL IT CAPACITY: 12.0 MW
 ANCILLARY LOAD: 2,400 kW
 TOTAL LOAD: 14.4 MW
 AIR COOLED CHILLER CAPACITY: 1,230 kW
 REQUIRED NUMBER OF CHILLERS = 12
 CHILLER COUNT: N + 16% = 14

CHILLED WATER SUPPLY / RETURN TEMPERATURE: 66°F / 80°F
 N=20 DESIGN CONDITION: -2.2°F
 CHILLED WATER FLUID: 25% PROPYLENE GLYCOL
 BURST POINT OF FLUID: 0°F

RISER DESIGN INFORMATION - 12 MW BLOCK

FAILURE MODE - MAXIMUM RISER VELOCITY 5 RISERS, 8.7 FPS (BASED ON HYDRAULIC ANALYSIS)
 NORMAL MODE - MAXIMUM RISER VELOCITY 6 RISERS, 5.8 FPS (BASED ON HYDRAULIC ANALYSIS)



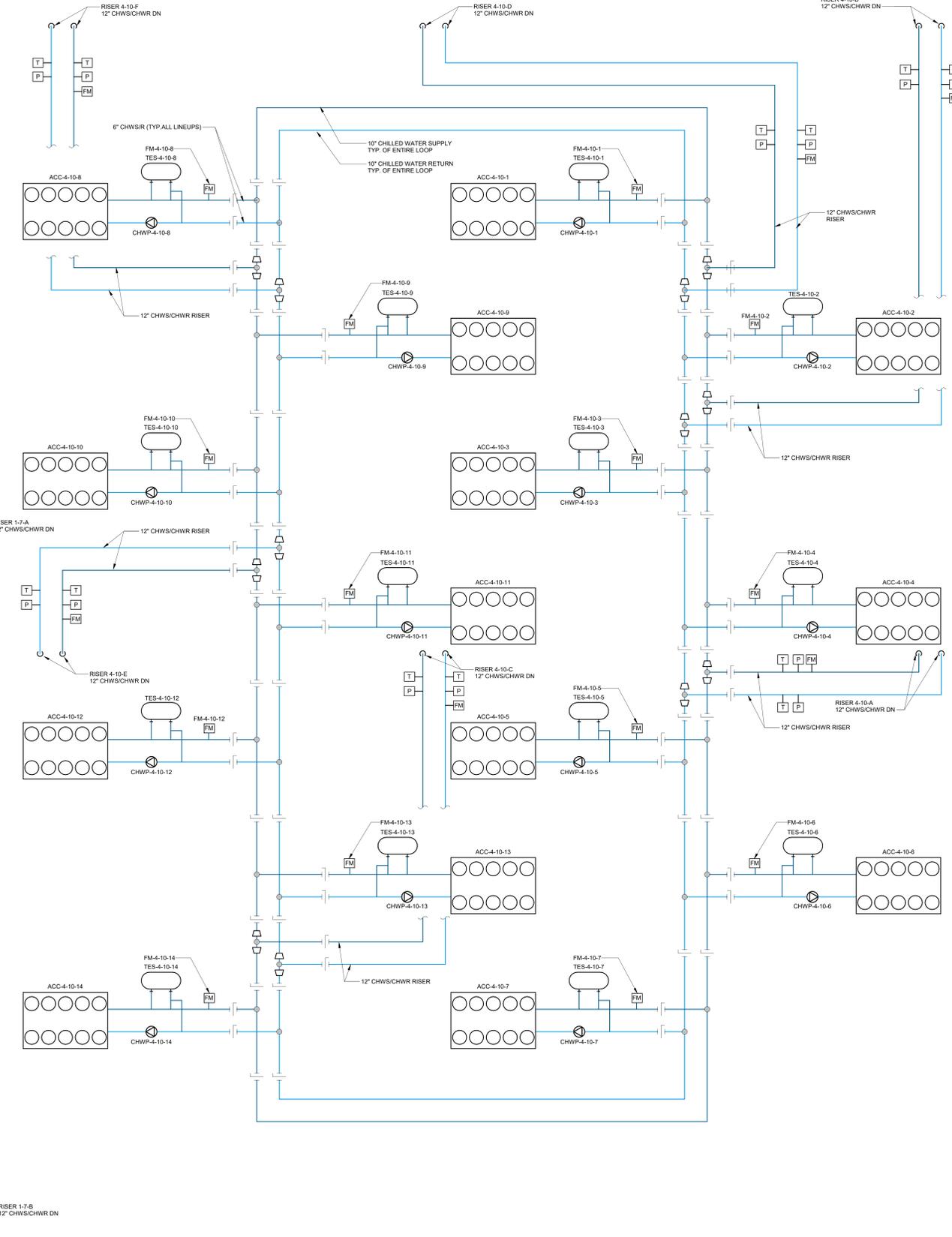
CHILLED WATER PLANT 4-10 DESIGN INFORMATION - 12 MW PLANT TOTAL, (2) 6 MW DATA HALLS PER PLANT

CRITICAL IT CAPACITY: 12.0 MW
 ANCILLARY LOAD: 2,400 kW
 TOTAL LOAD: 14.4 MW
 AIR COOLED CHILLER CAPACITY: 1,230 kW
 REQUIRED NUMBER OF CHILLERS = 12
 CHILLER COUNT: N + 16% = 14

CHILLED WATER SUPPLY / RETURN TEMPERATURE: 66°F / 80°F
 N=20 DESIGN CONDITION: -2.2°F
 CHILLED WATER FLUID: 25% PROPYLENE GLYCOL
 BURST POINT OF FLUID: 0°F

RISER DESIGN INFORMATION - 12 MW BLOCK

FAILURE MODE - MAXIMUM RISER VELOCITY 5 RISERS, 8.7 FPS (BASED ON HYDRAULIC ANALYSIS)
 NORMAL MODE - MAXIMUM RISER VELOCITY 6 RISERS, 5.8 FPS (BASED ON HYDRAULIC ANALYSIS)



1 CHILLED WATER FLOW DIAGRAM - ROOF PLANTS 1-7, 4-10
 NTS

ISSUES

NO.	DATE	DESCRIPTION
4	1.23.2026	DESIGN DEVELOPMENT

REVISIONS

NO.	DATE	DESCRIPTION
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kW Mission Critical Engineering
 Contact: K. DREWNOWSKI Phone: 601.451.2099
 Engineer: K. COOPER
 License #: 23015 Exp. Date: 00/00/0000

NOT FOR CONSTRUCTION
 Date: 12/12/2025

SERVERFARM
 Clarksville, AR

CHILLED WATER FLOW DIAGRAM - ROOF PLANTS 1-7, 4-10

JOB SHEET US0049903.5614

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