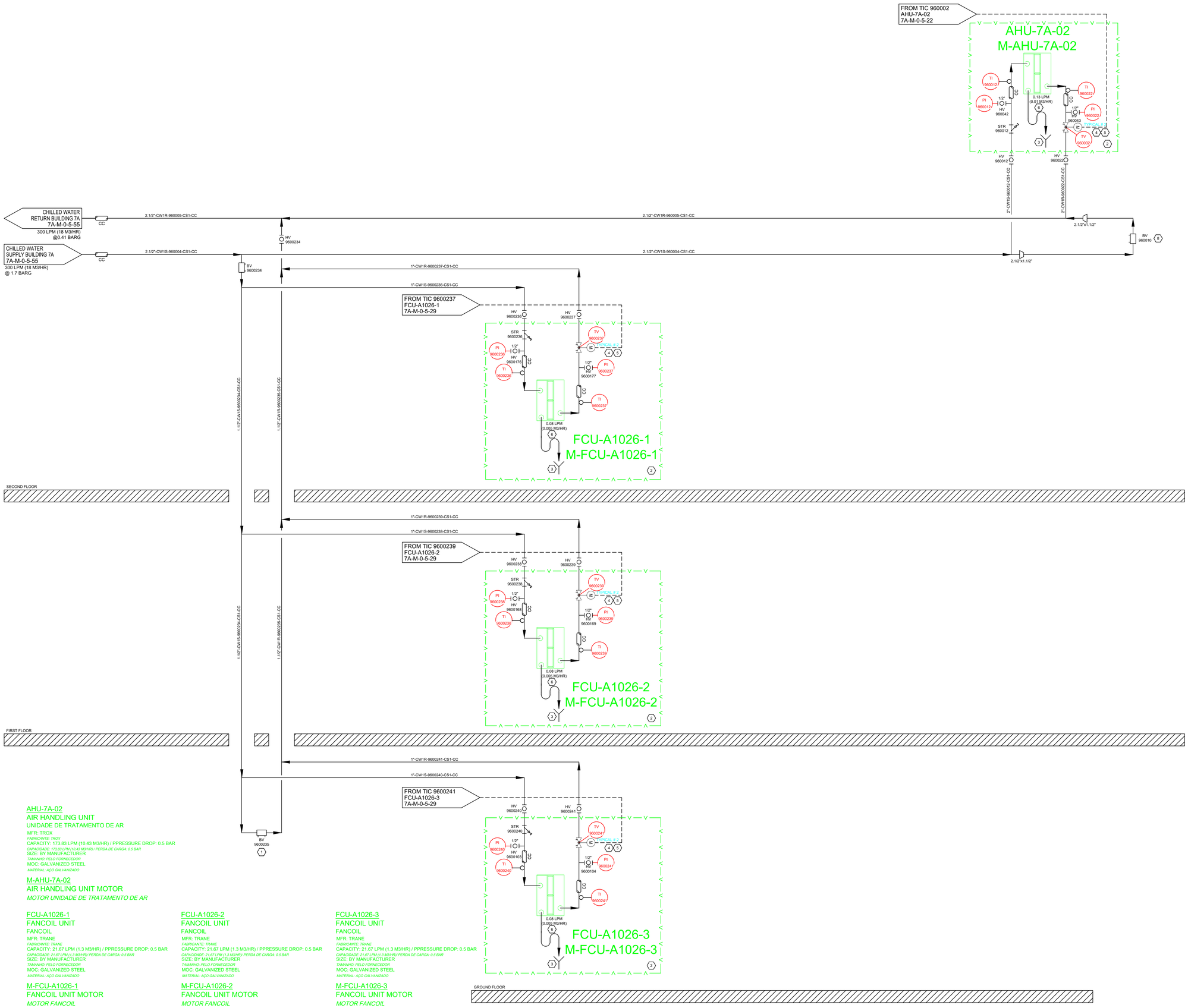

GENERAL NOTES:

1. ALL COMPONENT & EQUIPMENT NUMBER ARE PRECEDED BY "7A" TO REPRESENT THE FINAL DRUG PRODUCT (FDP) BUILDING.
   TODOS OS NUMEROS DE COMPONENTES E EQUIPAMENTOS SÃO PRECEDIDOS POR "7A" PARA REPRESENTAR O PRÉDIO "FINAL DRUG PRODUCT (FPD)"
2. MOTORIZED PRESSURE INDEPENDENT BALANCING AND CONTROL VALVES.
   VÁLVULA DE CONTROLE DE TEMPERATURA MOTORIZADA COM BALANCEAMENTO INDEPENDENTE DE PRESSÃO
3. ALL MOTORIZED VALVES - STATIONARY FAIIURE.
   TODAS AS VÁLVULAS DE CONTROLE - FALHA FECHADA
4. LAST LINE NUMBER:
   ULTIMO NUMERO DE LINHA
   9600344
   LINE NUMBER NOT USED:
   NUMERO DE LINHA NÃO UTILIZADO
   960071
   960074
   960080 to 119
   9600121 to 158
   9600160 to 169
   9600176 to 177
   9600188 to 189
   9600194 to 209
   9600242 to 249
   9600300 to 329
   9600332 to 335
   9600338 to 343
4. LAST MANUAL VALVE NUMBER:
   ULTIMO NUMERO DE VÁLVULA MANUAL
   9600348
   MANUAL VALVE NUMBERS NOT USED:
   NUMERO DE VÁLVULA MANUAL NÃO UTILIZADA
   9600159
   9600170
   9600183
   9600210
   9600218
   9600238 to 239
   9600258 to 259
   9600267 to 268
   9600278
   9600284
   9600344
5. THIS SYSTEM WAS SIZED ACCORDING TO DOCUMENT PRD-MEC-CLS-002 - CHILLED WATER SYSTEM CALCULATION (HVAC).
   ESTE SISTEMA FOI DIMENSIONADO DE ACORDO COM O DOCUMENTO PRD-MEC-CLS-002 - CÁLCULO DO SISTEMA DE ÁGUA GELADA (HVAC).

SHEET NOTES

1. BY PASS VALVE - BALANCING VALVE TO KEEP THE FLOWRATE OF 1.60 M3/HR.
   VÁLVULA DE BY-PASS - VÁLVULA DE BALANCEAMENTO MANTÊM A VAZÃO DE 1.60 M3/HR.
2. VENDOR PACKAGE.
   PACOTE DE FORNECIMENTO.
3. DRAINAGE POINT TO WASTE.
   PONTO DE DRENAGEM PARA EFLUENTE.
4. SYMBOLS REFERENCE - SEE DOCUMENT 07-M-0-5-01.
   SIMBOLOGIA DE REFERÊNCIA - VER DOCUMENTO 07-M-0-5-01.
5. MOTORIZED PRESSURE INDEPENDENT BALANCING AND CONTROL VALVES WITH ON OFF CONTROL WERE USED FOR DIAMETER OF 3/4". FOR DIAMETERS FROM 1", WERE USED THE SAME VALVES WITH MODULATING CONTROL.
   VÁLVULA DE CONTROLE DE TEMPERATURA TIPO ON-OFF UTILIZADA PARA DIÂMETROS DE 3/4". PARA DIÂMETROS A PARTIR DE 1" UTILIZADA VÁLVULA DE CONTROLE TIPO PROPORCIONAL.
6. CONDENSATION LINE - BY VENDOR
   LINHA DE CONDENSAÇÃO - PELO FORNECEDOR
7. PROVIDE AIR VENT AT THE HIGH POINT OF EACH DROP IN THE CHILLED WATER PIPING SYSTEM. ALL PIPING SHALL GRADE TO LOW POINTS. PROVIDE HOSE END DRAIN VALVES AT THE BOTTOM OF ALL RISERS AND LOW POINTS.
   PREVER ELIMINADOR DE AR EM PONTO ALTO NO SISTEMA DE ÁGUA GELADA. TUBULAÇÃO COM CAIMENTO PARA PONTOS BAIXOS. PREVER VÁLVULAS DE DRENO COM CONEXÃO PARA FLEXÍVEL ANTES DE TODAS BY-PASSES E NOS PONTOS BAIXOS DA REDE INSTALAÇÃO.
8. BY PASS VALVE - BALANCING VALVE TO KEEP THE FLOWRATE OF 1.75 M3/HR.
   VÁLVULA DE BY-PASS - VÁLVULA DE BALANCEAMENTO MANTÊM A VAZÃO DE 1.75 M3/HR.

AHU-7A-02
AIR HANDLING UNIT
UNIDADE DE TRATAMENTO DE AR
MFR: TROX
FABRICANTE: TROX
CAPACITY: 173.83 LPM (10.43 M3/HR) / PPRESSURE DROP: 0.5 BAR
CAPACIDADE: 173.83 LPM (10.43 M3/HR) / PERDA DE CARGA: 0.5 BAR
SIZE: BY MANUFACTURER
TAMANHO: PELO FORNECEDOR
MOC: GALVANIZED STEEL
MATERIAL: AÇO GALVANIZADO

M-AHU-7A-02
AIR HANDLING UNIT MOTOR
MOTOR UNIDADE DE TRATAMENTO DE AR

FCU-A1026-1
FANCOIL UNIT
FANCOIL
MFR: TRANE
FABRICANTE: TRANE
CAPACITY: 21.67 LPM (1.3 M3/HR) / PPRESSURE DROP: 0.5 BAR
CAPACIDADE: 21.67 LPM (1.3 M3/HR) PERDA DE CARGA: 0.5 BAR
SIZE: BY MANUFACTURER
TAMANHO: PELO FORNECEDOR
MOC: GALVANIZED STEEL
MATERIAL: AÇO GALVANIZADO

M-FCU-A1026-1
FANCOIL UNIT MOTOR
MOTOR FANCOIL

FCU-A1026-2
FANCOIL UNIT
FANCOIL
MFR: TRANE
FABRICANTE: TRANE
CAPACITY: 21.67 LPM (1.3 M3/HR) / PPRESSURE DROP: 0.5 BAR
CAPACIDADE: 21.67 LPM (1.3 M3/HR) PERDA DE CARGA: 0.5 BAR
SIZE: BY MANUFACTURER
TAMANHO: PELO FORNECEDOR
MOC: GALVANIZED STEEL
MATERIAL: AÇO GALVANIZADO

M-FCU-A1026-2
FANCOIL UNIT MOTOR
MOTOR FANCOIL

FCU-A1026-3
FANCOIL UNIT
FANCOIL
MFR: TRANE
FABRICANTE: TRANE
CAPACITY: 21.67 LPM (1.3 M3/HR) / PPRESSURE DROP: 0.5 BAR
CAPACIDADE: 21.67 LPM (1.3 M3/HR) PERDA DE CARGA: 0.5 BAR
SIZE: BY MANUFACTURER
TAMANHO: PELO FORNECEDOR
MOC: GALVANIZED STEEL
MATERIAL: AÇO GALVANIZADO

M-FCU-A1026-3
FANCOIL UNIT MOTOR
MOTOR FANCOIL

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REV	DATE	DESCRIPTION	BY	CHECK	APPR
A	16APR2021	90% DD ISSUE	JRM	CCO	MSS
0	23JUL2021	ISSUED FOR CONSTRUCTION	JRM	LFF	MSS

TESSLER engenharia
R. Dr. Cesário Mota Júnior, 424 - Vila Buarque, São Paulo - SP, 01221-020

REVISION A NOTES

- THIS DOCUMENT COMPLEMENTS THE 7A-M-0-5-44.
- ESTE DOCUMENTO COMPLEMENTA O DOCUMENTO 7A-M-0-5-44.

REVISION 0 NOTES

- AHU-7A-02 FLOWRATE HAVE BEEN UPDATED.
- ATUALIZAÇÃO DE VAZÃO DA AHU-7A-02.
- FLAGS DATA HAS BEEN UPDATED.
- ATUALIZAÇÃO DOS DADOS DAS BANDEIROLAS.

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CLIENT
Takeda
Hemobrás Empresa Brasileira de Hemoderivados e Biotecnologia
BURITI EPCMV

DRAWING TITLE
P&I DIAGRAM
DRUG PRODUCT
CHILLED WATER
DISTRIBUTION SYSTEM (4/4)

ENGINEER	ARCHITECT	DESIGNER	IPS PROJECT #
LFF	BJE	FJT	ITD19439.01
DRAWN BY	REVIEWED BY	SCALE	CADD FILE NAME
JRM	CCO	NONE	7A-M-0-5-56=0

XREF FILE(S)

DRAWING NUMBER
7A-M-0-5-56

Z:\BIBLIOMAN\ARQ\ENG\11-PROCESSO\ANDAMENTO\FDP\PRD\FDP\BS\DWG\CHILLED WATER, HVAC\7A-M-0-5-56=0.dwg, Z-22-21, 05:14:31 PM, jjrosso