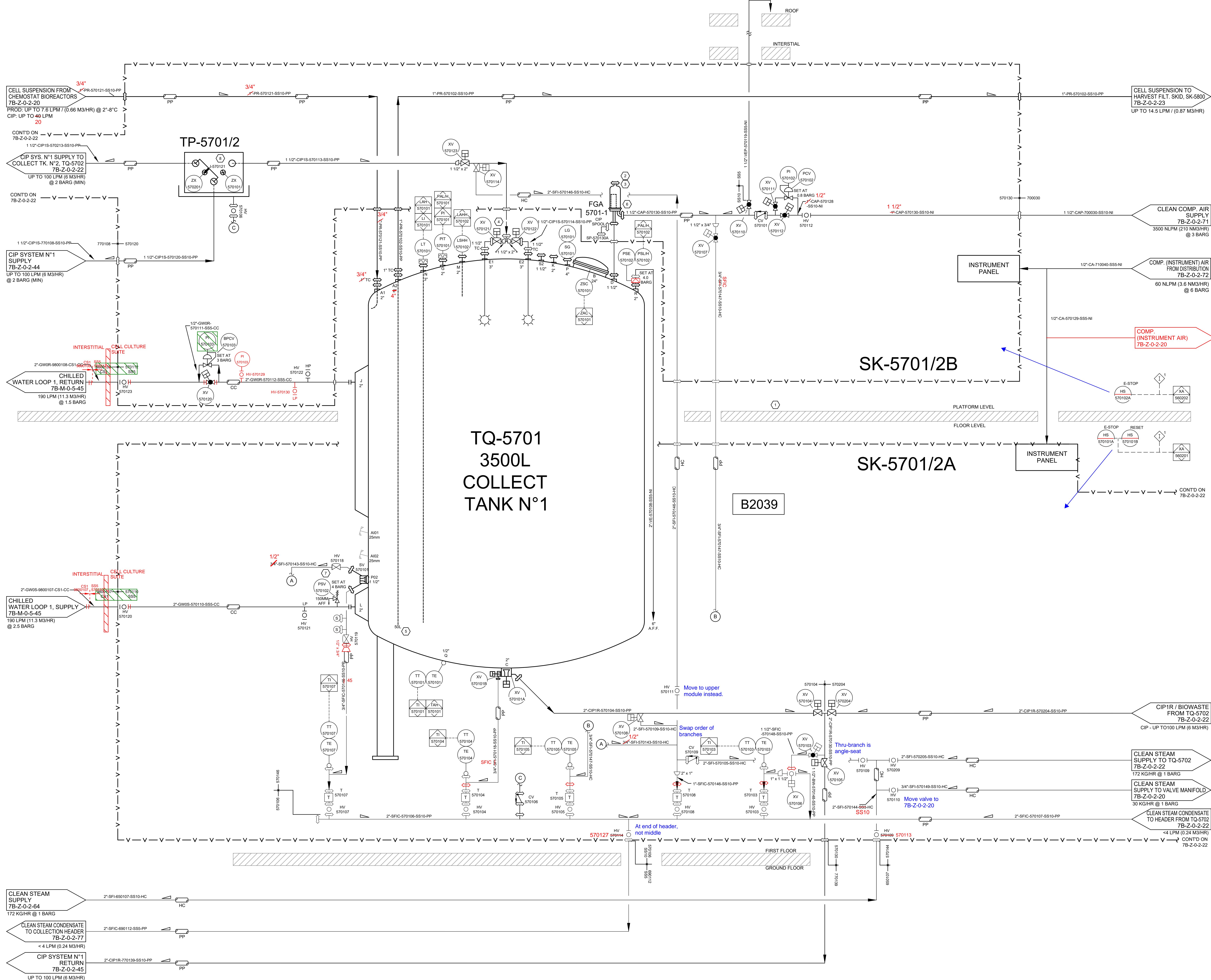


\\ipsdbs\corporate\SPSA\Projects\2019\19439\B. DESIGNS\10 Project Drawings\Process\7B-BDS\7B-Z-0-2-21.dwg 8-16-21 05:24:01 PM mmolin



TQ-5701
COLLECT TANK
TYPE: JACKETED, ASME PRESS. RATED
CAPACITY: 3500L WORKING
SIZE: 1524mm ID X 1982mm TT
MOC: 316LSS
RATING: VESJUKT, 4 BARG, FV / 4 BARG, FV

FGA-5701-1
VENT FILTER
TYPE: HOUSELEEM-J-STYLE, GAS / 0.2 µm
CAPACITY: 3500 NLP / 210 NM3HR (1.0 VVM)
SIZE: 1 RD X 10" H
MOC: 316L HOUSING/PTFE ELEMENT
DPI/DI: ≤ 0.14 BAR
DESIGN PRESSURE: 10 BARG / FV

TP-5701/2
TRANSFER PANEL
TYPE: HYGIENIC, CUSTUM 3-PORT
DUTY: VESSEL CIP
SIZE: TBD
MOC: 316LSS
ASSEC: 1 U-BEND, 2 PROX. SWITCHES

SK-5701/2A
LOWER PIPING MODULE
TYPE: HYGIENIC PIPING MODULE
FLOW: TBD
SIZE: TBD
MOC: 304SS FRAME

SK-5701/2B
UPPER PIPING MODULE
TYPE: HYGIENIC PIPING MODULE
FLOW: TBD
SIZE: TBD
MOC: 304SS FRAME

- GENERAL NOTES:**
- 1 ALL COMPONENT & EQUIPMENT NUMBERS ARE PRECEDED BY "7B" TO REPRESENT THE BULK DRUG SUBSTANCE (BDS) BUILDING
 - 2 ALL AUTOMATIC VALVES FAIL CLOSED (F.C.) UNLESS NOTED FAIL OPEN (F.O.)
 - 3 ALL PLC/COMPUTER CONNECTIONS ARE WITHIN THE PCS UNLESS OTHERWISE NOTED.
 - 4 LAST LINE NUMBER
 - 5 LINE NUMBER NOT USED:
570101, 03, 22, 27, 29, 32, 41
 - 6 LAST AUTO VALVE NUMBER:
XV-570123
 - 7 AUTO VALVE NUMBERS NOT USED:
NONE
 - 8 LAST MANUAL VALVE NUMBER:
HV-570109, 21
 - 9 MANUAL VALVE NUMBERS NOT USED:
HV-570101, -02, 48
 - 10 ALL PLC/COMPUTER CONNECTION ARE WITHIN THE PCS UNLESS OTHERWISE NOTED.

- SHEET NOTES**
- 1 THE EQUIPMENT ACCESS PLATFORM IS NOT PART OF THE PROCESS SKID VENDORS SCOPE AND WILL BE FIELD ERCTED.
 - 2 FILTER HOUSING WILL BE CLEANED OUT OF PLACE.
 - 3 FILTER INTEGRITY TESTING PERFORMED OUT OF PLACE.
 - 4 SPRAYBALL ASSEMBLY WITH DIAPHRAGM VALVES (XV-570121/570122) TO BE PROVIDED LOOSE BY VENDOR FOR FIELD INSTALLATION.
 - 5 DIPTUBE TO EXTEND TO SOL. WORKING VOLUME LEVEL. FOLLOWING HARVEST FILTRATION, REMAINING SOL OF CELL CULTURE IN COLLECTION TANK IS DRAINED TO BIOWASTE THROUGH BOTTOM OUTLET VALVE.
 - 6 JUSTIFY FILTER W/ EXTENDED STRAIGHT FERRULE. FILTER HOUSING REPLACED WITH SPOOL PIECE DURING VESSEL CIP.
 - 7 SAMPLE TEES TO BE ORIENTED AWAY FROM OPERATOR DURING MANUAL ACTUATION OF HV-570115.
 - 8 PORTS/NOZZLES SUPPLIED WITH 316L SS STAINLESS STEEL BLIND CAPS WITH BLEED VALVES FOR ZERO ENERGY.

- INTERLOCKS**
- 1 SAFETY INTERLOCK - E-STOP ACTIVATION REMOVES AIR TO ALL ACTUATED VALVES AND DE-ENERGIZES ALL MOTORS (HARDWIRED).
 - 9 DIPTUBE AND LEVEL PROBE SHALL BE LIFTED AT LEAST 'X' VERTICALLY FROM NOZZLE BEFORE BEING TILTED FOR FULL REMOVAL FROM VESSEL IN ORDER TO AVOID CONTACT WITH VESSEL WALL.

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REVISION	DATE	DESCRIPTION	BY
A	01JUL2020	50% BD ISSUE	JJR
B	28AUG2020	90% BD ISSUE	JJR
C	27NOV2020	DESIGN ISSUE	JJR
D	12FEB2021	100% BD ISSUE	RJD
E	16JUL2021	90% DD ISSUE	RJD
F	16AUG2021	CONSTRUCTION ISSUE	RJD

DRAFT
INTERIM P&ID REDLINES
14JUL2022



R. Dr. Cesário Mota Júnior, 434 - Vila Buarque, São Paulo - SP, 01221-020

REVISION HISTORY

1 REV 0 - NONE.

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Takeda
Hemobrás
BURI TI EPCMV

P&I DIAGRAM
DRUG SUBSTANCE
3400L COLLECTION
TANK N°1, TQ-5701

ENGINEER	ARCHITECT	DESIGNER	IPS PROJECT #
JJR	BUE	JJR	ITD19439.01
DRAWN BY	REVIEWED BY	SCALE	CADD FILE NAME
LG	GJC	NONE	7B-Z-0-2-21

REVISION 0 A VERSION
DRAWING NUMBER
7B-Z-0-2-21

ISSUED FOR CONSTRUCTION

THIS IS NOT A SEALED DOCUMENT
DATE: