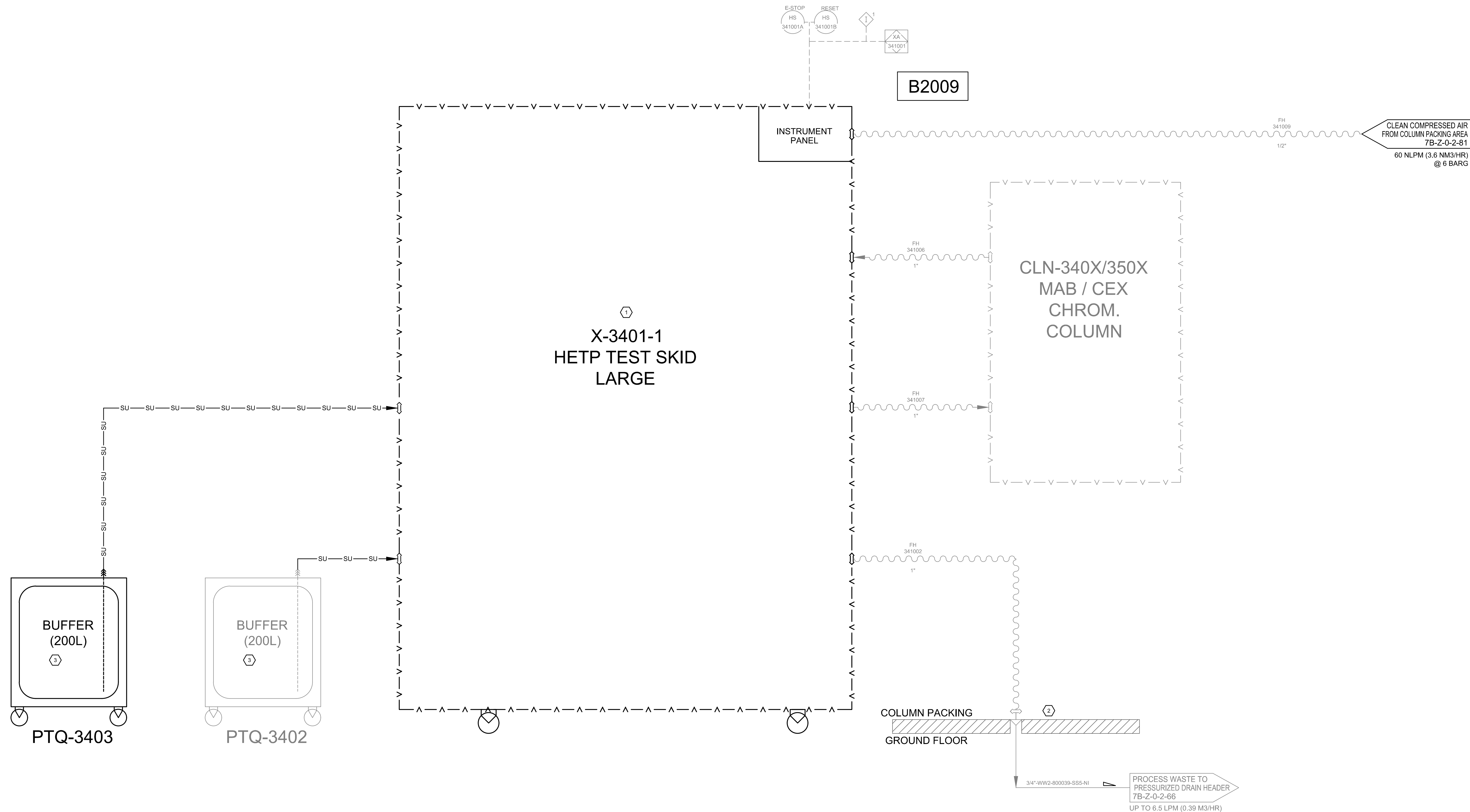


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X-3401-1
HETP TEST SKID

TYPE: MULTI PUMP
CAPACITY: 15-500 LPH
MFC: TBD
MOC: 316L SS
ELEC: 0A, 3PH/60HZ/380V

PTQ-3403
BUFFER PALLETANK

TYPE: NON-JACKETED, PORTABLE
CAPACITY: 200L
SIZE: 860mm x 660mm x 929mm
MOC: 304L SS / SILICONE BAG

ISSUED FOR
CONSTRUCTION

SEAL

THIS IS NOT A
SEALED DOCUMENT

DATE: _____

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 P.I.C. COMPUTER CONNECTIONS ARE WITHIN THE PCS UNLESS OTHERWISE NOTED.
4. LAST LINE NUMBER: N/A
5. LINE NUMBER NOT USED: NONE
6. LAST AUTO VALVE NUMBER: NONE
7. AUTO VALVE NUMBERS NOT USED: NONE
8. LAST MANUAL VALVE NUMBER: NONE
9. MANUAL VALVE NUMBERS NOT USED: NONE

SHEET NOTES

1. TO ASSIST IN MONITORING THE PROCESS, THE CHROMATOGRAPHY SKIDS WILL BE SUPPLIED WITH UV DETECTORS, CONDUCTIVITY SENSORS AND PH SENSORS.
2. NORMALLY A SEALED DRAIN, CONNECTED TO EQUIPMENT FOR PROCESS WASTE DRAIN.
3. UTILITY CONNECTIONS, ANCILLARY EQUIPMENT AND FLEXIBLE HOISING ARE SHARED BETWEEN ALL EQUIPMENT IN COLUMN PACKING.

INTERLOCKS

1. SAFETY INTERLOCK - E-STOP ACTIVATION REMOVES POWER SUPPLY TO PROCESS SKID TO AND REMOVES POWER SUPPLY TO RECEPTACLES (HARDWIRED).

ips

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REVISION	DATE	DESCRIPTION	BY
A	12FEB2021	90% DD ISSUE	RLD
B	06AUG2021	90% DD ISSUE	RLD
0	02SEP2021	CONSTRUCTION ISSUE	RLD

TESSLER
engenharía

R. Dr. Cesário Motta Júnior, 424 - Vila Bourque, São Paulo - SP, 01211-020

REVISION HISTORY

1. REV. 0 - ADDED PALLETANK DIMENSIONS.

CONFIDENTIAL

THE INFORMATION CONTAINED HEREIN MAY NOT BE USED OR REPRODUCED IN ANY MANNER WITHOUT WRITTEN PERMISSION OF INTEGRATED PROJECT SERVICES.

CLIENT

Takeda

Hemobrás
Empresa S.A. de Capital de Risco e Participações

BURITI EPCMV

DRAWING TITLE

**P&I DIAGRAM
DRUG SUBSTANCE
HETP TEST SKID, LARGE
X-3401-1**

ENGINEER RLD	ARCHITECT BJE	DESIGNER RBN	IPS PROJECT # ITD19439.01
DRAWN BY RBN	REVIEWED BY GJC	SCALE NONE	CADD FILE NAME 7B-Z-0-2-82

XREF FILE(S)

DRAWING NUMBER

7B-Z-0-2-82