

[illegible]

REVISION HISTORY

1. REV D - NONE

GENERAL NOTES

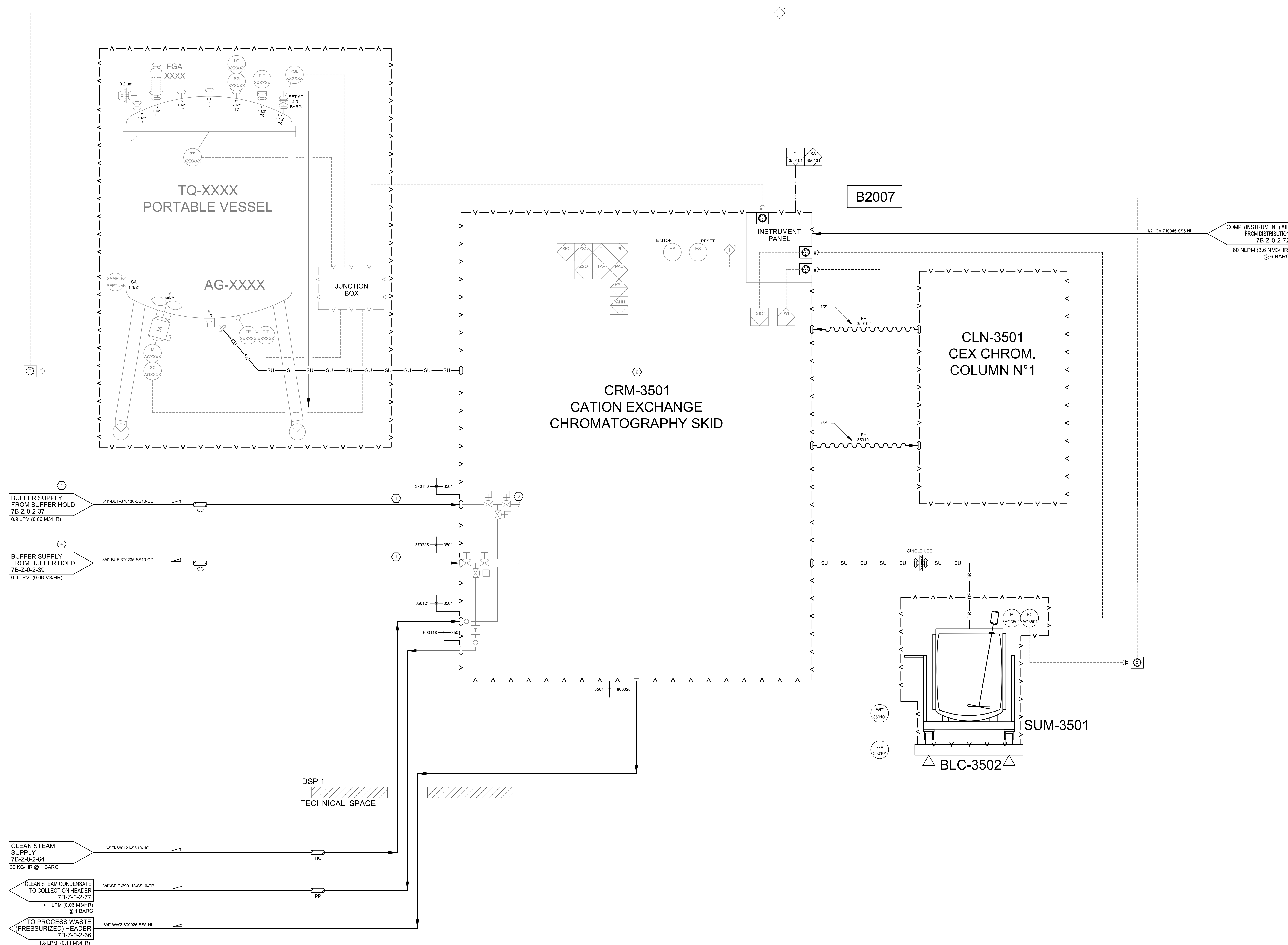
- 1 ALL COMPONENT & EQUIPMENT NUMBERS ARE PRICED BY IN TP TO REPRESENT THE BULK DRUG SUBSTANCE (BDS) BUILDING.
- 2 ALL AUTOMATIC VALVES FAIL CLOSED (F.C.) UNLESS NOTED FAIL OPEN (F.O.).
- 3 ALL PLC/COMPUTER CONNECTIONS ARE WITHIN THE ROOMS UNLESS OTHERWISE NOTED.
- 4 LAST LINE NUMBER:
N/A
- 5 LINE NUMBER 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 BUFFER FEED LINES ARE STEAMED-IN-PLACE USING CLEAN STEAM SUPPLIED FROM CLEAN STEAM DISTRIBUTION THROUGH THE CHROMATOGRAPHY SKID VALVES.
- 2 TO ASSIST IN MONITORING THE PROCESS, THE CHROMATOGRAPHY SKIDS WILL BE SUPPLIED WITH UV DETECTORS, CONDUCTIVITY SENSORS AND PH SENSORS.
- 3 NOT INTENDED AS FINAL DESIGN, ONLY SHOWING DESIGN INTENT WITH VENDOR RESPONSE FOR FINAL DESIGN.
- 4 CHROMATOGRAPHY SKID SHALL CONTROL EXTERNAL BUFFER FEED DIAPHRAGM VALVES.

INTERLOCKS

- 1 SAFETY INTERLOCK - E-STOP ACTIVATION REMOVES AIR TO ALL ACTUATED VALVES AND DE-ENERGIZES ALL MOTORS ON SKID AND PORTABLE TANK DE-ENERGIZED RECEPTACLE FOR PORTABLE TANK AGITATOR AND SINGLE-USE MIXER AGITATOR (HARDWIRED).



CRM-3501 CEX CHROM	CLN-3501 CEX CHROM COLUMN 1	SUM-3501 CEX ELUTION SINGLE-USE MIXER	BLC-3502 CEX ELUTION FLOOR SCALE
TYPE: MULTI PUMP CAPACITY: 155 LPH MFC: 216 LPH SIZE: 316L SS ELEC: 400, 3P/1600HZ/380V	TYPE: ISOPAK CAPACITY: 4L CV SIZE: 30 CM MOD: HASTELOY C22	TYPE: PORTABLE CAPACITY: 15L SIZE: TBD MOD: 316 SS CONTAINER, TBD BAG	TYPE: PORTABLE FLOOR SCALE CAPACITY: 250 KG SIZE: 750mm x 750mm MOD: 304 SS

SEAL

THIS IS NOT A
SEALED DOCUMENT

DATE:

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ISSUED FOR
CONSTRUCTION

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BURITI EPCMV

DRAWING TITLE

**P&I DIAGRAM
DRUG SUBSTANCE
CATION EXCHANGE CHROM
CRM-3501**

ENGINEER JJR	ARCHITECT JBE	DESIGNER RBN	IPS PROJECT # ITD19439.01
DRAWN BY RN	REVIEWED BY GJC	SCALE NONE	CADD FILE NAME 7B-Z-0-2-29

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