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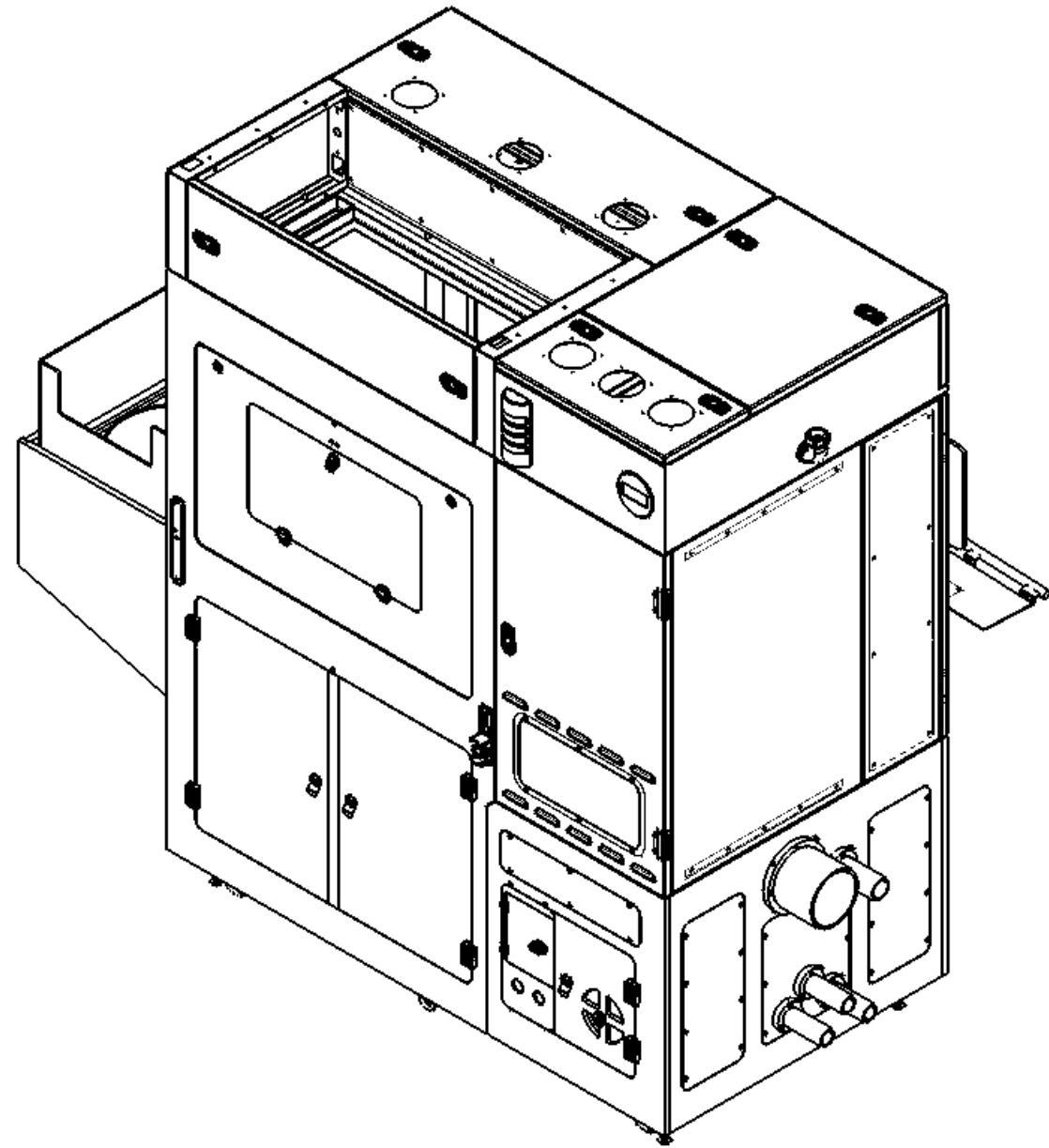
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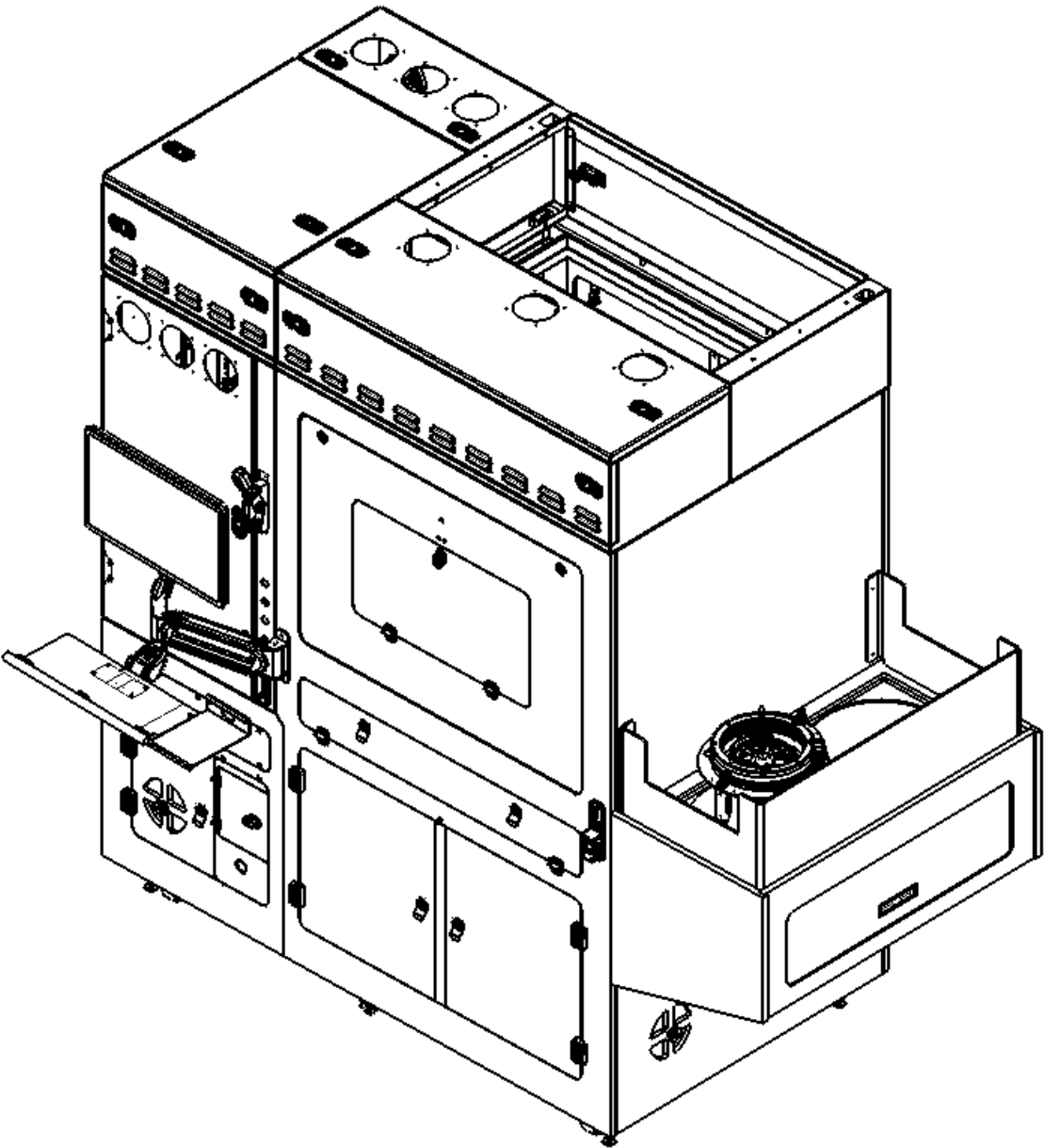
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REVISIONS				
REV	ZN	DESCRIPTION	DATE	DESIGNER
A		INITIAL RELEASE FOR CUSTOMER APPROVAL	6/20/2016	J. IVERSON



REAR VIEW



FRONT VIEW

GENERAL VIEWS

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS
DRAWING, IN PART OR AS A WHOLE, SHALL
NOT BE REPRODUCED OR DISCLOSED TO
OTHERS, UNLESS AUTHORIZED IN WRITING
BY CLASSONE TECHNOLOGY INC.

ORIGINAL DESIGNER CREATED
JEFF IVERSON 6/1/2016

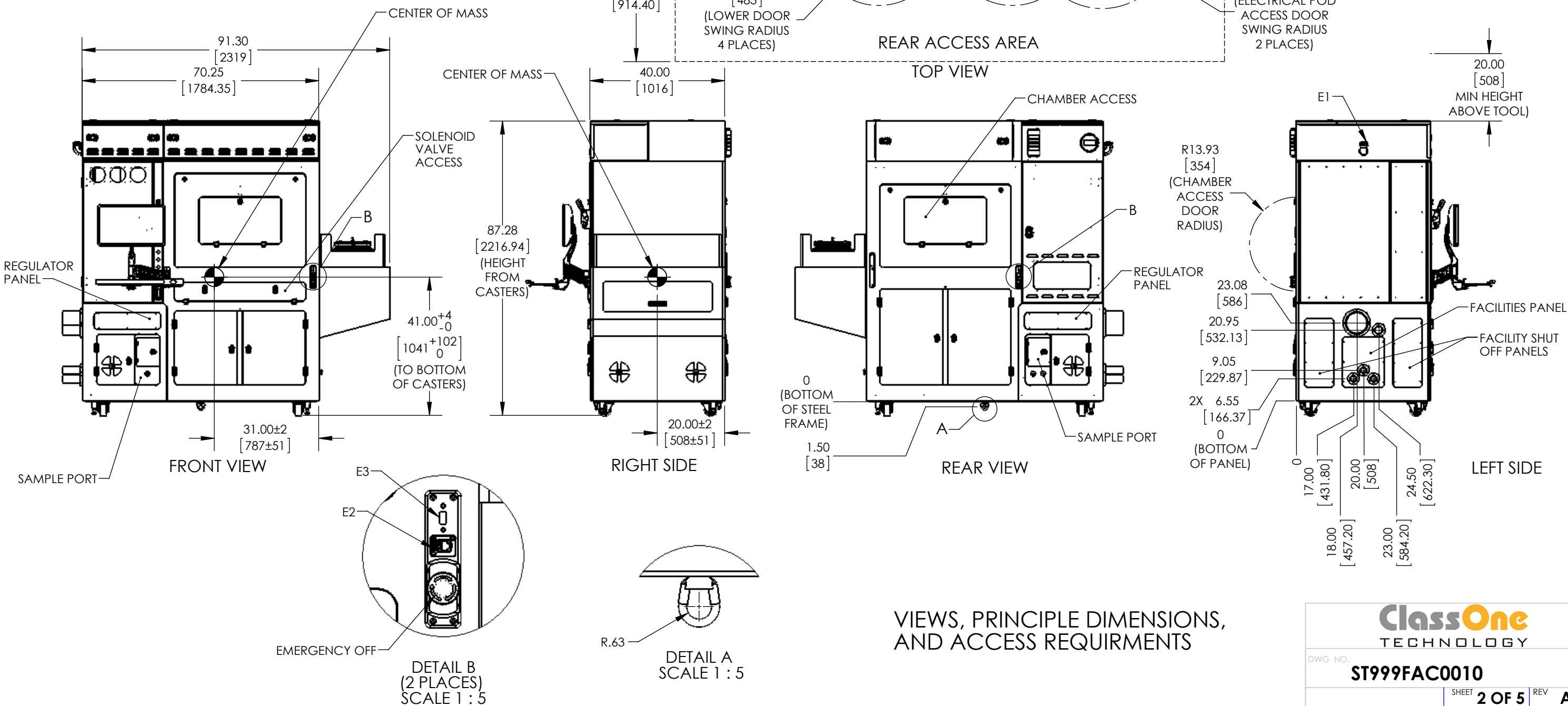
DWG NO. **ST999FAC0010**

ClassOne
TECHNOLOGY
**FACILITIES REQUIREMENTS,
SOLSTICE LT, LEFT SIDE FACILITIES,
IBM, ID 3933, S.O. 11043**

SHEET **1 OF 5** REV **A**

ELECTRICAL INTERFACES

NUMBER	DESCRIPTION	CONNECTION	SPECIFICATION
E1	MAIN POWER	1 1/2" CONDUIT	208 VAC, 40A, 3 PHASE, 5 WIRE
E2		RJ45	ETHERNET COMM
E3		USB	USB-2



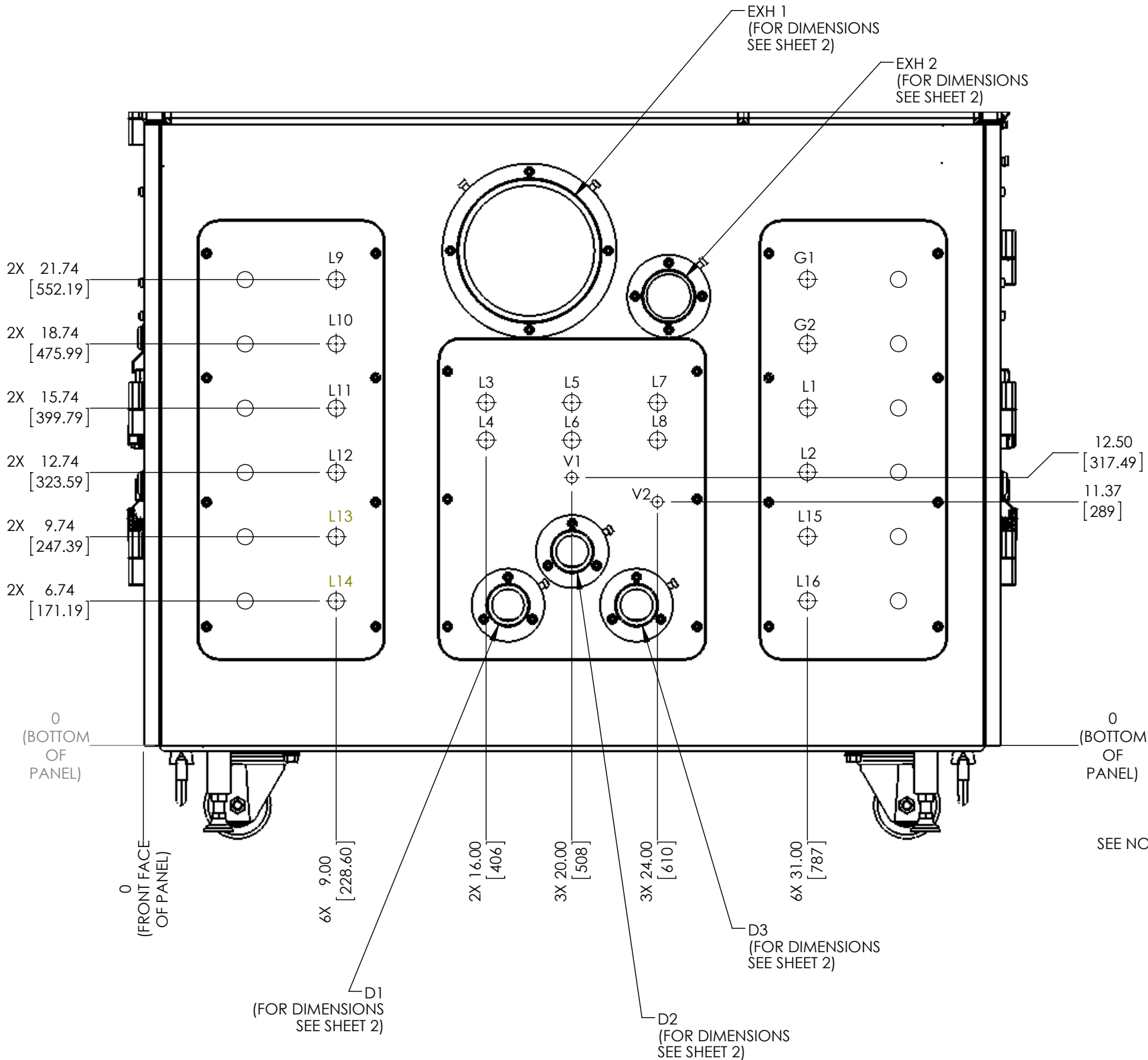
- NOTES:
1. PROCESS CHAMBER EXHAUST FLOW ARE BASED ON THE PROCESS HEADS BEING IN THE WAFER TRANSFER POSTION (WITH HEADS IN THE PROCESS POSITION EXHAUST FLOW WILL BE CONSIDERABLY LESS)
 2. TOTAL PROCESS CHAMBER EXHAUST FLOW IS BASED ON 20 SCFM PER PROCESS CHAMBER
 3. DUAL CONTAINMENT FITTING CONSTISTS OF A 3/4" O.D. TUBE FLARE CONNECTION AT THE FACILITIES PANEL WITH A 1/2" O.D. TUBE THAT PASSES THROUGH THE 3/4" TUBE WITH A FLARE CONNECTION INSIDE THE TOOL.

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LIQUIDS

NUMBER	DESCRIPTION	CONNECTION	PRESSURE	FLOW RATE
L1	DI WATER SUPPLY	1/2" PFA, FLARE	40-50 psig	4 GPM
L2	DI WATER RETURN	1/2" PFA, FLARE	VARIABLE	ADJ.
L3	HEATER/CHILLER TANK 1 SUPPLY	1/2" PFA, FLARE	20-40 PSIG	1-2 GPM
L4	HEATER/CHILLER TANK 1 RETURN	1/2" PFA, FLARE	N/A	N/A
L5	HEATER/CHILLER TANK 2 SUPPLY	1/2" PFA, FLARE	20-40 PSIG	1-2 GPM
L6	HEATER/CHILLER TANK 2 RETURN	1/2" PFA, FLARE	N/A	N/A
L7	HEATER/CHILLER TANK 3 SUPPLY	1/2" PFA, FLARE	20-40 PSIG	1-2 GPM
L8	HEATER/CHILLER TANK 3 RETURN	1/2" PFA, FLARE	N/A	N/A
L9	CHEM 1 BULKFILL	3/4" PFA, FLARE (SEE NOTE 3)	MAX. 75 PSIG	N/A
L10	CHEM 3 BULKFILL	3/4" PFA, FLARE (SEE NOTE 3)	MAX. 75 PSIG	N/A
L11	CHEM 1 BOTTLE FILL	3/4" PFA, FLARE (SEE NOTE 3)	N/A	N/A
L12	CHEM 1 BOTTLE RECLAIM	3/4" PFA, FLARE (SEE NOTE 3)	N/A	N/A
L13	CHEM 2 BOTTLE FILL	3/4" PFA, FLARE (SEE NOTE 3)	N/A	N/A
L14	CHEM 2 BOTTLE RECLAIM	3/4" PFA, FLARE (SEE NOTE 3)	N/A	N/A
L15	CHEM 3 BOTTLE FILL	3/4" PFA, FLARE (SEE NOTE 3)	N/A	N/A
L16	CHEM 3 BOTTLE RECLAIM	3/4" PFA, FLARE (SEE NOTE 3)	N/A	N/A

DRAINS

NUMBER	DESCRIPTION	CONNECTION	PRESSURE	FLOW RATE
D1	LIGHT WASTE DRAIN	1 1/2" CPVC, SCH 80, STUB	GRAVITY	N/A
D2	INDUSTRIAL WASTE DRAIN	1 1/2" CPVC, SCH 80, STUB	GRAVITY	N/A
D3	CONCENTRATED WASTE DRAIN	1 1/2" CPVC, SCH 80, STUB	GRAVITY	N/A

GASES

NUMBER	DESCRIPTION	CONNECTION	PRESSURE	FLOW RATE
G1	CLEAN DRY AIR	1/2" PFA, FLARE	90-100 psig	10-15 SCFM
G2	PROCESS NITROGEN	1/2" PFA, FLARE	35-45 psig	5-7 SCFM

EXHAUSTS

NUMBER	DESCRIPTION	CONNECTION	PRESSURE	FLOW RATE
EXH 1	CABINET	6" PVC, SCH 40, STUB	.2" - 1.0" H2O	500 SCFM
EXH 2	PROCESS CHAMBER	2" PVC, SCH 40, STUB	.5" - 1.5" H2O	20 SCFM

VACUUM

NUMBER	DESCRIPTION	CONNECTION	PRESSURE	FLOW RATE
V1	VACUUM WAND	1/4" PFA COMPRESSION	22-24" HG	-
V2	PRE-WET CHAMBER VACUUM	3/8" O.D. TUBING SS COMPRESSION	--	--

FACILITIES PANEL

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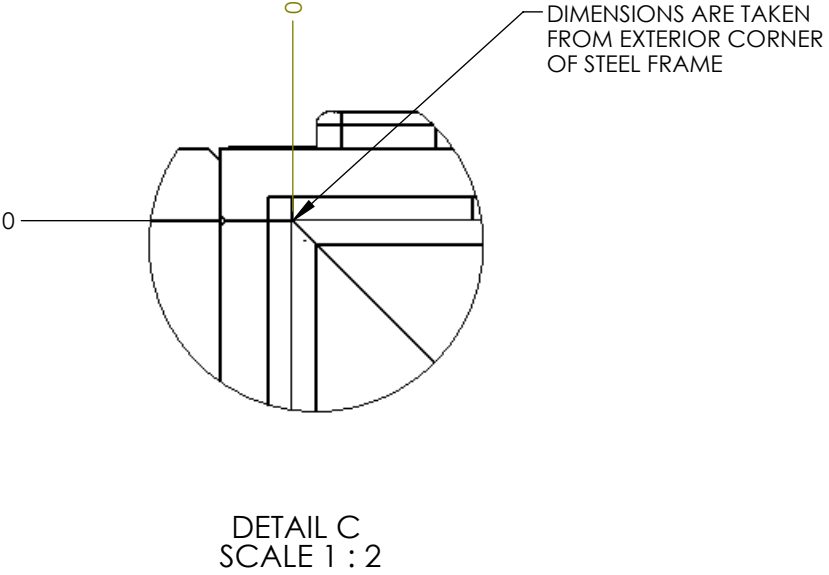
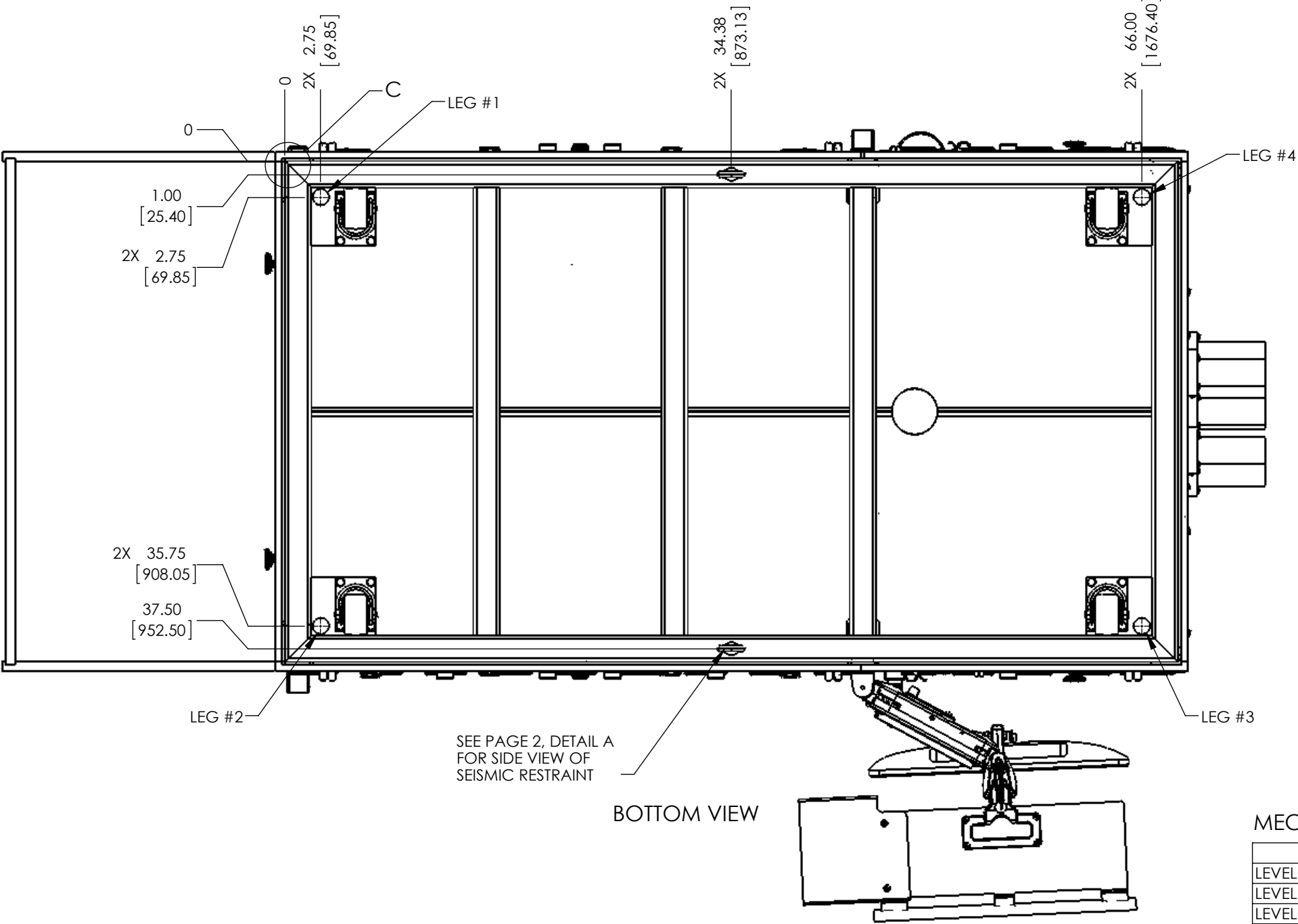
SHEET

3 OF 5

REV

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NOTES:
1. LEVELING THE TOOL SIGNIFICANTLY AFFECTS THE WEIGHT ON EACH LEVELING LEG, AS MUCH AS (2X) IF SOME LEVELING LEGS ARE NOT ENGAGED. GALLING OF THE THREADS ON THE LEGS MAY OCCUR IF WEIGHT IS NOT DISTRIBUTED TO ALL LEGS WHEN LEVELING
2. THESE WEIGHTS ARE ANTICIPATED LOADS (±20%)



MECHANICAL

DESCRIPTION	SPECIFICATION	LOAD DISTRIBUTION
LEVELING LEG #1	1 1/4" SWIVEL BASE	485
LEVELING LEG #2	1 1/4" SWIVEL BASE	485
LEVELING LEG #3	1 1/4" SWIVEL BASE	400
LEVELING LEG #4	1 1/4" SWIVEL BASE	400
	TOTAL	1770
SEISMIC RESTRAINT	1 1/4" OVAL EYEBOLT	

SEISMIC AND LEVELING DIMENSIONS

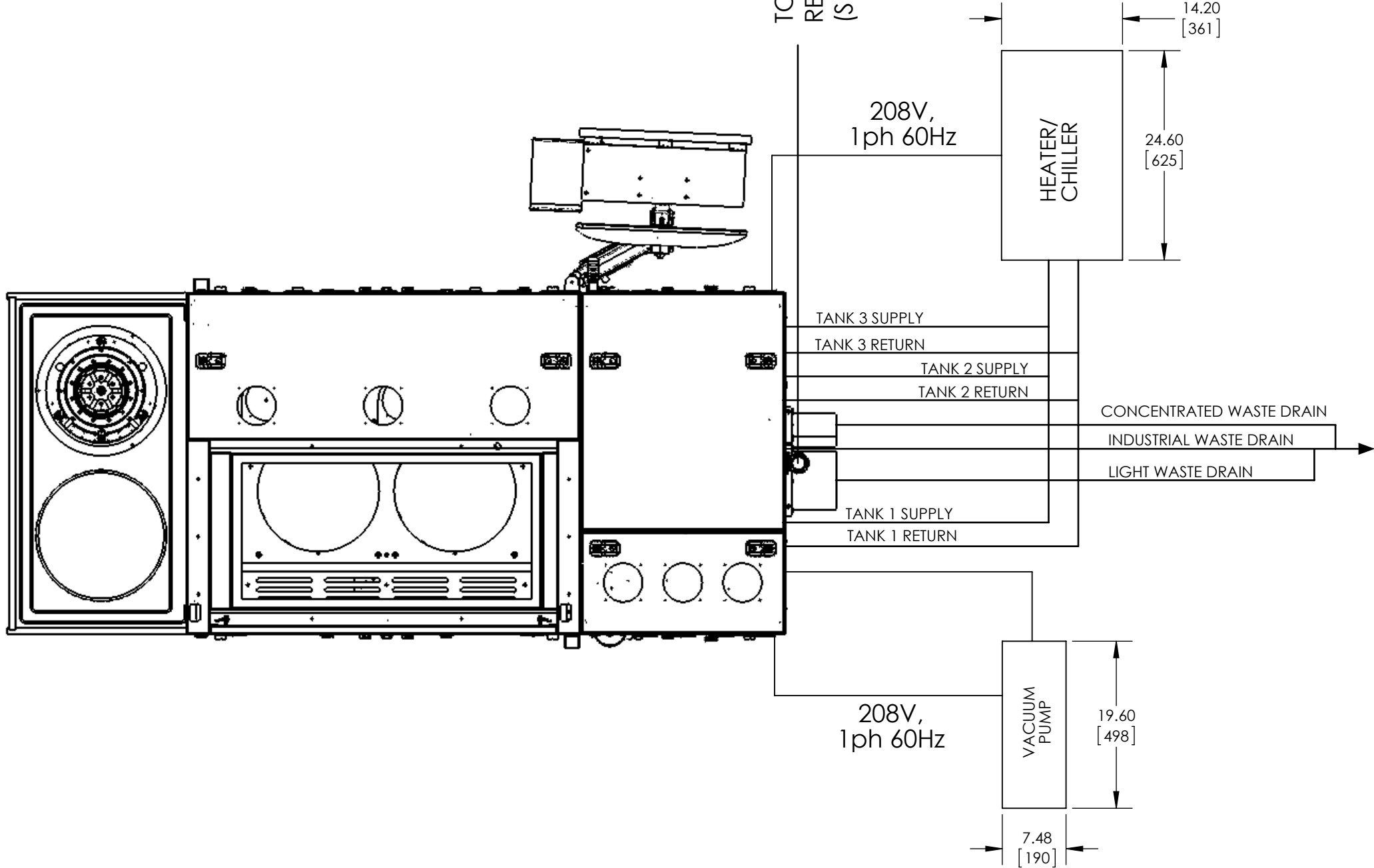
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SHEET **4 OF 5** REV **A**

- NOTES:
- 1. DRAWING IS ONLY A SCHEMATIC, COMPONENTS ARE NOT TO SCALE AND SHOULD NOT BE USED TO LOCATE INDIVIDUAL COMPONENTS WITHIN FAB
 - 2. PLUMBING AND WIRING NEEDED TO INTERCONNECT COMPONENTS OR SUPPLY COMPONENTS ARE NOT SUPPLIED UNLESS OTHERWISE SPECIFIED
 - 3. HEATER/CHILLERS SHOULD BE PLACED AS CLOSE TO SOLSTICE AS IS REASONABLY POSSIBLE IN ORDER TO MAINTAIN A SHORT LINE LENGTH. AS THE LINE LENGTH DISTANCE TO THE HEATED/COOLED TANKS INCREASES, THE ABILITY TO MAINTAIN PROCESS TEMPERATURE DECREASES.

TOOL POWER
REQUIREMENTS
(SEE SHEET 2)



FACILITY INTERCONNECT DIAGRAM

DIMENSIONS ARE IN INCHES
MILLIMETERS ARE IN PARENTHESISE