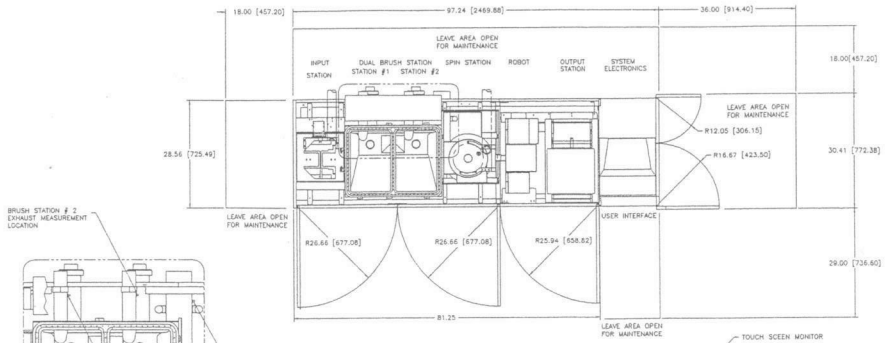
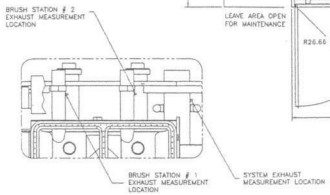
19-0200-058	D

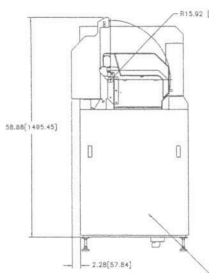
EC#	REV	ZONE/PG	DESCRIPTION	DRW	APPROVAL	DATE
7081	1		PROTOTYPE RELEASE	LL	T.G.	10/04/96
7099	2		N2 ERADICATION	GB	BY	10/14/96
7114	3		ADD NOTE 20 AND 21	SMS	T.G.	10/17/96
7169	4		ADD SPIN STATION INTLK / NOTES	MH	LL	05/11/96
7206	5		CHG SYSTEM EXHAUST TO 1" AND UPDATE DIMENSIONS	BB	LL	12/03/96
3890	A		PRODUCTION RELEASE	BB		
3964	B	C-B	ADD EXHAUST MEASUREMENT LOCATION DETAIL	NC		
3976	C		MOVE SPIN DRAIN	BB		
4279	D		ADDED CENTER OF GRAVITY AND SEISMIC RESTRAINT INFORMATION, NOTE 22	GB		



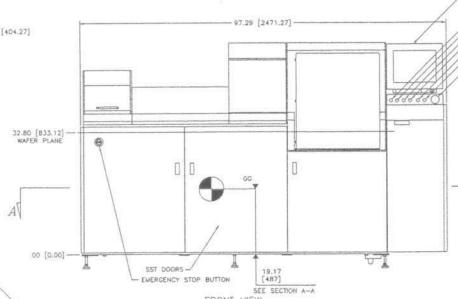
TOP VIEW



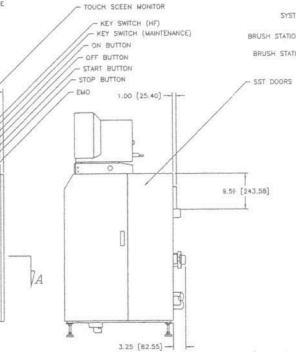
ENLARGED DETAIL



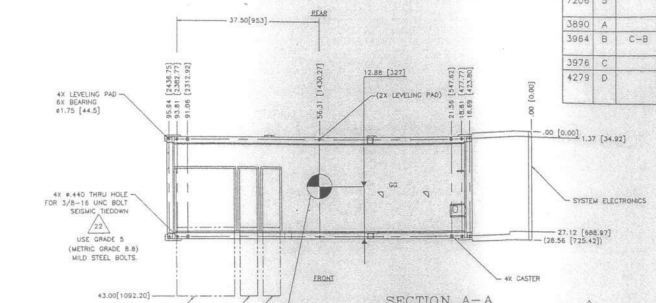
INPUT STATION END



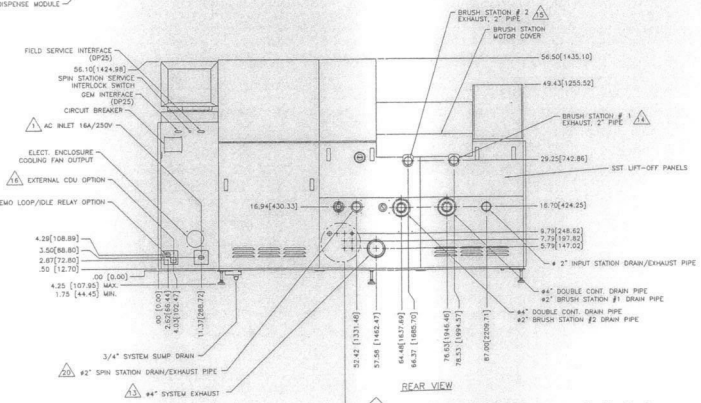
FRONT VIEW



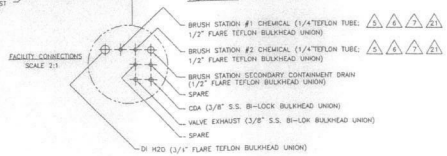
ELECTRONICS END
(STATION COVERS NOT SHOWN)



SECTION A-A
SEISMIC TIEDOWN, CASTER & LEVELING PAD LOCATIONS 22
FLOOR DESIGN SHALL BE FOR 500 LB PER PAD.



REAR VIEW



FACILITY NOTES: UNITS IN [BRACKETS] ARE METRIC EQUIVALENTS.

1 POWER: 120 VAC, 20A, 60 HZ, SINGLE PHASE (4.2A STANDBY, 13.5A INTERMITTENT), 3 WIRE CONNECTION (#12 AWG). AC INLET 16A/250V; SCHURTER RECEPTICLE P/N 6153.3100.

2) CLEAN DRY AIR OR ARGON (PNEUMATICS): 80 PSI MIN [551 kPa] - 100 PSI MAX [690 kPa] INLET PRESSURE @ 12-15 CFM [0.31-.43 m^3/MIN] (INTERNALLY REGULATED TO 75 PSI [517 kPa]). QTY 1 - 3/8" O.D. STAINLESS STEEL BI-LOK BULKHEAD UNION.

3) D.I. WATER: 60 PSI MIN [413 kPa] - 80 PSI MAX [551 kPa] INLET PRESSURE (INTERNALLY REGULATED TO 50 PSI [345 kPa]), 132 GPH PEAK [499 L/H], 60 GPH IDLE [227 L/H]. QTY 1 - 3/4" O.D. TEFLON FLARE BULKHEAD UNION.

5 2% NH4OH: 20 +/- 5 PSI [138 +/- 34 kPa] INLET PRESSURE. - 11/4" O.D. TEFLON TUBE, 1/2" O.D. FLARE BULKHEAD UNION.

6 29% NH4OH: 20 +/- 5 PSI [138 +/- 34 kPa] INLET PRESSURE. - 1/4" O.D. TEFLON TUBE, 1/2" O.D. FLARE BULKHEAD UNION.

7 0.5 TO 1% HF: 20 +/- 5 PSI [138 +/- 34 kPa] INLET PRESSURE. - 1/4" O.D. TEFLON TUBE, 1/2" O.D. FLARE BULKHEAD UNION.

8) SPIN STATION DRAIN & EXHAUST: 50 +/- 10 SCFM [1.42 +/- 0.28 m^3/MIN] @ 2"[50.8 mm] H20. QTY 1 - 2" PVC PIPE.

9) INPUT STATION DRAIN & EXHAUST: 5 (+5, -0) SCFM [0.14 (+0.14, -0) m^3/MIN] @ 0.5" [12.7 mm] H20. QTY 1 - 2" PVC PIPE.

10) VALVE EXHAUST (PNEUMATICS): QTY 1 - 3/8" O.D. STAINLESS STEEL BI-LOK BULKHEAD UNION.

11) BRUSH STATION #1 & #2 DRAINS: QTY 2, 2.0" PRIMARY POLYPROPYLENE PIPE, 4.0" SECONDARY CONTAINMENT POLYPROPYLENE PIPE.

12) BRUSH STATION SECONDARY CONTAINMENT DRAIN: 1/2" TEFLON TUBING, 1/2" O.D. TEFLON FLARE BULKHEAD UNION.

13 SYSTEM EXHAUST: 4.0" POLYPROPYLENE EXHAUST, 60 SCFM [1.70 m^3/MIN] @ 1" [25.4 mm] H20.

14 BRUSH STATION #1 EXHAUST: 2" POLYPROPYLENE PIPE, 60 SCFM [1.70 m^3/MIN] @ 2" [50.8 mm] H20.

15 BRUSH STATION #2 EXHAUST: 2" POLYPROPYLENE PIPE, 60 SCFM [1.70 m^3/MIN] @ 2" [50.8 mm] H20.

16 THE CONNECTOR ON THE CMC-200 FOR THE CDU IS: AMP, CPC1 RECPTACLE. AMP P/N: 208489-1
THE CONNECTOR FOR THE MATING CABLE IS: AMP, CPC1 PLUG. AMP P/N: 208488-1

17 THE CONNECTOR ON THE CMC-200 FOR THE EMO LOOPS & IDLE RELAY IS: AMP, CPC1 RECPTACLE. AMP P/N: 208717-1
THE CONNECTOR FOR THE MATING CABLE IS: AMP, CPC1 PLUG. AMP P/N: 208716-1

18) IF OZONE IS PRESENT IN D.I. WATER USE ULTRAVIOLET OZONE DESTRUCTION LAMP. ONTRAK P/N#73-0004-002

19) A MOISTURE TRAP IS RECOMMENDED FOR EXHAUSTS.

20 SPIN STATION DRAIN IS TO BE FACILITIZED TO AN ACID DRAIN.

21 IT IS RECOMMENDED THAT BRUSH STATION CHEMISTRY INPUTS BE FACILITIZED TO THE TOOL VIA A 3-WAY MANUAL VALVE FOR THE PURPOSE OF DI FLUSHING OF THE INTERNAL CHEMISTRY LINE.

22 REFER TO 20-0001-037 SYNERGY, SEISMIC RESTRAINT ANALYSIS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.
THIRD ANGLE PROJECTION
TOLERANCES ARE: DECIMALS .XX ±.01 .XXX ±.005 ANGLES ±.5° SURF 32/
DO NOT SCALE DRAWING
MATERIAL:
FINISH:

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BORDER REVISION: 12/96

OnTrak SYSTEMS, INC.
1010 Rincon Cir., San Jose, Ca. 95131

TITLE: FACILITY LAYOUT
TTW, SYNERGY

APPROVALS		DATE
DRAWN:	L.LARSON	10/01/96
ENGINEER:	T. G.	08/12/96
CHECKED:	X	X

SIZE D | DRAWING NO. 19-0200-058 | REV D
SCALE: 1/16 | CAD FILENAME: 19BJ0581 | SHEET: 1 OF: 1

NOTES: UNLESS OTHERWISE SPECIFIED.

1 DISTRIBUTION PANEL DESIGNATIONS:
- S1 - SENSOR DIST PNL #1
- S2 - SENSOR DIST PNL #2
- S3 - SENSOR DIST PNL #3
- S4 - SENSOR DIST PNL #4
- SM1 - STEPPER MOTOR DIST PNL #1
- SM2 - STEPPER MOTOR DIST PNL #2
- DC1 - DC MOTOR DIST PNL #1
- DC2 - DC MOTOR DIST PNL #2

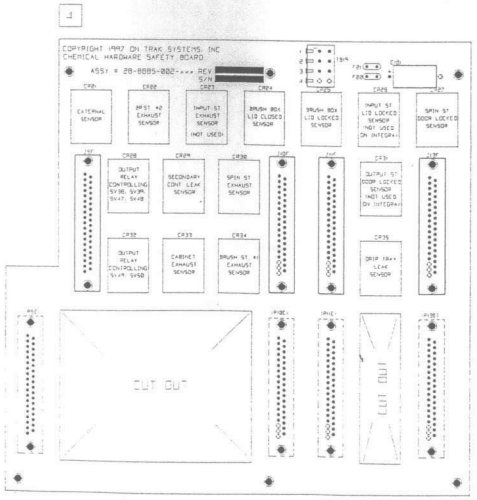
2 S2 DISTRIBUTION PANEL IS MOUNTED IN A HORIZONTAL POSITION AS INDICATED.

3 LABEL ALL CABLES WITH REFERENCE DESIGNATORS. PLACING LABELS SO FROM CONNECTORS.
(EXAMPLE) S1-5-2 MEANS:
- S1 = SENSOR DIST PNL #1
- 5 = LOCATION J5 ON DIST PNL #1
- 1 = FEMALE (JACK) CONNECTOR #1 OF CABLE ASSEMBLY

4 DETAIL "A" ILLUSTRATES THE RELAY CONFIGURATION AS WELL AS THE SAFETY RELATED FUNCTION RELATIVE TO EACH RELAY OF PCB. REFER TO ELECTRICAL SCHEMATIC 17-8885-002 FOR PCB CIRCUITRY.

5 REFERENCE DOCUMENT 17-0200-003

6 REFERENCE GRIPPER ASSY 10-8872-014 OR -037 FOR COMPLETE SENSOR INTERFACE CABLE ASSEMBLY INFORMATION.

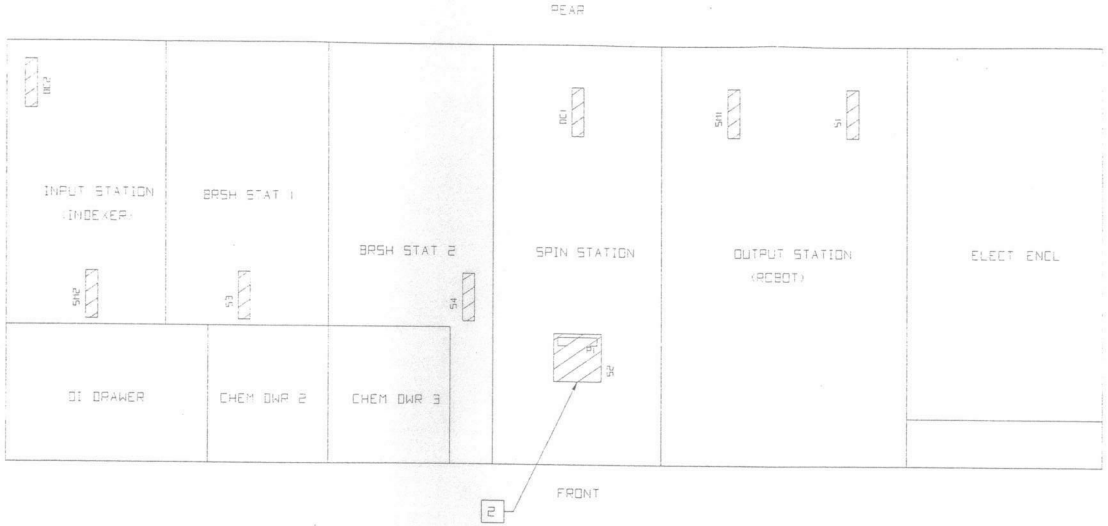


DETAIL A

NOT TO SCALE

EC#	REV	ZONE/PG	DESCRIPTION	DRN	APPROVAL	DATE
4433	A	-	PRODUCTION RELEASE	MSW	BM	5/28/97
4817	B	D5/2	UPDATE DWG	BM	B MEDINA	9/15/97
4991	C		UPDATE DWG	RC	JEFF M	10/30/97
8279	D	A5/2	CHG HT LMP CBL	CNS	CNS	1/7/98
8304	E	D4/5	UPDATE DRAWING	MH	C BLAIR	3/3/98
8318	F	A5/4	ADD KIT. COA BW OPTION	SS	IVAN YU	3/4/98
8766	G	A5/4	ADD NOTE 3	RC	BW	6/16/98
8935	H	B3/6	12-8800-209 WAS 12-8800-125	MH		

17-0200-013 H



SYSTEM TOP VIEW

NOT TO SCALE

for S2-93 compatible

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

THIRD ANGLE PROJECTION

CLEARANCES ARE
DECIMALS ANGLES SURF
XXX ±
XXX ±

DO NOT SCALE DRAWING

MATERIAL: N/A

FINISH: N/A

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SOFTER REVISION 2/96

APPROVALS	DATE
DRAWN M WITTGES	5/27/97
ENGINEER H GRUNDHERR	6/2/97
CHECKED B MEDINA	5/28/97

ONTRAK SYSTEMS, INC
1210 RINCON Cir San Jose Ca 95131

TITLE: FRAME INTERCONNECT DIAGRAM, SYNERGY S2-93

SIZE: D | DRAWING NO: 17-0200-013 | REV: H

SCALE: NONE | CAD FILENAME: 17-0200-013-1 | SHEET: 1 OF: 8

ECO	REV	ZONE/PO	DESCRIPTION	DRW	APPROVAL	DATE
3892	A		PRODUCTION RELEASE	BB		
4566	B		ADDED LABEL INFORMATION	JM		5/5/97

18-8886-007 | B

NOTES:
1. ALL LIQUID TUBING IS PFA TEFLON AND, UNLESS OTHERWISE INDICATED, IS 3/4".
2. A P-TRAP IS REQUIRED OUTSIDE THE MACHINE TO SEPERATE THE EXHAUST AND DRAIN COMING FROM THE SPIN STATION

LEGEND

NOTE	TYPE	DESCRIPTION	PART NO	QTY
		8 TUBE RIBBON TEFLON WATER LINE	85-0007-205	25 FT

3 FOR SIDE LOAD OPTION ONLY

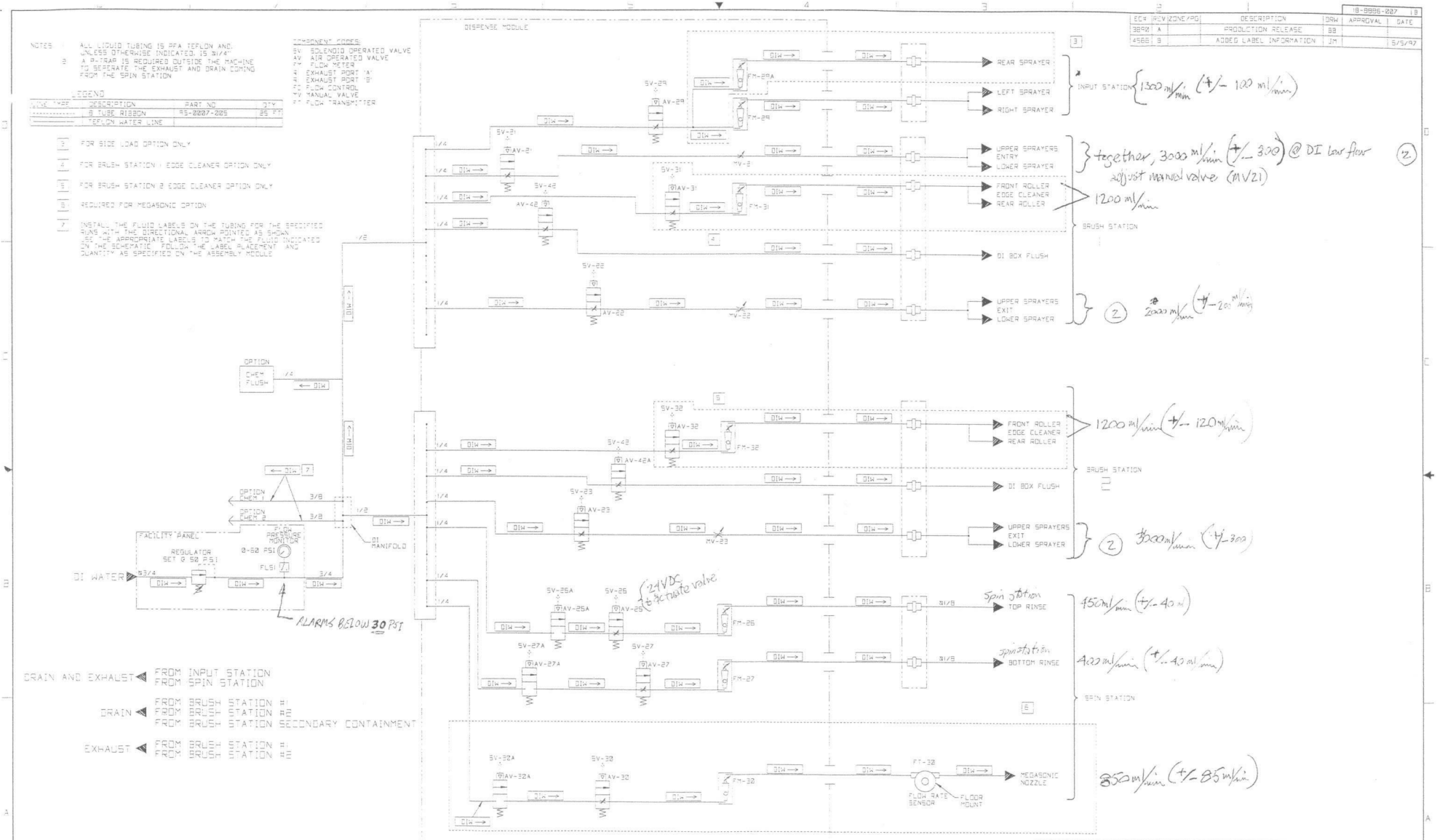
4 FOR BRUSH STATION 1 EDGE CLEANER OPTION ONLY

5 FOR BRUSH STATION 2 EDGE CLEANER OPTION ONLY

6 REQUIRED FOR MEGASONIC OPTION

7 INSTALL THE FLUID LABELS ON THE TUBING FOR THE SPECIFIED RUNS WITH THE DIRECTIONAL ARROW POINTED AS SHOWN. SEE THE APPROPRIATE LABELS TO MATCH THE FLUID INDICATED ON THE SCHEMATIC. FOLLOW THE LABEL PLACEMENT AND QUANTITY AS SPECIFIED ON THE ASSEMBLY MODULE

COMPONENT CODES:
SV SOLENOID OPERATED VALVE
AV AIR OPERATED VALVE
FM FLOW METER
E EXHAUST PORT 'A'
E EXHAUST PORT 'B'
FC FLOW CONTROL
MV MANUAL VALVE
FT FLOW TRANSMITTER



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE DECIMALS: ±.005 ANGLES: SURF ±.5° XXX: ±.010 XXX: ±.005
THIRD ANGLE PROJECTION
DO NOT SCALE DRAWING
MATERIAL
FINISH

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SORDER REVISION: 12/96

OnTrak SYSTEMS, INC
(2212 Ringwood Ct., San Jose, Ca 95131)

APPROVALS		DATE
DRAWN	J MAXWELL	5/5/97
ENGINEER	B YASPO	5/5/97
CHECKED	B YASPO	5/5/97

TITLE: SCHEMATIC, DIW, SYNERGY

SIZE: D | DRAWING NO: 18-8886-007 | REV: B

SCALE: NONE | FILE NAME: (188M007) | SHEET: 1 OF 1

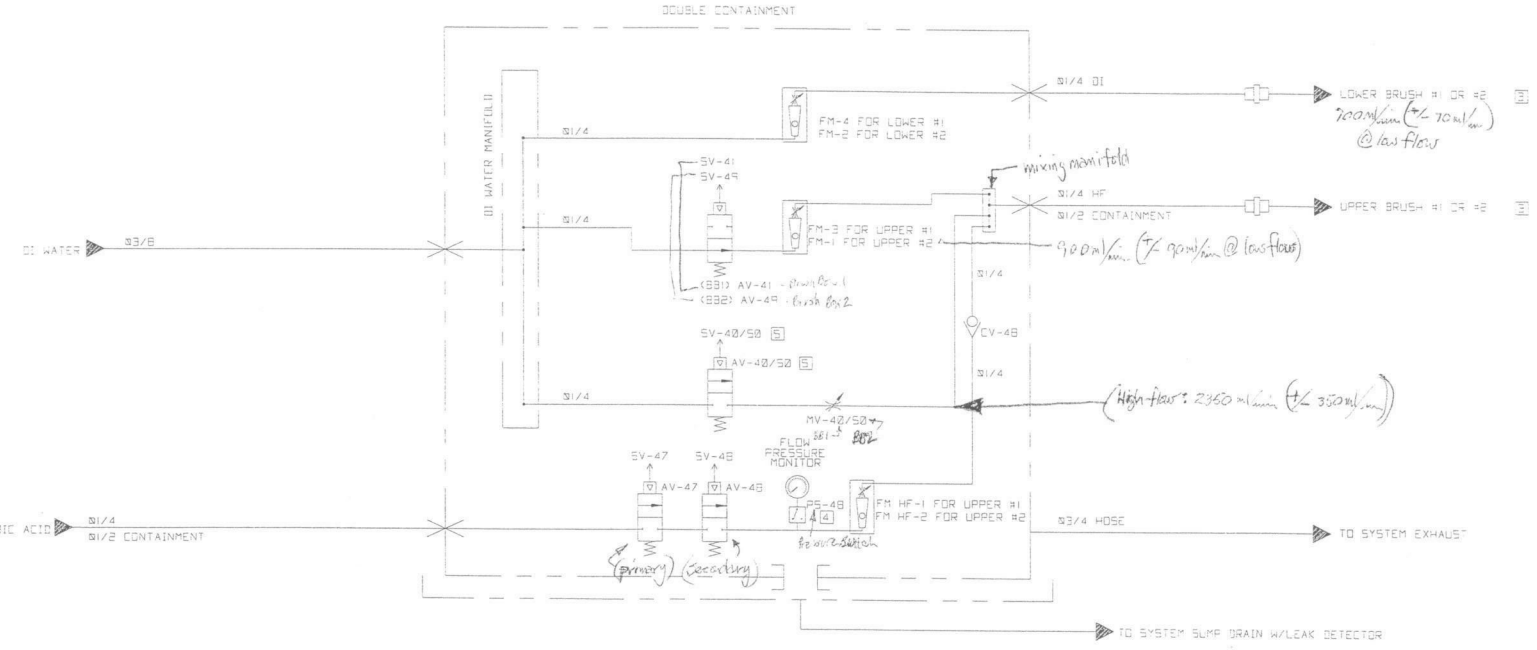
ECR	REV	ZONE/PG	DESCRIPTION	DRN	APPROVAL	DATE
7135			INITIAL RELEASE	MW	LL	12/31/96
3592	B		PRODUCTION RELEASE	BB		
3946	B		ADD SV-41	BB		

18-8886-020 B

NOTES:

1. ALL LIQUID TUBING IS PFA TEFLON AND, UNLESS OTHERWISE INDICATED, IS Ø1/4"
2. COMPONENT CODES:
   - SV SOLENOID OPERATED VALVE
   - AV AIR OPERATED VALVE
   - FM FLOW METER
   - R EXHAUST PORT "A"
   - R EXHAUST PORT "B"
   - FC FLOW CONTROL
   - MV MANUAL VALVE
3. ROUTE EXCLUSIVELY TO BRUSHBOX STATION 1 OR 2 ACCORDING TO CUSTOMERS OPTION SELECTION
4. SET PRESSURE SWITCH TO 5 PSIG
5. SV-40 & AV-40 USED FOR BRUSH STATION #1
   SV-50 & AV-50 USED FOR BRUSH STATION #2

CV - CHECK VALVE



COMPONENT	P/N
FM-1,2,3,4	35-2025-212
AV-48	31-2227-2[illegible]
AV-47,48,52,40	31-2227-21
FM-HF1,HF2	35-2025-212
PS-48	35-2223-215
CV-48	31-2204-217
MV-40-52	31-2211-202

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE: DECIMALS ±.005 ANGLES ±.5° SURF 32
THIRD ANGLE PROJECTION XXX: ±1 XXX: ±.005
DO NOT SCALE DRAWING
MATERIAL N/A
FINISH N/A

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BORDER REVISION 12/96

APPROVALS	DATE
DRAWN M. HILL	12/29/96
ENGINEER	
CHECKED	

OnTrak SYSTEMS, INC
1212 Rincon Cir. San Jose, Ca. 95131

TITLE: SCHEM. 0.5% HF THRU BR SYNERGY (CMC-200)

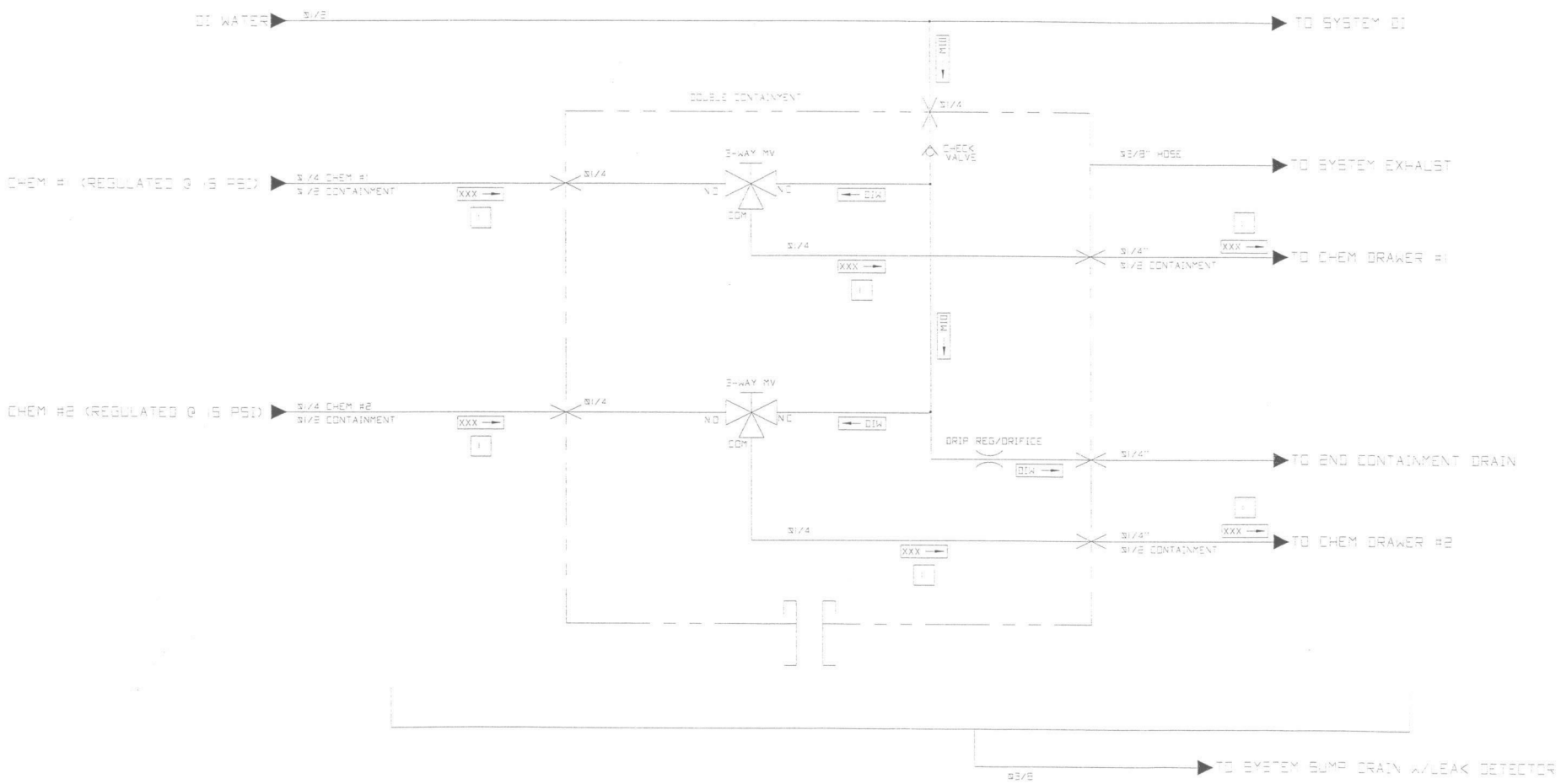
SIZE D | DRAWING NO. 18-8886-020 | REV B

SCALE: 1/1 | CAD FILENAME: 18B020 | SHEET: 1 OF: 1

NOTES: UNLESS OTHERWISE SPECIFIED

[ ] LABEL LINE WITH APPROPRIATE CHEMICAL DESIGNATION AS SPECIFIED BY SYSTEM CONFIGURATOR IN DIRECTION SHOWN

18-8886-0:2				
ECN	REV (ZONE/PG)	DESCRIPTION	DRW	APPROVAL	DATE
-		PRELIMINARY CONCEPT	BB	B.BLIVEN	3-15-97
-	B	ADDED DI DRIP & OVERFLOW DRN	BB	B.BLIVEN	3-20-97
-	B	DELETED PRESSRLF BYPASS	BB	B.BLIVEN	3-28-97
-	A	ADD DRAWING NUMBER	MH	B.BLIVEN	5/5/97
4488	A	PRODUCTION RELEASE	BB	B.BLIVEN	5/21/97
4548	B	ADD LABEL LOCATION	BS	S.SMITH	8/11/97
4882	C	CHG %3/8 TO %1/2 CHG %1/2 TO %3/8(SUMP)	RC		9/15/97



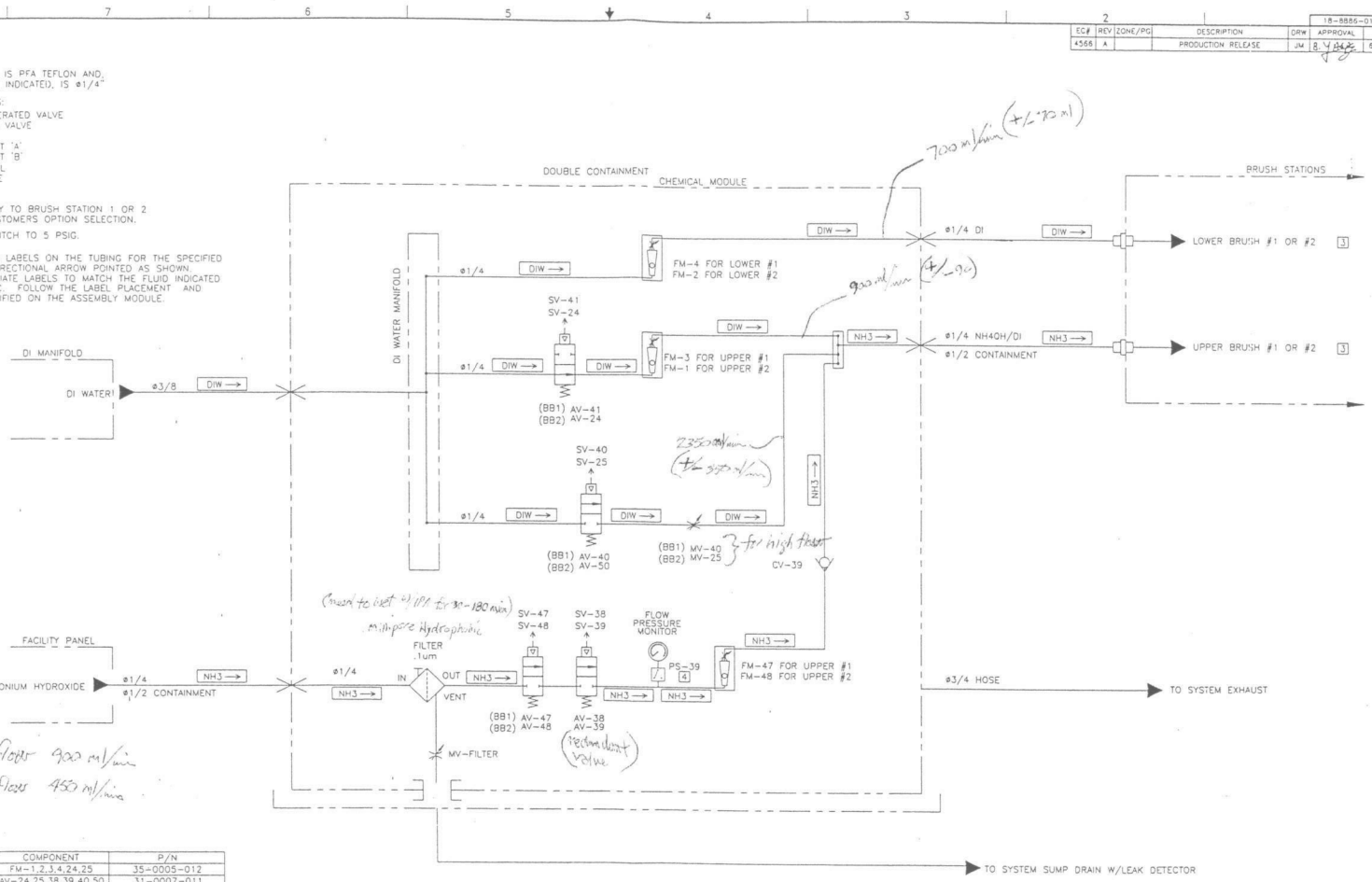
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	THE INFORMATION CONTAINED IN THIS DOCUMENT IS PROPRIETARY TO ONTRAK SYSTEMS INC. ANY DISTRIBUTION, DUPLICATION OR PARAPHRASING OF THIS DOCUMENT IS PROHIBITED WITHOUT WRITTEN CONSENT FROM ONTRAK SYSTEMS INC. BORDER REVISION: 12/96	OnTrak SYSTEMS, INC. 1212 Ringom Cir. San Jose, Ca. 95131	
THIRD ANGLE PROJECTION	TOLERANCES ARE: DECIMALS ANGLES SURF XXX ±.01 ±0° 32 XXX ±.25	TITLE SCHEMATIC, CHEM PURGE CONCEPT, SYNERGY	
DO NOT SCALE DRAWING	APPROVALS / DATE		
MATERIAL N/A	DRAWN B. BLIVEN 3/7/97		
FINISH SEE NOTES	ENGINEER B. BLIVEN 3/7/97	SIZE D / DRAWING NO 18-8886-0:2	REV C
	CHECKED B. BLIVEN 5/4/97	SCALE: 1/1 / CAD FILENAME 18BM0121	SHEET: 1 OF: 1

EC#	REV	ZONE/PG	DESCRIPTION	DRW	APPROVAL	DATE
4566	A		PRODUCTION RELEASE	JM	B. Yaspo	6/5/97

18-8886-014 A

NOTES:

1. ALL LIQUID TUBING IS PFA TEFLON AND, UNLESS OTHERWISE INDICATED, IS ø1/4"
2. COMPONENT CODES:
   - SV SOLENOID OPERATED VALVE
   - AV AIR OPERATED VALVE
   - FM FLOW METER
   - R EXHAUST PORT 'A'
   - R EXHAUST PORT 'B'
   - FC FLOW CONTROL
   - MV MANUAL VALVE
   - CV CHECK VALVE
3. ROUTE EXCLUSIVELY TO BRUSH STATION 1 OR 2 ACCORDING TO CUSTOMER'S OPTION SELECTION.
4. SET PRESSURE SWITCH TO 5 PSIG.
5. INSTALL THE FLUID LABELS ON THE TUBING FOR THE SPECIFIED RUNS WITH THE DIRECTIONAL ARROW POINTED AS SHOWN. USE THE APPROPRIATE LABELS TO MATCH THE FLUID INDICATED ON THE SCHEMATIC. FOLLOW THE LABEL PLACEMENT AND QUANTITY AS SPECIFIED ON THE ASSEMBLY MODULE.



2% upper brush flow 900 ml/min
2.9% upper brush flow 450 ml/min

COMPONENT	P/N
FM-1,2,3,4,24,25	35-0005-012
AV-24,25,38,39,40,50	31-0007-011
AV-49	31-0007-019
MV-FILTER, MV 40-50	31-0011-002
FILTER	31-0005-017
PS-39	35-0003-015
CV-39	31-0004-017

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE: DECIMALS .XX±.03 .XXX±.01 .XXXX±.005 ANGLES ±0° THIRD ANGLE PROJECTION. DO NOT SCALE DRAWING. MATERIAL: FINISH:

THE INFORMATION CONTAINED ON THIS DOCUMENT IS PROPRIETARY TO ONTRAK SYSTEMS INC. ANY DISTRIBUTION, DUPLICATION OR UNAPPLICATION OF THIS DOCUMENT IS PROHIBITED WITHOUT WRITTEN CONSENT FROM ONTRAK SYSTEMS INC. WORKER REVISION 12/96

APPROVALS	DATE
DRAWN: J. MAXWELL	6/5/97
ENGINEER: N. CHAZARO	6/5/97
CHECKED: B. YASPO	6/5/97

OnTrak SYSTEMS, INC.
1010 Rincon Cir., San Jose, Ca. 95131

TITLE: SCHEM., 2% NH4OH TTT BRUSH, SYN.

SIZE D | DRAWING NO 18-8886-014 | REV A

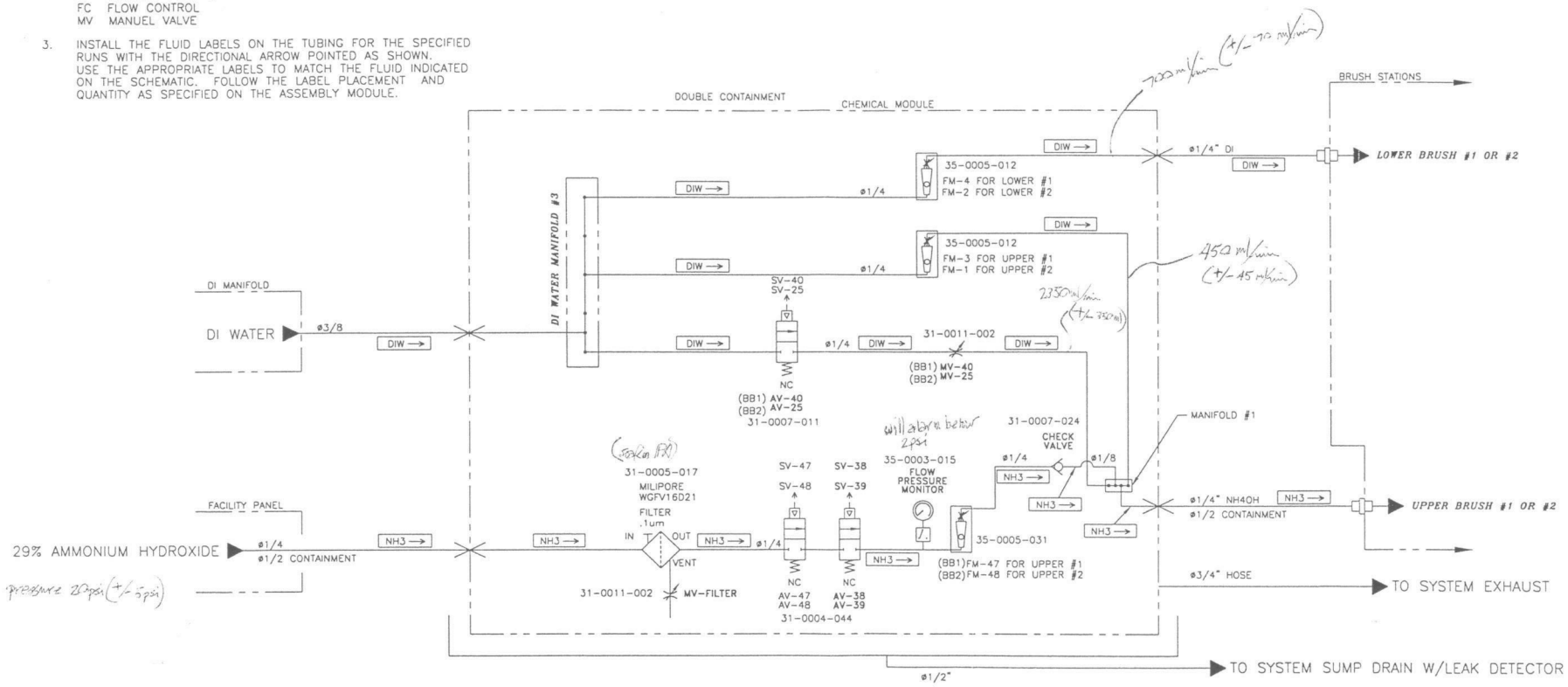
SCALE: NONE | DR FILENAME: 18BM0141 | SHEET: 1 OF: 1

EC#	REV	ZONE/PG	DESCRIPTION	DRW	APPROVAL	DATE
4566	A		PRODUCTION RELEASE	JM	B.YASPO	6/5/97
4975	B		ADD TEXT "MANIFOLD #1"	LA	L.AOKI	9/12/97
8848	C		CHANGE CHECK VALVE	MH	[illegible]	6/24/98

18-8886-015 C

NOTES:

1. ALL LIQUID TUBING IS PFA TEFLON AND, UNLESS OTHERWISE INDICATED, IS ø1/4"
2. COMPONENT CODES:
   - SV SOLENOID OPERATED VALVE
   - AV AIR OPERATED VALVE
   - FM FLOW METER
   - R EXHAUST PORT 'A'
   - R EXHAUST PORT 'B'
   - FC FLOW CONTROL
   - MV MANUEL VALVE
3. INSTALL THE FLUID LABELS ON THE TUBING FOR THE SPECIFIED RUNS WITH THE DIRECTIONAL ARROW POINTED AS SHOWN. USE THE APPROPRIATE LABELS TO MATCH THE FLUID INDICATED ON THE SCHEMATIC. FOLLOW THE LABEL PLACEMENT AND QUANTITY AS SPECIFIED ON THE ASSEMBLY MODULE.



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE: DECIMALS .XX ± .01 .XXX ± .005; ANGLES SURF ✓. THIRD ANGLE PROJECTION. DO NOT SCALE DRAWING. MATERIAL: FINISH:

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APPROVALS	DATE
DRAWN: J MAXWELL	6/5/97
ENGINEER: B. YASPO	6/5/97
CHECKED: N. CHAZARO	6/5/97

OnTrak SYSTEMS, INC.
1010 Rincon Cir., San Jose, Ca. 95131

TITLE: SCHEM., 29% NH4OH TTT BRUSH, SYN.

SIZE D | DRAWING NO. 18-8886-015 | REV C

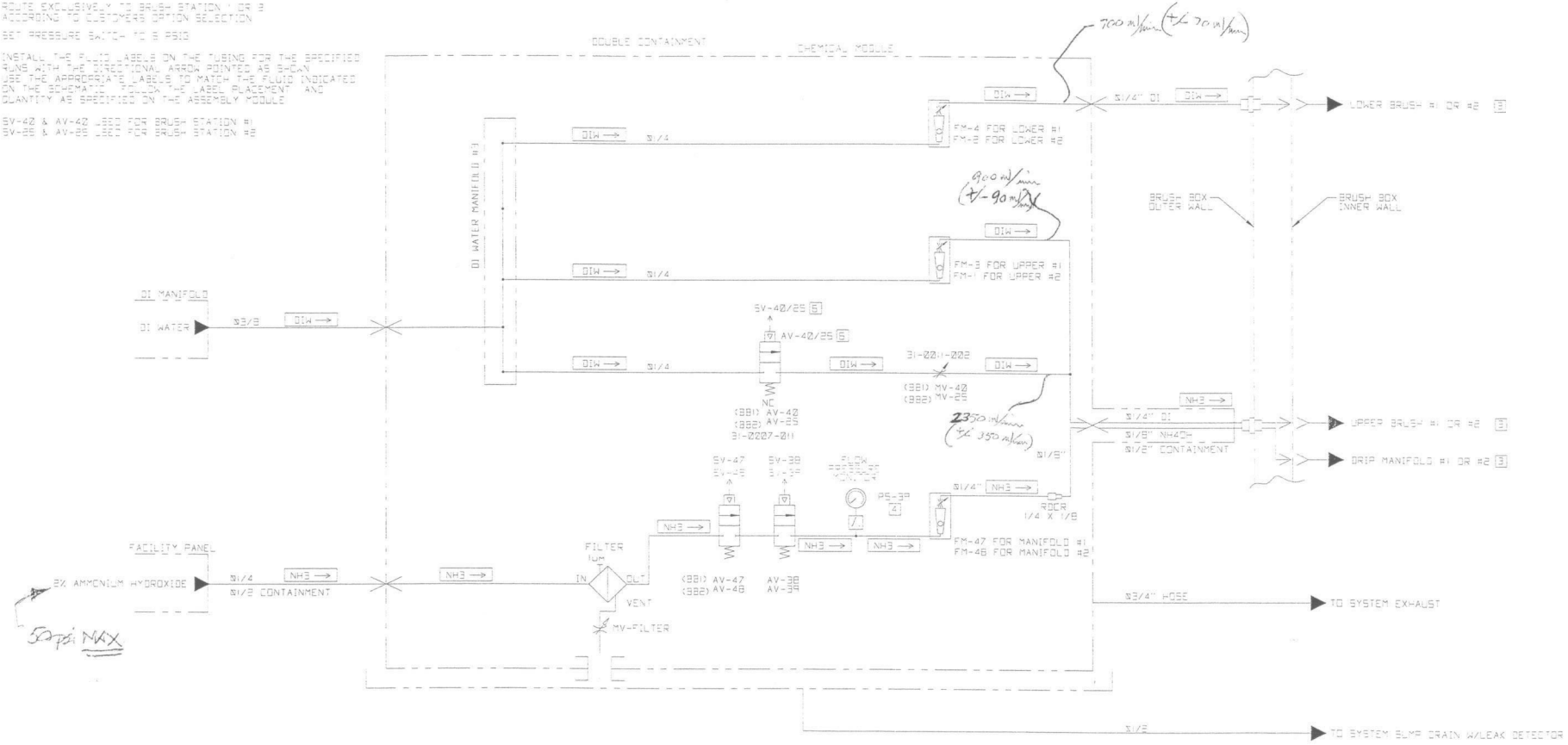
SCALE: NONE | CAD FILENAME: 18-8886-015 | SHEET: 1 OF: 1

ECR	REV/ZONE/PGI	DESCRIPTION	DRW	APPROVAL	DATE
4568	A	PRODUCTION RELEASE	JM	B YASPO	6/5/97
4754	B	ADD DI HIGH FLOW VALVE	SS		

18-8886-016 | 1B

NOTES:

1. ALL LIQUID TUBING IS PFA TEFLON AND, UNLESS OTHERWISE INDICATED, IS 3/4"
2. COMPONENT CODES
   - SV SOLENOID OPERATED VALVE
   - AV AIR OPERATED VALVE
   - FM FLOW METER
   - R EXHAUST PORT "A"
   - R EXHAUST PORT "B"
   - FC FLOW CONTROL
   - MV MANUAL VALVE
3. ROUTE EXCLUSIVELY TO BRUSH STATION 1 OR 2 ACCORDING TO CUSTOMERS OPTION SELECTION
4. SET PRESSURE SWITCH TO 5 PSIG
5. INSTALL THE FLUID LABELS ON THE TUBING FOR THE SPECIFIED RUNS WITH THE DIRECTIONAL ARROW POINTED AS SHOWN USE THE APPROPRIATE LABELS TO MATCH THE FLUID INDICATED ON THE SCHEMATIC. FOLLOW THE LABEL PLACEMENT AND QUANTITY AS SPECIFIED ON THE ASSEMBLY MODULE
6. SV-40 & AV-40 USED FOR BRUSH STATION #1
   SV-25 & AV-25 USED FOR BRUSH STATION #2



COMPONENT	P/N
FM-1,2,3,4	35-2025-012
AV-38,39,47,48	31-2027-2
FM-47,48	35-2025-014
MV-FILTER ,BP	31-2011-002
FILTER	31-2025-017
PS-39	35-2023-015

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	APPROVALS	DATE
DRAWN	J MAXWELL	6/5/97
ENGINEER	N CHAZARO	6/5/97
CHECKED	B YASPO	6/5/97

ONTRAK SYSTEMS, INC. 2212 RINDON CT. SAN JOSE, CA 95131

TITLE: SCHEM, 3% NH4OH DRIP, SYN

SIZE D | DRAWING NO. 18-8886-016 | REV B

SCALE: NONE | DWG FILENAME: 18BM0161 | SHEET: 1 OF: 1