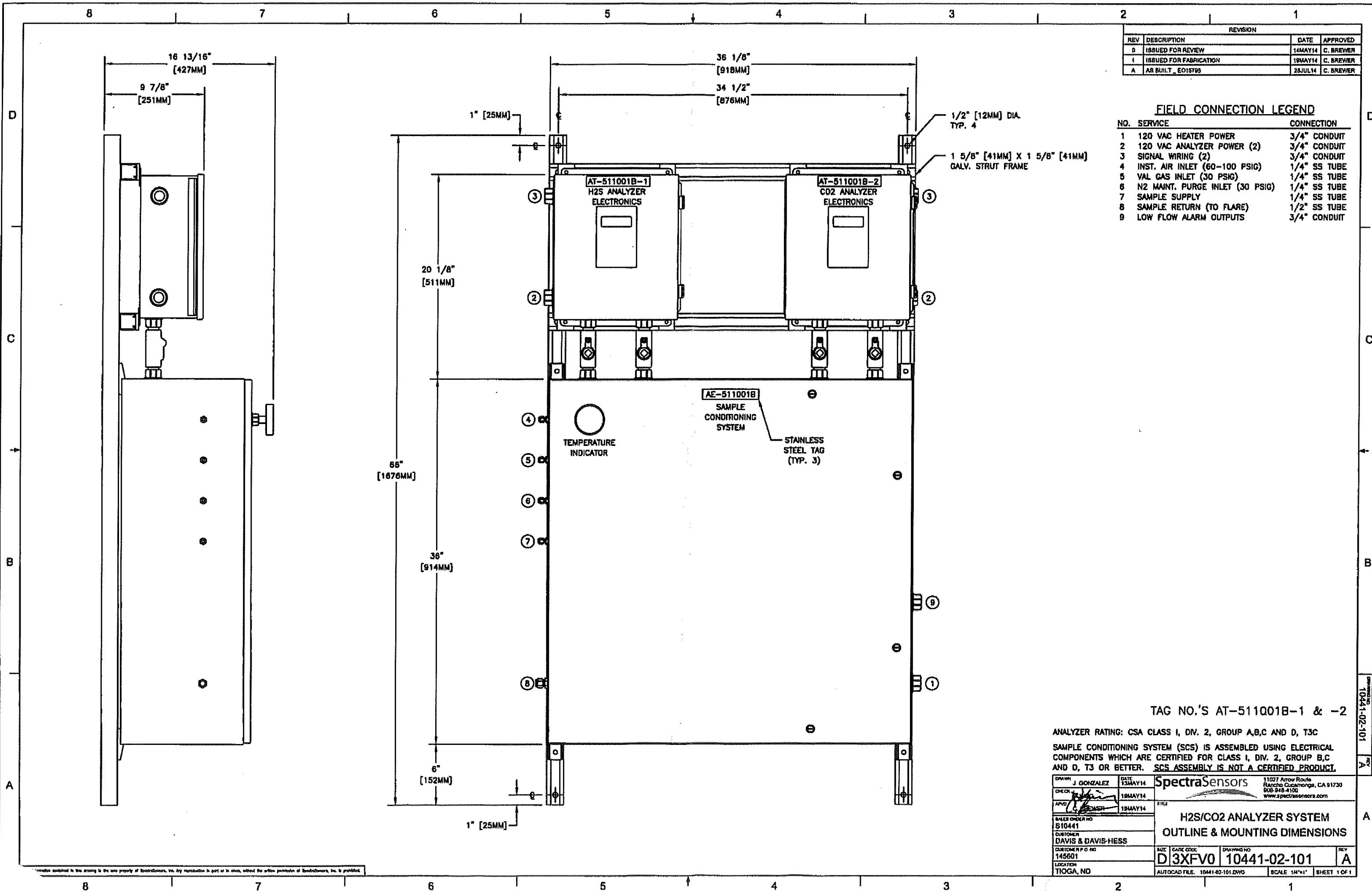


REVISION			
REV	DESCRIPTION	DATE	APPROVED
D	ISSUED FOR REVIEW	14MAY14	C. BREWER
I	ISSUED FOR FABRICATION	19MAY14	C. BREWER
A	AS BUILT, E015795	28JUL14	C. BREWER

FIELD CONNECTION LEGEND

NO.	SERVICE	CONNECTION
1	120 VAC HEATER POWER	3/4" CONDUIT
2	120 VAC ANALYZER POWER (2)	3/4" CONDUIT
3	SIGNAL WIRING (2)	3/4" CONDUIT
4	INST. AIR INLET (60-100 PSIG)	1/4" SS TUBE
5	VAL GAS INLET (30 PSIG)	1/4" SS TUBE
6	N2 MAINT. PURGE INLET (30 PSIG)	1/4" SS TUBE
7	SAMPLE SUPPLY	1/4" SS TUBE
8	SAMPLE RETURN (TO FLARE)	1/2" SS TUBE
9	LOW FLOW ALARM OUTPUTS	3/4" CONDUIT



REVISION			
REV	DESCRIPTION	DATE	APPROVED
0	ISSUED FOR REVIEW	14MAY14	C. BREWER
1	ISSUED FOR FABRICATION	18MAY14	C. BREWER
A	AS BUILT - E015795	28JUL14	C. BREWER

BILL OF MATERIALS

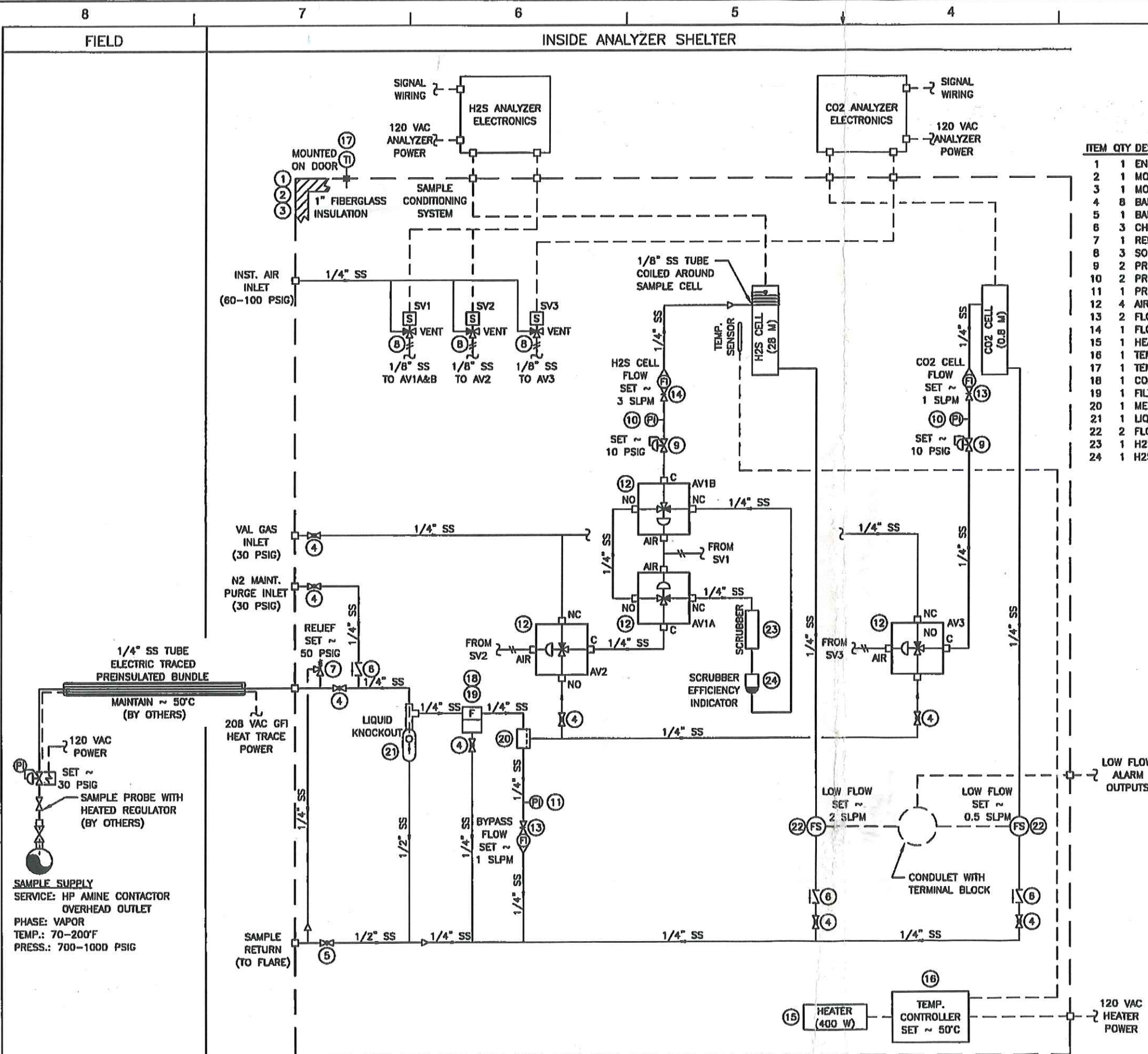
ITEM	QTY	DESCRIPTION	MANUFACTURER	PART NO.	SSI PART NO.
1	1	ENCLOSURE (NEMA 4X, SS), 36"X36"X12"	HOFFMAN	CSD3B3B12SSR	1400002159
2	1	MOUNTING BRACKET KIT (SS)	HOFFMAN	CMFKSS	1400400001
3	1	MOUNTING PANEL (PAINTED STEEL), 34.2"X34.2"	HOFFMAN	CP3B3B	1400002160
4	8	BALL VALVE, 1/4" TF (SS)	SWAGELOK	SS-42GS4	6130304254
5	1	BALL VALVE, OVAL HDL, 1/2" TF (SS)	SWAGELOK	SS-63TS8-JK	6100002242
6	3	CHECK VALVE, 1/3 PSI, 1/4" TF (SS)	SWAGELOK	SS-4C-1/3	6130504C13
7	1	RELIEF VALVE, SET AT 50PSIG, 1/4" TF (SS)	SWAGELOK	SS-4R3A-SETA	6100002648
8	3	SOL. VALVE (3/2 WAY), 120 VAC, 1/8" FNPT (SS)	BURKERT	98124074	6131401004
9	2	PRESS. REGULATOR, 25 PSIG, 1/4" FNPT (SS)	GO	PR1-1A11A3D111	6132125254
10	2	PRESS. GAUGE (2.5"), 30 PSIG/KPAG, 1/4"TFBM(SS)	SWAGELOK	PGI-63C-OG30-CAQX	6100002528
11	1	PRESS. GAUGE (2.5"), 60 PSIG/KPAG, 1/4"TFBM(SS)	SWAGELOK	PGI-63C-OG60-CAQX	6100002529
12	4	AIR OPERATED VALVE (3-WAY), 1/8" FNPT (SS)	PARKER	2F-R2SK-V-SS	6100002135
13	2	FLOWMETER (W/VALVE), 2 SLPM, 1/4" FNPT (SS)	KING	74C123G081123810	6134100274
14	1	FLOWMETER (W/VALVE), 6 SLPM, 1/4" FNPT (SS)	KING	74C123G081523810	6134100674
15	1	HEATER (DIV. 1), 400 W, 120 VAC	INTERTEC	CPA400T3100-120V	5300002006
16	1	TEMP. CONTROLLER (DIV. 1), SET AT 50°C, 120 VAC	INTERTEC	TC CD E1 S J-50°C	5300002004
17	1	TEMP. GAUGE (3"), 200 F, 4" STEM, 1/2" NPT (SS)	REOTEMP	AA-040-1-D43-TG	55032340B6
18	1	COALESCING FILTER (GLASS BOWL), 1/4" FNPT (SS)	BALSTON	33G-1/4	6100002289
19	1	FILTER ELEMENT, GRADE BX	BALSTON	100-12-BX	6100002288
20	1	MEMBRANE SEPARATOR, HP, W/LB, 1/4" FNPT (SS)	A+ CORP	123HP-006-SS-LB	6100002455
21	1	LIQUID DRAINER, 1/2" FNPT (SS)	ARMSTRONG	11-LD	6100002169
22	2	FLOW SW. (DIV.1), 20-10,000 SCCM, 1/8"FNPT (SS)	MALEMA	M-100X-S130-000	6100002493
23	1	H2S SCRUBBER, 3" DIA.	SPECTRASENSORS	0220352000	0220352000
24	1	H2S SCRUBBER EFFICIENCY INDICATOR	SPECTRASENSORS	8000002174	8000002174

-570 0ring
123-016
cal. rez.

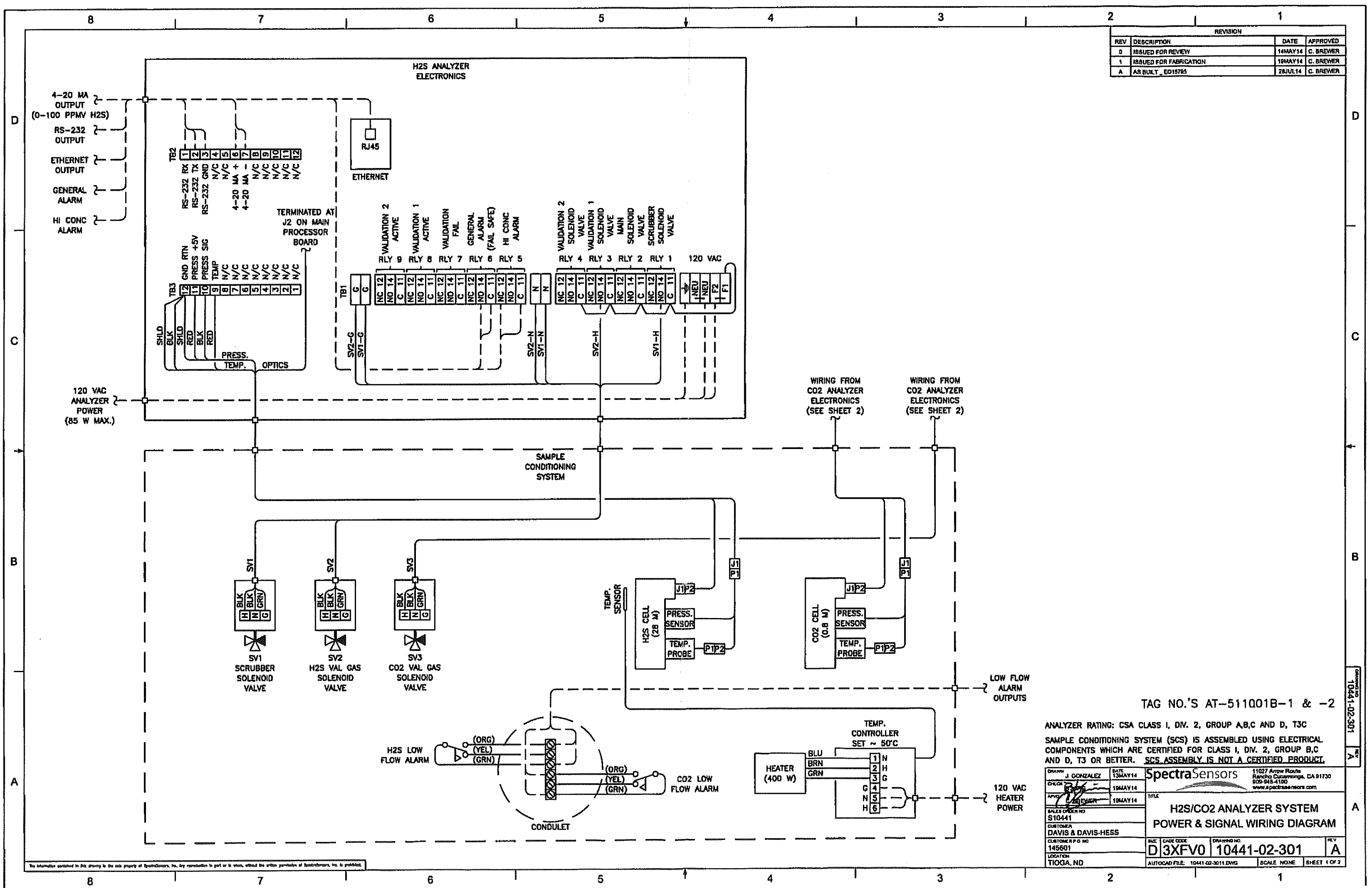
TAG NO.'S AT-511001B-1 & -2

ANALYZER RATING: CSA CLASS I, DIV. 2, GROUP A,B,C AND D, T3C
SAMPLE CONDITIONING SYSTEM (SCS) IS ASSEMBLED USING ELECTRICAL COMPONENTS WHICH ARE CERTIFIED FOR CLASS I, DIV. 2, GROUP B,C AND D, T3 OR BETTER. SCS ASSEMBLY IS NOT A CERTIFIED PRODUCT.

DRAWN J. GONZALEZ DATE 13MAY14		SpectraSensors 11027 Arrow Road, Rancho Cucamonga, CA 91730 909-948-4100 www.spectrasensors.com	
CHECKED DATE 18MAY14	APPROVED DATE 18MAY14	TITLE H2S/CO2 ANALYZER SYSTEM SAMPLE SYSTEM SCHEMATIC	
SALES CHECKED NO S10441	CUSTOMER DAVIS & DAVIS-HESS	REV A	
CUSTOMER P.O. NO 145601	LOCATION TIOGA, ND	AUTOCAD FILE: 10441-02-201.DWG SCALE NONE SHEET 1 OF 1	



REVISION			
REV	DESCRIPTION	DATE	APPROVED
0	ISSUED FOR REVIEW	14MAY14	C. BREWER
1	ISSUED FOR FABRICATION	19MAY14	C. BREWER
A	AS BUILT - ED15725	28JUL14	C. BREWER

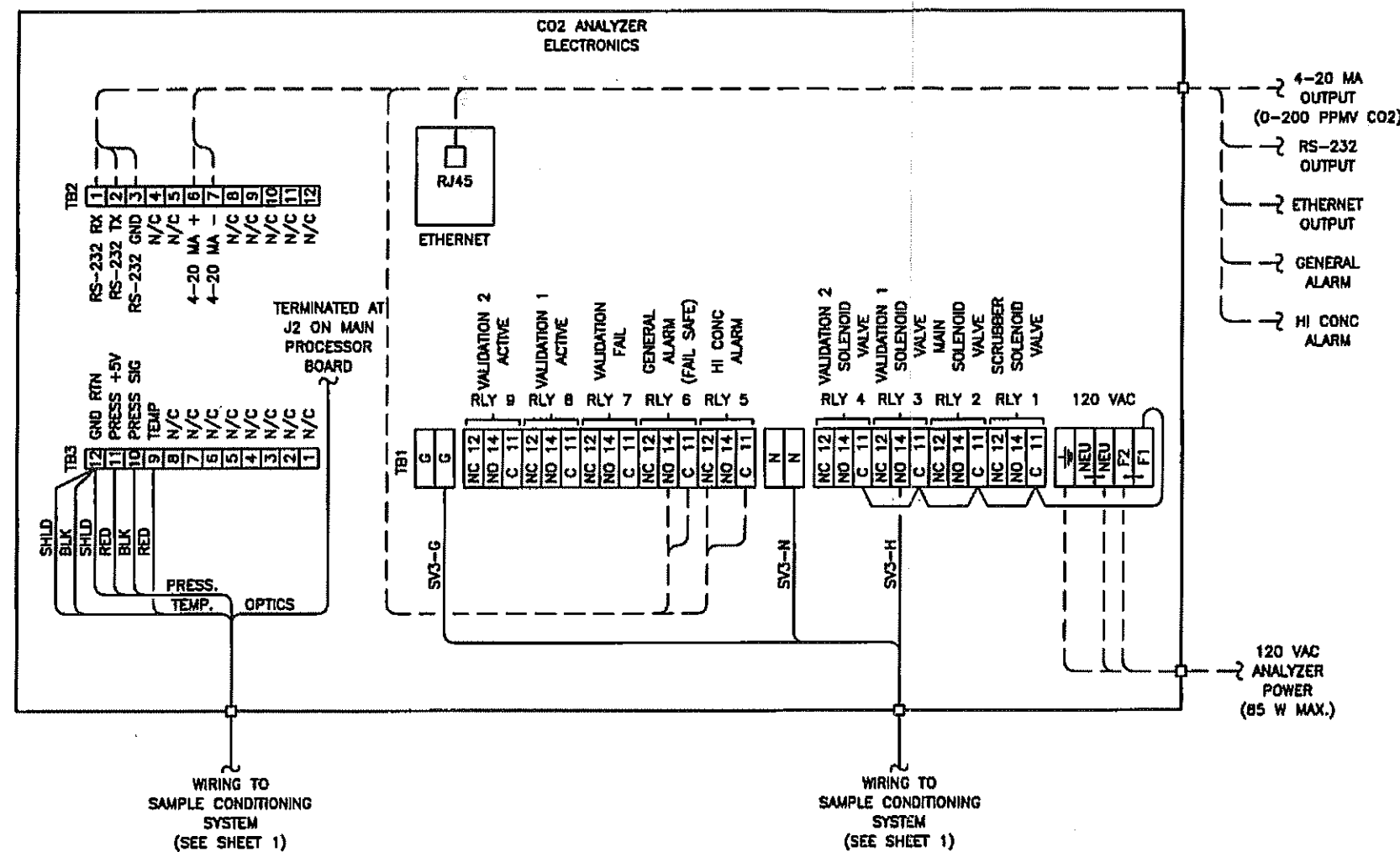


TAG NO.'S AT-511001B-1 & -2

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DRAWN: J. GONZALEZ CHECKED: [Signature] APPROVED: C. BREWER SALES ORDER NO: S10441 CUSTOMER: DAVIS & DAVIS-HESS CUSTOMER P.O. NO: 145601 LOCATION: TIOGA, ND	DATE: 13MAY14 19MAY14 19MAY14	SpectraSensors 11027 Arrow Route Rancho Cucamonga, CA 91730 909-943-4100 www.spectrasensors.com
H2S/CO2 ANALYZER SYSTEM POWER & SIGNAL WIRING DIAGRAM		
SIZE: CAGE CODE D3XFV0	DRAWING NO: 10441-02-301	REV: A
AUTOCAD FILE: 10441-02-301.DWG SCALE: NONE SHEET 1 OF 2		

REVISION			
REV	DESCRIPTION	DATE	APPROVED
0	ISSUED FOR REVIEW	14MAY14	C. BREWER
1	ISSUED FOR FABRICATION	19MAY14	C. BREWER
A	AS BUILT_E015725	26JUL14	C. BREWER



TAG NO.'S AT-511001B-1 & -2

ANALYZER RATING: CSA CLASS I, DIV. 2, GROUP A,B,C AND D, T3C
SAMPLE CONDITIONING SYSTEM (SCS) IS ASSEMBLED USING ELECTRICAL COMPONENTS WHICH ARE CERTIFIED FOR CLASS I, DIV. 2, GROUP B,C AND D, T3 OR BETTER. SCS ASSEMBLY IS NOT A CERTIFIED PRODUCT.

DRAWN J. GONZALEZ CHECKED C. BREWER DATE 13MAY14 19MAY14 SALES ORDER NO. S10441 CUSTOMER DAVIS & DAVIS-HESS CUSTOMER P.O. NO. 145801 LOCATION TIOGA, ND	DATE 13MAY14 19MAY14 SALES ORDER NO. S10441 CUSTOMER DAVIS & DAVIS-HESS CUSTOMER P.O. NO. 145801 LOCATION TIOGA, ND	SpectraSensors 11027 Arrow Route Rancho Cucamonga, CA 91730 909-948-4100 www.spectrasensors.com	TITLE H2S/CO2 ANALYZER SYSTEM POWER & SIGNAL WIRING DIAGRAM	REV A
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