

410LCP1501 PLC CONTROL PANEL SCHEDULE		
ITEM NO.	ITEM	DESCRIPTION
1	PANEL ENCLOSURE	NEMA 12, 90" HIGH x 48" WIDE x 20" DEEP
2	LABEL	"410LCP1501 - AERATION BASIN PLC PANEL"
3	PLC RACK	PLC-06, RACK-01
4	ETHERNET SWITCH	8-PORT
5	TERMINAL BLOCKS	
6	TYPE 3 DIN RAIL	
7	120 SERVICE OUTLET	
8	ISOLATION TRANSFORMER	2400 WATTS
9	WIREWAY	3" WIDE X 3" DEEP
10	FLOURESCENT LIGHT FIXTURE	

GENERAL NOTES:

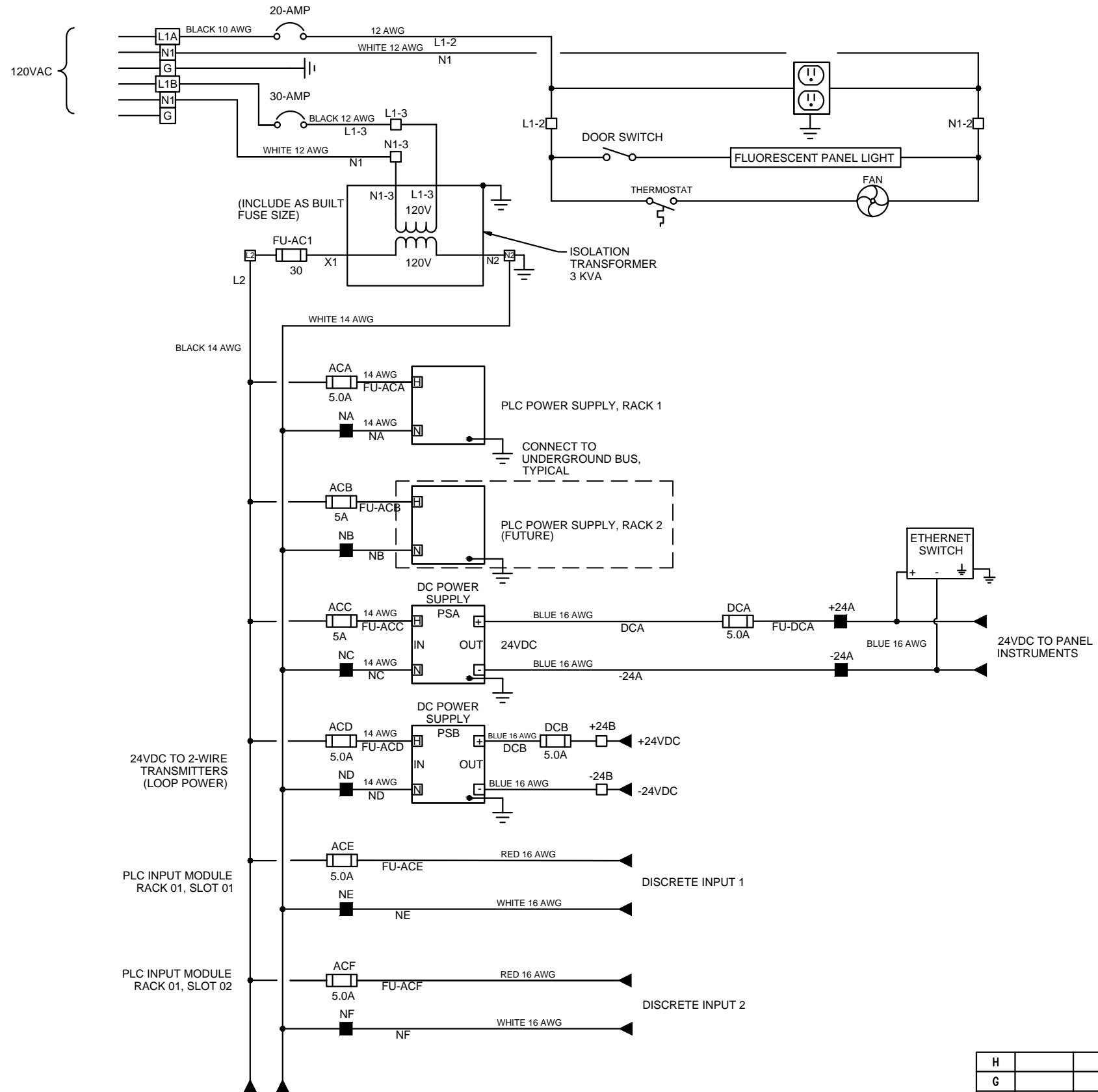
- ALL SPARE I/O POINTS WIRED TO TERMINAL STRIP.
- DOOR LIMIT SWITCH ON LAST DOOR TO CLOSE.
- FURNISH AND INSTALL GROUND BUSHINGS.
- INSTALL A SINGLE GROUND WIRE FROM THE ISOLATED GROUND BUS TO THE MAIN PANEL GROUND.

KEYED NOTES:

- LOW-NOISE SHIELDED 120/120V ISOLATION TRANSFORMER MOUNTED ON PANEL EXTERIOR TO CONSERVE PANEL SPACE. ENCLOSURE STIFFENERS TO ACCOMMODATE ISOLATION TRANSFORMER. MOUNTED WITH VIBRATION ISOLATORS.
- DOOR-MOUNTED LAPTOP TABLE 3 FEET FROM THE PANEL FLOOR.
- SPACE RESERVED FOR RELAYS AND POWER SUPPLIES.

410LCP1501

H				OPTIMAL CONTROL SYSTEMS		
G				2324 THREE LAKES RD / PO BOX 462		
F				ALBANY, OR 97321		
E				PHONE (541) 967-9323	FAX (541) 967-9485	
D				CLIENT	BENTON ELECTRIC	
C				TITLE	410LCP1501	
B	23.AUG.2011	AS BUILT	KD	CONTROL PANEL LAYOUT		
A	25.MAY.2011	Original Draft	ME	DRAWN	ME	ISSUED
REV	DATE	DESCRIPTION	INIT	CHECKED	DATE	JOB NO.
				HD	25.MAY.2011	0511-08BEC
				APPROVED	SCALE	0511-08BEC-CP1-B
					NONE	SHEET 2 OF 31

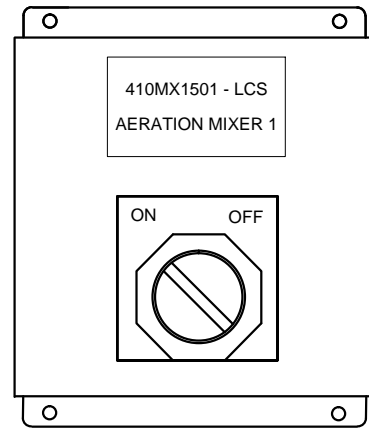


PANEL POWER DISTRIBUTION
NTS

NOTE:
TORQUE SPECS FIELD WIRING
L1, N1,G,L1-2,L1-3,N1-2, N1-3
8mm T.B. 8 AWG WIRE, 7.1-8.9 IN.LB.
6mm T.B. 10 AWG WIRE, 4.4-7.1 IN.LB.

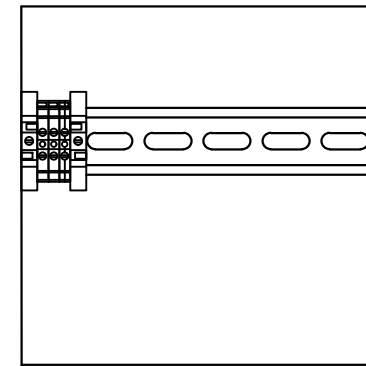
AC1 30A TYPE 306 125V FUSE
ACA-ACF 5A TYPE 312 250V FUSE
DCA 5A TYPE 312 250V FUSE

H				OPTIMAL CONTROL SYSTEMS		
G				2324 THREE LAKES RD / PO BOX 462		
F				ALBANY, OR 97321		
E				PHONE (541) 967-9323	FAX (541) 967-9485	
D	2.NOV.2011	AS BUILT	KD	CLIENT BENTON ELECTRIC		
C	13.SEP.2011	LABELING	KD	TITLE HILLSBORO AERATION		
B	23.AUG.2011	UL NOTES	KD	410LCP1501 PANEL POWER		
A	25.MAY.2011	Original Draft	ME	DRAWN ME	ISSUED	JOB NO. 0511-08BEC
REV	DATE	DESCRIPTION	INIT	CHECKED HD	DATE 25.MAY.2011	DWG NO. 0511-08BEC-CP2-D
REVISIONS				APPROVED	SCALE NONE	SHEET 3 OF 31



LCS FRONT ELEVATION

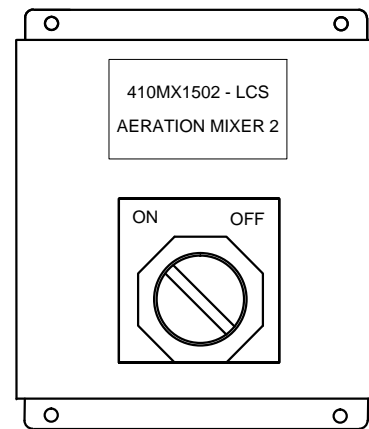
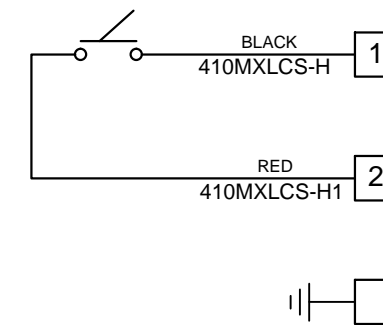
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LCS PANEL LAYOUT

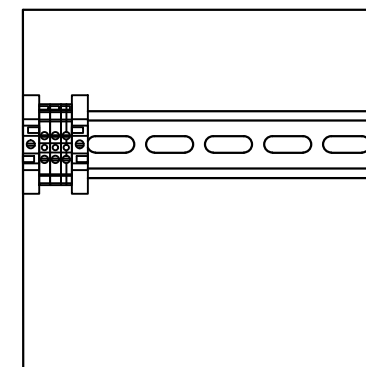
NTS

LOCAL CONTROL STATION 1 (LCS1)



LCS FRONT ELEVATION

NTS



LCS PANEL LAYOUT

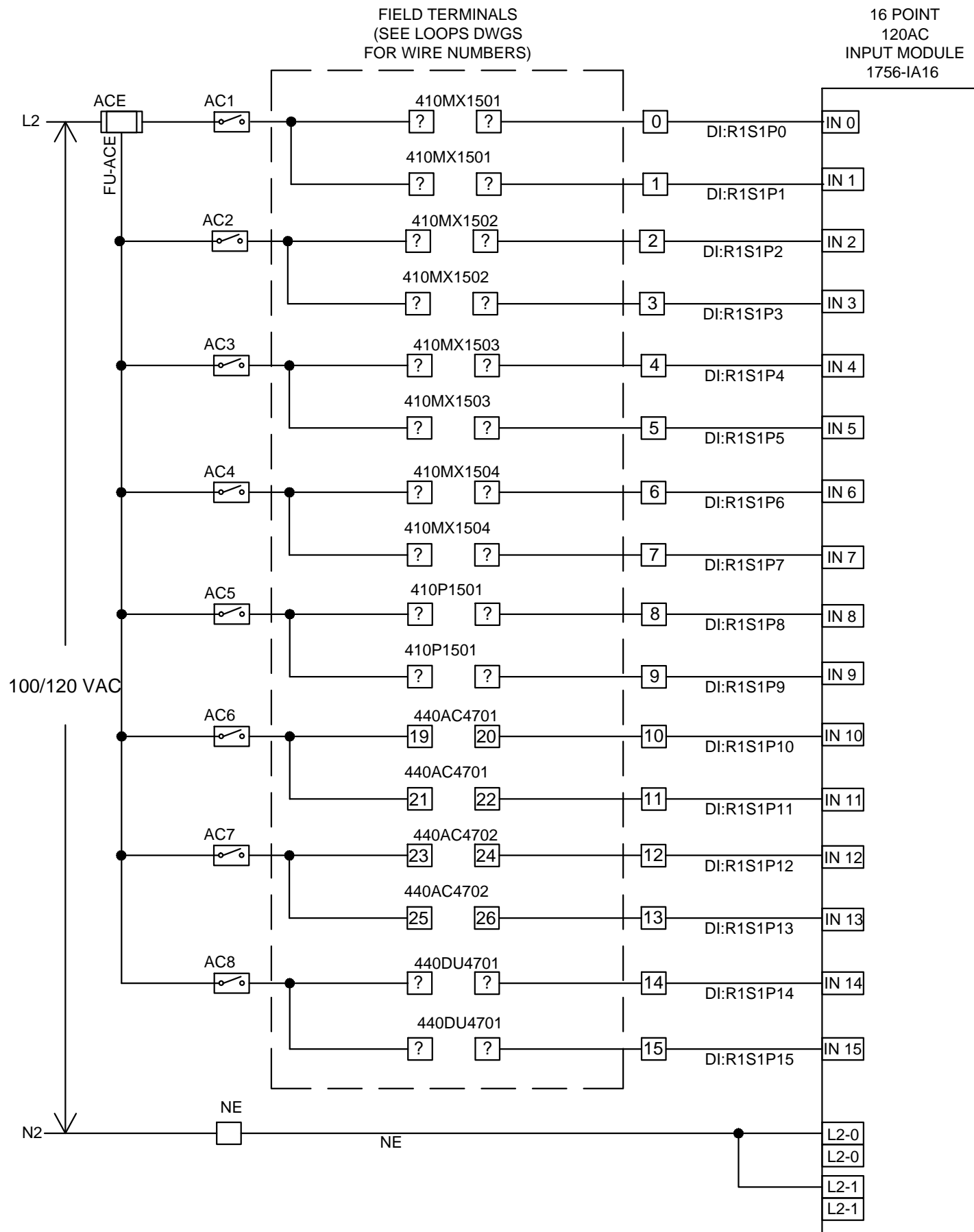
NTS

LOCAL CONTROL STATION 2 (LCS2)

NOTE:

WIRE GAUGE: 16 AWG
 TORQUE: 4.6 IN.LB
 VOLTAGE: 120 VAC

H				OPTIMAL CONTROL SYSTEMS		
G				2324 THREE LAKES RD / PO BOX 462		
F				ALBANY, OR 97321		
E				PHONE (541) 967-9323	FAX (541) 967-9485	
D				CLIENT BENTON ELECTRIC		
C				TITLE		
B	2.AUG.2011	AS BUILT	KD	LOCAL CONTROL STATION DETAIL		
A	25.MAY.2011	Original Draft	ME	DRAWN ME	ISSUED	JOB NO. 0511-08BEC
REV	DATE	DESCRIPTION	INIT	CHECKED HD	DATE 25.MAY.2011	DWG NO. 0511-08BEC-CP3-B
REVISIONS				APPROVED	SCALE NONE	SHEET 4 OF 31



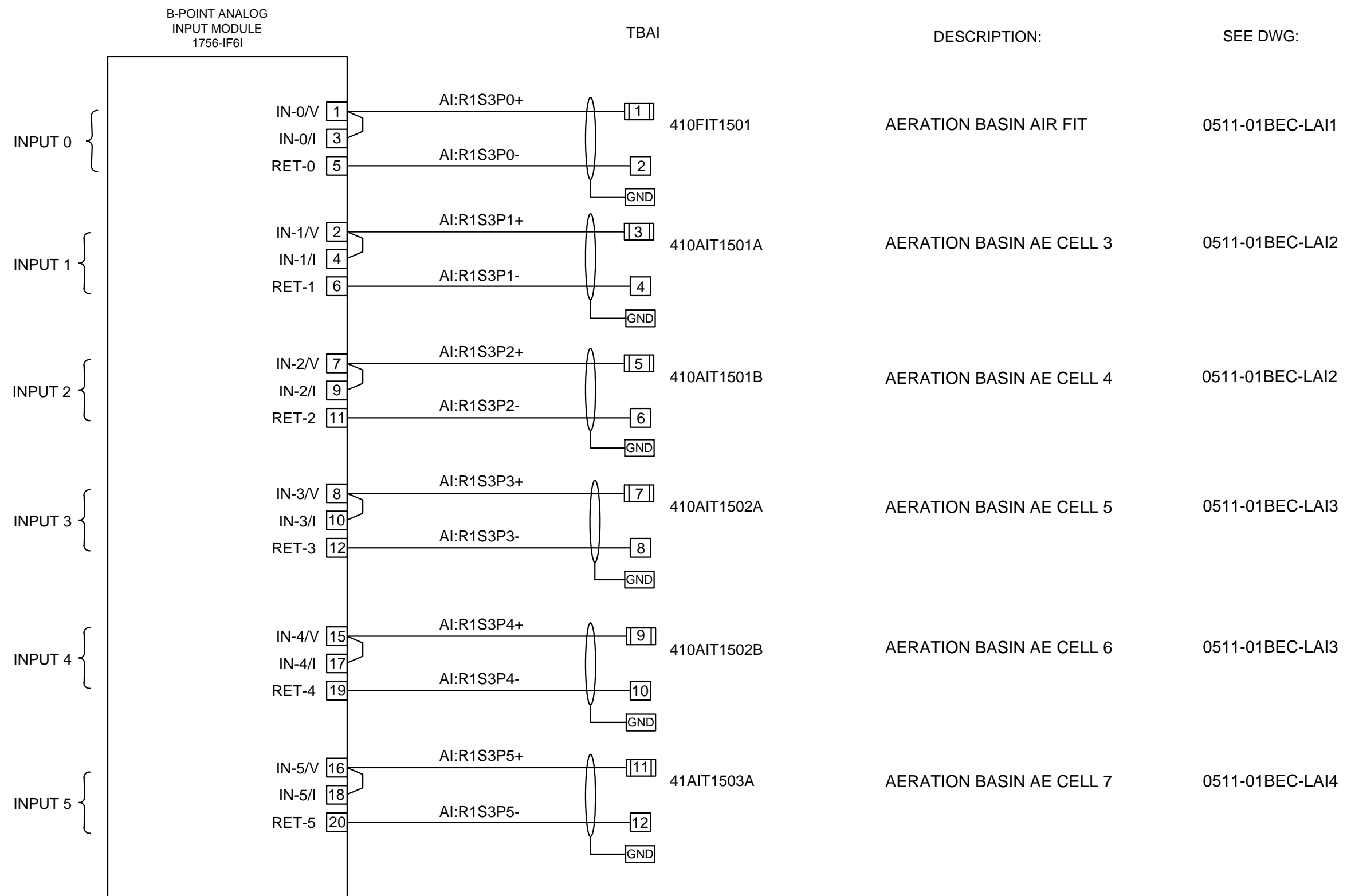
DESCRIPTION	SEE DWG:
AERATION BASIN MIXER 1	0511-01BEC-LDI1
AERATION BASIN MIXER 1	
AERATION BASIN MIXER 2	0511-01BEC-LDI2
AERATION BASIN MIXER 2	
AERATION BASIN MIXER 3 (FUTURE)	0511-01BEC-LDI3
AERATION BASIN MIXER 3 (FUTURE)	
AERATION BASIN MIXER 4 (FUTURE)	0511-01BEC-LDI4
AERATION BASIN MIXER 4 (FUTURE)	
MIXED LIQUOR RECYCLE PUMP (FUTURE)	0511-01BEC-LDI5
MIXED LIQUOR RECYCLE PUMP (FUTURE)	
AIR COMPRESSOR 1	0511-01BEC-LDI6
AIR COMPRESSOR 1	
AIR COMPRESSOR 2	0511-01BEC-LDI7
AIR COMPRESSOR 2	
AIR DRYER	0511-01BEC-LDI8
AIR DRYER	

**DISCRETE PLC
I/O MODULE WIRING**

H				OPTIMAL CONTROL SYSTEMS	
G				2324 THREE LAKES RD / PO BOX 462	
F				ALBANY, OR 97321	
E	2011.11.18	Air Compressor	HAD	PHONE (541) 967-9323	FAX (541) 967-9485
D	2.NOV.2011	AS BUILT	KD	CLIENT BENTON ELECTRIC	
C	13.SEP.2011	LABELING	KD	TITLE DISCRETE INPUT CARD	
B	23.AUG.2011	TERMINALS	KD	SLOT 1	
A	25.MAY.2011	Original Draft	ME	DRAWN ME	ISSUED
REV	DATE	DESCRIPTION	INIT	CHECKED HD	DATE 25.MAY.2011
REVISIONS				APPROVED	SCALE NONE
				JOB NO. 0511-08BEC	DWG NO. 0511-08BEC-DI1-F
				SHEET 5	OF 31



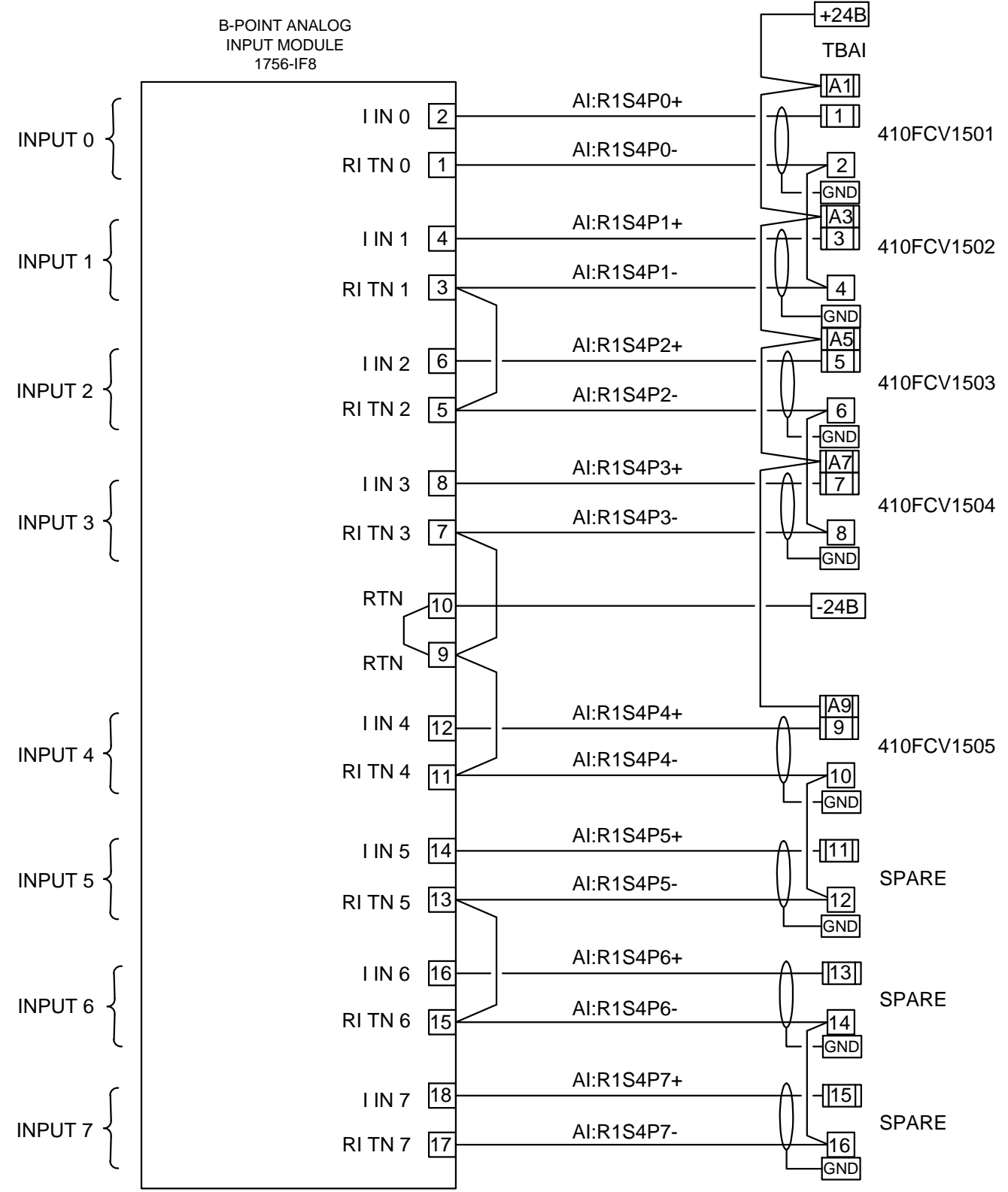
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ANALOG I/O MODULE WIRING

H				OPTIMAL CONTROL SYSTEMS		
G				2324 THREE LAKES RD / PO BOX 462		
F				ALBANY, OR 97321		
E				PHONE (541) 967-9323 FAX (541) 967-9485		
D				CLIENT BENTON ELECTRIC		
C	13.SEP.2011	LABELING	KD	TITLE ANALOG INPUT CARD		
B	23.AUG.2011	TERMINALS	KD	SLOT 3		
A	25.MAY.2011	Original Draft	ME	DRAWN ME	ISSUED	JOB NO. 0511-08BEC
REV	DATE	DESCRIPTION	INIT	CHECKED HD	DATE 25.MAY.2011	DWG NO. 0511-08BEC-A11-C
REVISIONS				APPROVED	SCALE NONE	SHEET 7 OF 31

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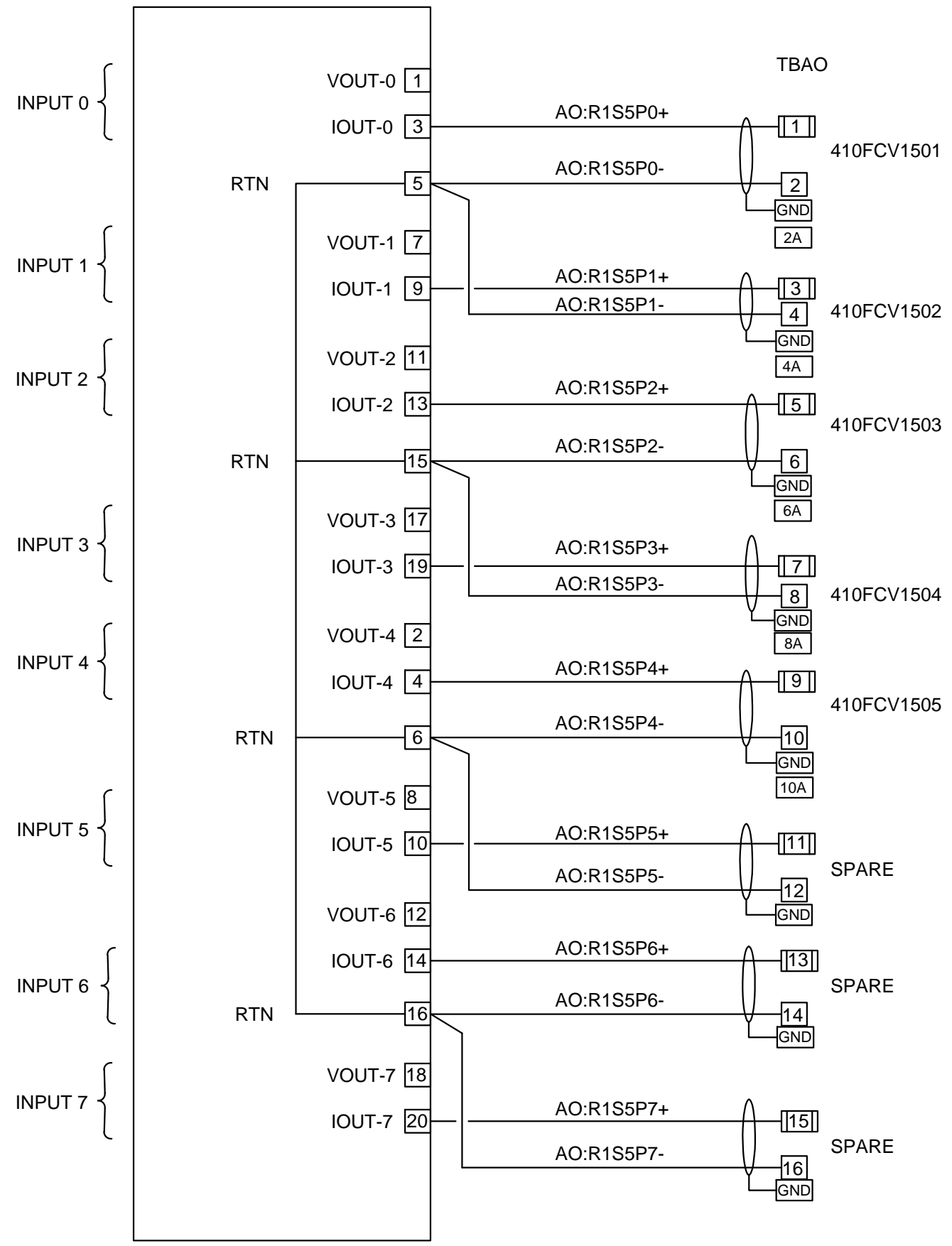
DESCRIPTION:	SEE DWG:
AERATION BASIN FCV CELL 3	0511-01BEC-LAIO1
AERATION BASIN FCV CELL 4	0511-01BEC-LAIO1
AERATION BASIN FCV CELL 5	0511-01BEC-LAI1
AERATION BASIN FCV CELL 6	0511-01BEC-LAI2
AERATION BASIN FCV CELL 7&8	0511-01BEC-LAI2

ANALOG I/O MODULE WIRING

H				OPTIMAL CONTROL SYSTEMS		
G				2324 THREE LAKES RD / PO BOX 462		
F				ALBANY, OR 97321		
E				PHONE (541) 967-9323	FAX (541) 967-9485	
D				CLIENT BENTON ELECTRIC		
C	13.SEP.2011	LABELING	KD	TITLE ANALOG INPUT CARD		
B	23.AUG.2011	TERMINALS	KD	SLOT 4		
A	25.MAY.2011	Original Draft	ME	DRAWN ME	ISSUED	JOB NO. 0511-08BEC
REV	DATE	DESCRIPTION	INIT	CHECKED HD	DATE 25.MAY.2011	DWG NO. 0511-08BEC-AI2-C
REVISIONS				APPROVED	SCALE NONE	SHEET 8 OF 31

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B-POINT ANALOG
OUTPUT MODULE
1756-OF8



DESCRIPTION:

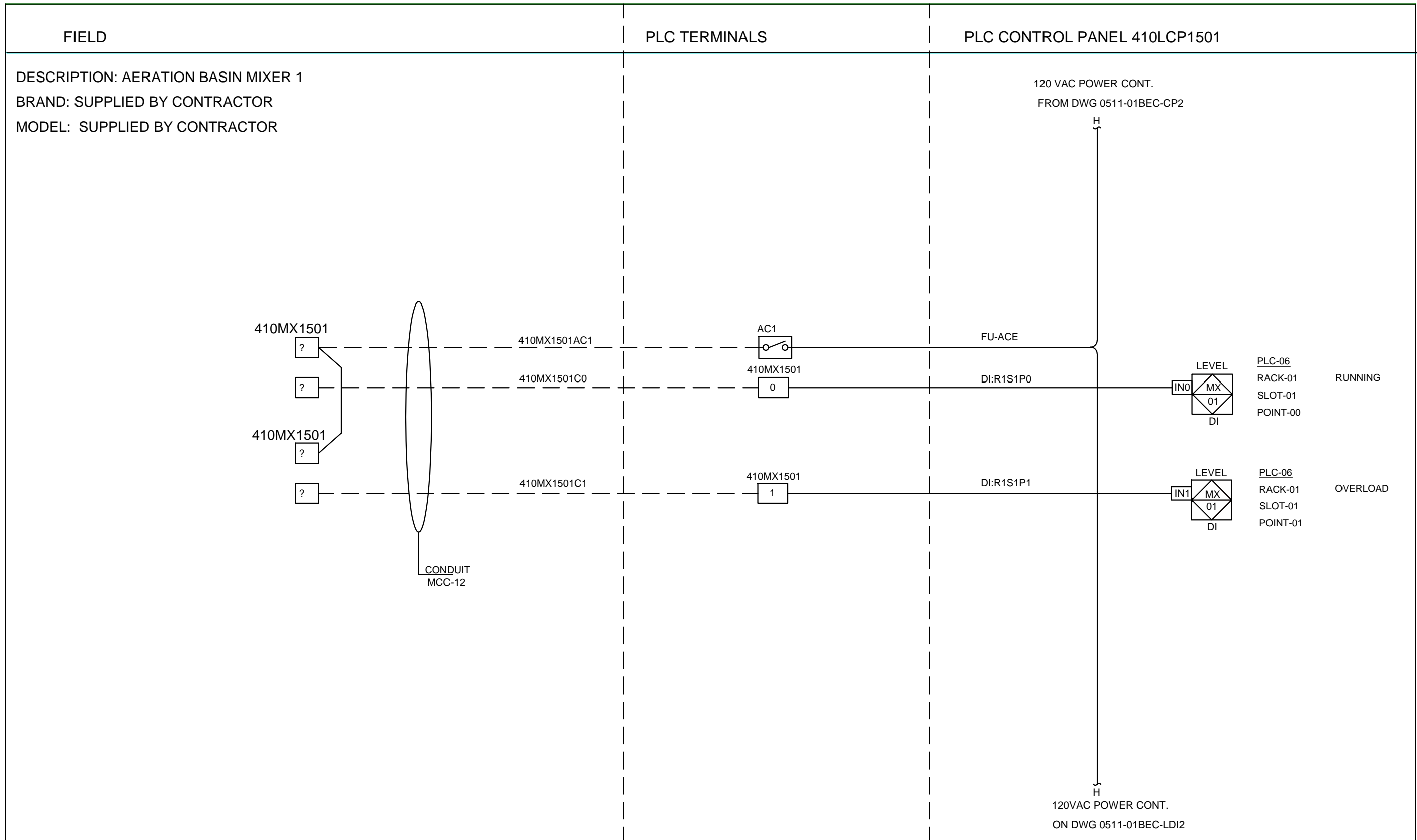
SEE DWG:

410FCV1501	AERATION BASIN FCV CELL 3	0511-01BEC-LAIO1
410FCV1502	AERATION BASIN FCV CELL 4	0511-01BEC-LAIO2
410FCV1503	AERATION BASIN FCV CELL 5	0511-01BEC-LAIO3
410FCV1504	AERATION BASIN FCV CELL 6	0511-01BEC-LAIO4
410FCV1505	AERATION BASIN FCV CELL 7&8	0511-01BEC-LAIO5

ANALOG
I/O MODULE WIRING

H				OPTIMAL CONTROL SYSTEMS		
G				2324 THREE LAKES RD / PO BOX 462		
F				ALBANY, OR 97321		
E				PHONE (541) 967-9323	FAX (541) 967-9485	
D				CLIENT BENTON ELECTRIC		
C	13.SEP.2011	LABELING	KD	TITLE ANALOG OUTPUT CARD		
B	23.AUG.2011	TERMINALS	KD	SLOT 5		
A	25.MAY.2011	Original Draft	ME	DRAWN ME	ISSUED	JOB NO. 0511-08BEC
REV	DATE	DESCRIPTION	INIT	CHECKED HD	DATE 25.MAY.2011	DWG NO. 0511-08BEC-AD-C
REVISIONS				APPROVED	SCALE NONE	SHEET 9 OF 31

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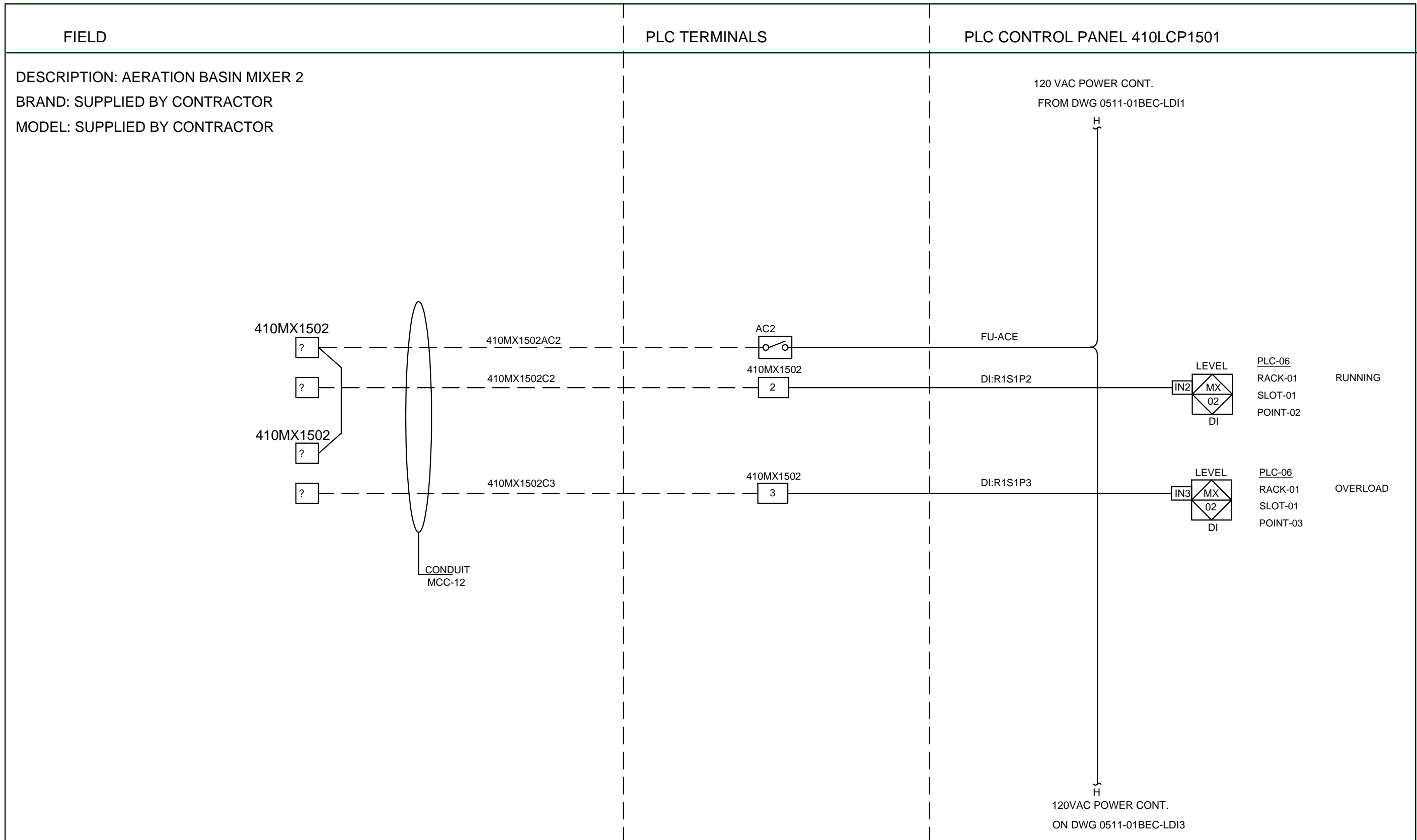


INSTRUMENT TAG	DESCRIPTION	PLC
410MX1501	RUNNING	PLC-06
410MX1501	OVERLOAD	PLC-06

H				OPTIMAL CONTROL SYSTEMS
G				2324 THREE LAKES RD / PO BOX 462
F				ALBANY, OR 97321
E				PHONE (541) 967-9323 FAX (541) 967-9485
D				CLIENT BENTON ELECTRIC
C				TITLE AERATION BASIN MIXER 1
B	13.SEP.2011	WIRE NUMBERS	KD	DISCRETE IN LOOP DWG
A	25.MAY.2011	Original Draft	ME	
REV	DATE	DESCRIPTION	INIT	
REVISIONS				
				JOB NO. 0511-08BEC
				DWG NO. 0511-08BEC-LDI1-B
				SHEET 10 OF 31



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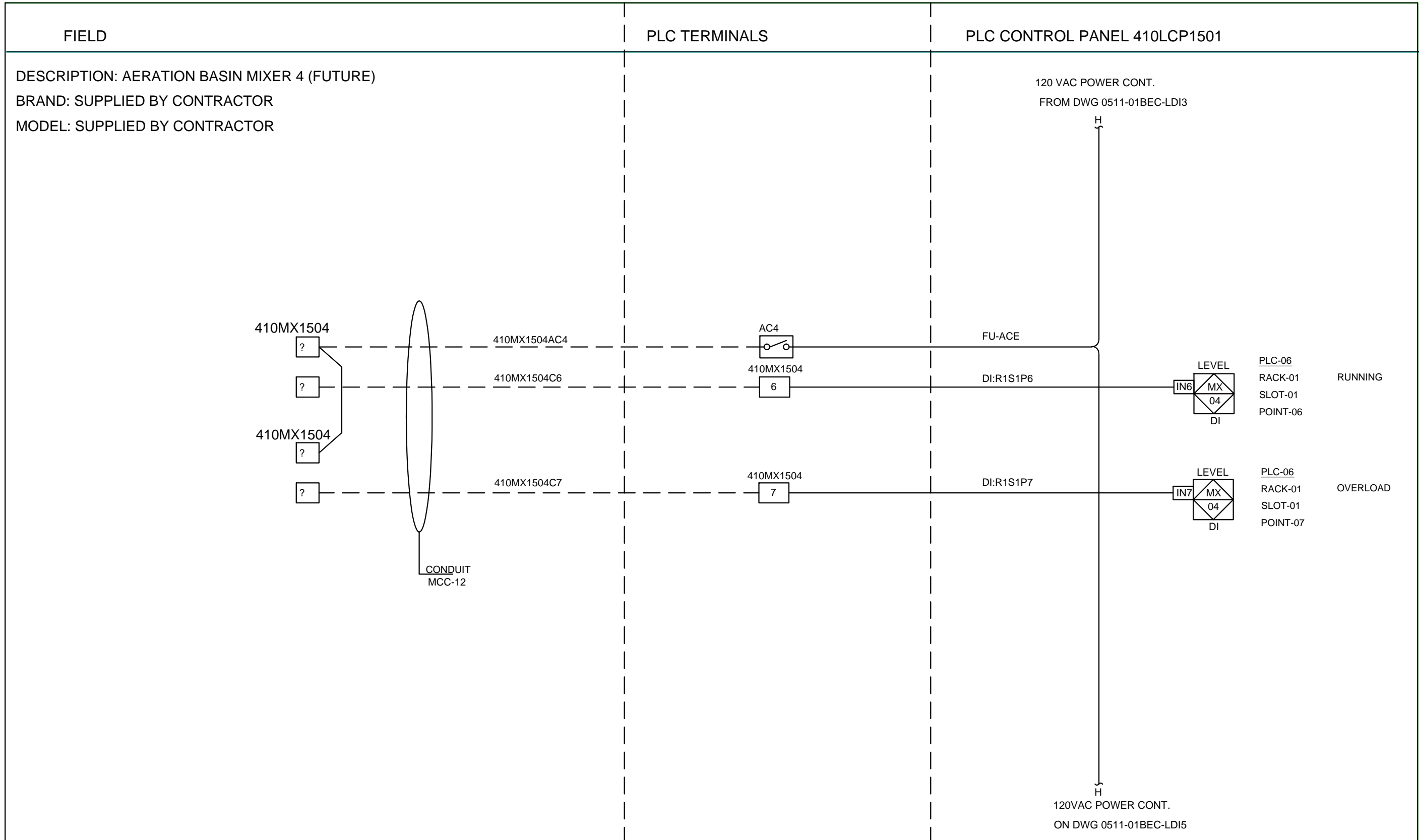


INSTRUMENT TAG	DESCRIPTION	PLC
410MX1502	RUNNING	PLC-06
410MX1502	OVERLOAD	PLC-06

H				OPTIMAL CONTROL SYSTEMS
G				2324 THREE LAKES RD / PO BOX 462
F				ALBANY, OR 97321
E				PHONE (541) 967-9323 FAX (541) 967-9485
D				CLIENT BENTON ELECTRIC
C				TITLE AERATION BASIN MIXER 2
B	13.SEP.2011	WIRE NUMBERS	KD	DISCRETE IN LOOP DWG
A	25.MAY.2011	Original Draft	ME	
REV	DATE	DESCRIPTION	INIT	DRAWN ME CHECKED HD APPROVED
REVISIONS				ISSUED DATE 25.MAY.2011 JOB NO. 0511-08BEC DWG NO. 0511-08BEC-LDI2-B SCALE NONE SHEET 11 OF 31



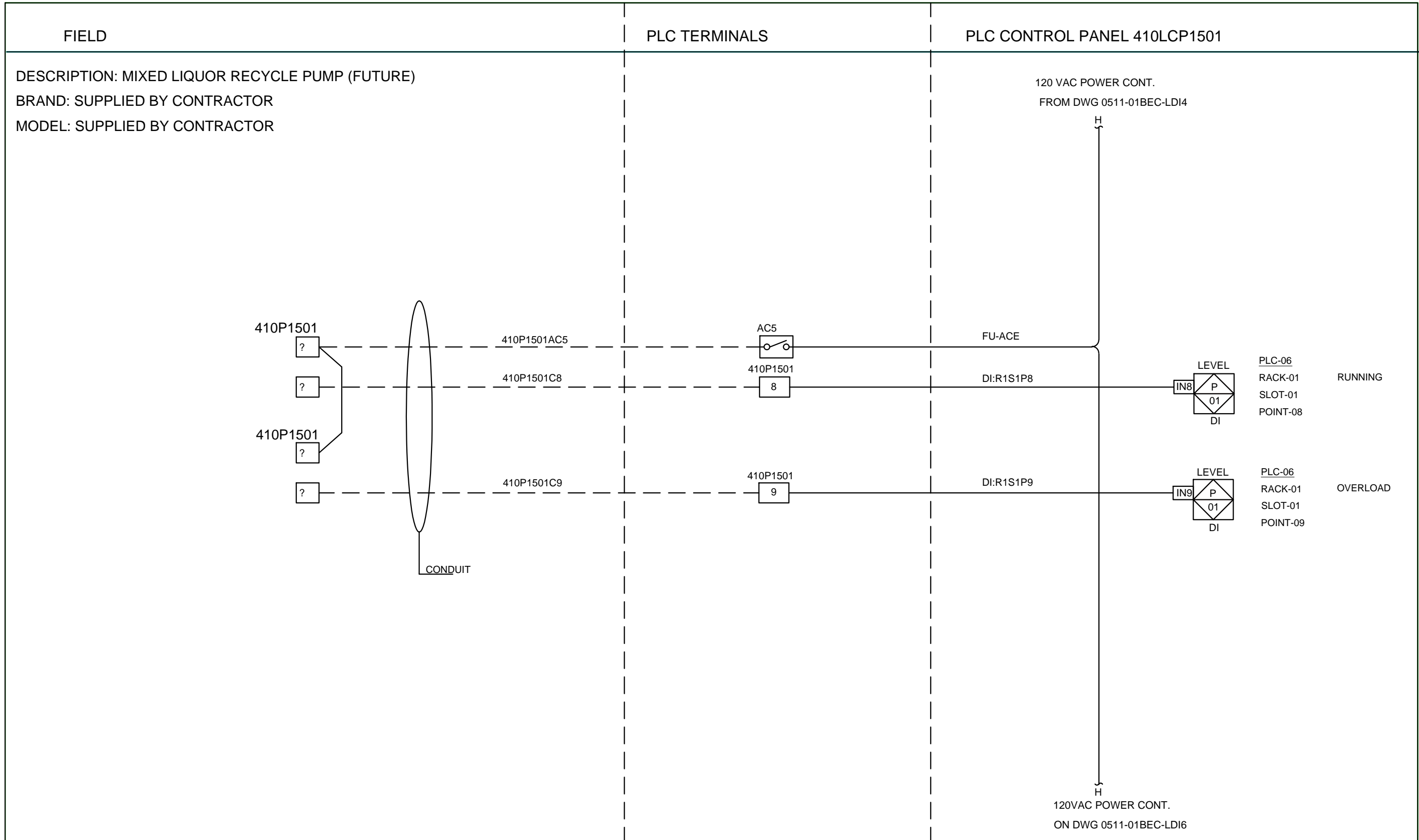
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INSTRUMENT TAG	DESCRIPTION	PLC
410MX1504	RUNNING	PLC-06
410MX1501	OVERLOAD	PLC-06

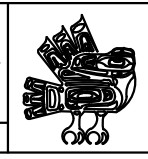
H				OPTIMAL CONTROL SYSTEMS			
G				2324 THREE LAKES RD / PO BOX 462			
F				ALBANY, OR 97321			
E				PHONE (541) 967-9323 FAX (541) 967-9485			
D				CLIENT BENTON ELECTRIC			
C				TITLE AERATION BASIN MIXER 4 (FUTURE) DISCRETE IN LOOP DWG			
B	13.SEP.2011	WIRE NUMBERS	KD				
A	25.MAY.2011	Original Draft	ME				
REV	DATE	DESCRIPTION	INIT	CHECKED	DATE	DWG NO.	JOB NO.
				HD	25.MAY.2011	0511-08BEC-LDI4-B	0511-08BEC
REVISIONS				APPROVED	SCALE	SHEET 13	OF 31
					NONE		

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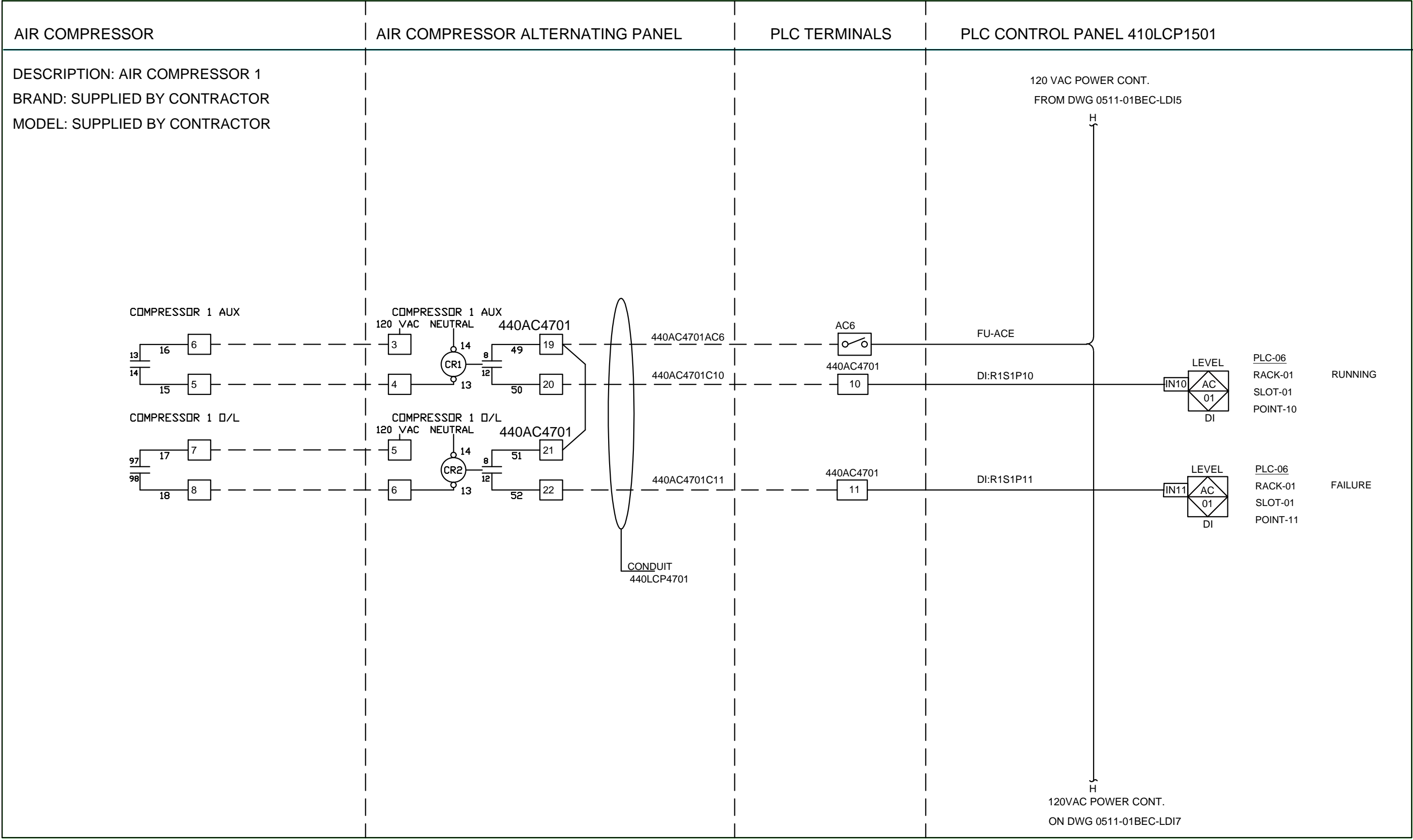


INSTRUMENT TAG	DESCRIPTION	PLC
410P1501	RUNNING	PLC-06
410P1501	OVERLOAD	PLC-06

H				OPTIMAL CONTROL SYSTEMS
G				2324 THREE LAKES RD / PO BOX 462
F				ALBANY, OR 97321
E				PHONE (541) 967-9323 FAX (541) 967-9485
D				CLIENT BENTON ELECTRIC
C				TITLE MIXED LIQUOR RECYCLE PUMP (FUTURE) DISCRETE IN LOOP DWG
B	13.SEP.2011	WIRE NUMBERS	KD	
A	25.MAY.2011	Original Draft	ME	
REV	DATE	DESCRIPTION	INIT	DRAWN ME CHECKED HD APPROVED
REVISIONS				ISSUED DATE 25.MAY.2011 JOB NO. 0511-08BEC DWG NO. 0511-08BEC-LDI5-B SCALE NONE SHEET 14 OF 31



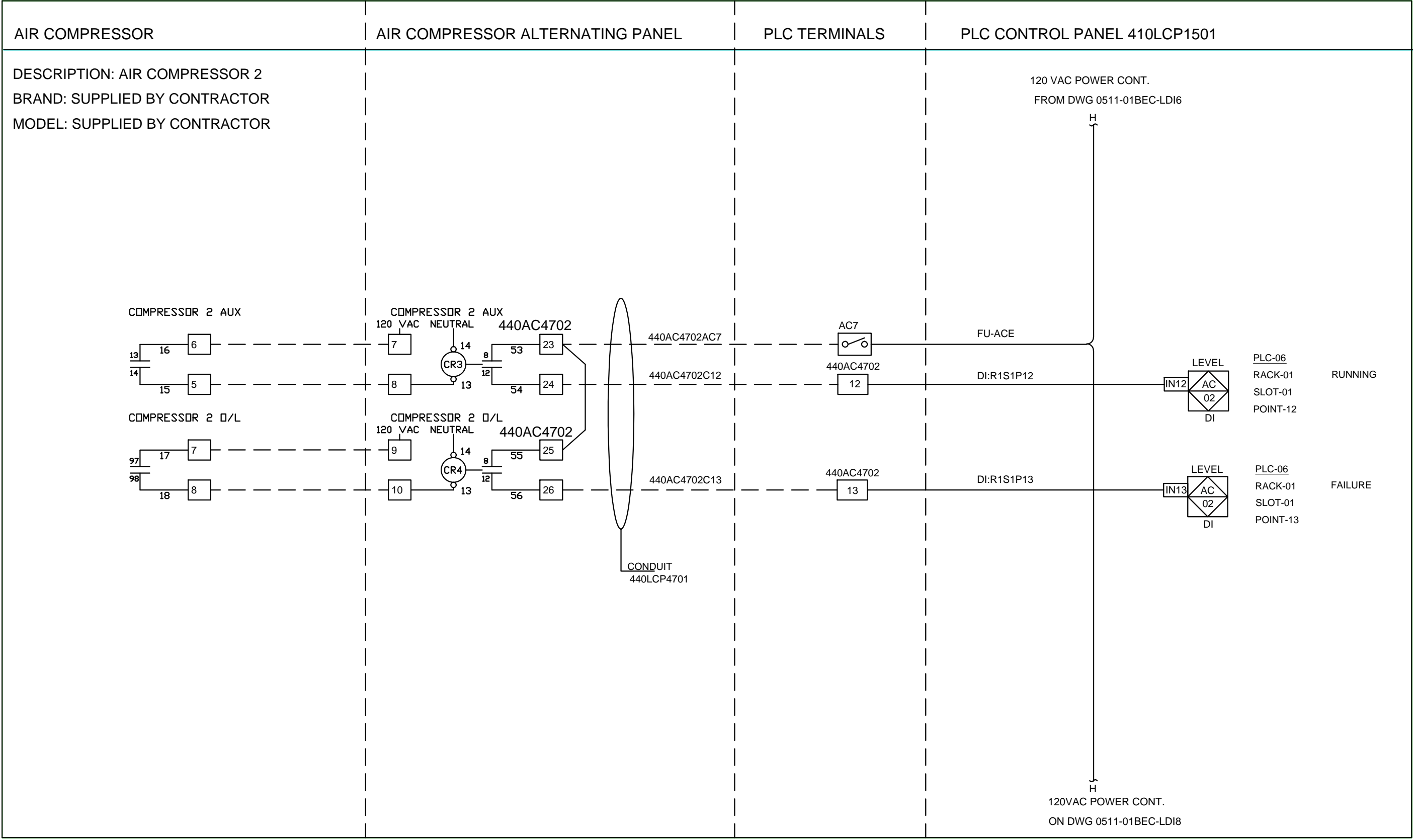
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INSTRUMENT TAG	DESCRIPTION	PLC
440AC4701	RUNNING	PLC-06
440AC4701	FAILURE	PLC-06

H				OPTIMAL CONTROL SYSTEMS		
G				2324 THREE LAKES RD / PO BOX 462		
F				ALBANY, OR 97321		
E				PHONE (541) 967-9323 FAX (541) 967-9485		
D				CLIENT BENTON ELECTRIC		
C	2011.11.18	Added Terminals	HAD	TITLE AIR COMPRESSOR 1		
B	13.SEP.2011	WIRE NUMBERS	KD	DISCRETE IN LOOP DWG		
A	25.MAY.2011	Original Draft	ME	DRAWN ME	ISSUED	JOB NO. 0511-08BEC
REV	DATE	DESCRIPTION	INIT	CHECKED HD	DATE 25.MAY.2011	DWG NO. 0511-08BEC-LDI6-C
REVISIONS				APPROVED	SCALE NONE	SHEET 15 OF 31

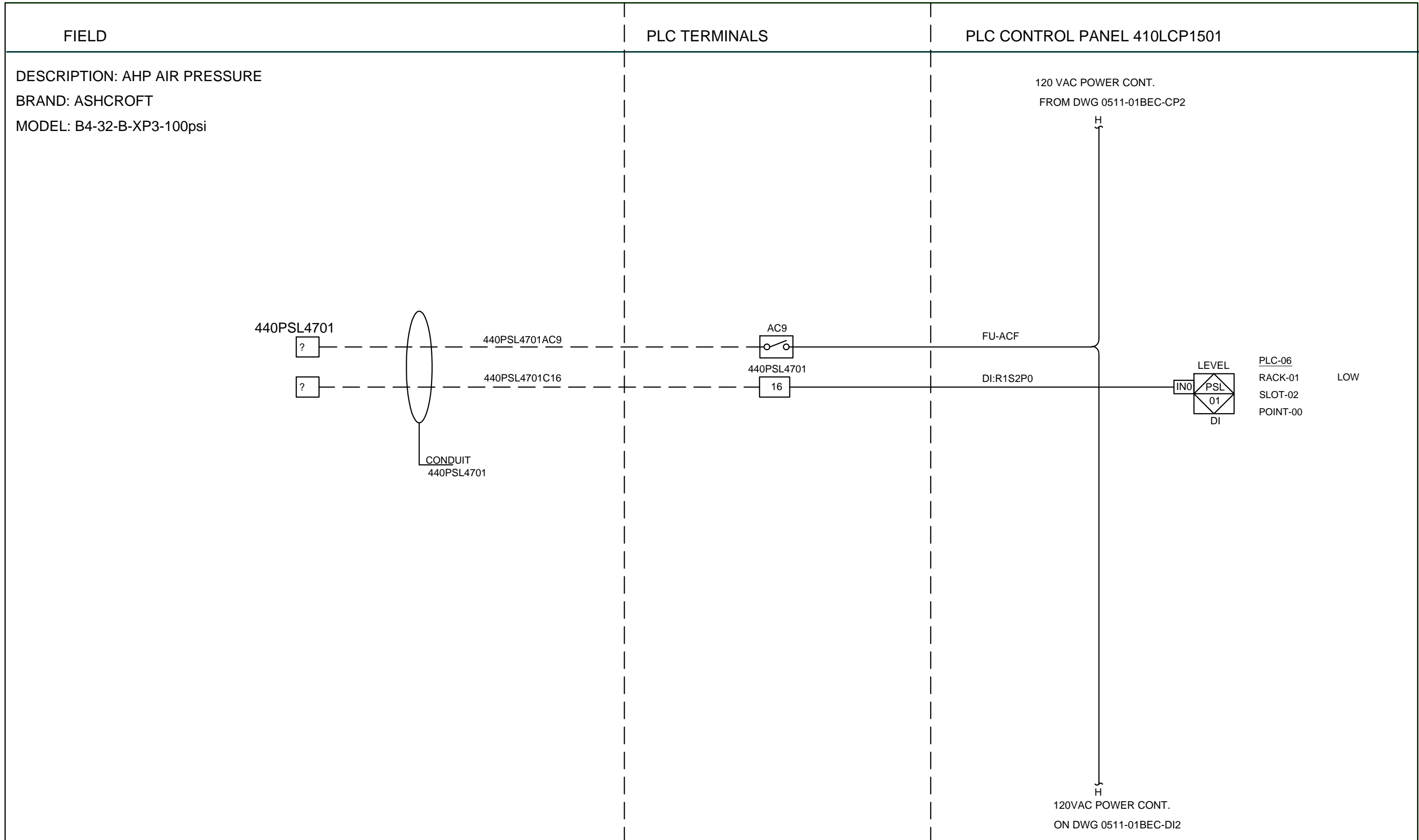
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INSTRUMENT TAG	DESCRIPTION	PLC
440AC4702	RUNNING	PLC-06
440AC4702	FAILURE	PLC-06

H				OPTIMAL CONTROL SYSTEMS		
G				2324 THREE LAKES RD / PO BOX 462		
F				ALBANY, OR 97321		
E				PHONE (541) 967-9323 FAX (541) 967-9485		
D				CLIENT BENTON ELECTRIC		
C	2011.11.18	TERMINALS	HAD	TITLE AIR COMPRESSOR 2		
B	13.SEP.2011	WIRE NUMBERS	KD	DISCRETE IN LOOP DWG		
A	25.MAY.2011	Original Draft	ME			
REV	DATE	DESCRIPTION	INIT	CHECKED	DATE	JOB NO. 0511-08BEC
				APPROVED	SCALE	DWG NO. 0511-08BEC-LDI7-C
REVISIONS						SHEET 16 OF 31

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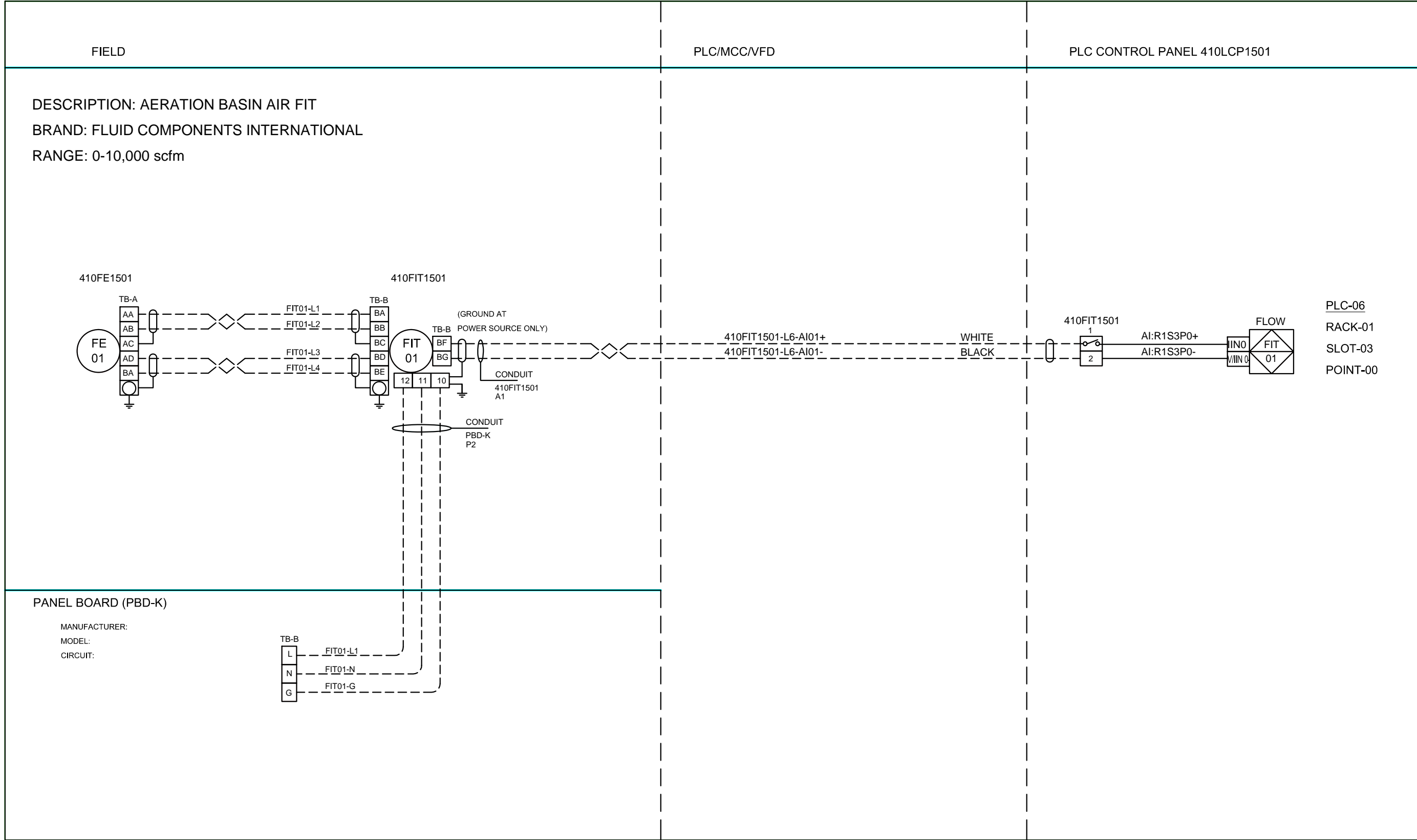


INSTRUMENT TAG	DESCRIPTION	PLC
410PSL4701	LOW	PLC-06

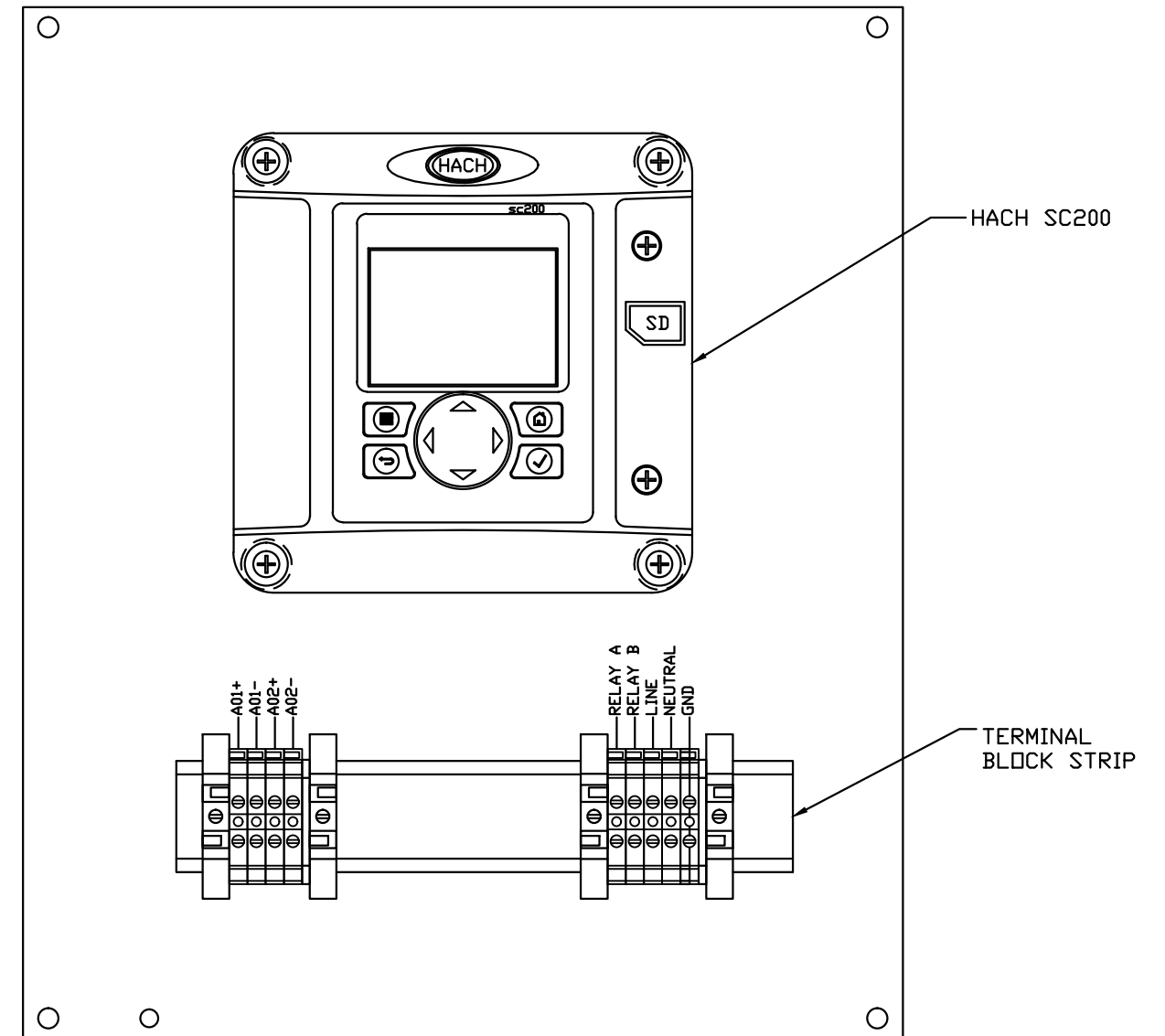
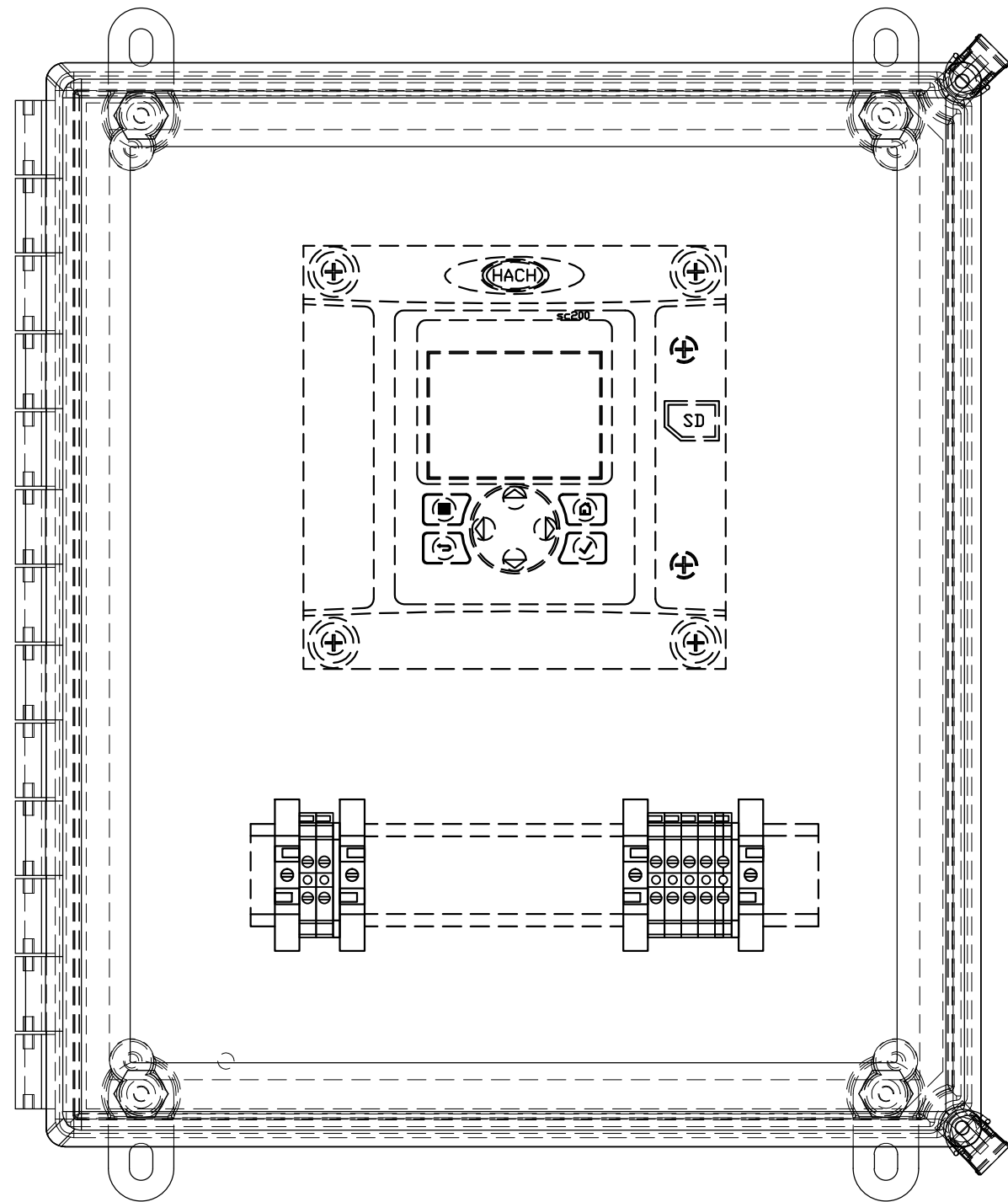
H				OPTIMAL CONTROL SYSTEMS
G				2324 THREE LAKES RD / PO BOX 462
F				ALBANY, OR 97321
E				PHONE (541) 967-9323 FAX (541) 967-9485
D				CLIENT BENTON ELECTRIC
C				TITLE AHP AIR PRESSURE DISCRETE IN LOOP DWG
B	13.SEP.2011	WIRE NUMBERS	KD	
A	25.MAY.2011	Original Draft	ME	
REV	DATE	DESCRIPTION	INIT	
REVISIONS				
				JOB NO. 0511-08BEC
				DWG NO. 0511-08BEC-LDI9-B
				SHEET 18 OF 31



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H				OPTIMAL CONTROL SYSTEMS		
G				2324 THREE LAKES RD / PO BOX 462		
F				ALBANY, OR 97321		
E				PHONE (541) 967-9323 FAX (541) 967-9485		
D				CLIENT BENTON ELECTRIC		
C				TITLE AERATION BASIN AIR FIT		
B	13.SEP.2011	WIRE NUMBERS	KD	ANALOG IN LOOP DWG		
A	25.MAY.2011	Original Draft	ME	DRAWN ME	ISSUED	JOB NO. 0511-08BEC
REV	DATE	DESCRIPTION	INIT	CHECKED HD	DATE 25.MAY.2011	DWG NO. 0511-08BEC-LA11-B
REVISIONS				APPROVED	SCALE NONE	SHEET 19 OF 31



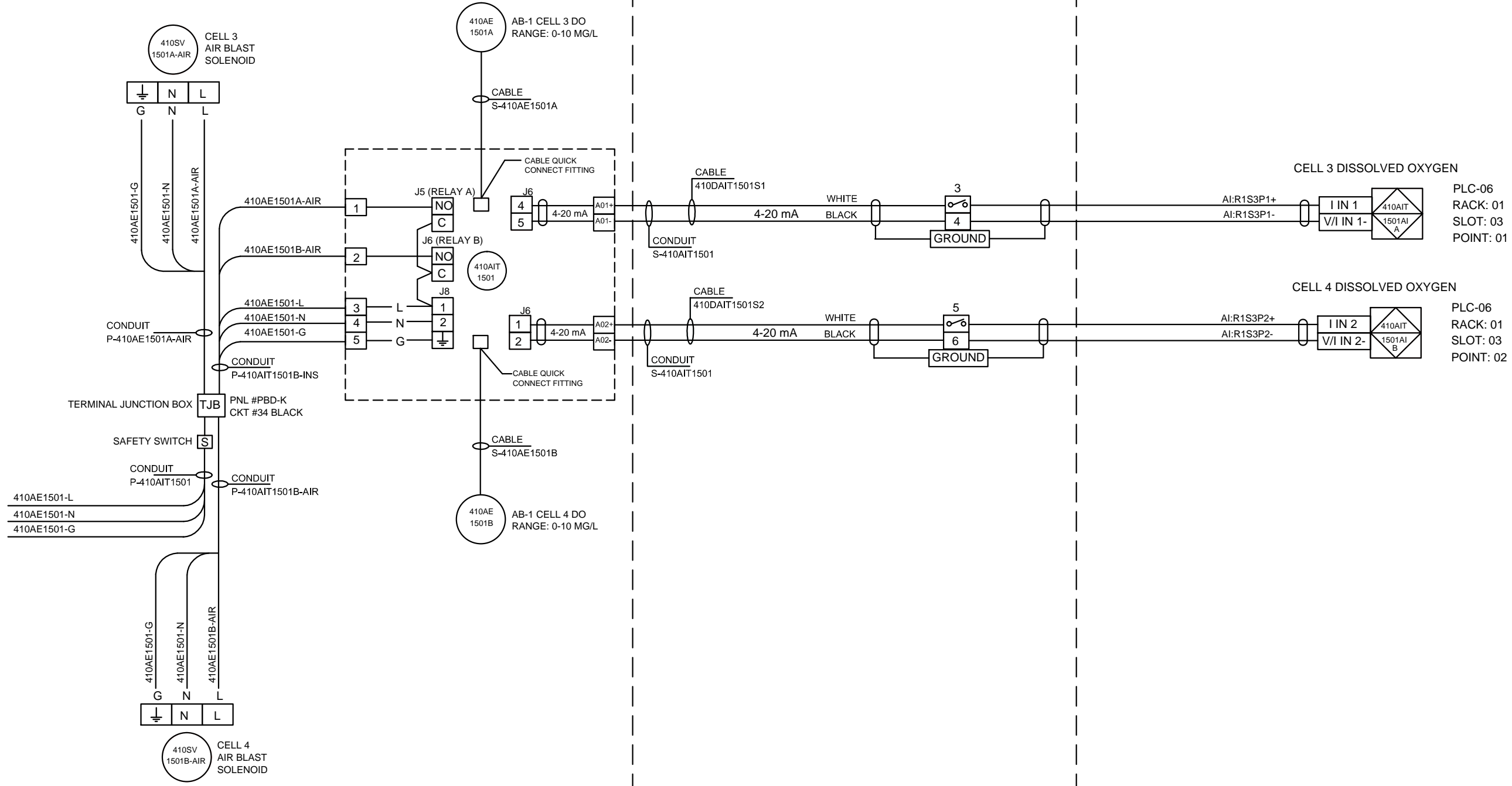
H				OPTIMAL CONTROL SYSTEMS		
G				2324 THREE LAKES RD / PO BOX 462		
F				ALBANY, OR 97321		
E				PHONE (541) 967-9323	FAX (541) 967-9485	
D				CLIENT BENTON ELECTRIC		
C				TITLE AERATION BASIN AE CELL 3&4		
B	27.JUL.2011	REVISED	KD	LAYOUT		
A	5/31/2011	Original Draft	KD	DRAWN KD	ISSUED	JOB NO. 0511-08BEC
REV	DATE	DESCRIPTION	INIT	CHECKED DID	DATE 5/31/2011	DWG NO. 0511-08BEC-BC3&4-B
REVISIONS				APPROVED DID	SCALE NONE	SHEET 20 OF 31

FIELD PROCESS AREA

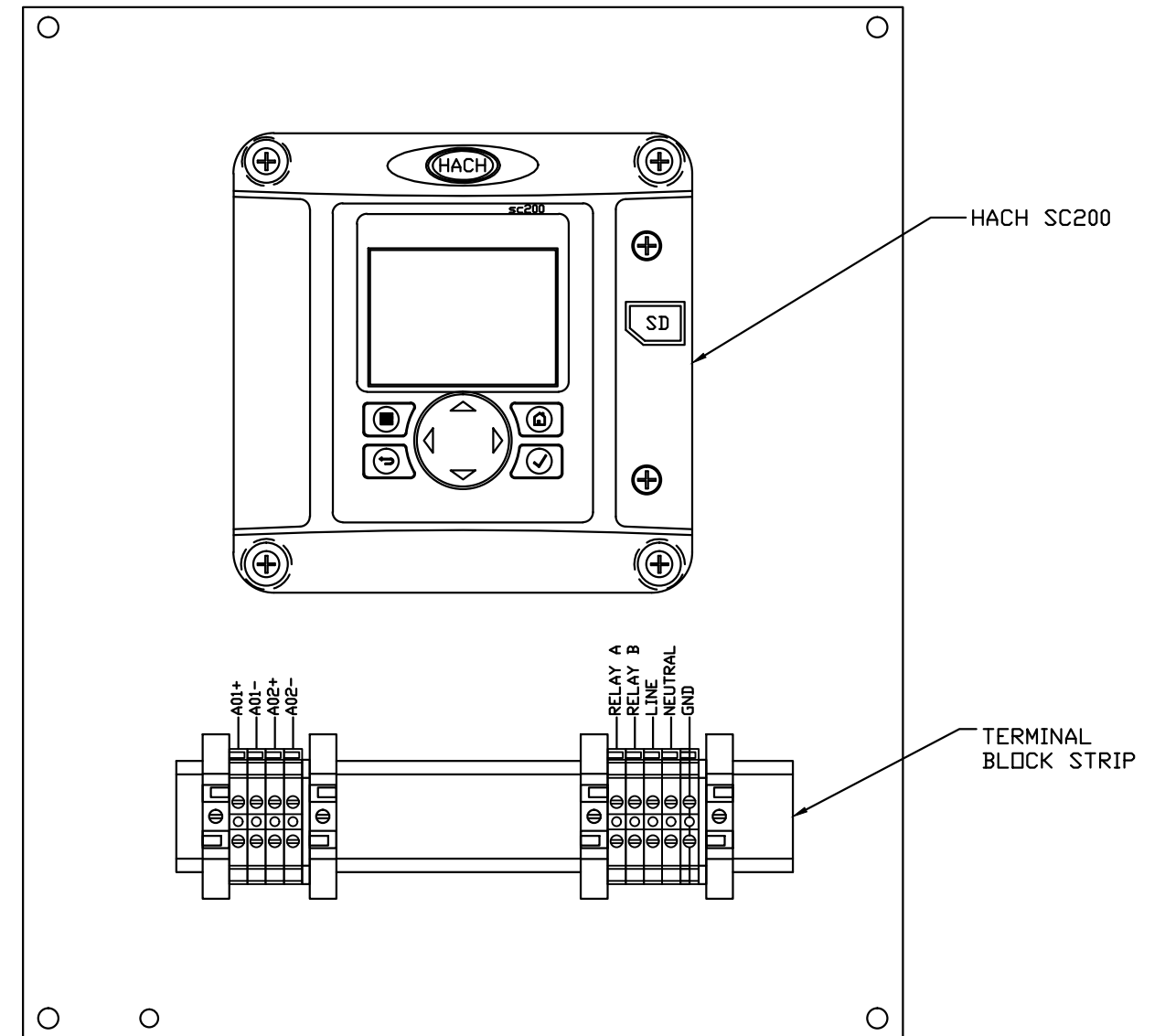
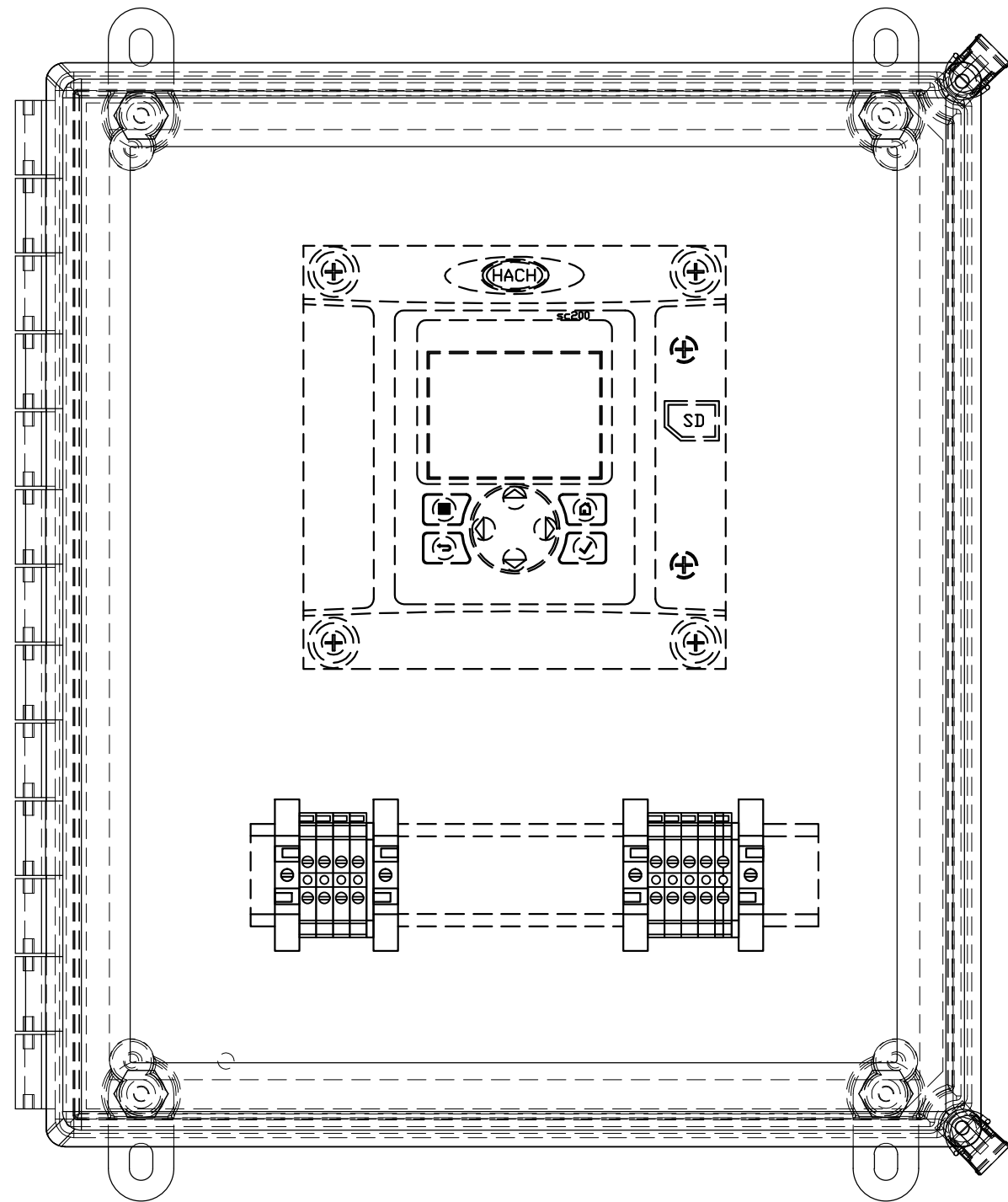
PLC TERMINAL STRIP

PLC CONTROL PANEL 410LCP1501

DESCRIPTION: AERATION BASIN AE CELL 3 & 4

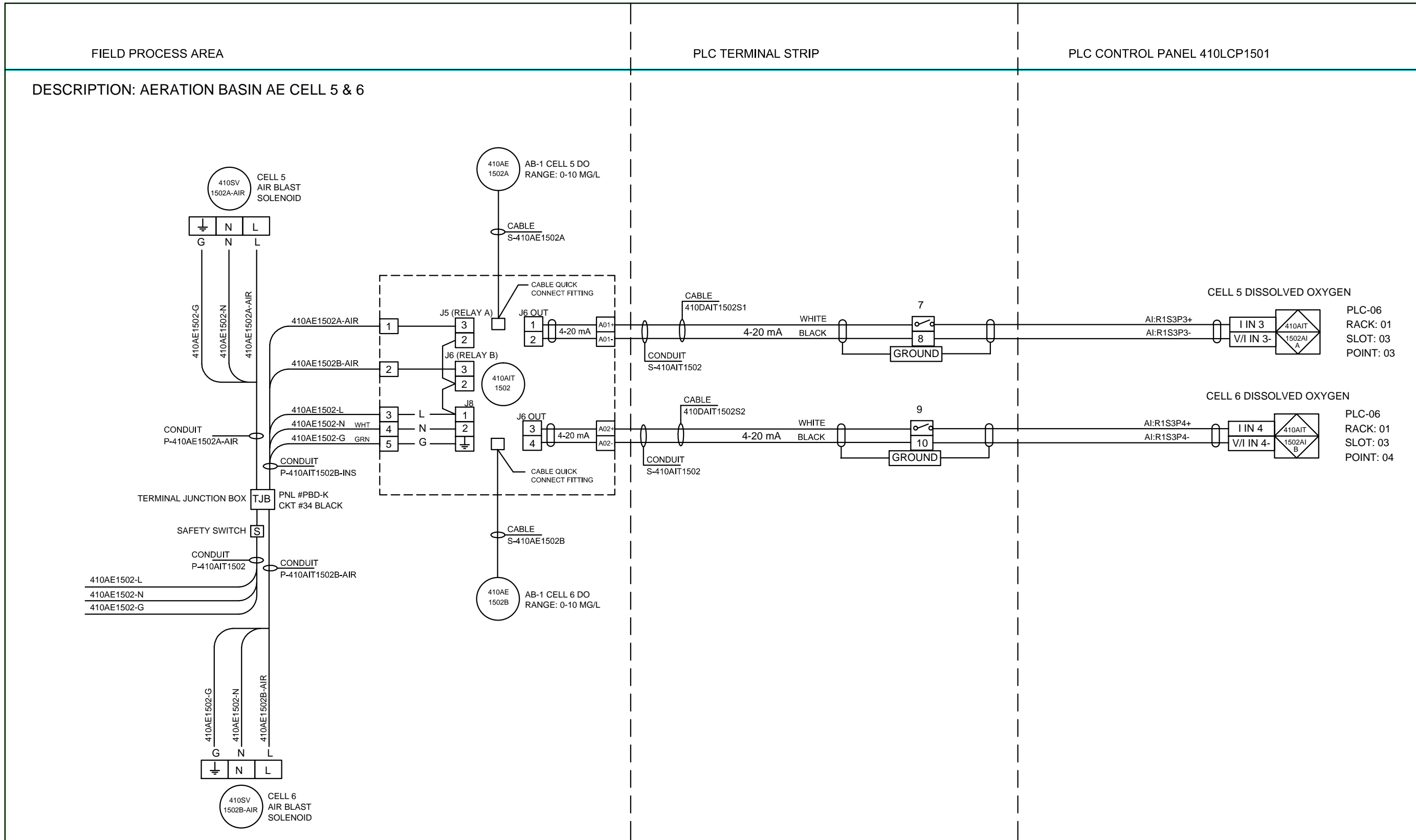


H				OPTIMAL CONTROL SYSTEMS		
G				2324 THREE LAKES RD / PO BOX 462		
F				ALBANY, OR 97321		
E				PHONE (541) 967-9323	FAX (541) 967-9485	
D				CLIENT BENTON ELECTRIC		
C	13.SEP.2011	WIRE NUMBERS	KD	TITLE AERATION BASIN AE CELL 3 & 4		
B	25.AUG.2011	REVISED	KD	ANALOG IN LOOP DWG		
A	25.MAY.2011	Original Draft	ME	DRAWN ME	ISSUED	JOB NO. 0511-08BEC
REV	DATE	DESCRIPTION	INIT	CHECKED HD	DATE 25.MAY.2011	DWG NO. 0511-08BEC-LAI2-C
REVISIONS				APPROVED	SCALE NONE	SHEET 21 OF 31



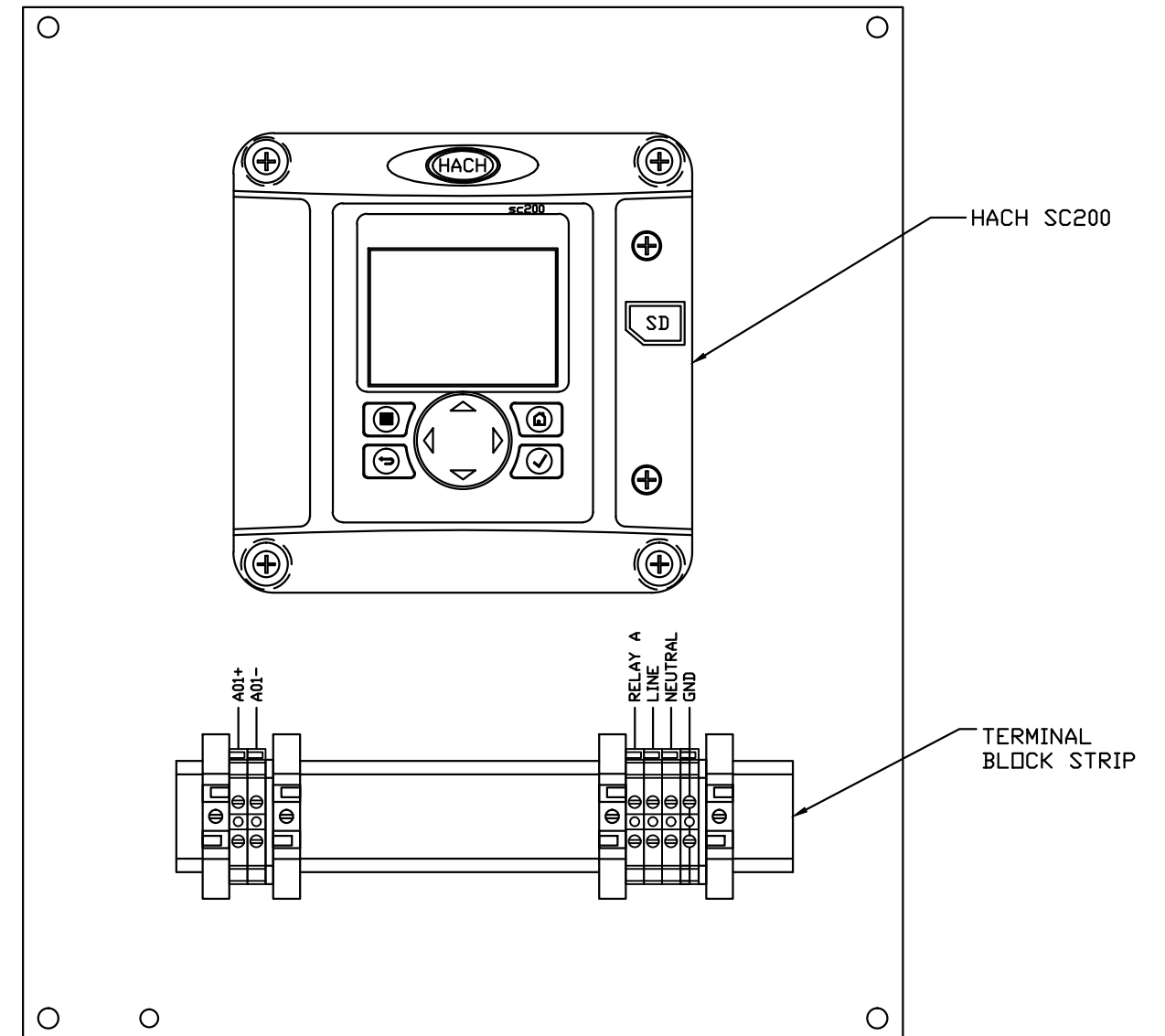
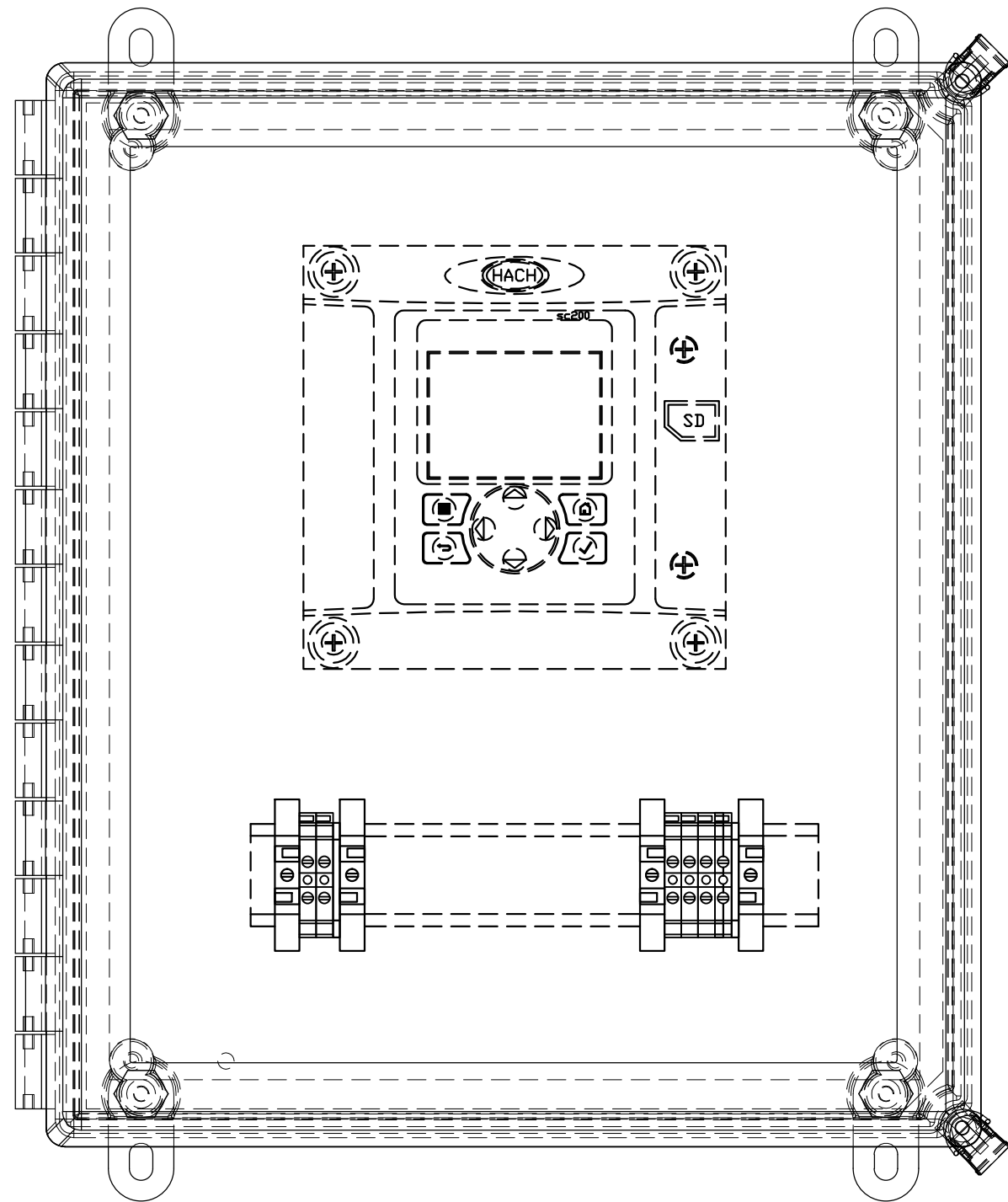
H				OPTIMAL CONTROL SYSTEMS		
G				2324 THREE LAKES RD / PO BOX 462		
F				ALBANY, OR 97321		
E				PHONE (541) 967-9323	FAX (541) 967-9485	
D				CLIENT BEC- HILLSBORO AERATION		
C				TITLE AERATION BASIN AE CELL 5 & 6		
B	27.JUL.2011	REVISED	KD	LAYOUT		
A	5/31/2011	Original Draft	KD	DRAWN KD	ISSUED	JOB NO. 0511-08BEC
REV	DATE	DESCRIPTION	INIT	CHECKED DID	DATE 5/31/2011	DWG NO. 0511-08BEC-BC5&6-B
REVISIONS				APPROVED DID	SCALE NONE	SHEET 22 OF 31


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H				OPTIMAL CONTROL SYSTEMS	
G				2324 THREE LAKES RD / PO BOX 462	
F				ALBANY, OR 97321	
E				PHONE (541) 967-9323 FAX (541) 967-9485	
D				CLIENT	BENTON ELECTRIC
C	13.SEP.2011	WIRE NUMBERS	KD	TITLE	AERATION BASIN AE CELL 5 & 6
B	27.JUL.2011	TERMINALS	KD	TITLE	ANALOG IN LOOP DWG
A	25.MAY.2011	Original Draft	ME	DRAWN	ME
REV	DATE	DESCRIPTION	INIT	CHECKED	DATE
				HD	25.MAY.2011
REVISIONS				APPROVED	SCALE
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				JOB NO.	0511-08BEC
				DWG NO.	0511-08BEC-LA13-C
				SHEET	23 OF 31





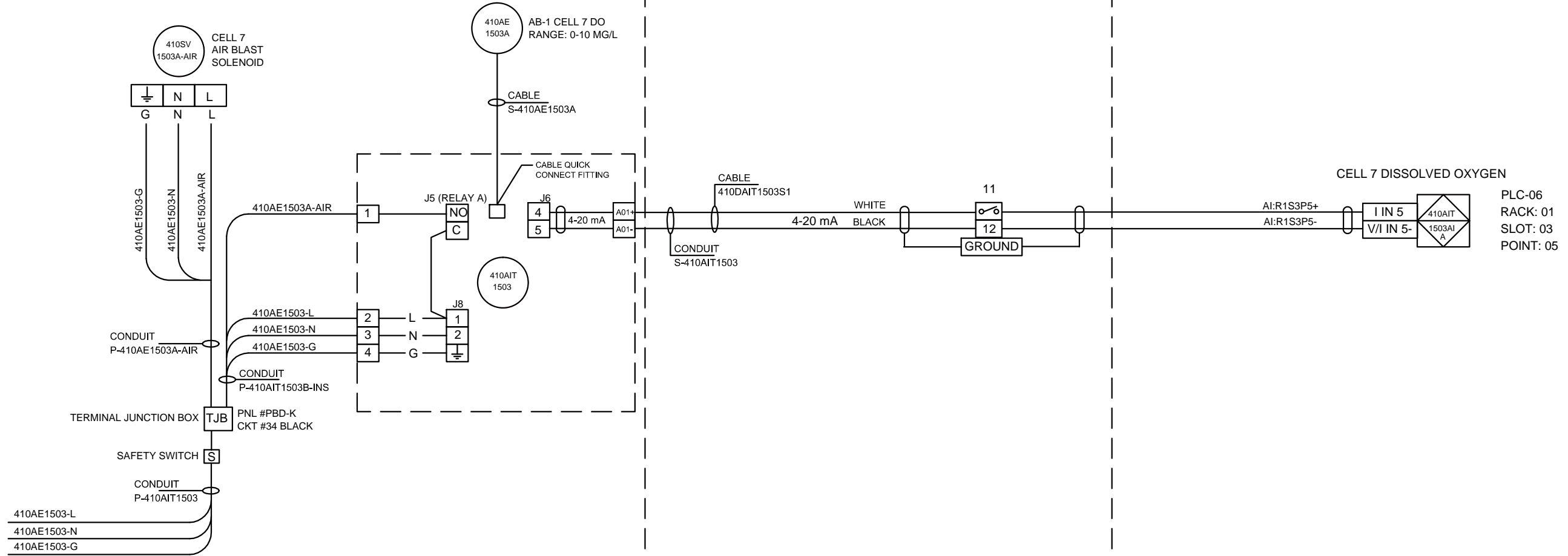
H				OPTIMAL CONTROL SYSTEMS		
G				2324 THREE LAKES RD / PO BOX 462		
F				ALBANY, OR 97321		
E				PHONE (541) 967-9323	FAX (541) 967-9485	
D				CLIENT BEC- HILLSBORO AERATION		
C				TITLE AERATION BASIN AE CELL 7		
B	27.JUL.2011	REVISED	KD	LAYOUT		
A	5/31/2011	Original Draft	KD	DRAWN KD	ISSUED	JOB NO. 0511-08BEC
REV	DATE	DESCRIPTION	INIT	CHECKED JTD	DATE 5/31/2011	DWG NO. 0511-08BEC-BC7-B
REVISIONS				APPROVED JTD	SCALE NONE	SHEET 24 OF 31

FIELD PROCESS AREA

PLC TERMINAL STRIP

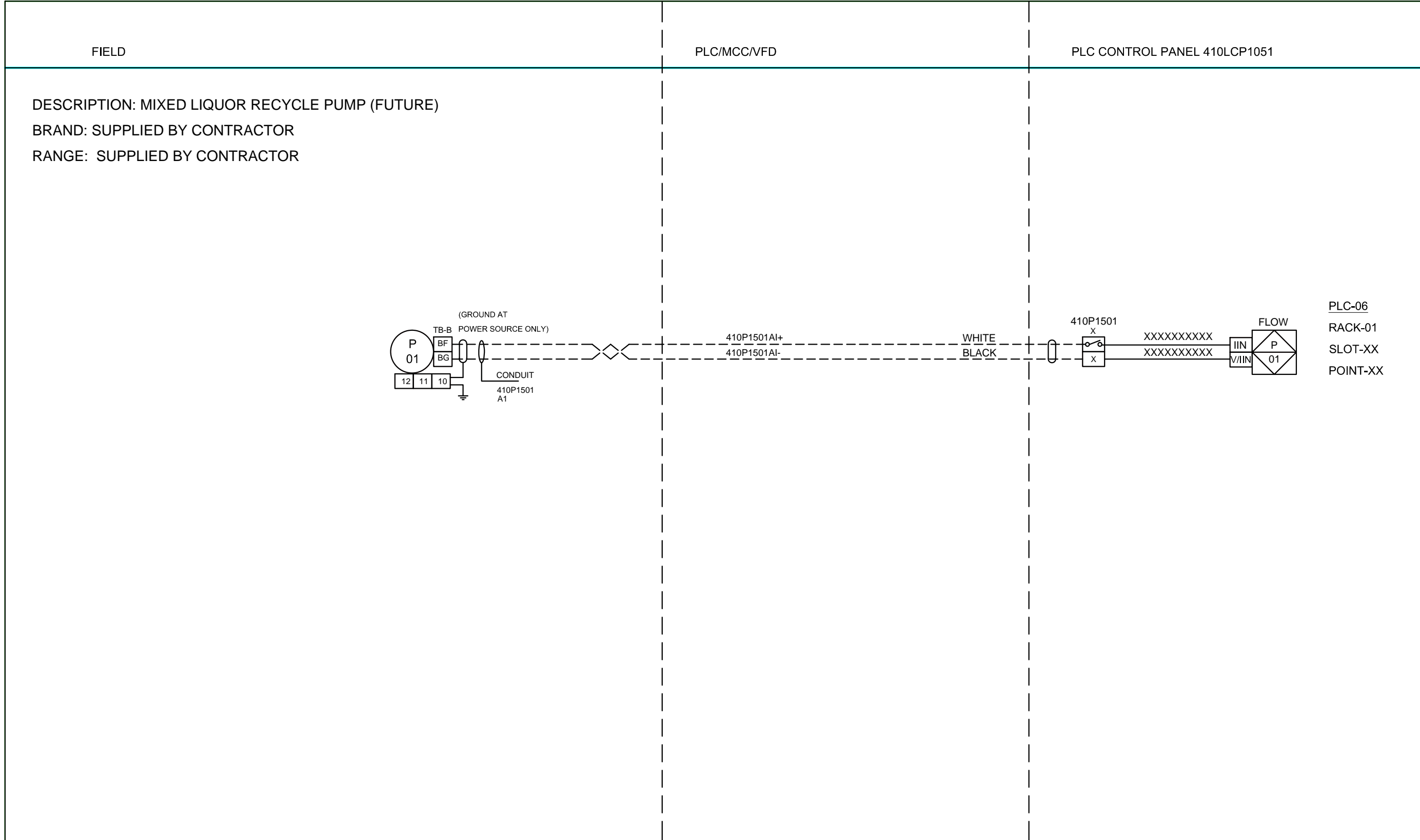
PLC CONTROL PANEL 410LCP1501

DESCRIPTION: AERATION BASIN AE CELL 7



H				OPTIMAL CONTROL SYSTEMS		
G				2324 THREE LAKES RD / PO BOX 462		
F				ALBANY, OR 97321		
E				PHONE (541) 967-9323	FAX (541) 967-9485	
D				CLIENT BENTON ELECTRIC		
C	13.SEP.2011	WIRE NUMBERS	KD	TITLE AERATION BASIN AE CELL 7		
B	27.JUL.2011	TERMINALS	KD	ANALOG IN LOOP DWG		
A	25.MAY.2011	Original Draft	ME	DRAWN ME	ISSUED	JOB NO. 0511-08BEC
REV	DATE	DESCRIPTION	INIT	CHECKED HD	DATE 25.MAY.2011	DWG NO. 0511-08BEC-LA14-C
REVISIONS				APPROVED	SCALE NONE	SHEET 25 OF 31

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H				OPTIMAL CONTROL SYSTEMS		
G				2324 THREE LAKES RD / PO BOX 462		
F				ALBANY, OR 97321		
E				PHONE (541) 967-9323 FAX (541) 967-9485		
D				CLIENT BENTON ELECTRIC		
C	13.SEP.2011	WIRE NUMBERS	KD	TITLE MIXED LIQUOR RECYCLE PUMP (FUTURE)		
B	9.SEP.2011	CARD	KD	ANALOG IN LOOP DWG		
A	25.MAY.2011	Original Draft	ME	DRAWN ME	ISSUED	JOB NO. 0511-08BEC
REV	DATE	DESCRIPTION	INIT	CHECKED HD	DATE 25.MAY.2011	DWG NO. 0511-08BEC-LA15-C
REVISIONS				APPROVED	SCALE NONE	SHEET 26 OF 31

