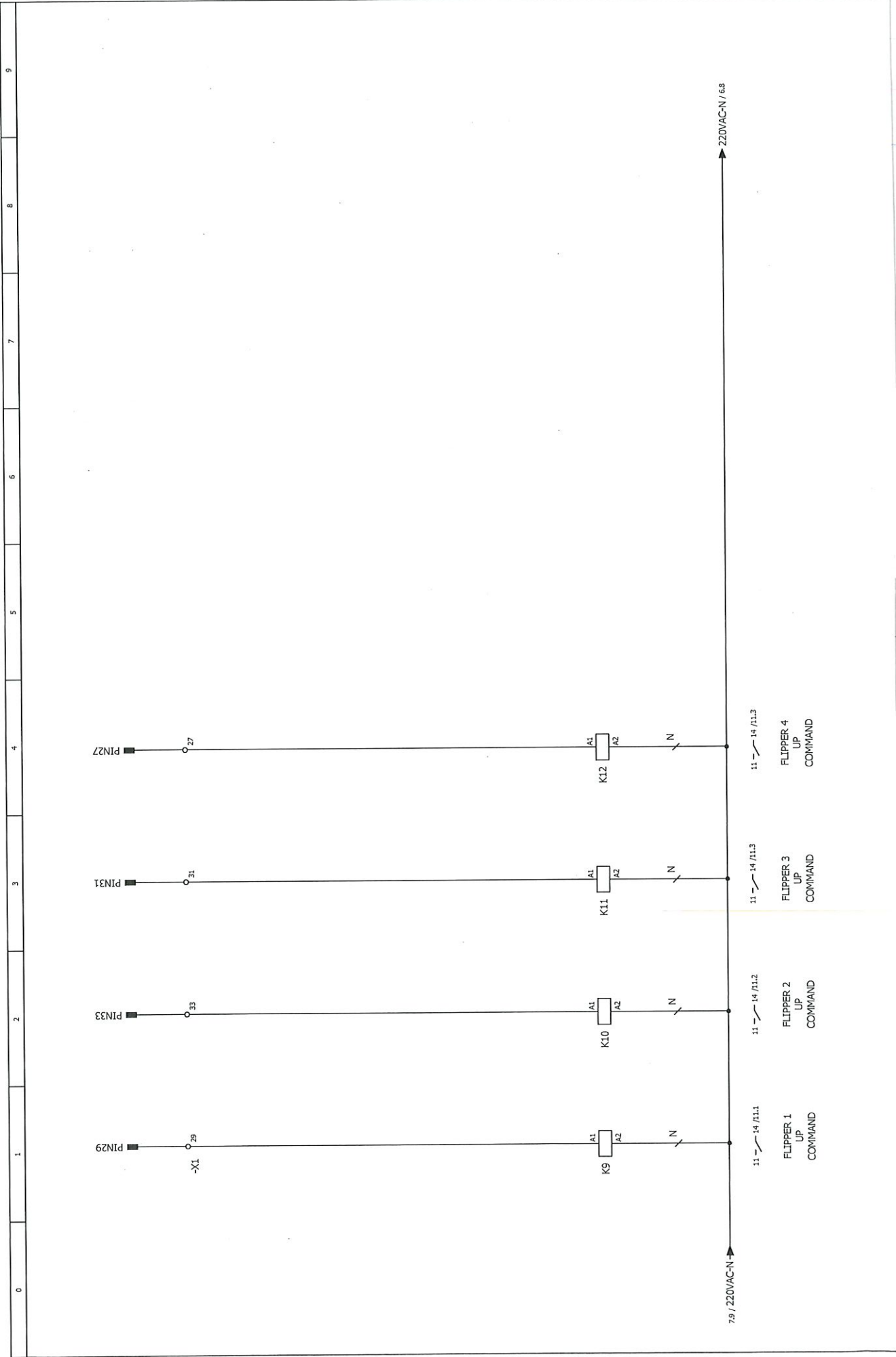
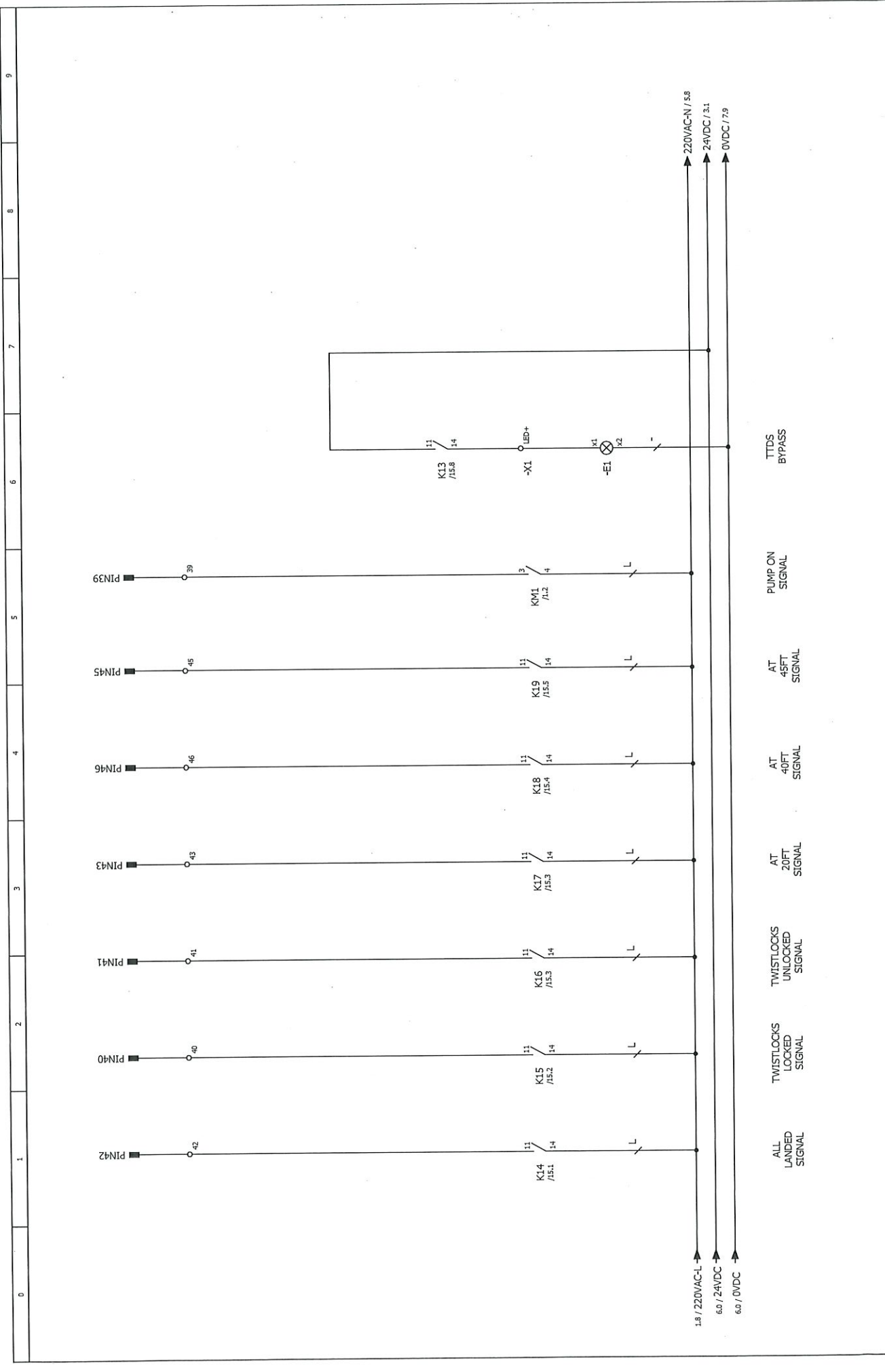
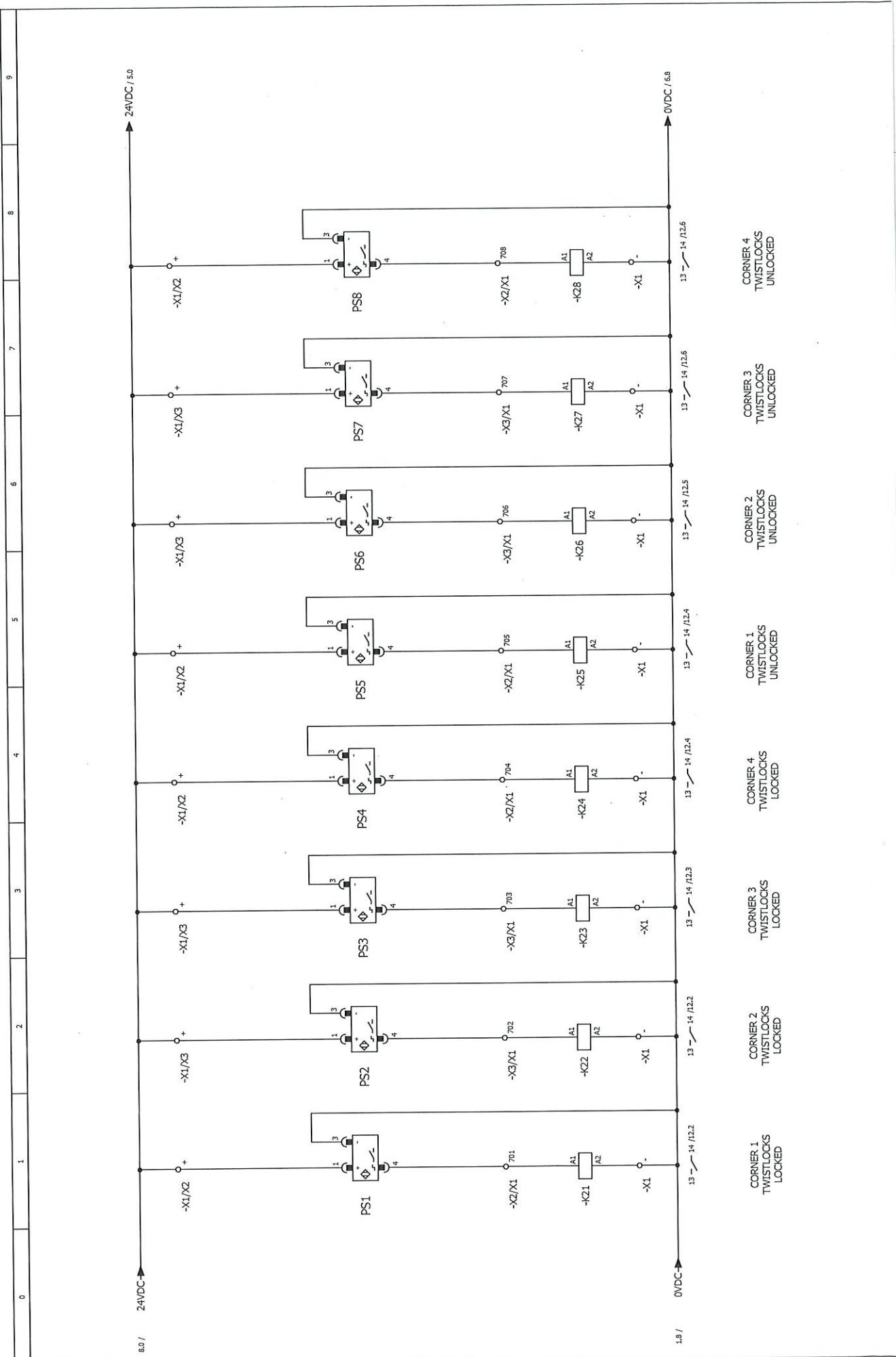
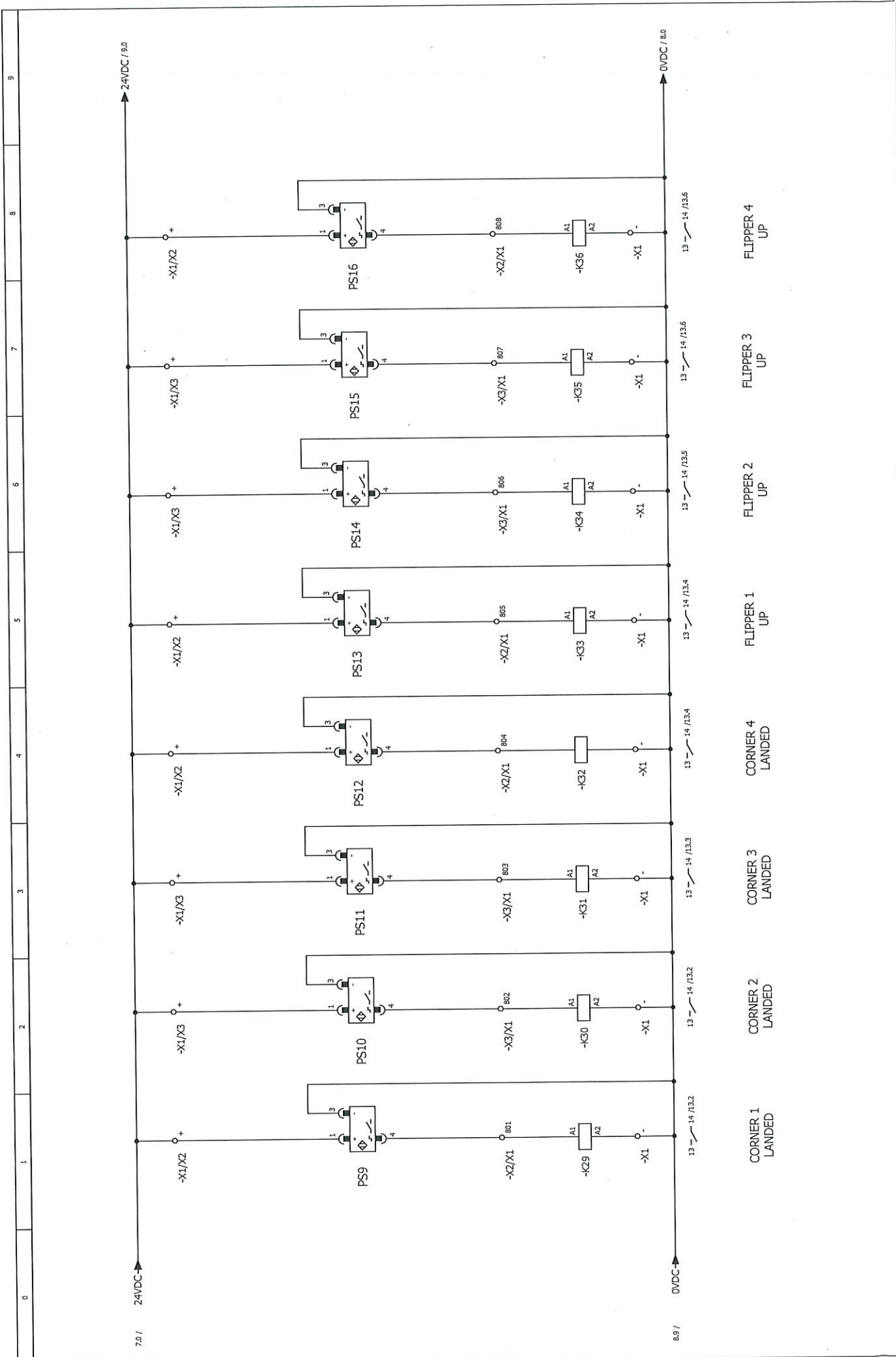


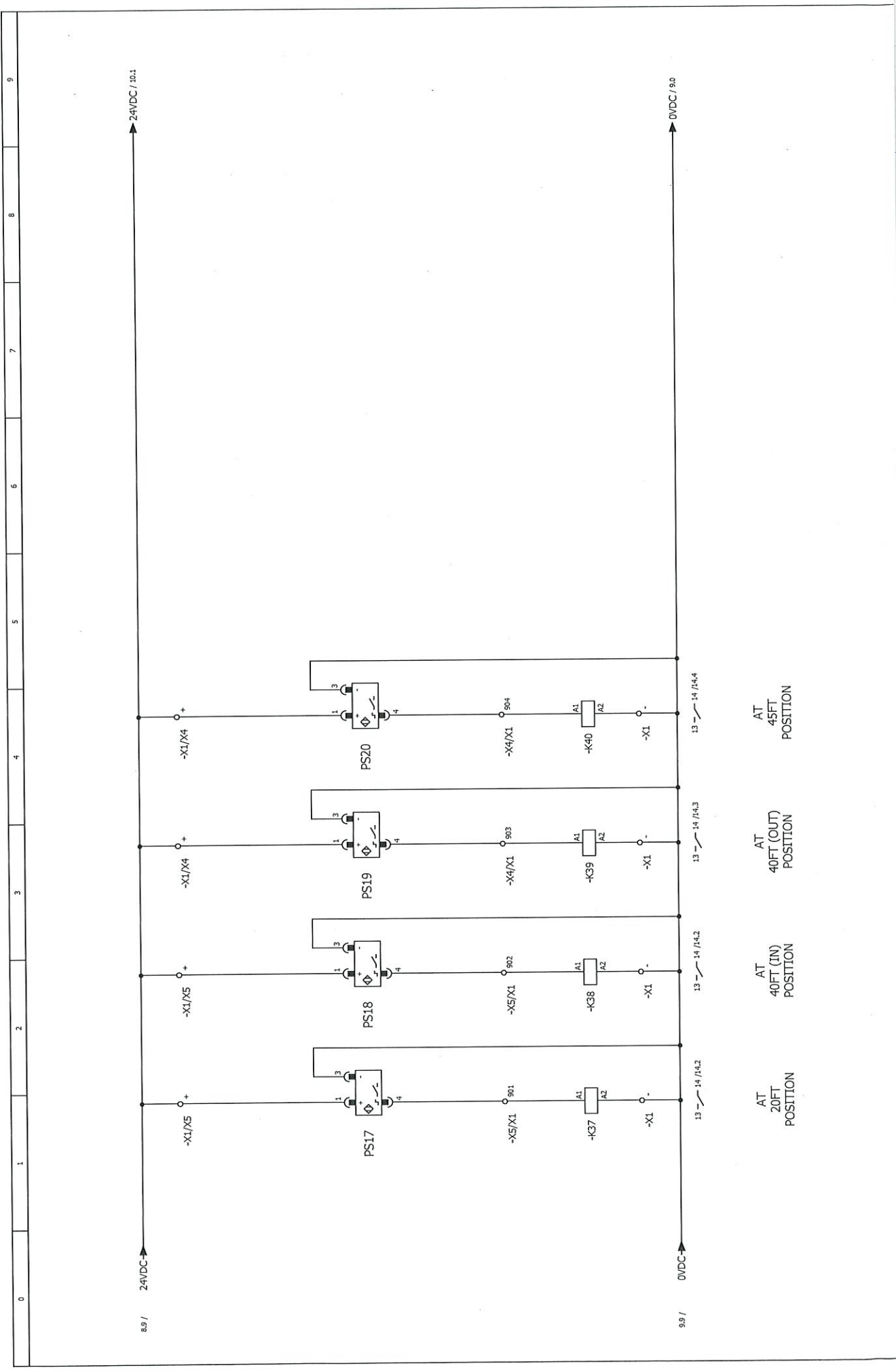
0 1 2 3 4 5 6 7 8 9









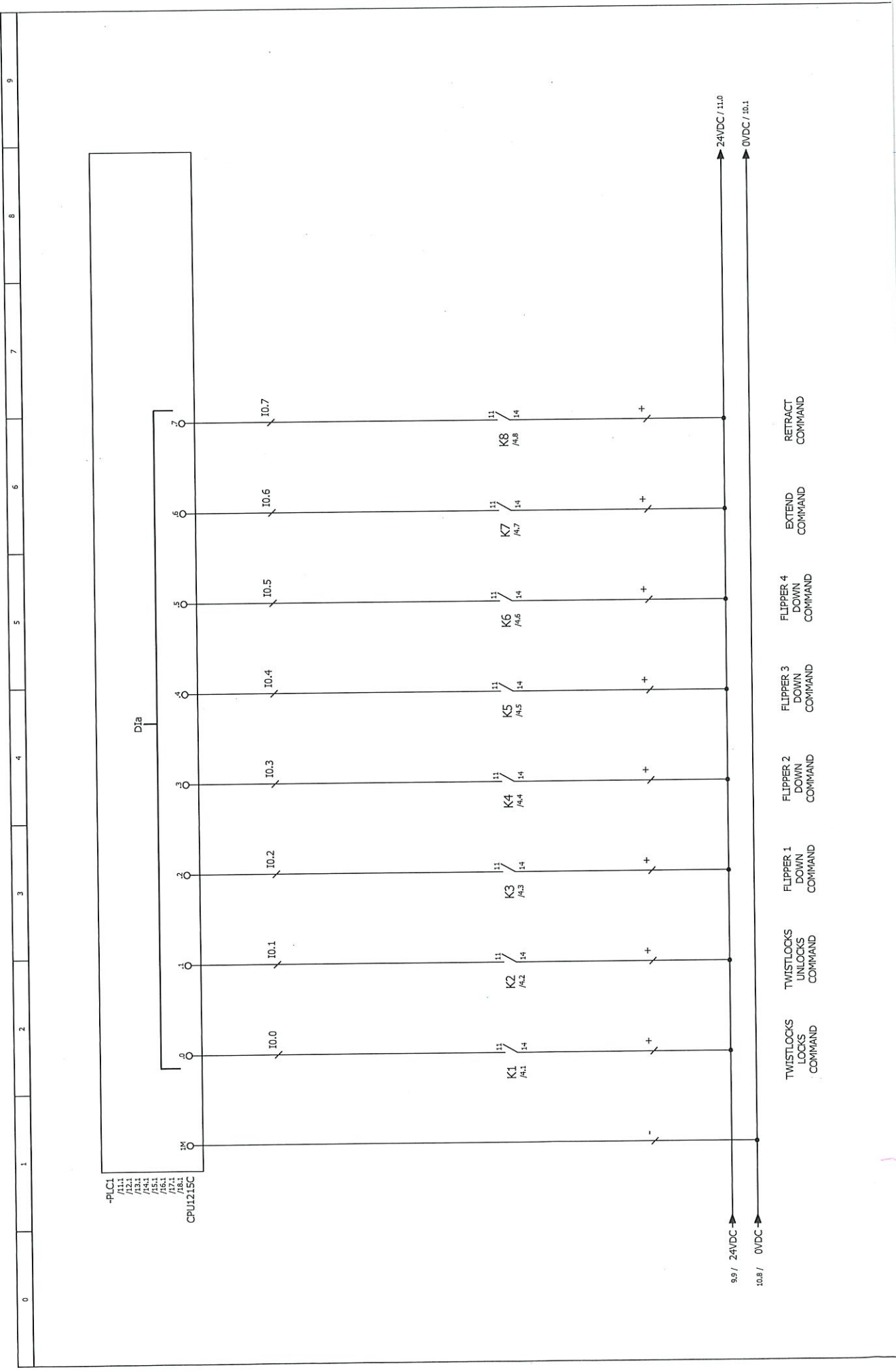


AT 20FT POSITION

AT 40FT (IN) POSITION

AT 40FT (OUT) POSITION

AT 45FT POSITION



PLC1
 /11
 /13.1
 /A4.1
 /15.1
 /17.1
 /18.1
 CPU1215C

D1a

TWISTLOCKS
 LOCKS
 COMMAND

FLIPPER 1
 DOWN
 COMMAND

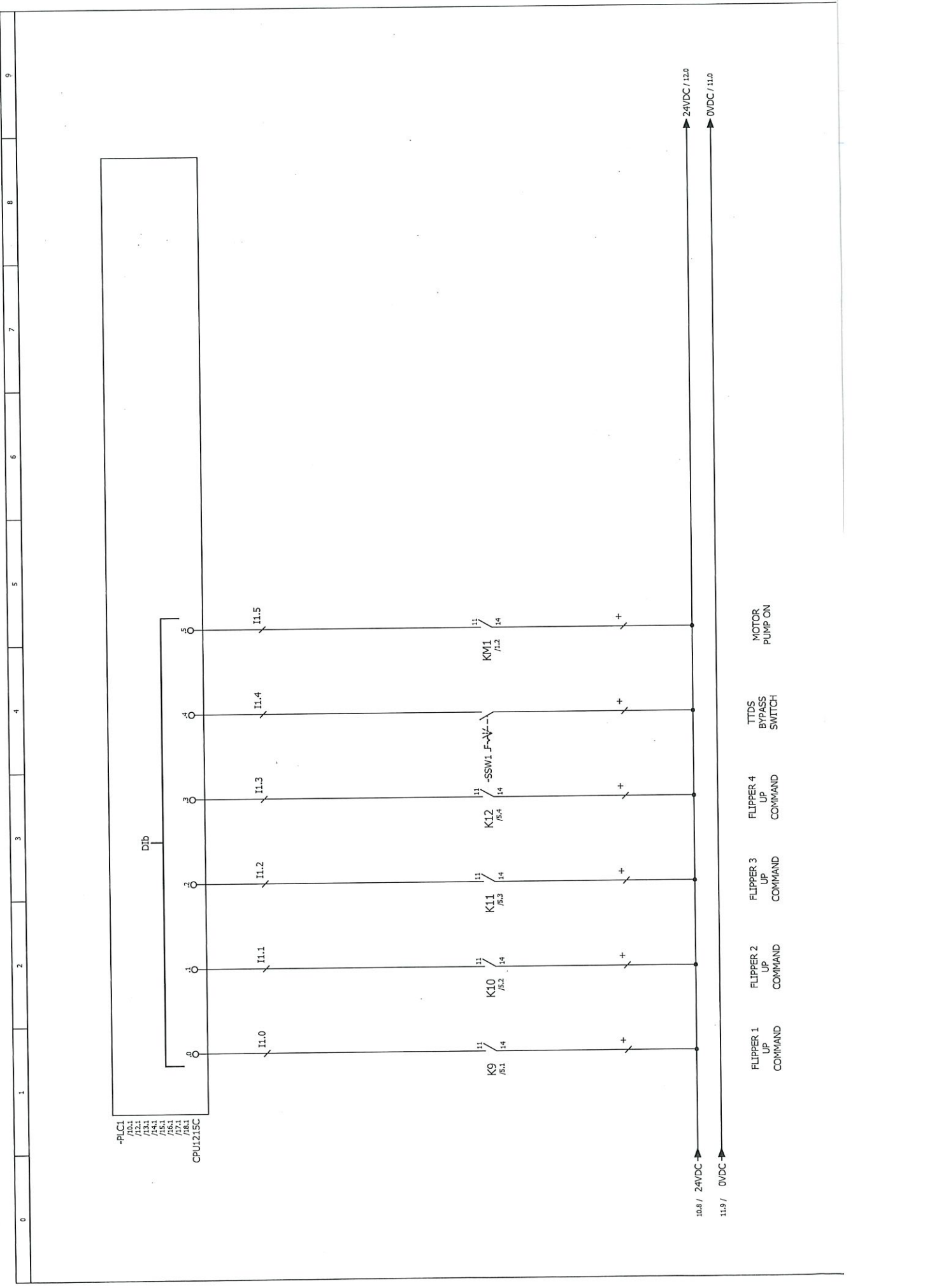
FLIPPER 2
 DOWN
 COMMAND

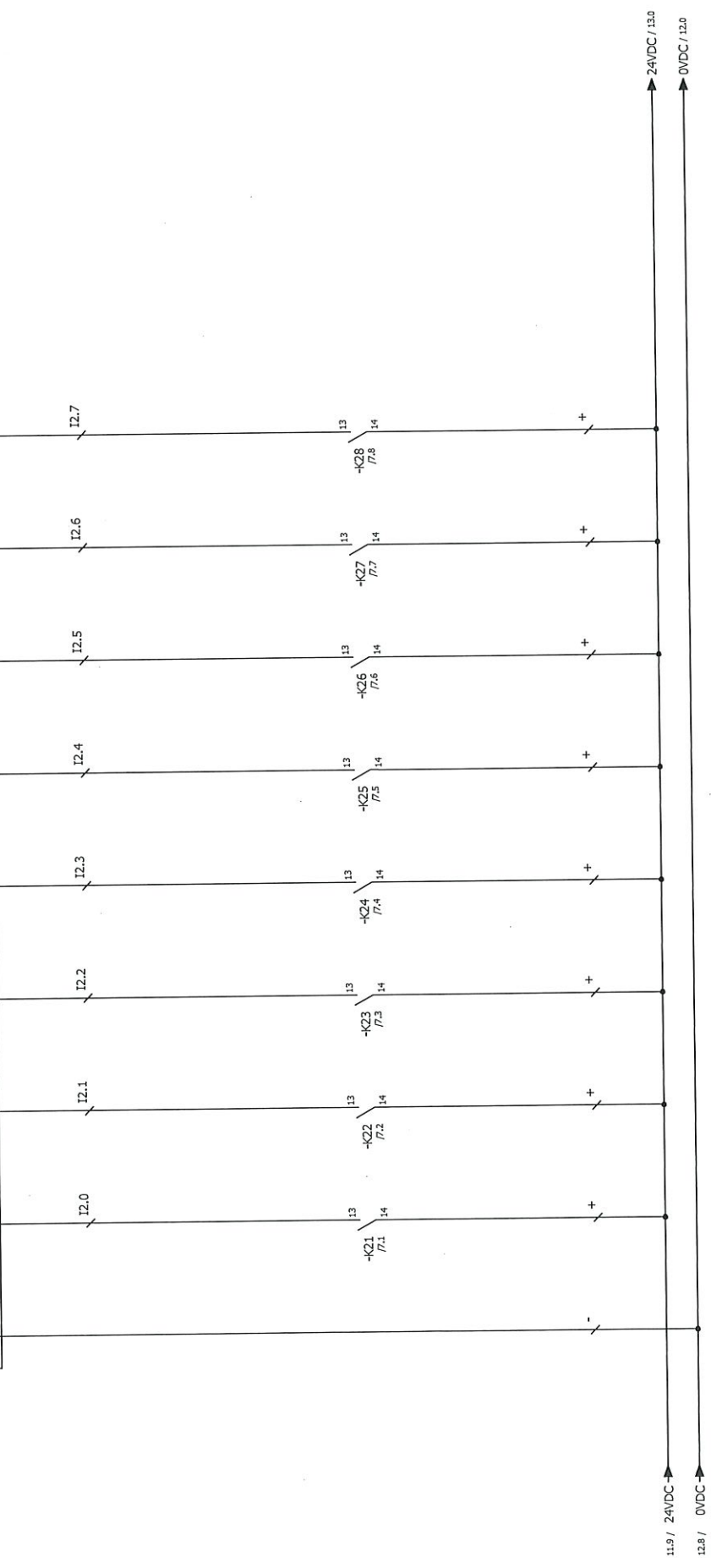
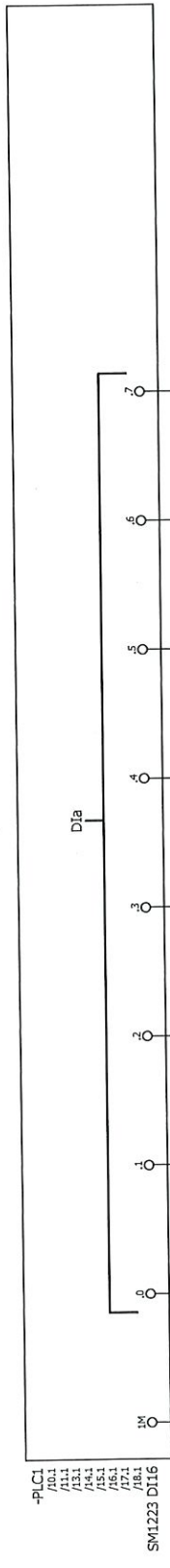
FLIPPER 3
 DOWN
 COMMAND

FLIPPER 4
 DOWN
 COMMAND

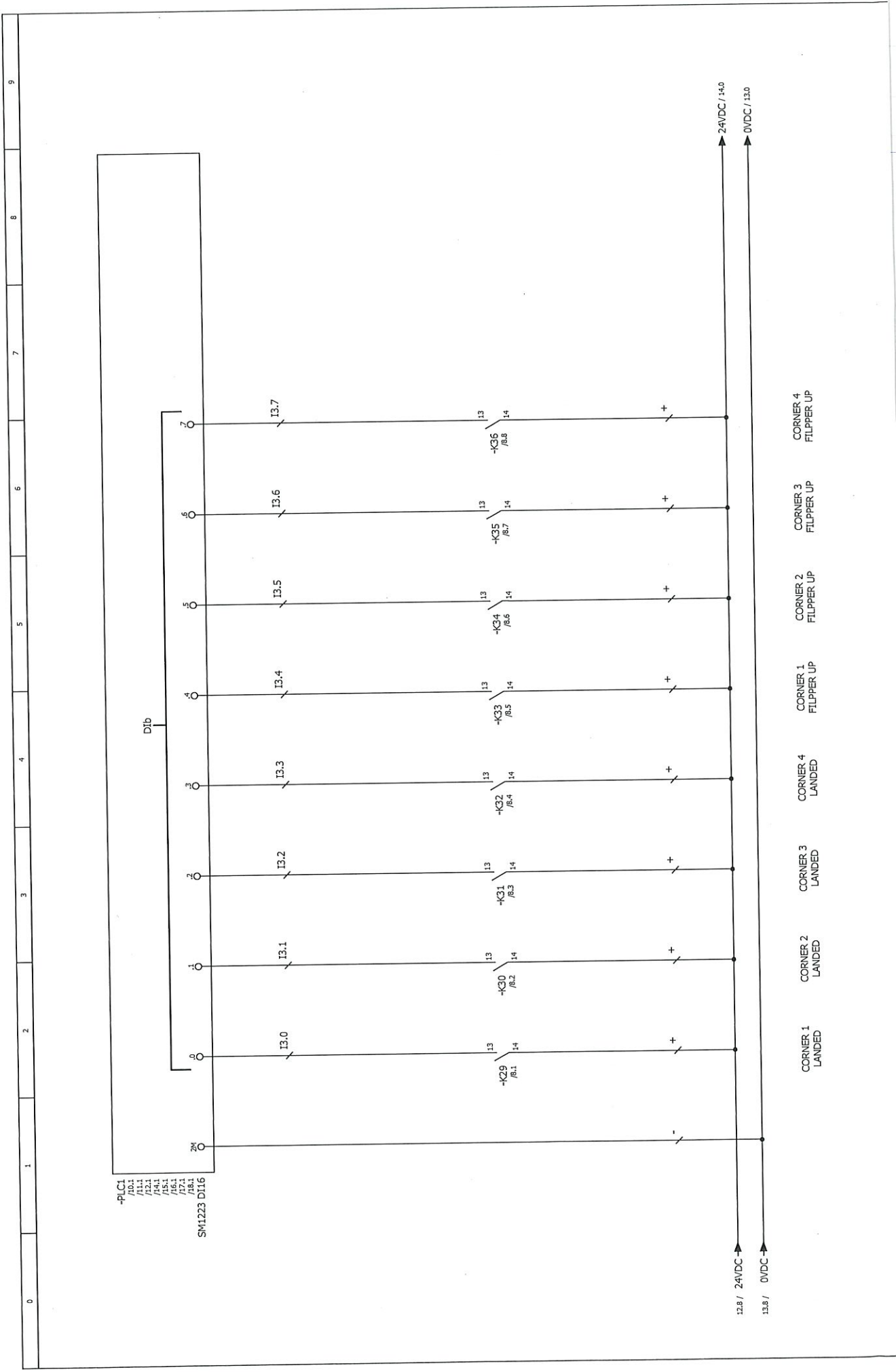
EXTEND
 COMMAND

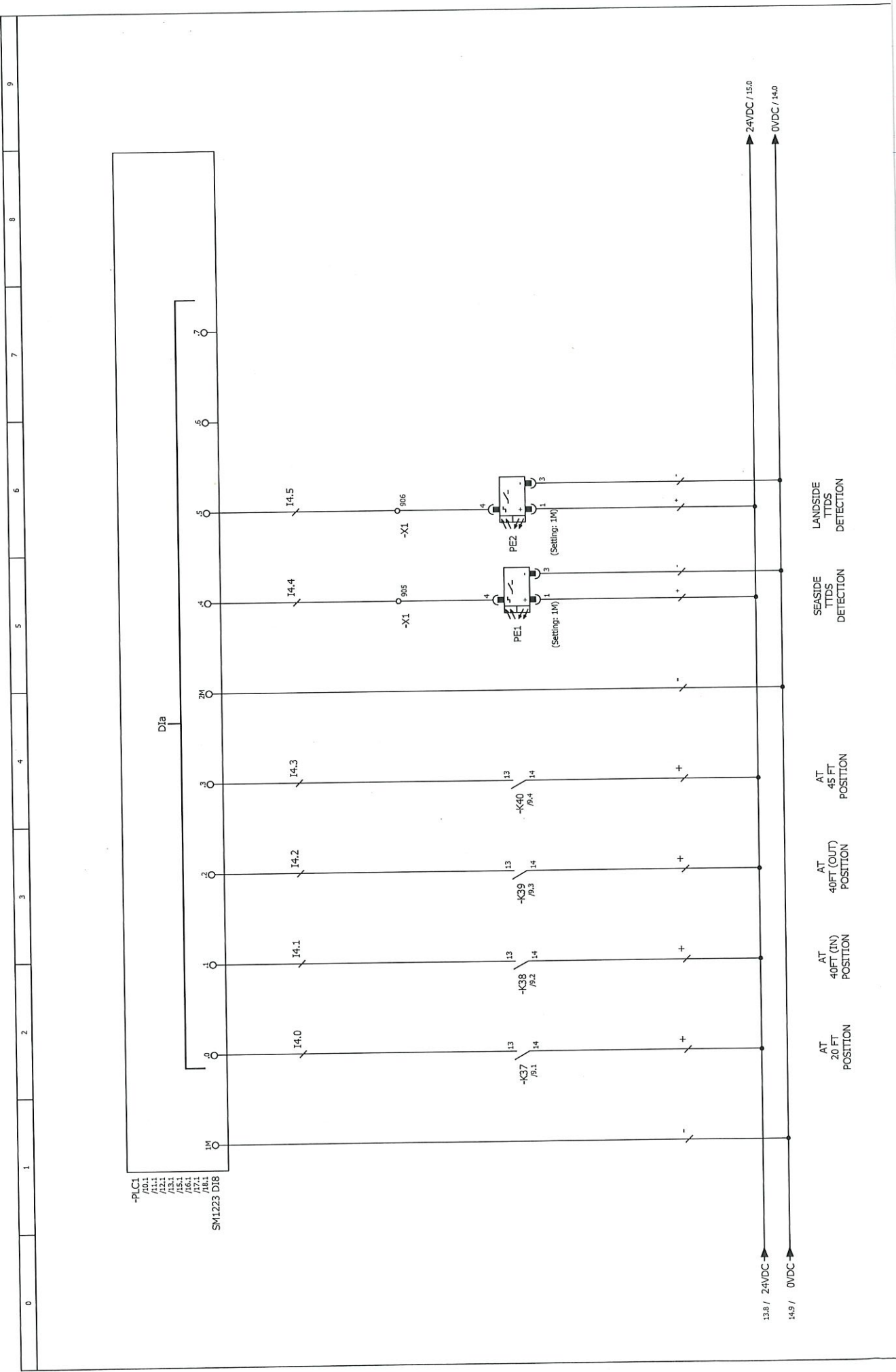
RETRACT
 COMMAND

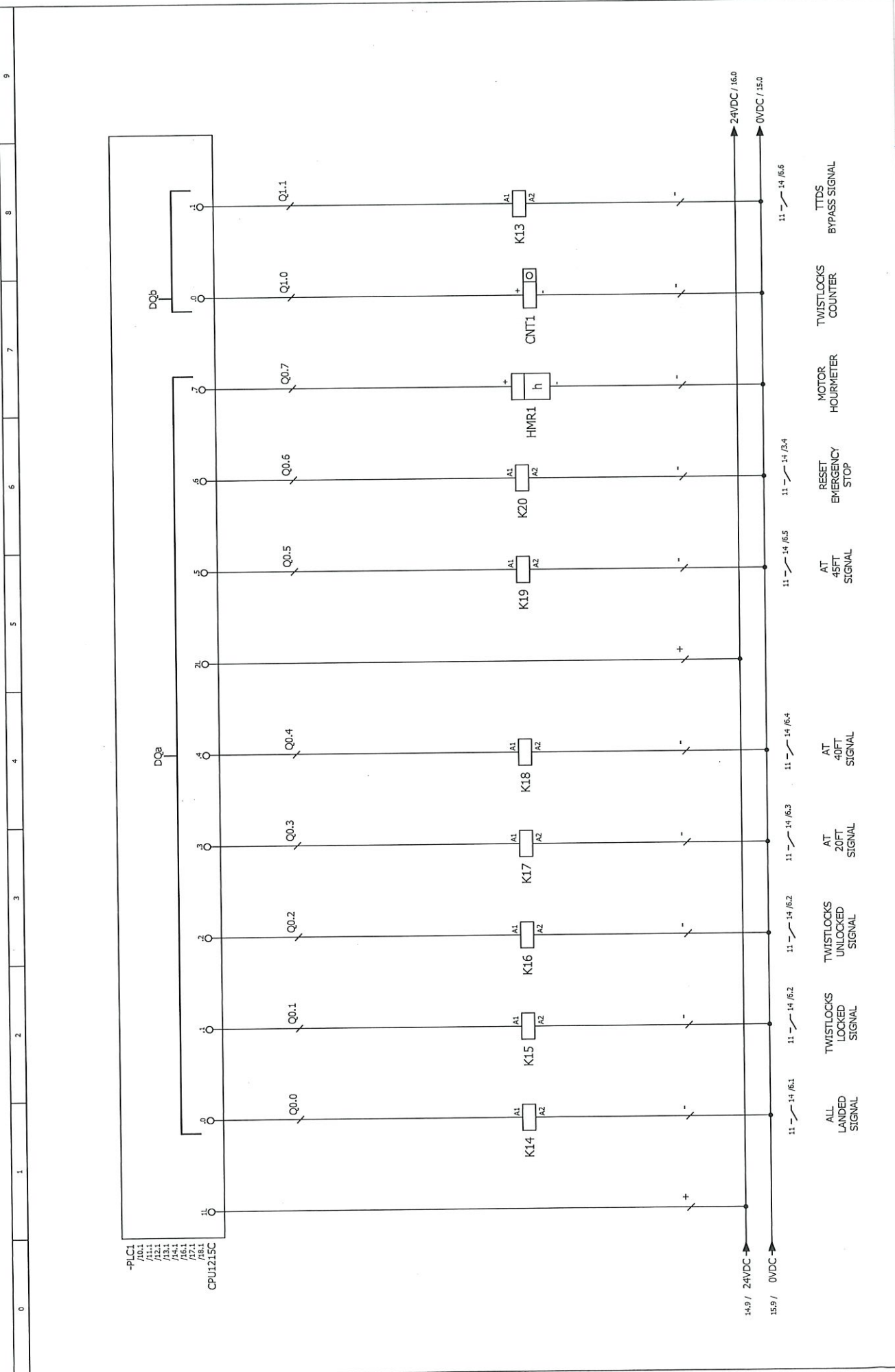


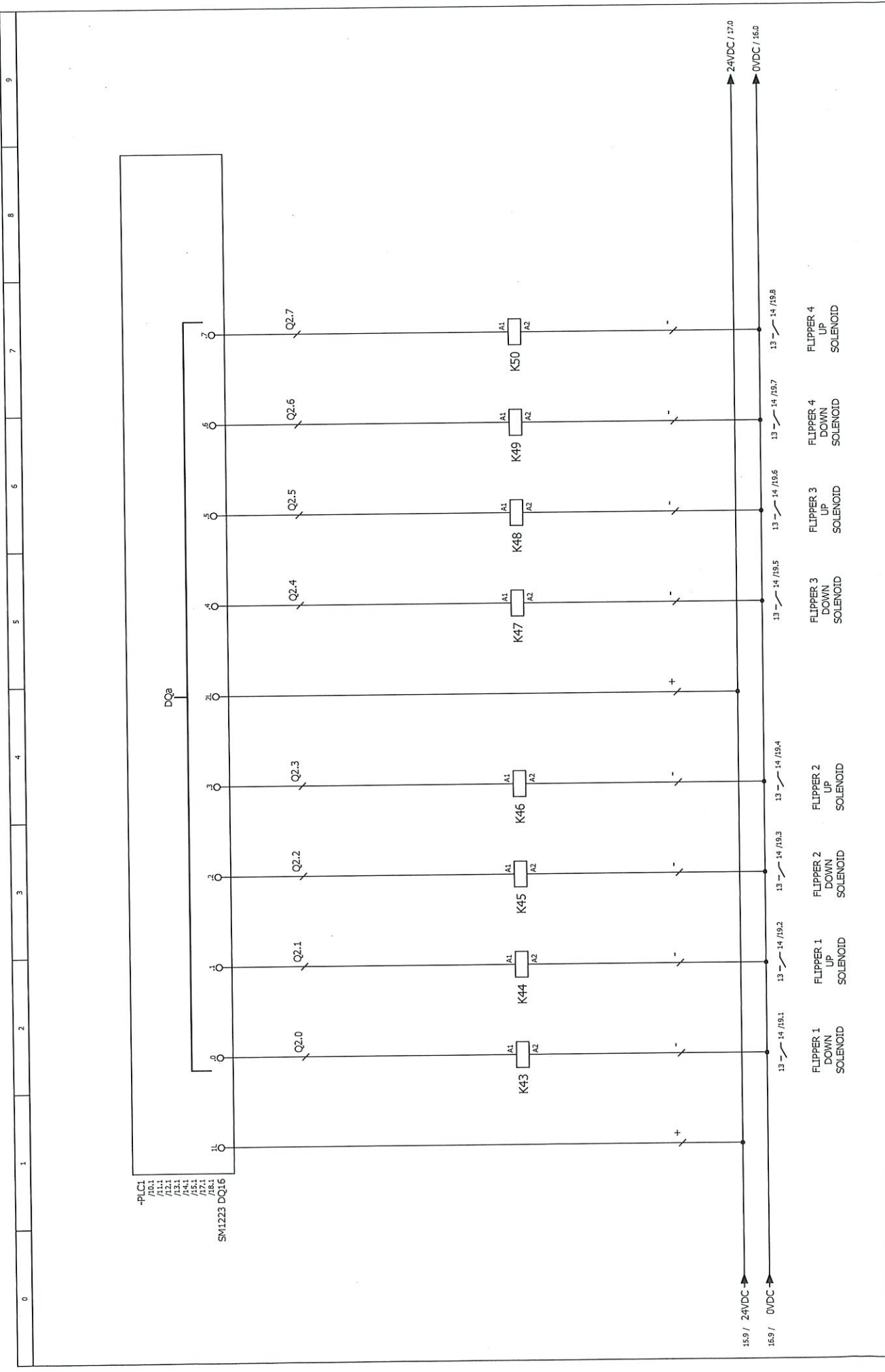


- CORNER 1 TWISTLOCKS LOCKED
- CORNER 2 TWISTLOCKS LOCKED
- CORNER 3 TWISTLOCKS LOCKED
- CORNER 4 TWISTLOCKS LOCKED
- CORNER 1 TWISTLOCKS UNLOCKED
- CORNER 2 TWISTLOCKS UNLOCKED
- CORNER 3 TWISTLOCKS UNLOCKED
- CORNER 4 TWISTLOCKS UNLOCKED







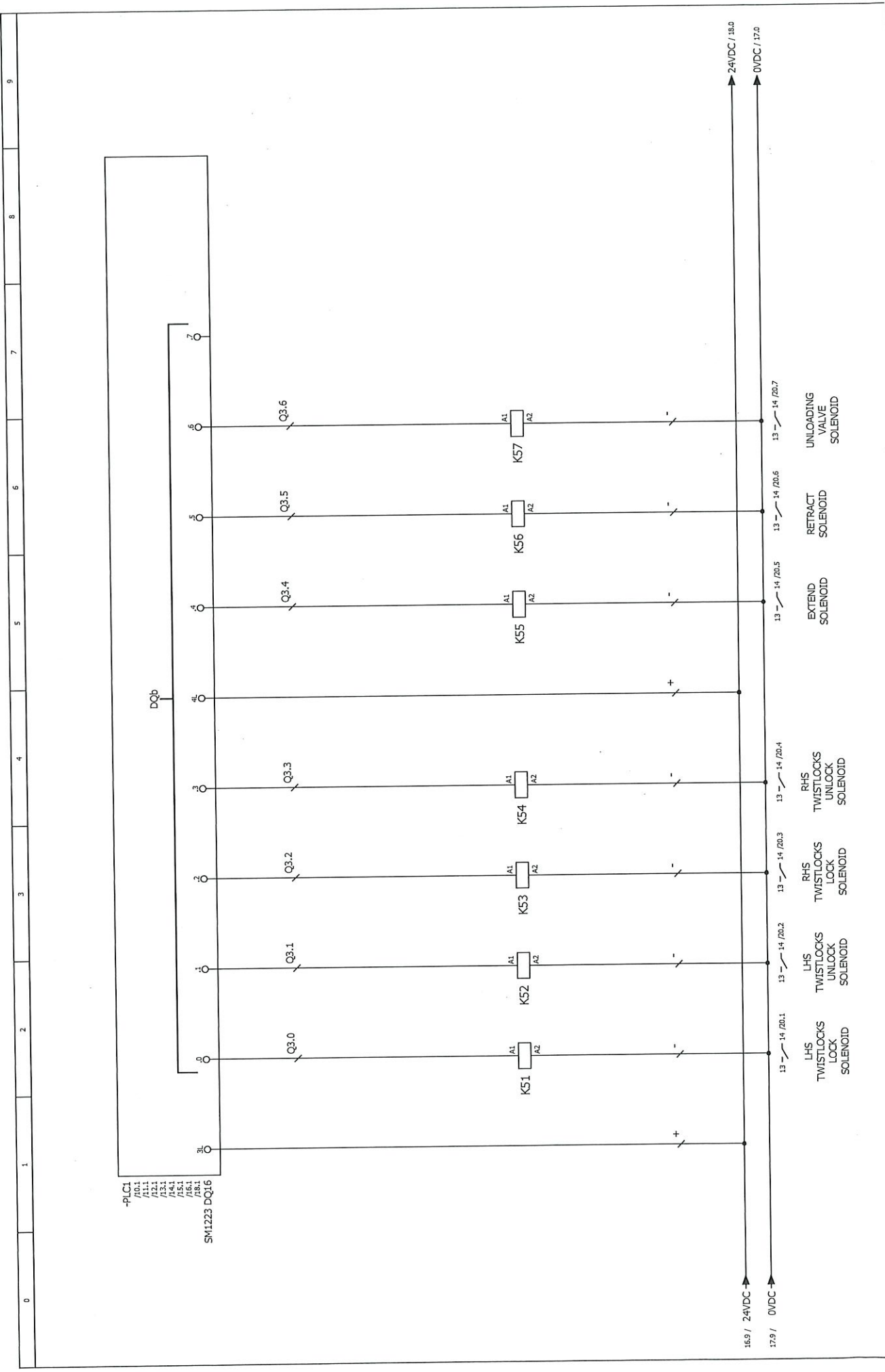


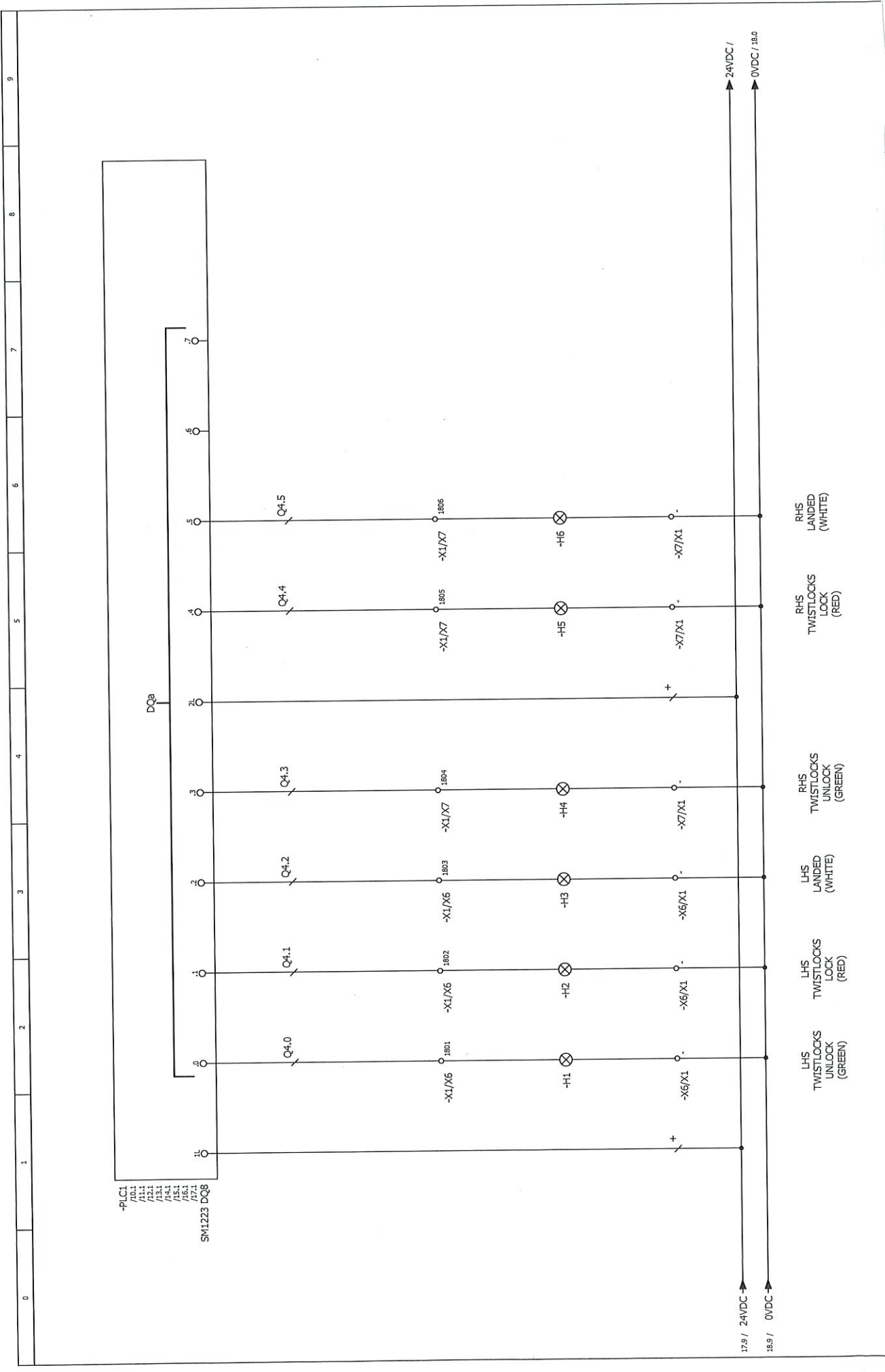
PLC1
 /01.1
 /12.1
 /13.1
 /14.1
 /15.1
 /16.1
 SM1223 DO16

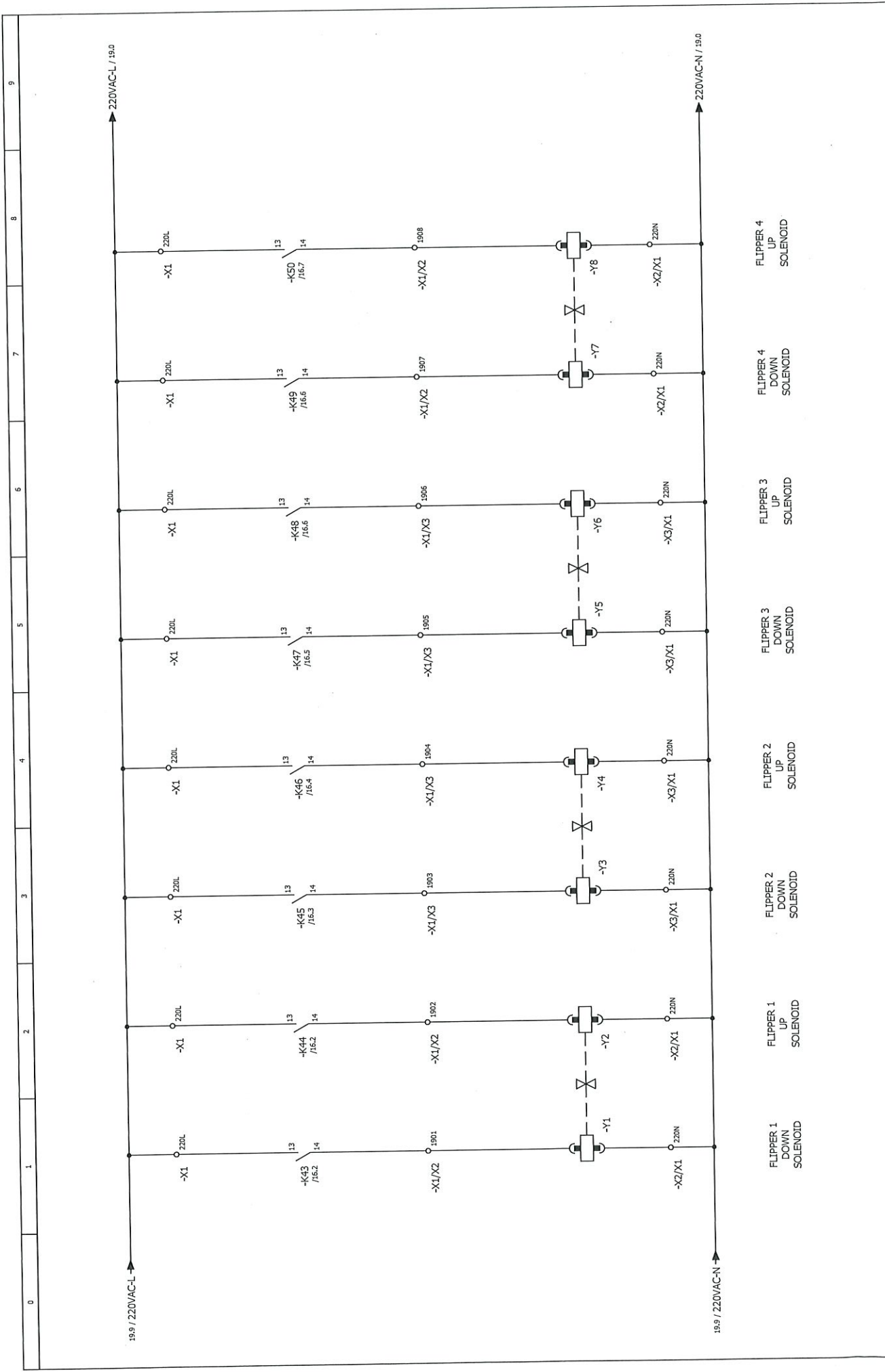
DOa

15.9 / 24VDC
 16.0 / 0VDC
 13 - 14 / 19.1
 13 - 14 / 19.2
 13 - 14 / 19.3
 13 - 14 / 19.4
 13 - 14 / 19.5
 13 - 14 / 19.6
 13 - 14 / 19.7
 13 - 14 / 19.8
 24VDC / 17.0
 0VDC / 16.0

FLIPPER 1 DOWN SOLENOID
 FLIPPER 1 UP SOLENOID
 FLIPPER 2 DOWN SOLENOID
 FLIPPER 2 UP SOLENOID
 FLIPPER 3 DOWN SOLENOID
 FLIPPER 3 UP SOLENOID
 FLIPPER 4 DOWN SOLENOID
 FLIPPER 4 UP SOLENOID



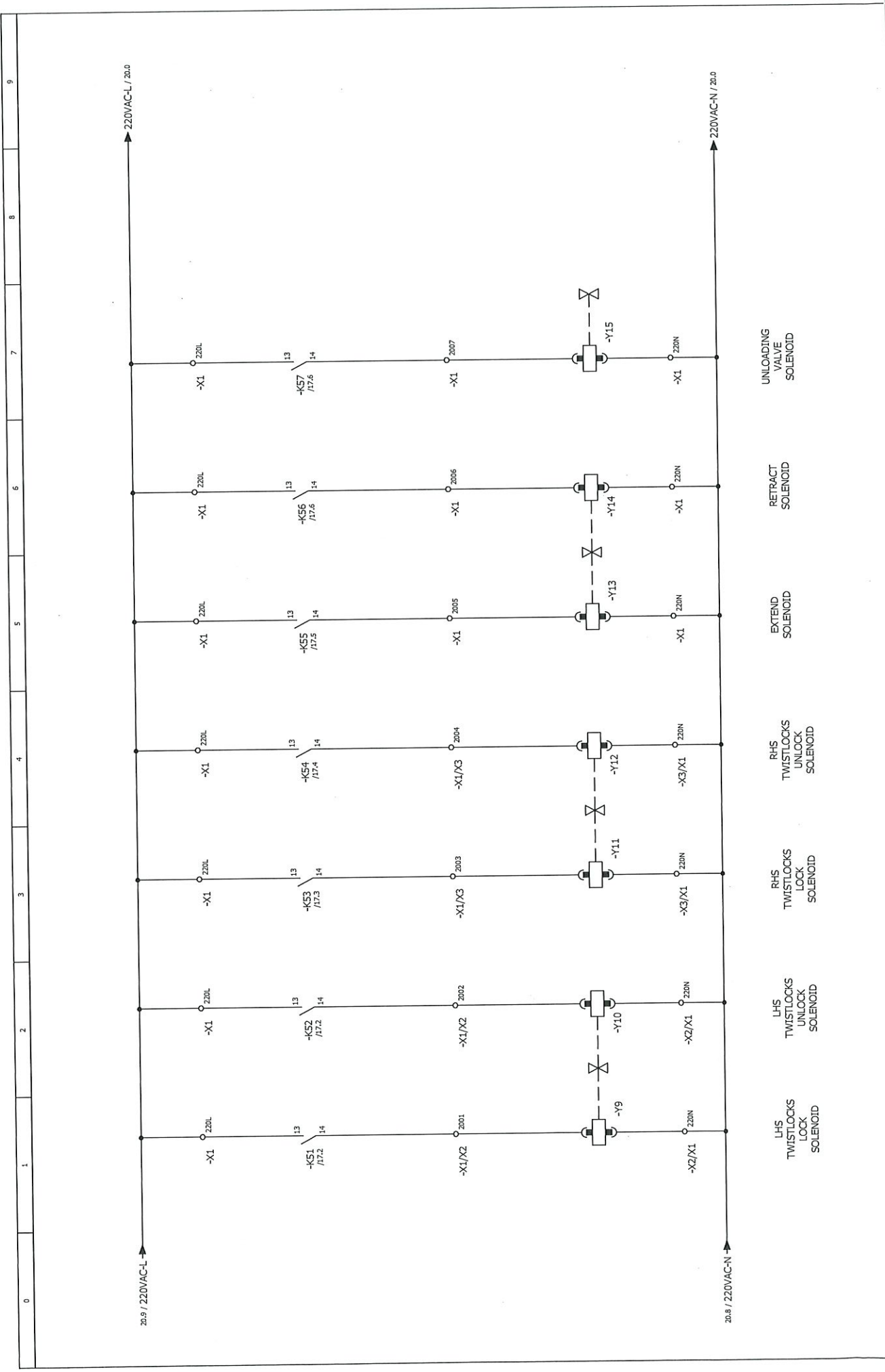




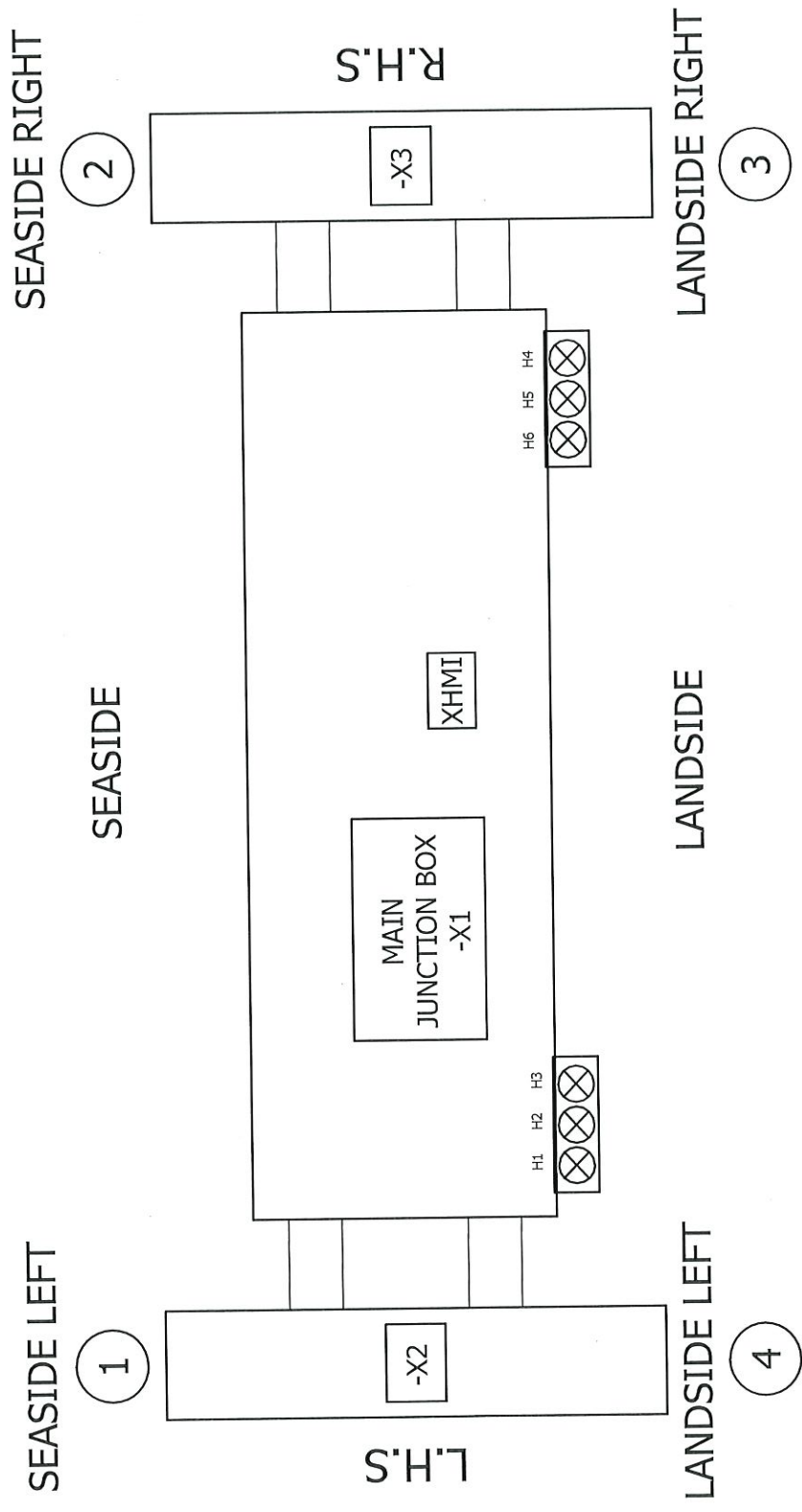
- FLIPPER 1
DOWN
SOLENOID
- FLIPPER 1
UP
SOLENOID
- FLIPPER 2
DOWN
SOLENOID
- FLIPPER 2
UP
SOLENOID
- FLIPPER 3
DOWN
SOLENOID
- FLIPPER 3
UP
SOLENOID
- FLIPPER 4
DOWN
SOLENOID
- FLIPPER 4
UP
SOLENOID

19.9 / 220V AC-L → 220V AC-L / 19.0

19.9 / 220V AC-N → 220V AC-N / 19.0



RAM SPREADER CONVENTION



SEALEFT
CORNER 1

SEARIGHT
CORNER 2

CORNER 3
LANDRIGHT

CORNER 4
LANDLEFT

PS1 CORNER 1 LOCKED
PS5 CORNER 1 UNLOCKED
PS9 CORNER 1 LANDED
PS13 PLIPPER 1 UP

PS2 CORNER 2 LOCKED
PS6 CORNER 2 UNLOCKED
PS10 CORNER 2 LANDED
PS14 PLIPPER 2 UP

PS3 CORNER 3 LOCKED
PS7 CORNER 3 UNLOCKED
PS11 CORNER 3 LANDED
PS15 PLIPPER 3 UP

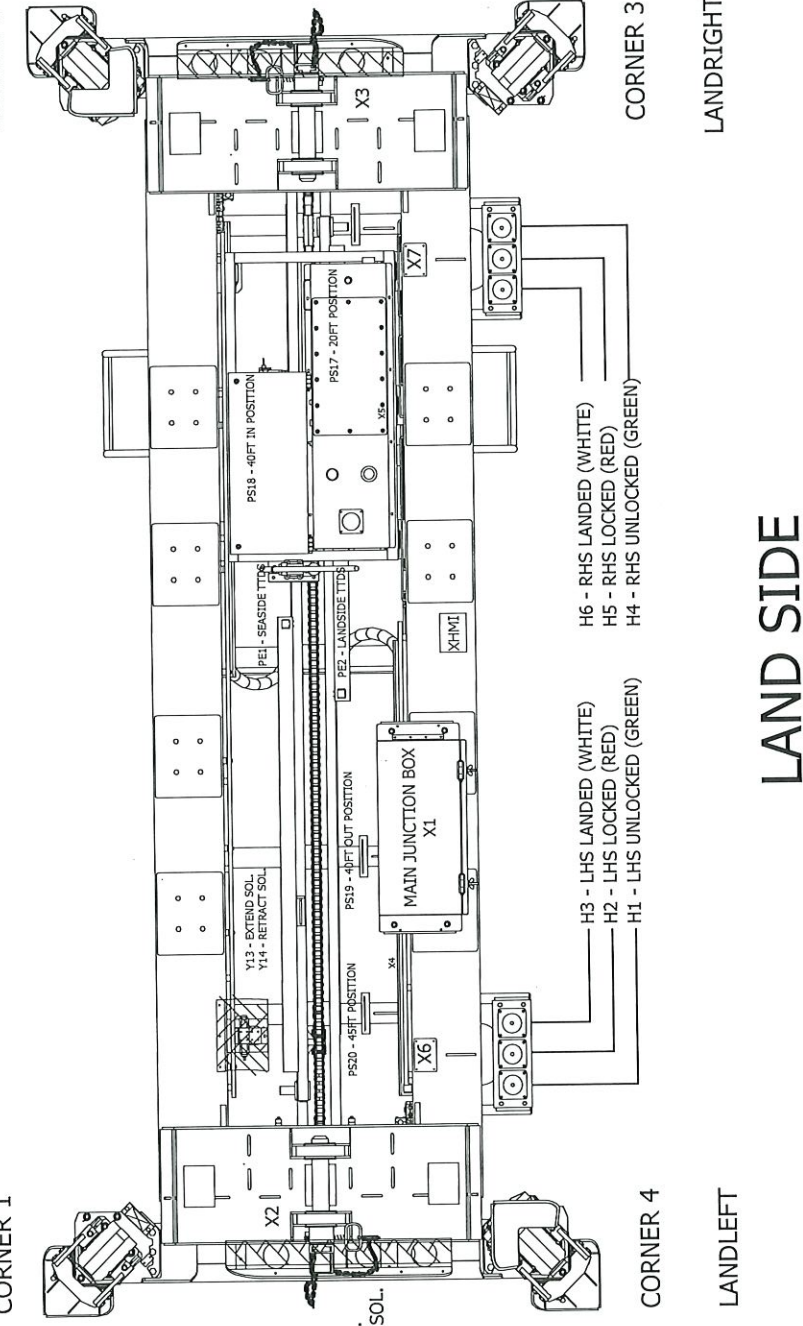
PS4 CORNER 4 LOCKED
PS8 CORNER 4 UNLOCKED
PS12 CORNER 4 LANDED
PS16 PLIPPER 4 UP

Y1 - FLIPPER 1 DOWN SOL.
Y2 - FLIPPER 1 UP SOL.
Y7 - FLIPPER 4 DOWN SOL.
Y8 - FLIPPER 4 UP SOL.
Y9 - LHS TWISTLOCKS LOCK SOL.
Y10 - LHS TWISTLOCKS UNLOCK SOL.

Y3 - FLIPPER 2 DOWN SOL.
Y4 - FLIPPER 2 UP SOL.
Y5 - FLIPPER 3 DOWN SOL.
Y6 - FLIPPER 3 UP SOL.
Y11 - RHS TWISTLOCKS LOCK SOL.
Y12 - RHS TWISTLOCKS UNLOCK SOL.

H6 - RHS LANDED (WHITE)
H5 - RHS LOCKED (RED)
H4 - RHS UNLOCKED (GREEN)

H3 - LHS LANDED (WHITE)
H2 - LHS LOCKED (RED)
H1 - LHS UNLOCKED (GREEN)



PE1 - SEASIDE TTR
PE2 - LANDSIDE TTR
X-HMT

PS18 - 40FT IN POSITION
PS17 - 20FT POSITION
X7

PS19 - 40FT OUT POSITION
PS20 - 40FT POSITION
X6
MAIN JUNCTION BOX X1

Y13 - EXTEND SOL.
Y14 - RETRACT SOL.
X5

PS18 - 40FT IN POSITION
PS17 - 20FT POSITION
X7

PS19 - 40FT OUT POSITION
PS20 - 40FT POSITION
X6
MAIN JUNCTION BOX X1

Y13 - EXTEND SOL.
Y14 - RETRACT SOL.
X5

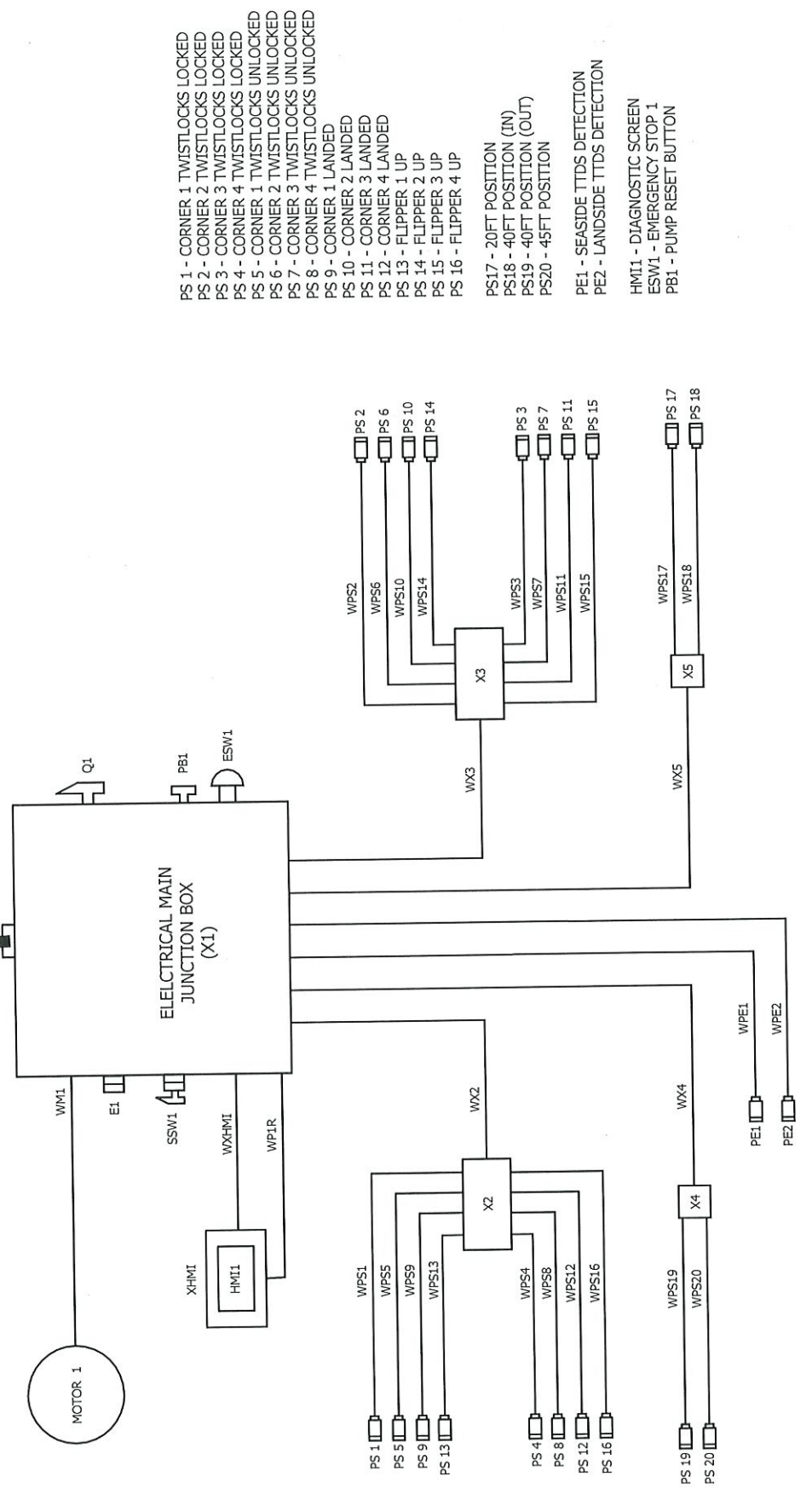
Y13 - EXTEND SOL.
Y14 - RETRACT SOL.
X5

SEA SIDE

LAND SIDE

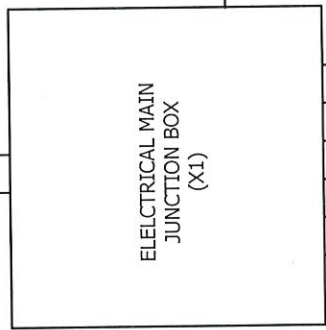
SPREADER PLUG (MALE INSERT)
 BRAND:ILME
 P/NO:CHO 48 L42
 CNM 24
 CNM 24N

SPREADER CABLE: 56 Cx 2.5mm²

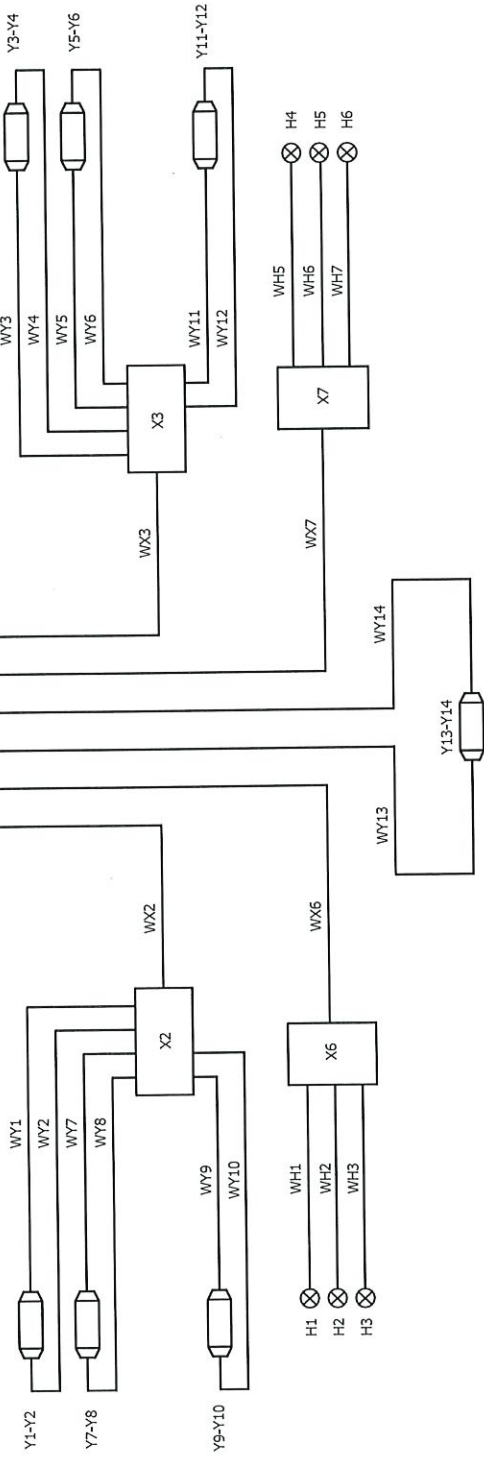


- PS 1 - CORNER 1 TWISTLOCKS LOCKED
- PS 2 - CORNER 2 TWISTLOCKS LOCKED
- PS 3 - CORNER 3 TWISTLOCKS LOCKED
- PS 4 - CORNER 4 TWISTLOCKS LOCKED
- PS 5 - CORNER 1 TWISTLOCKS UNLOCKED
- PS 6 - CORNER 2 TWISTLOCKS UNLOCKED
- PS 7 - CORNER 3 TWISTLOCKS UNLOCKED
- PS 8 - CORNER 4 TWISTLOCKS UNLOCKED
- PS 9 - CORNER 1 LANDED
- PS 10 - CORNER 2 LANDED
- PS 11 - CORNER 3 LANDED
- PS 12 - CORNER 4 LANDED
- PS 13 - FLIPPER 1 UP
- PS 14 - FLIPPER 2 UP
- PS 15 - FLIPPER 3 UP
- PS 16 - FLIPPER 4 UP
- PS 17 - 20FT POSITION
- PS 18 - 40FT POSITION (IN)
- PS 19 - 40FT POSITION (OUT)
- PS 20 - 45FT POSITION
- PE1 - SEASIDE TTDS DETECTION
- PE2 - LANDSIDE TTDS DETECTION
- HM11 - DIAGNOSTIC SCREEN
- ESW1 - EMERGENCY STOP 1
- PB1 - PUMP RESET BUTTON

SPREADER PLUG (MALE INSERT)
 BRAND:ILME
 P/NO:CHO 48 L42
 CNM 24
 CNM 24N



- Y1 - FLIPPER 1 DOWN SOL.
- Y2 - FLIPPER 1 UP SOL.
- Y3 - FLIPPER 2 DOWN SOL.
- Y4 - FLIPPER 2 UP SOL.
- Y5 - FLIPPER 3 DOWN SOL.
- Y6 - FLIPPER 3 UP SOL.
- Y7 - FLIPPER 4 DOWN SOL.
- Y8 - FLIPPER 4 UP SOL.
- Y9 - LHS TWISTLOCKS LOCK SOL.
- Y10 - LHS TWISTLOCKS UNLOCK SOL.
- Y11 - RHS TWISTLOCKS LOCK SOL.
- Y12 - RHS TWISTLOCKS UNLOCK SOL.
- Y13 - EXTEND SOL.
- Y14 - RETRACT SOL.
- Y15 - UNLOADING VALVE SOL.



- H1_GREEN - LHS TWISTLOCKS UNLOCK
- H2_RED - LHS TWISTLOCKS LOCK
- H3_WHITE - LHS LANDED
- H4_GREEN - RHS TWISTLOCKS UNLOCK
- H5_RED - RHS TWISTLOCKS LOCK
- H6_WHITE - RHS LANDED

ABBREVIATION	CABLE DESCRIPTION	CABLE GLAND
WSC	56G x 2.5MM SQ.	2E09-00219 (CABLE O.D. 40MM)

WM1	4G x 4MM SQ.	2E09-00210 (CABLE O.D. 12MM)
	MOTOR SIDE	2E09-00228 (CABLE O.D. 12MM)

WX2	24G x 2.5MM SQ.	2E09-00217 (CABLE O.D. 25MM)
WX3		

WX4	7G x 1.5MM SQ.	2E09-00211 (CABLE O.D. 12MM)
WX5		
WX6		
WX7		

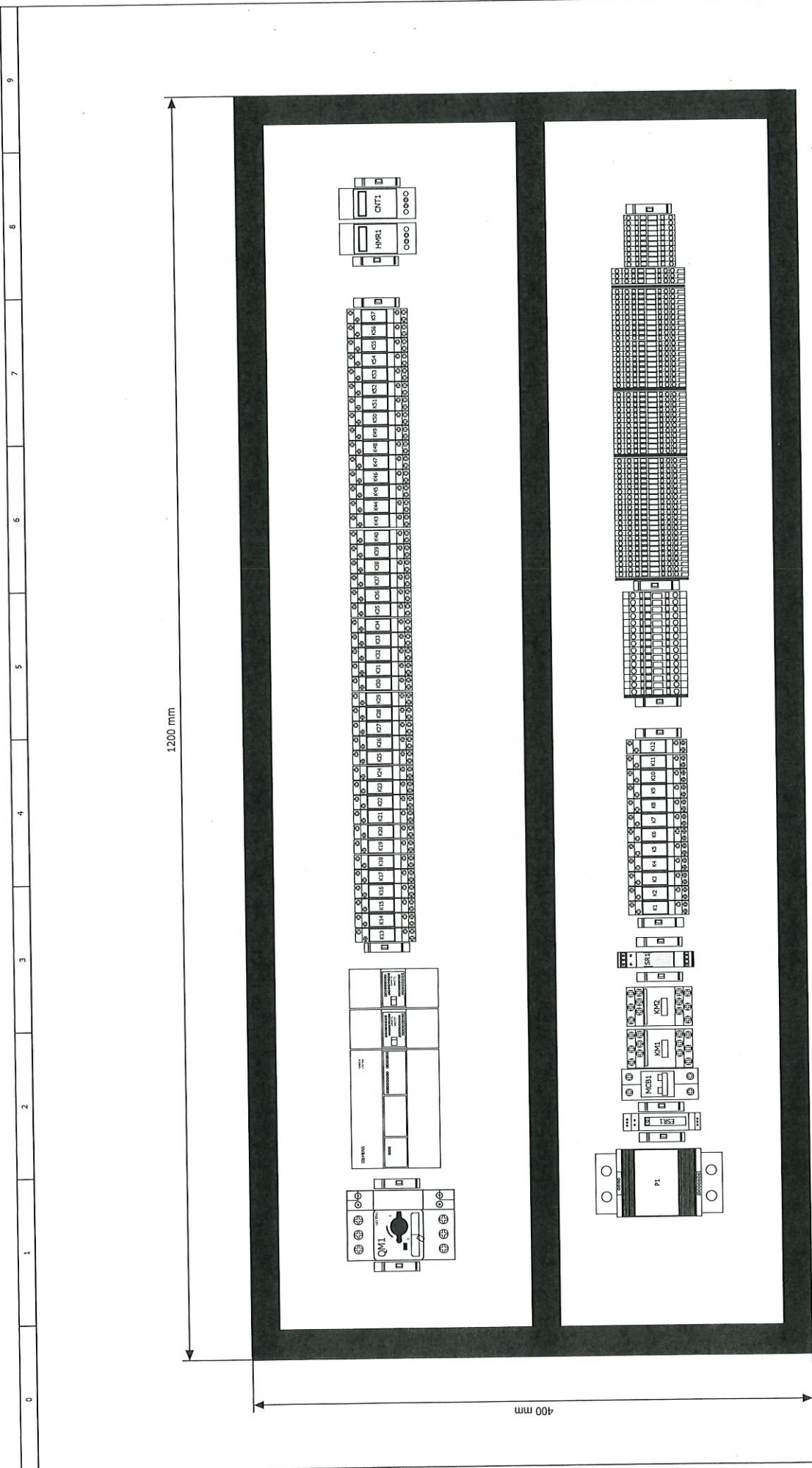
WHMI	4G x 1.5MM SQ.	2E09-00210 (CABLE O.D. 9MM)
WP1R	Ethernet RJ45	2E09-00208

SENSOR CABLE (WPS1 - WPS16) (WH1 - WH6)	MURR 7000-12381-6330300	2E09-00207
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SENSOR CABLE (WPS17 - WPS20) (WPE1-WPEZ)	MURR 7000-12381-6330500	2E09-00207
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VALVE CABLE (Y1 - Y12)	MURR 7000-18021-6360200	2E09-00208
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VALVE CABLE (Y13 - Y15)	MURR 7000-18021-6360500	2E09-00208
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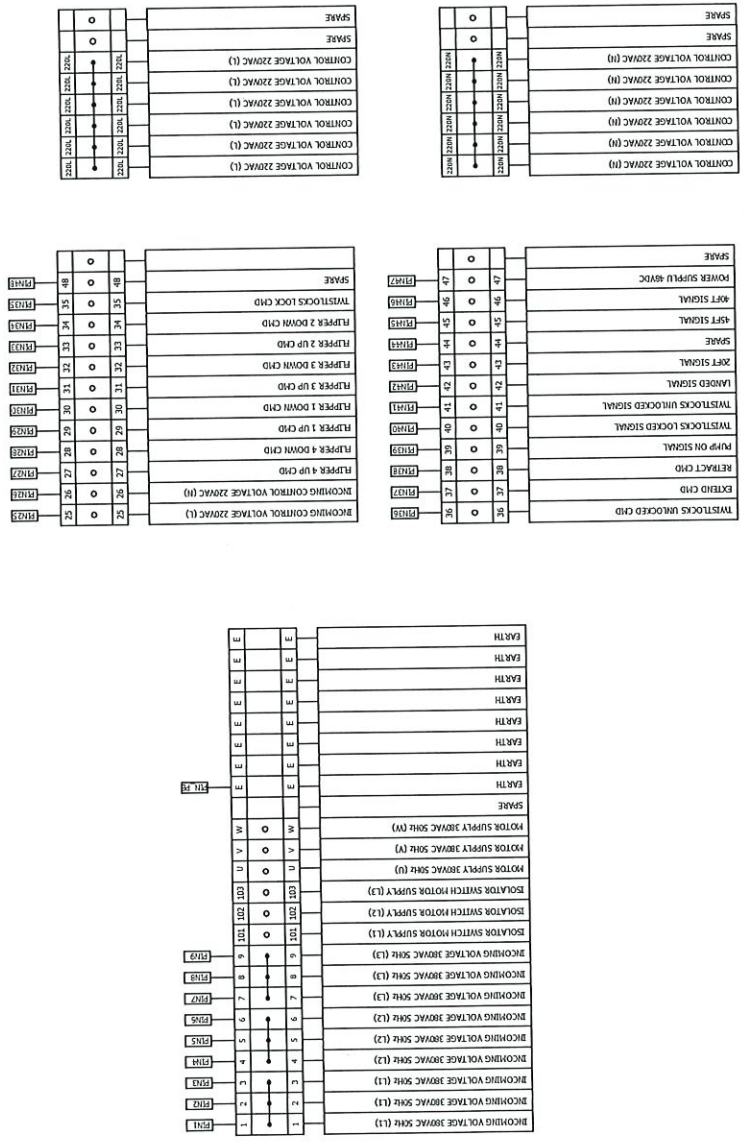


1200 mm

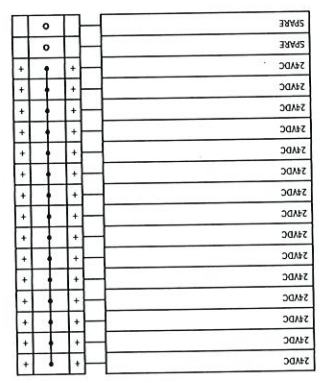
400 mm

0 1 2 3 4 5 6 7 8 9

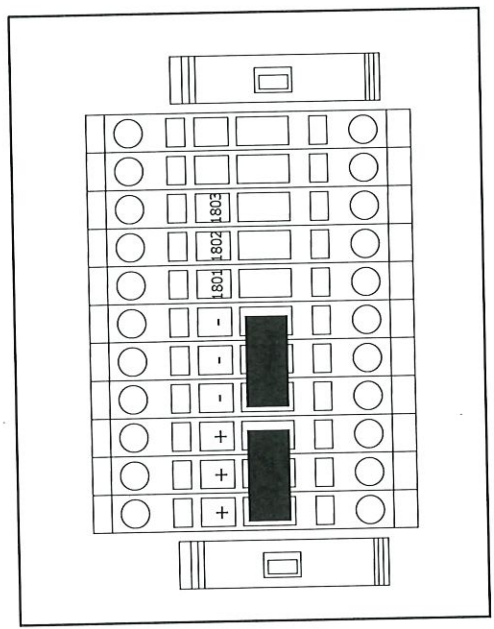
MAIN JUNCTION BOX TERMINATION DIAGRAM (X1)



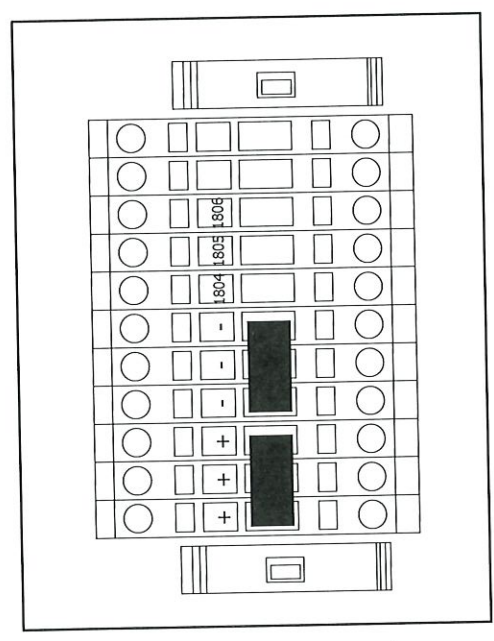
MAIN JUNCTION BOX TERMINATION DIAGRAM (X1)



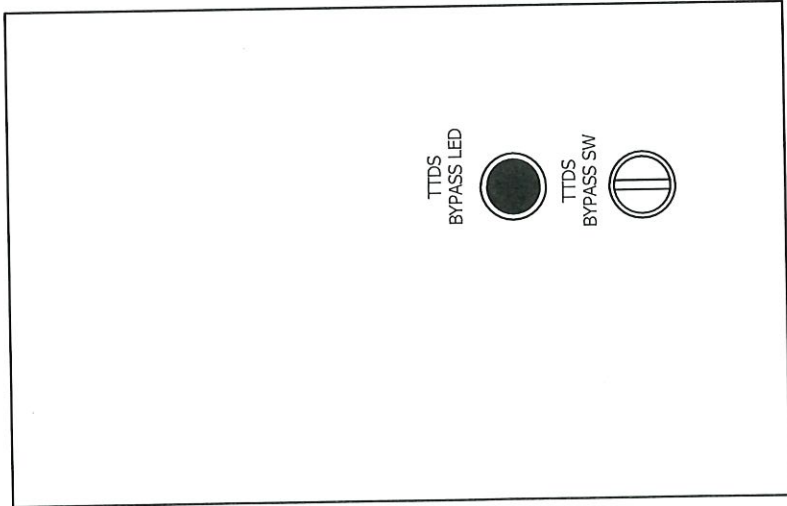
JUNCTION BOX (X6) TERMINATION DIAGRAM



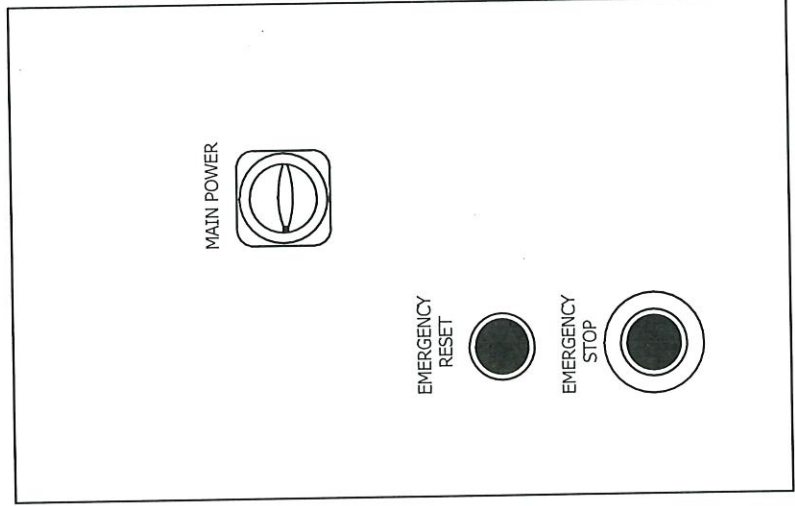
JUNCTION BOX (X7) TERMINATION DIAGRAM



MAIN JUNCTION BOX LEFT SIDE



MAIN JUNCTION BOX RIGHT SIDE



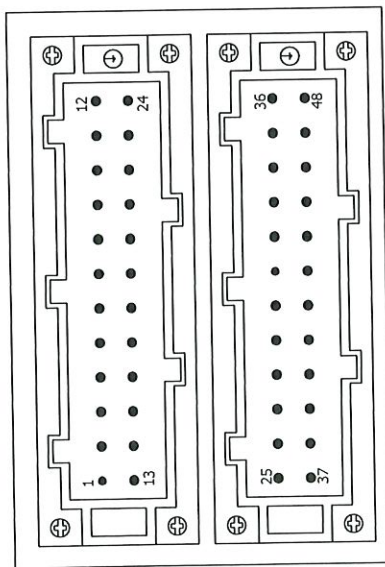
PIN NO CONFIGURATION

PIN #	DESCRIPTION
1	MOTOR SUPPLY L1 (380VAC 50HZ)
2	MOTOR SUPPLY L1 (380VAC 50HZ)
3	MOTOR SUPPLY L1 (380VAC 50HZ)
4	MOTOR SUPPLY L2 (380VAC 50HZ)
5	MOTOR SUPPLY L2 (380VAC 50HZ)
6	MOTOR SUPPLY L2 (380VAC 50HZ)
7	MOTOR SUPPLY L3 (380VAC 50HZ)
8	MOTOR SUPPLY L3 (380VAC 50HZ)
9	MOTOR SUPPLY L3 (380VAC 50HZ)
10	SPARE
11	SPARE
12	SPARE
13	SPARE
14	SPARE
15	SPARE
16	SPARE
17	SPARE
18	SPARE
19	SPARE
20	SPARE
21	SPARE
22	SPARE
23	SPARE
24	SPARE
25	CONTROL VOLTAGE 220VAC-L
26	CONTROL VOLTAGE 220VAC-N
27	FLIPPER 4 UP CMD
28	FLIPPER 4 DOWN CMD
29	FLIPPER 1 UP CMD
30	FLIPPER 1 DOWN CMD
31	FLIPPER 3 UP CMD
32	FLIPPER 3 DOWN CMD
33	FLIPPER 2 UP CMD
34	FLIPPER 2 DOWN CMD
35	TWISTLOCKS LOCK CMD
36	TWISTLOCKS UNLOCKED CMD
37	EXTEND CMD
38	RETRACT CMD
39	PUMP ON SIGNAL
40	TWISTLOCKS LOCKED SIGNAL
41	TWISTLOCKS UNLOCKED SIGNAL
42	SPREADER LANDED SIGNAL
43	20FT SIGNAL
44	SPARE
45	45FT SIGNAL
46	40FT SIGNAL
47	POWER SUPPLY 48VDC
48	SPREADER NEAR CONTAINER SIGNAL (optional)
PE	PROTECTIVE EARTH

SPREADER PLUG

BRAND:ILME
P/NO:CHO 48 L42
CNM 24
CNM 24N

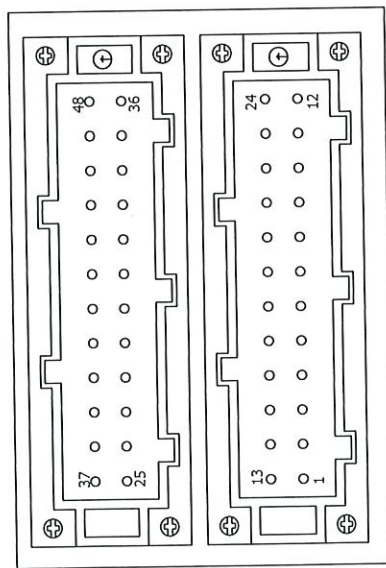
VIEW FROM MATING SIDE

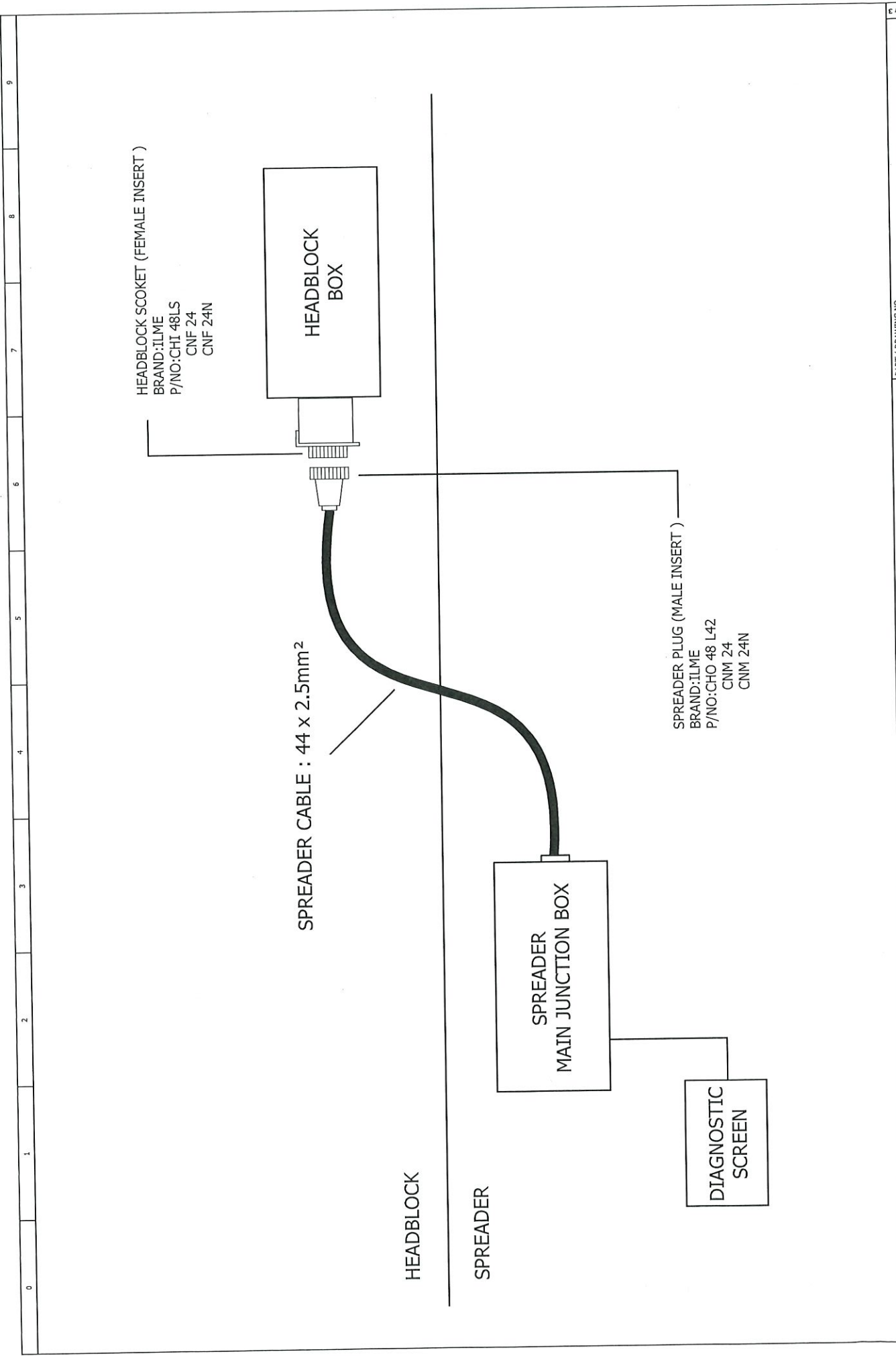


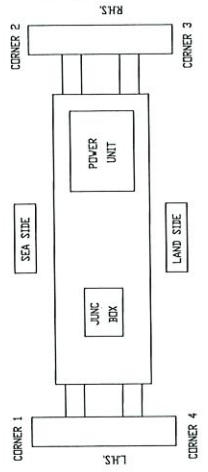
HEADBLOCK SOCKET

BRAND:ILME
P/NO:CHI 48LS
CNF 24
CNF 24N

VIEW FROM MATING SIDE

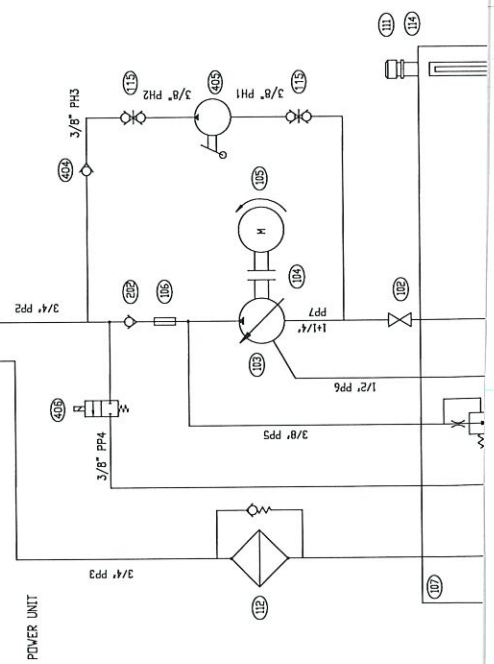
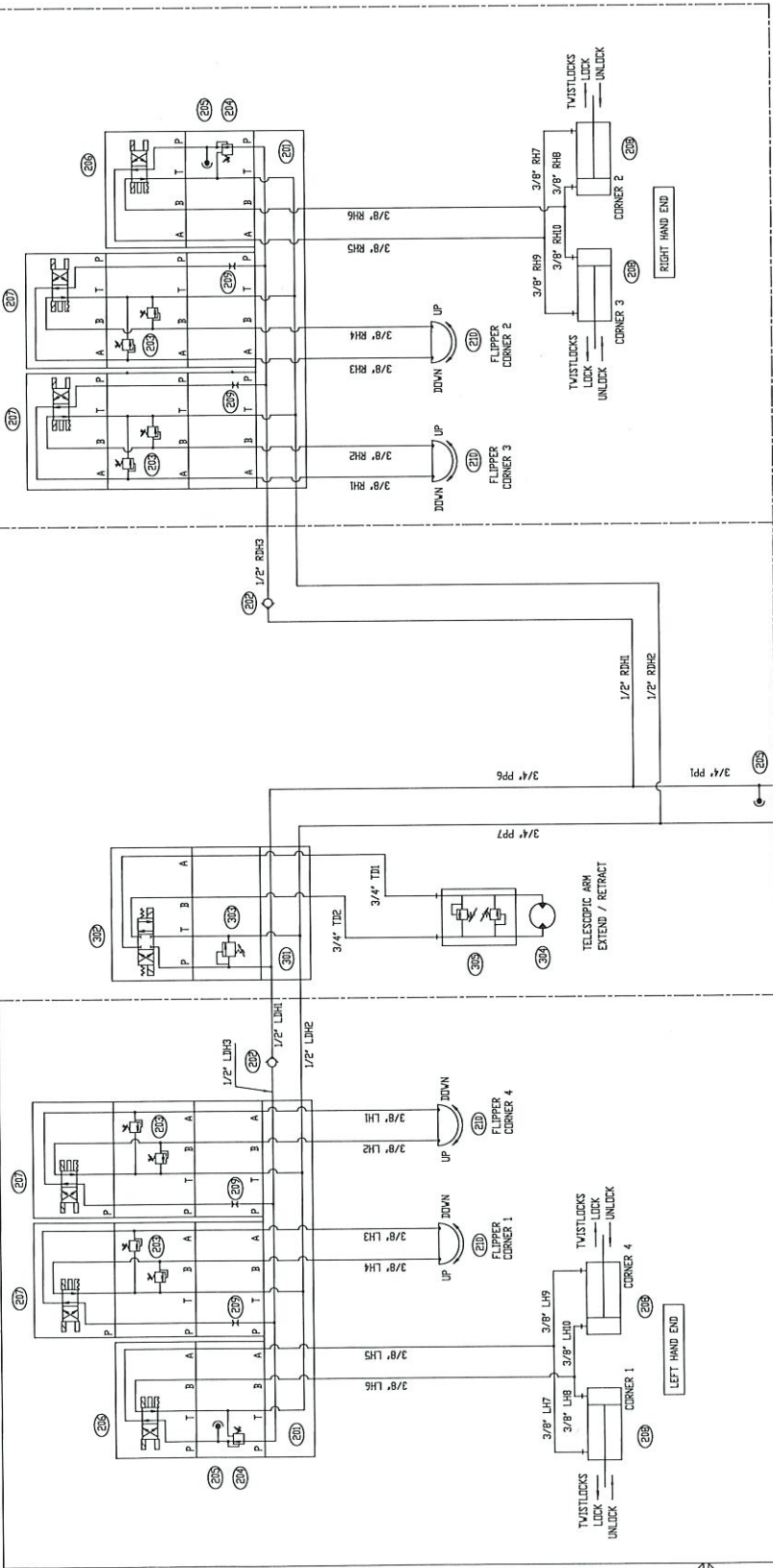






NOTES 1.

SYSTEM FLOW RATE	35 l/min
SYSTEM PRESSURE (PUMP COMPENSATOR)	140 kgf/cm ²
MAIN RELIEF VALVE (ITEM 303)	150 kgf/cm ²
PUMP MOTOR RATING	7.5KW 380V 50Hz 3PH
MOTOR SPACE HEATER RATING	NA
MOTOR THERMISTOR	NA
OIL HEATER RATING	NA
SOLENOID CONTROL VOLTAGE	220VAC 50Hz
SOLENOID COIL RATING	220VAC 50Hz
HOSE END FITTING	JIC THREADS
HYDRAULIC FLUID	ISO VG 68 (P)



LEFT HAND END

RIGHT HAND END