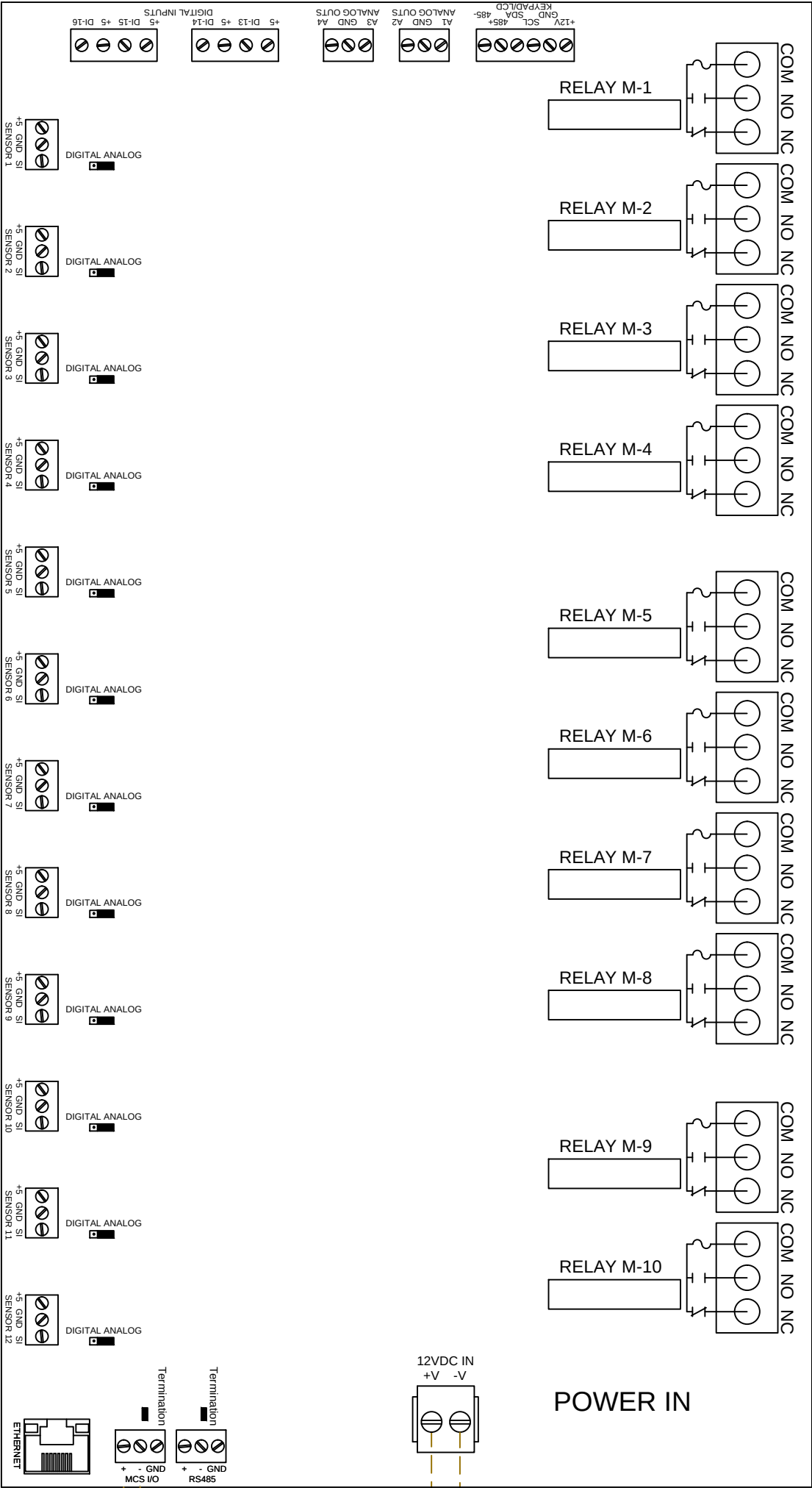




Communications to Next MCS Board in Address Sequence
(shield NOT grounded at this end)

Factory wired: _____
Field wired: - - - - -
Analog Sensor Jumper : 
Digital Sensor Jumper : 

		Job Site Name	
SO# 000000		Customer Name	
Unit Type		Unit Type	
Drawing #		SO# - Drawing #	
Revision	1A	Date	
CAD Tech	Name	Page #	

MCS-IO-BASE
ADDRESS #1

- 1
- 2
- 3
- 4
- 5

SENSOR 1-1
- 6

SENSOR 1-2
- 7

SENSOR 1-3
- 8

SENSOR 1-4
- 9

SENSOR 1-5
- 10

SENSOR 1-6
- 11

SENSOR 1-7
- 12

SENSOR 1-8
- 13

SENSOR 1-9
- 14

SENSOR 1-10
- 15

SENSOR 1-11
- 16

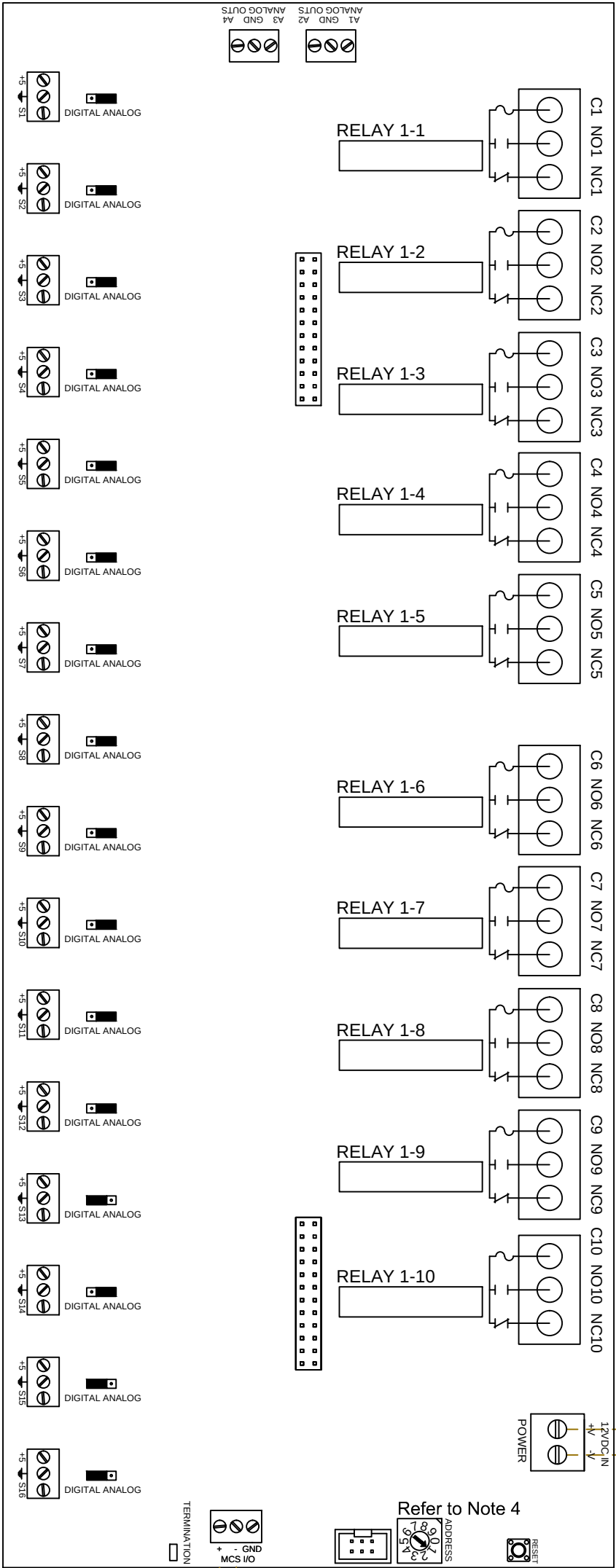
SENSOR 1-12
- 17

SENSOR 1-13
- 18

SENSOR 1-14
- 19

SENSOR 1-15
- 20

SENSOR 1-16



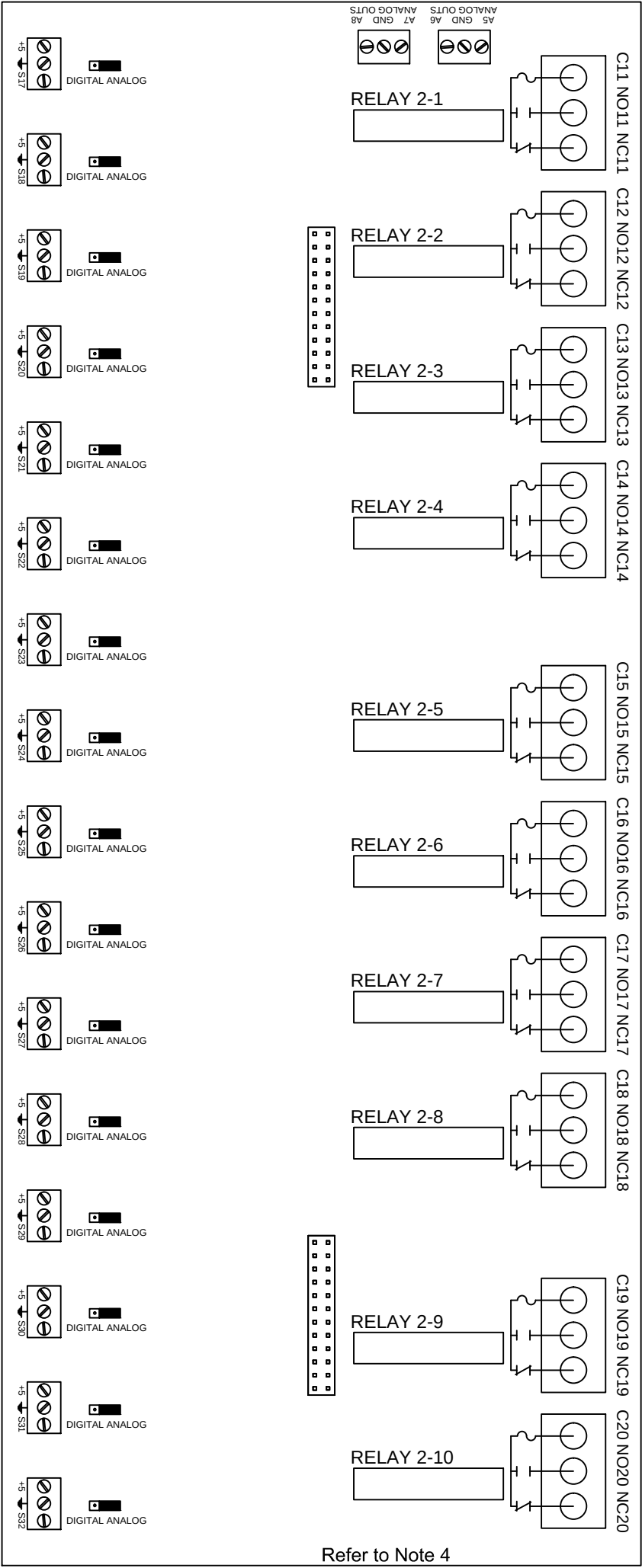
Communications to Previous MCS Board in Address Sequence
(shield grounded at this end only)
Communications to Next MCS Board in Address Sequence
(shield NOT grounded at this end)

Factory wired: _____
Field wired: - - - - -

Digital Sensor Jumper : ☐ ☒
Analog Sensor Jumper : ☒ ☐

MICRO CONTROL SYSTEMS		Job Site Name	
SO# 000000		Customer Name	
Unit Type		Unit Type	
Drawing #		SO# - Drawing #	
Revision		1A	Date
CAD Tech		Name	Page #

MCS-IO-EXT
ADDRESS #2



Factory wired: ———
Field wired: - - - - -

Digital Sensor Jumper : 
Analog Sensor Jumper : 

		Job Site Name	
SO# 000000		Customer Name	
Unit Type		Unit Type	
Drawing #		SO# - Drawing #	
Revision		1A	Date
CAD Tech		Name	Page #

MCS-IO-BASE
ADDRESS #3

- 1
- 2
- 3
- 4
- 5

SENSOR 1-1
- 6

SENSOR 1-2
- 7

SENSOR 1-3
- 8

SENSOR 1-4
- 9

SENSOR 1-5
- 10

SENSOR 1-6
- 11

SENSOR 1-7
- 12

SENSOR 1-8
- 13

SENSOR 1-9
- 14

SENSOR 1-10
- 15

SENSOR 1-11
- 16

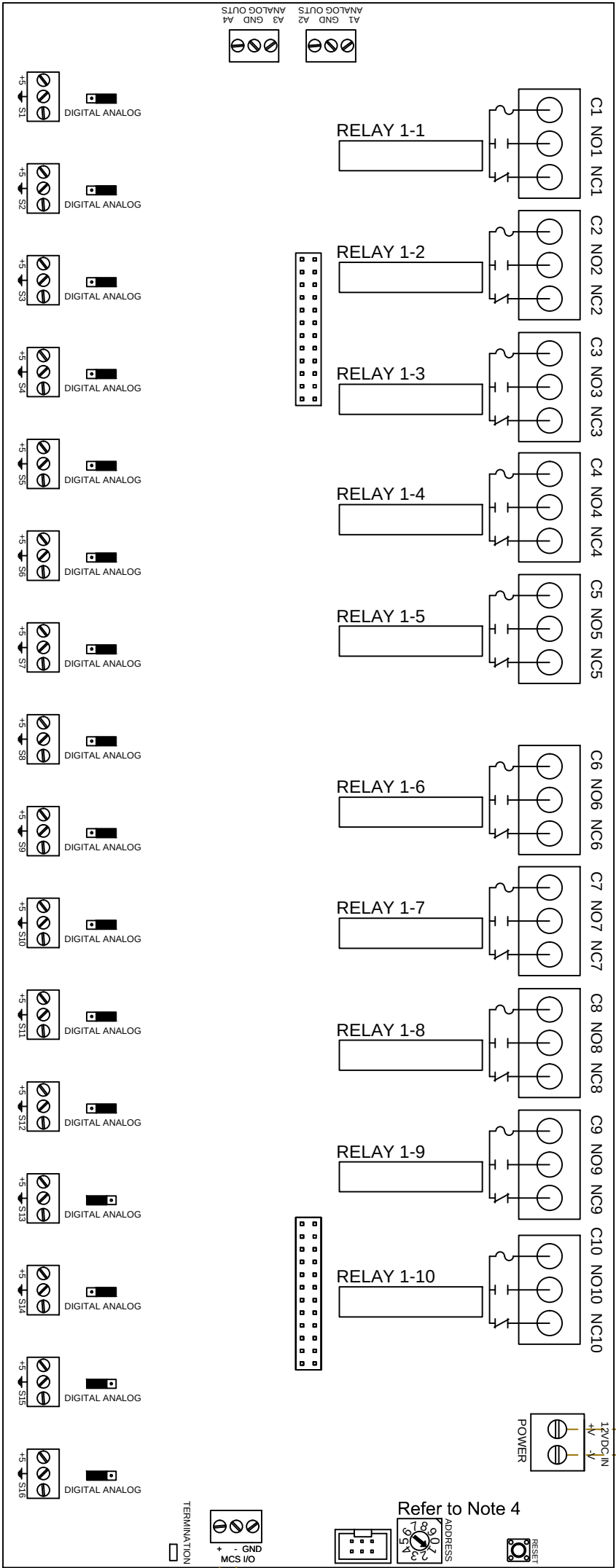
SENSOR 1-12
- 17

SENSOR 1-13
- 18

SENSOR 1-14
- 19

SENSOR 1-15
- 20

SENSOR 1-16



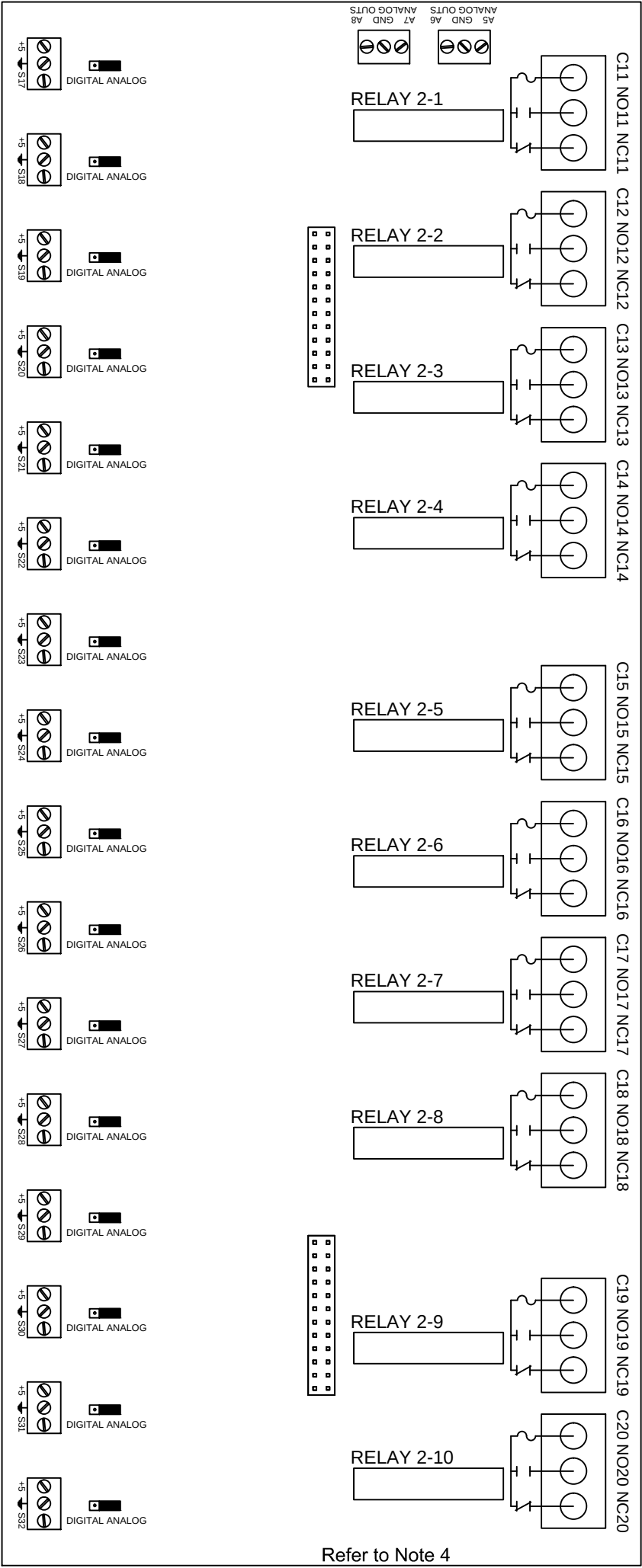
Communications to Preveous MCS Board in Address Sequence
(shield grounded at this end only)
Communications to Next MCS Board in Address Sequence
(shield NOT grounded at this end)

Factory wired: _____
Field wired: - - - - -

Digital Sensor Jumper : ☒ ☐
Analog Sensor Jumper : ☐ ☒

		Job Site Name	
SO# 000000		Customer Name	
Unit Type		Unit Type	
Drawing #		SO# - Drawing #	
Revision		1A	Date
CAD Tech		Name	Page #

MCS-IO-EXT
ADDRESS #4

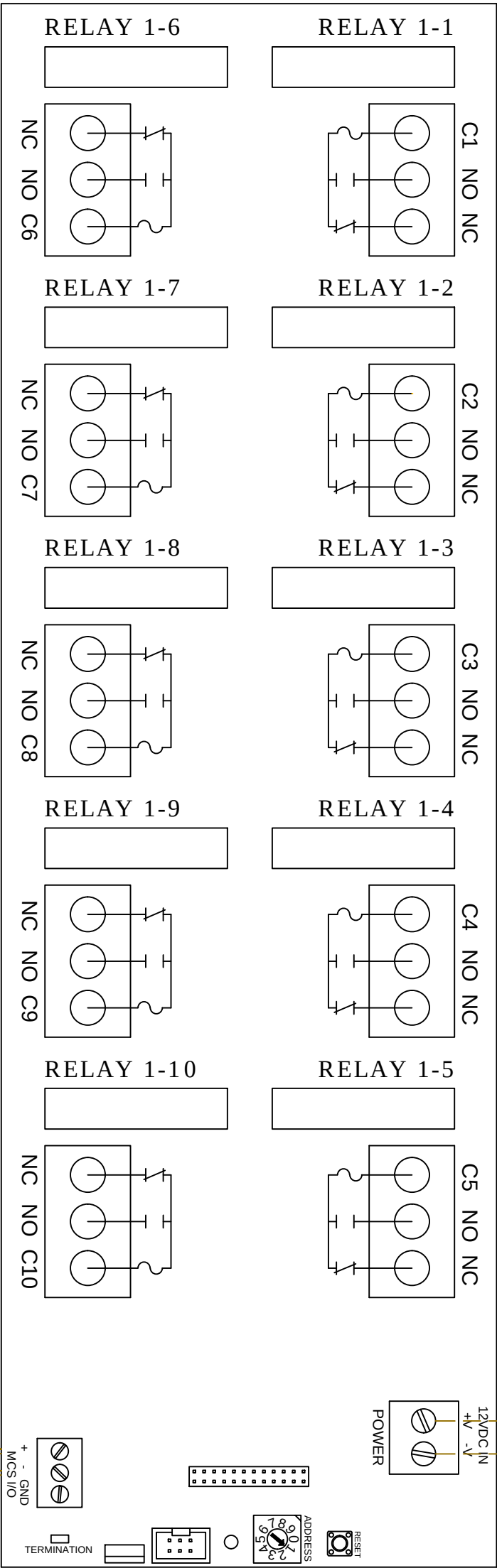


		Job Site Name	
SO# 000000		Customer Name	
Unit Type		Unit Type	
Drawing #		SO# - Drawing #	
Revision		1A	Date
CAD Tech		Name	Page #

MCS-RO-BASE
ADDRESS #5

Communications to Preveous MCS Board in Address Sequence
(shield NOT grounded at this end)

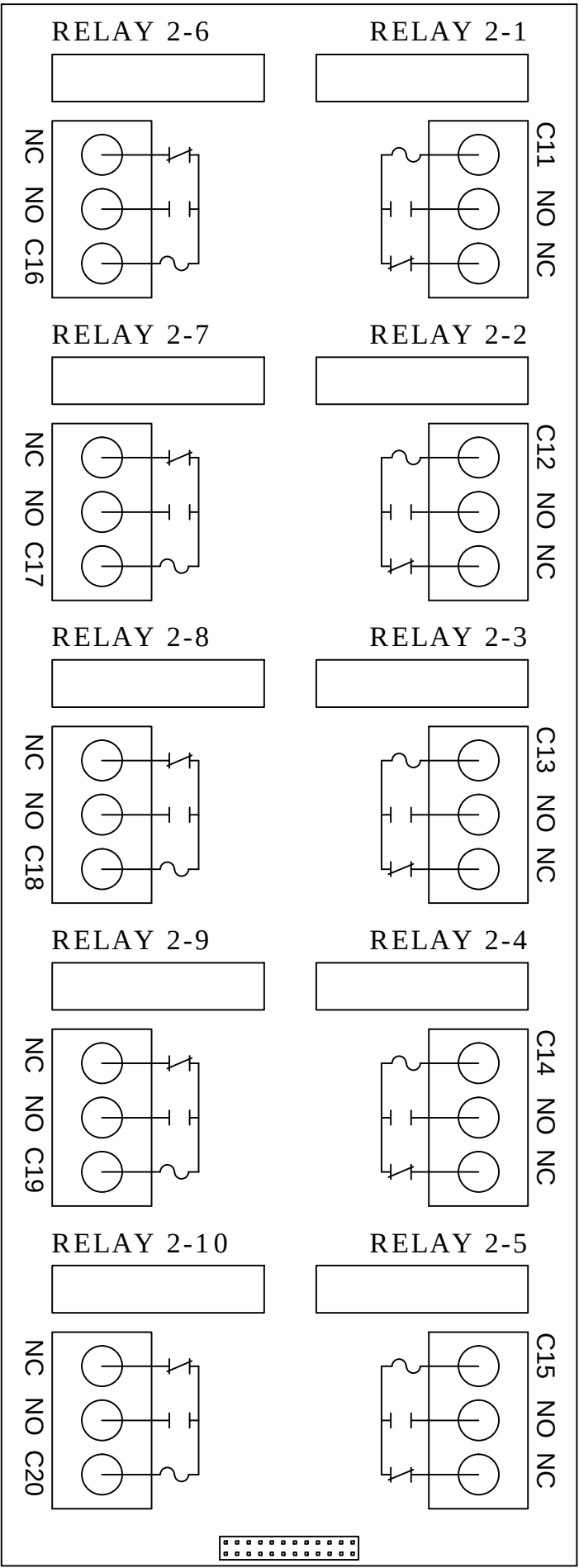
Communications to Next MCS Board in Address Sequence
(shield grounded at this end only)



Factory wired: _____

Field wired: - - - - -

		Job Site Name	
SO# 000000		Customer Name	
Unit Type		Unit Type	
Drawing #		SO# - Drawing #	
Revision	1A	Date	
CAD Tech	Name	Page #	



Factory wired:

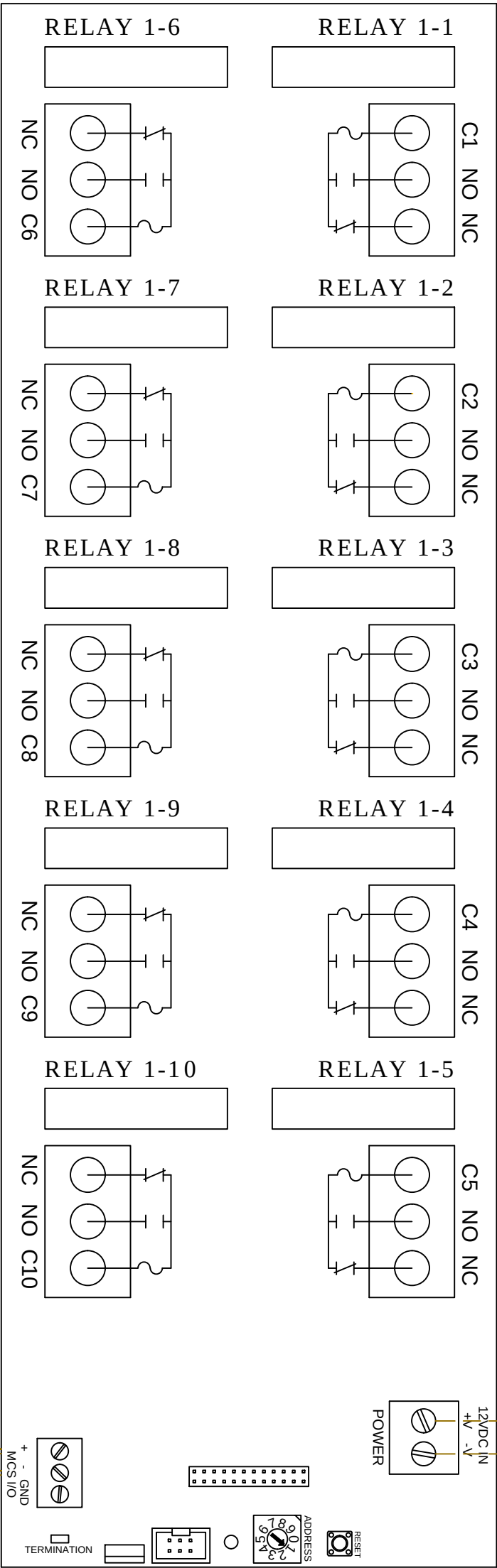
Field wired:

MICRO CONTROL SYSTEMS	Job Site Name	
SO# 000000	Customer Name	
Unit Type	Unit Type	
Drawing #	SO# - Drawing #	
Revision	1A	Date
CAD Tech	Name	Page #

MCS-RO-BASE
ADDRESS #7

Communications to Preveous MCS Board in Address Sequence (shield NOT grounded at this end)

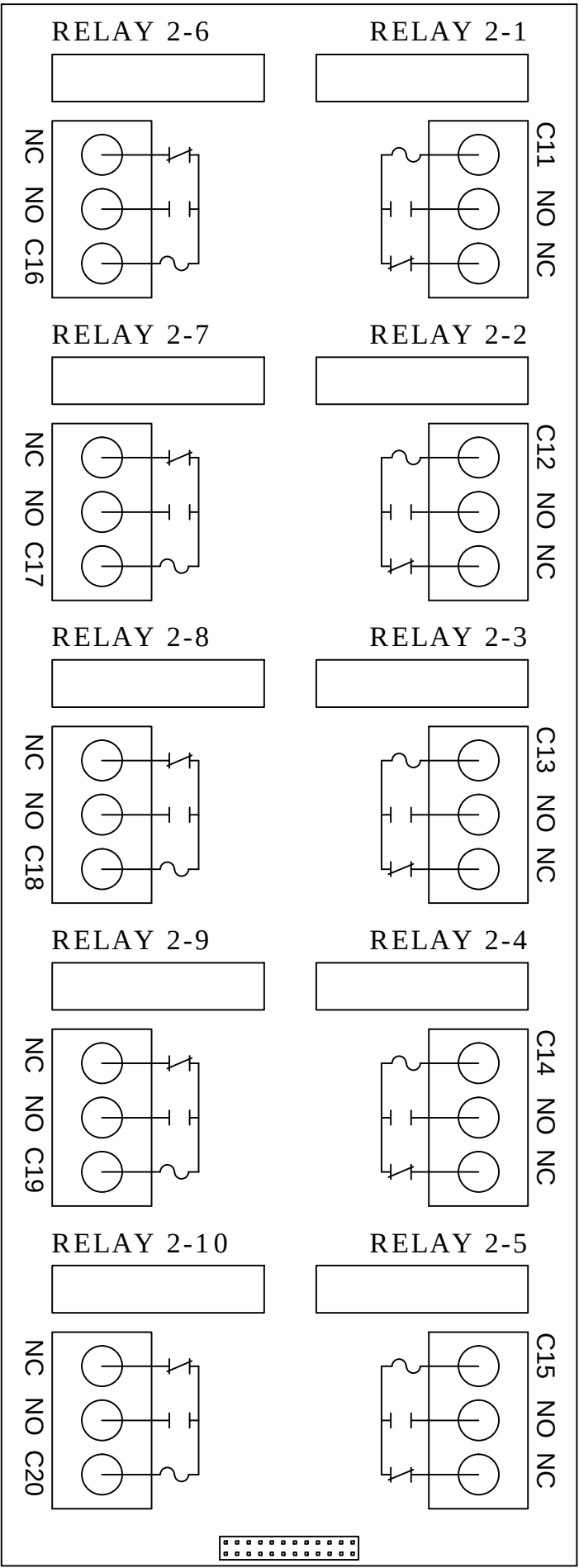
Communications to Next MCS Board in Address Sequence (shield grounded at this end only)



Factory wired: _____

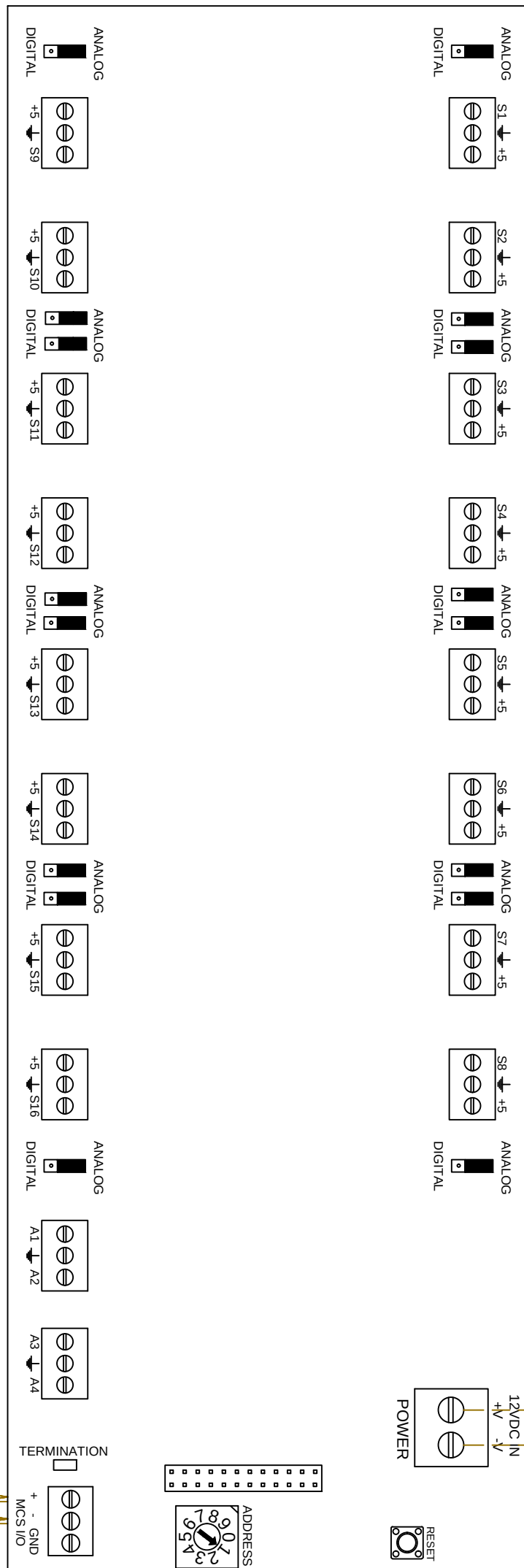
Field wired: - - - - -

		Job Site Name	
SO# 000000		Customer Name	
Unit Type		Unit Type	
Drawing #		SO# - Drawing #	
Revision	1A	Date	
CAD Tech	Name	Page #	



Factory wired: _____
Field wired: - - - - -

	Job Site Name	
	Customer Name	
	Unit Type	
	SO# - Drawing #	
	Revision	Date
CAD Tech	Name	Page #



Communications to Previous MC
Board in Address Sequence
(shield NOT grounded at this end)

Communications to Next MC
Board in Address Sequence
(shield grounded at this end only)

Factory wired:

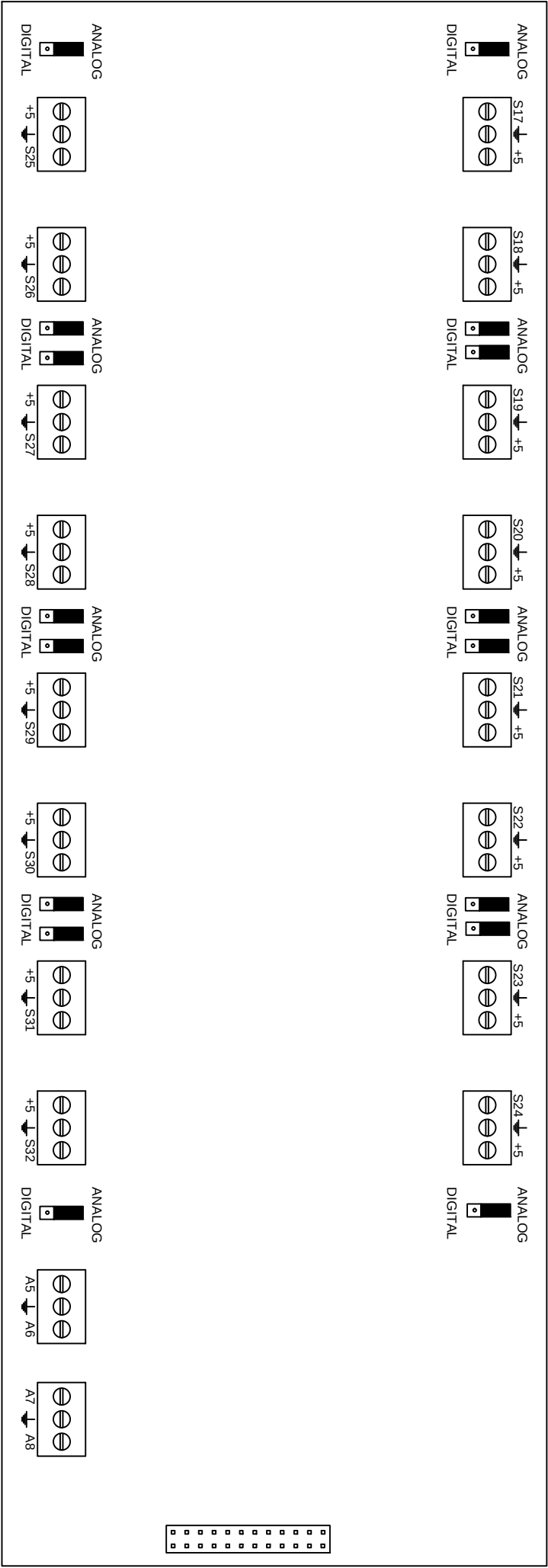
Field wired: 

Analog Sensor Jumper : 

Digital Sensor Jumper : 

	Job Site Name	
	Customer Name	
	Unit Type	
	SO# - Drawing #	
	Revision	1A
CAD Tech	Name	Page #

MCS-SI-EXT
ADDRESS #6



SENSOR 2-1

SENSOR 2-2

SENSOR 2-3

SENSOR 2-4

SENSOR 2-5

SENSOR 2-6

SENSOR 2-7

SENSOR 2-8

Factory wired: _____
Field wired: - - - - -
Analog Sensor Jumper : 
Digital Sensor Jumper : 

	Job Site Name	
	Customer Name	
	Unit Type	
	SO# - Drawing #	
	Revision	Date
CAD Tech	Name	Page #

MCS-SI-BASE
ADDRESS #7

SENSOR 1-9

SENSOR 1-10

SENSOR 1-11

SENSOR 1-12

SENSOR 1-13

SENSOR 1-14

SENSOR 1-15

SENSOR 1-16

SENSOR 1-1

SENSOR 1-2

SENSOR 1-3

SENSOR 1-4

SENSOR 1-5

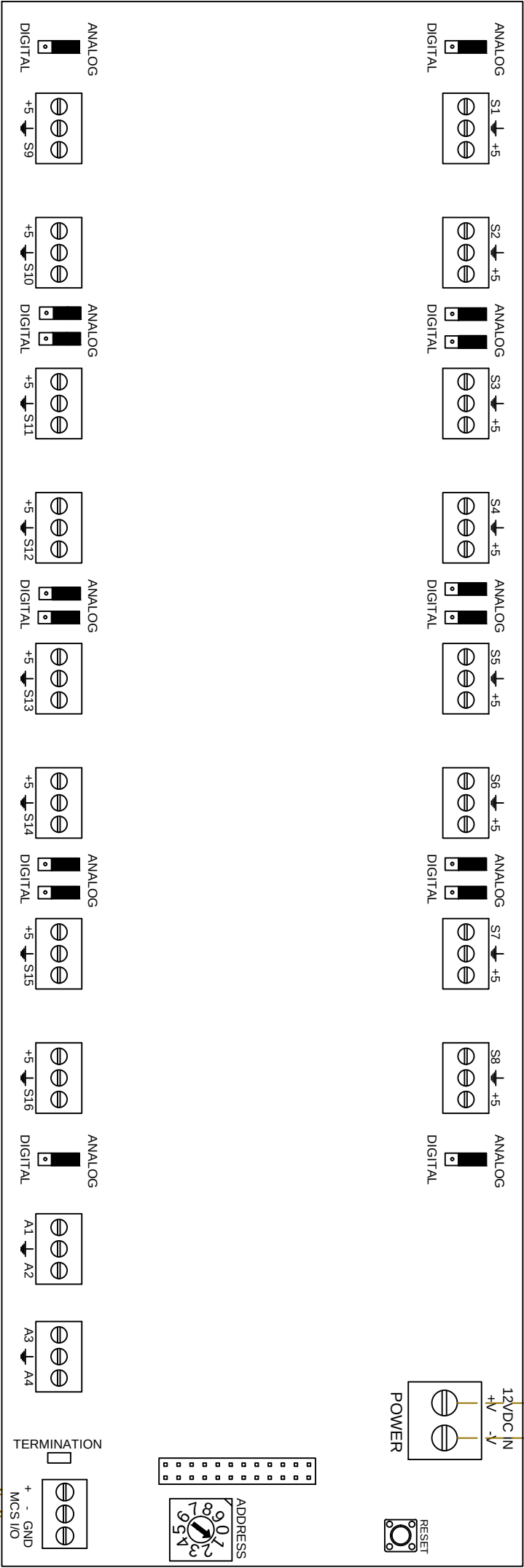
SENSOR 1-6

SENSOR 1-7

SENSOR 1-8

Communications to Preveous MCS Board in Address Sequence (shield NOT grounded at this end)

Communications to Next MCS Board in Address Sequence (shield grounded at this end only)



Factory wired: _____
Field wired: - - - - -
Analog Sensor Jumper : 
Digital Sensor Jumper : 

		Job Site Name	
SO# 000000		Customer Name	
Unit Type		Unit Type	
Drawing #		SO# - Drawing #	
Revision	1A	Date	
CAD Tech	Name	Page #	

NOTES

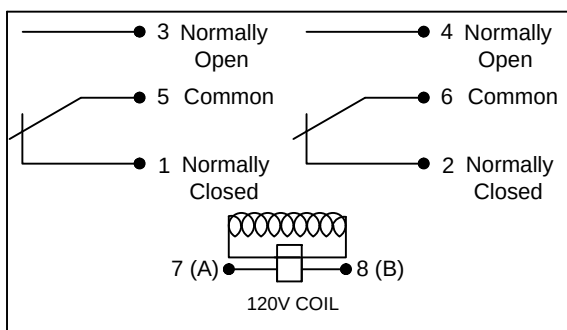
1. Sensors MUST use shielded cable and shield must not be broken.
2. All shields for sensors are to be wired to Earth Ground.
3. All sensor inputs are 0 to 5Vdc.
4. If a MCS-RO-BASE, MCS-SI-BASE, OR MCS-IO-BASE has an MCS-RO-EXT, MCS-SI-EXT, OR MCS-IO-EXT installed, the EXT address is the BASE +1.
Example: MCS-IO-BASE Address = 1
 MCS-IO-EXT Address = 2
5. Amp input sensors are field wired and must be shielded cable. They generate their own voltage and do not require 5Vdc from the MCS boards.
6. Digital input sensors are field wired and must be shielded cable. The 5Vdc is taken from the sensor terminal and wired through the switch. The jumper must then be set to digital.
7. Use copper wire only.
8. External Main Power Disconnect must be provided by others.

LEGEND

ISOLATION RELAY DIAGRAM

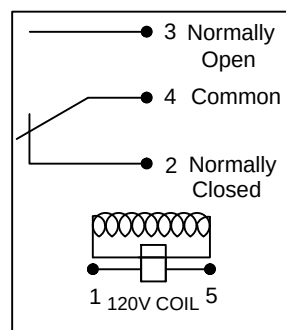
4 POSITION PURGE SWITCH

ID-1

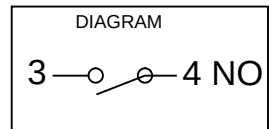
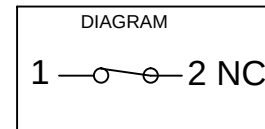
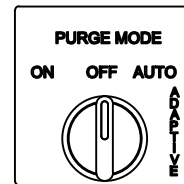


CR3,4,11

ID-6

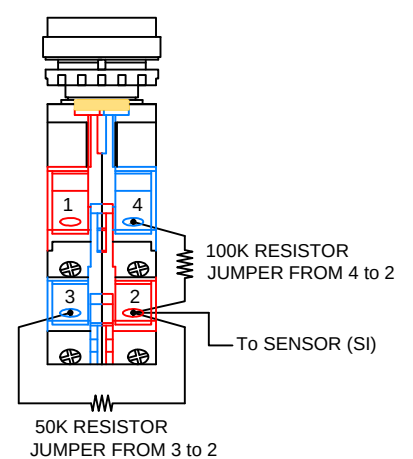


CR1,2,5,6,7,8,9,10,19,20,21

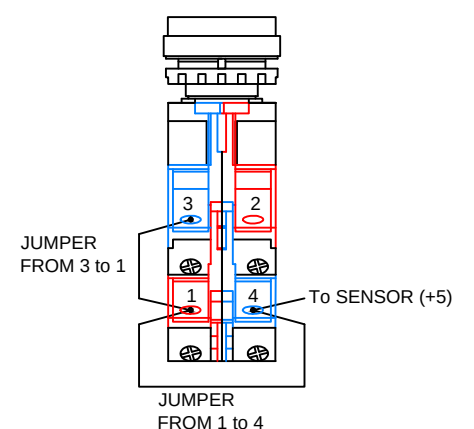


ID-9

TOP VIEW

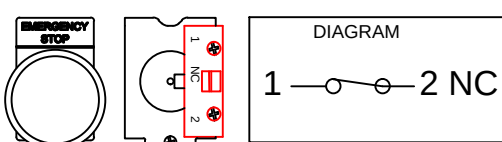


BOTTOM VIEW



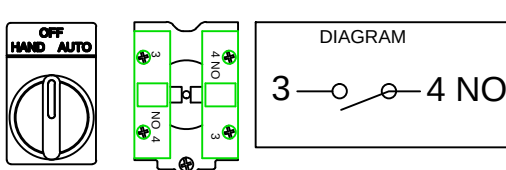
ID-2

EMERGENCY STOP



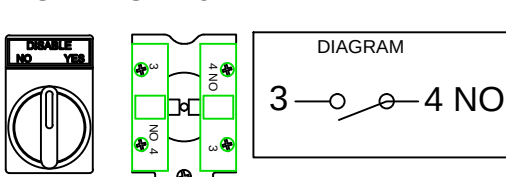
ID-3

HAND OFF AUTO



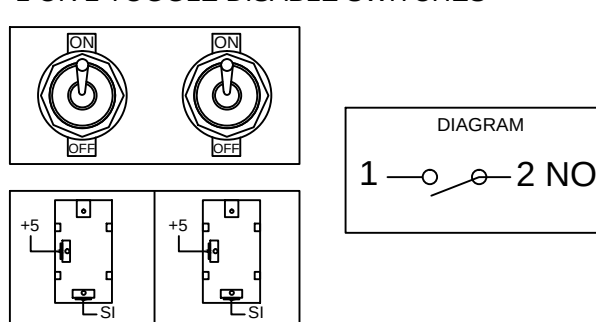
ID-4

DISABLE SWITCH



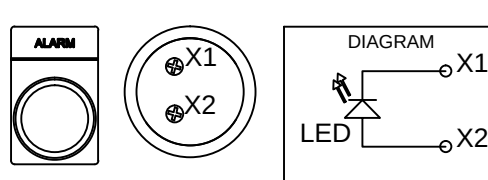
ID-5

1 OR 2 TOGGLE DISABLE SWITCHES



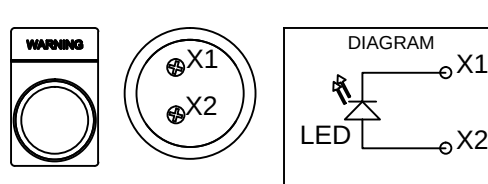
ID-7

ALARM LIGHT



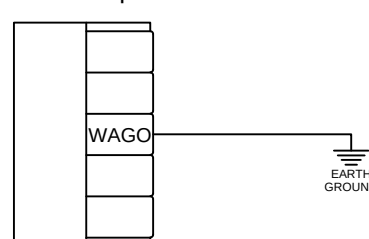
ID-8

WARNING LIGHT



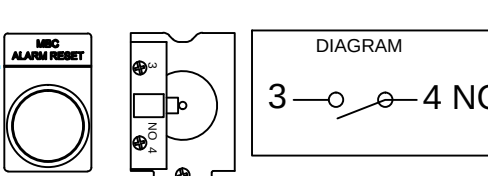
ID-10

MCS-SHEILD WIRE-GROUNDING
Maximum capacity of 3 shields
or 1 insulated wire per clip.
Center clip reserved for MCS.



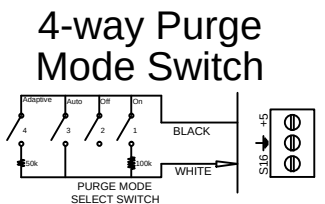
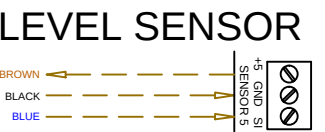
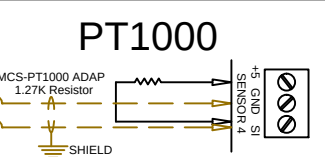
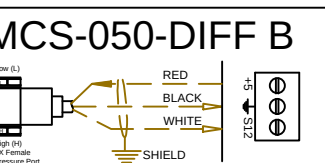
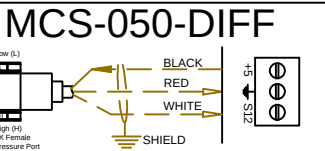
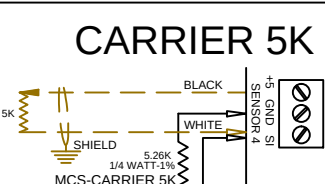
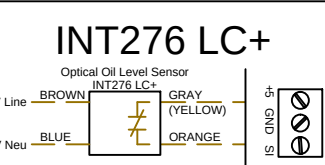
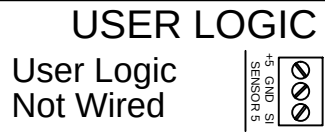
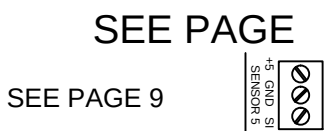
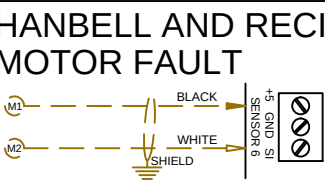
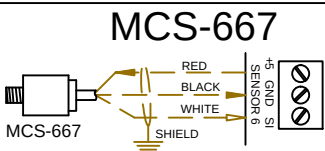
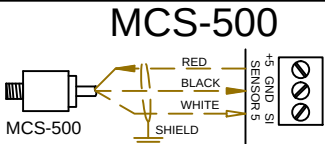
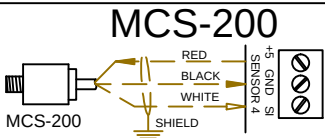
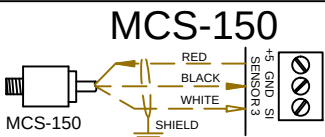
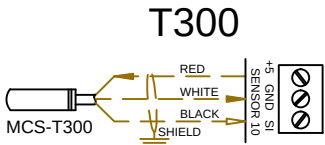
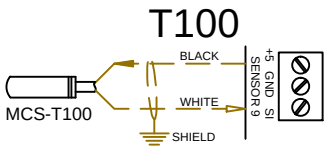
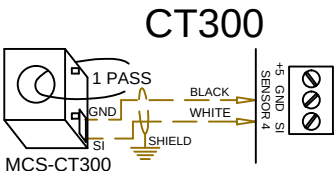
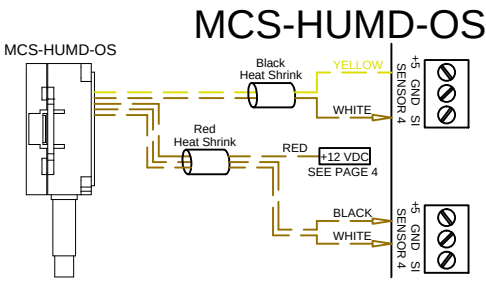
ID-11

PUSH BUTTON

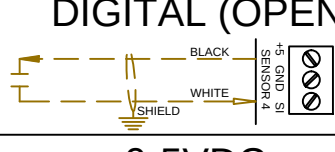
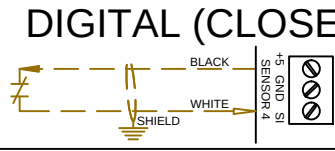
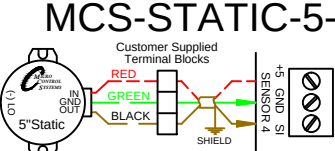
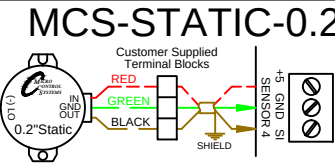
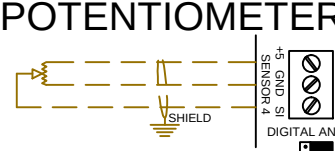
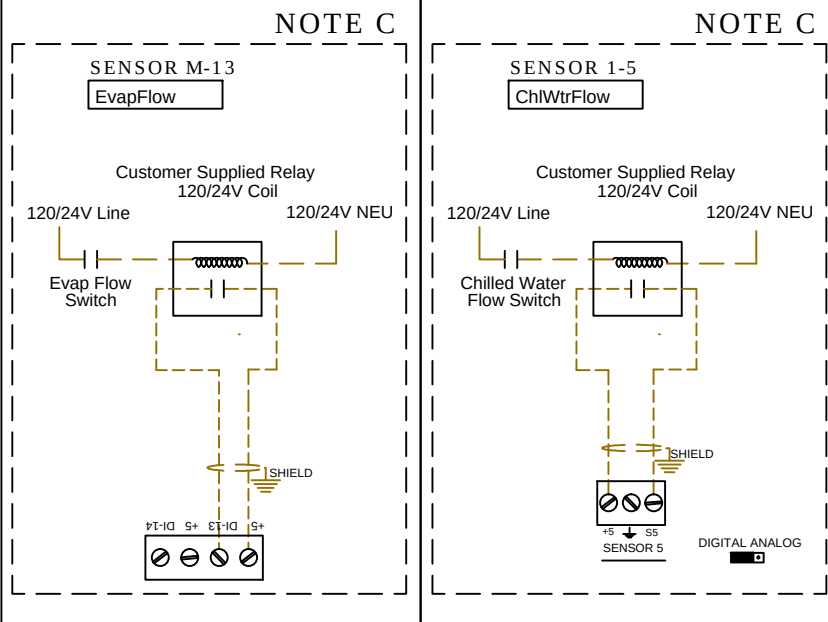
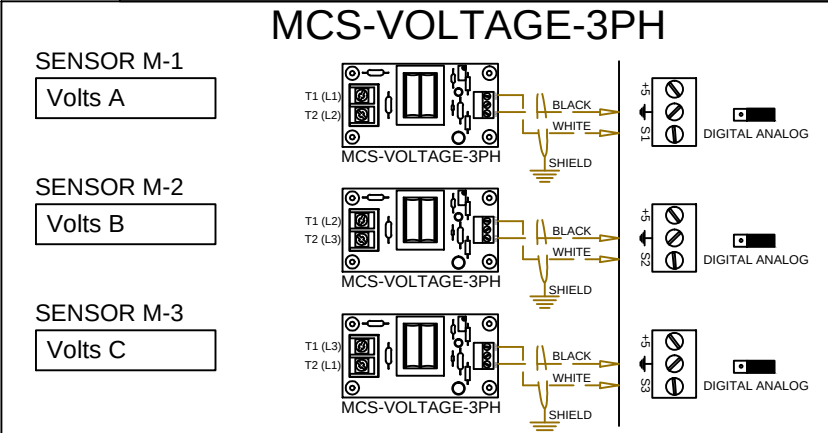
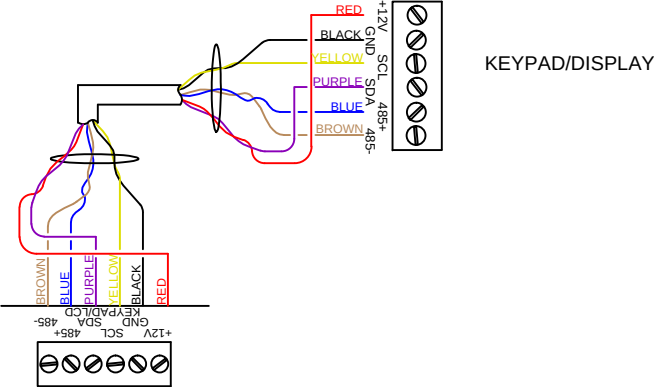


	Job Site Name	
	Customer Name	
	Unit Type	Unit Type
	SO# - Drawing #	
	Revision	1A
CAD Tech	Name	Page #

MCS-MAGNUM & MCS-IO-BASE/EXT SENSORS



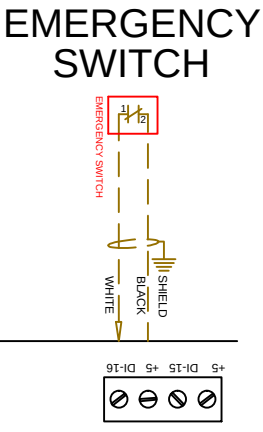
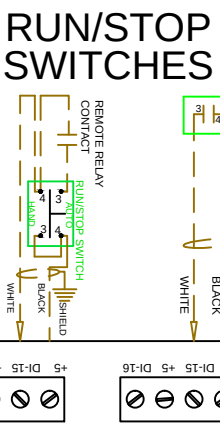
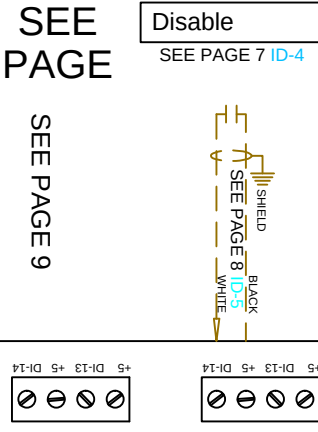
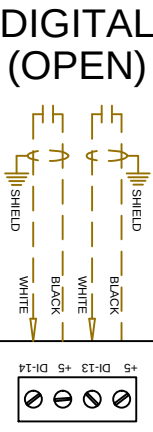
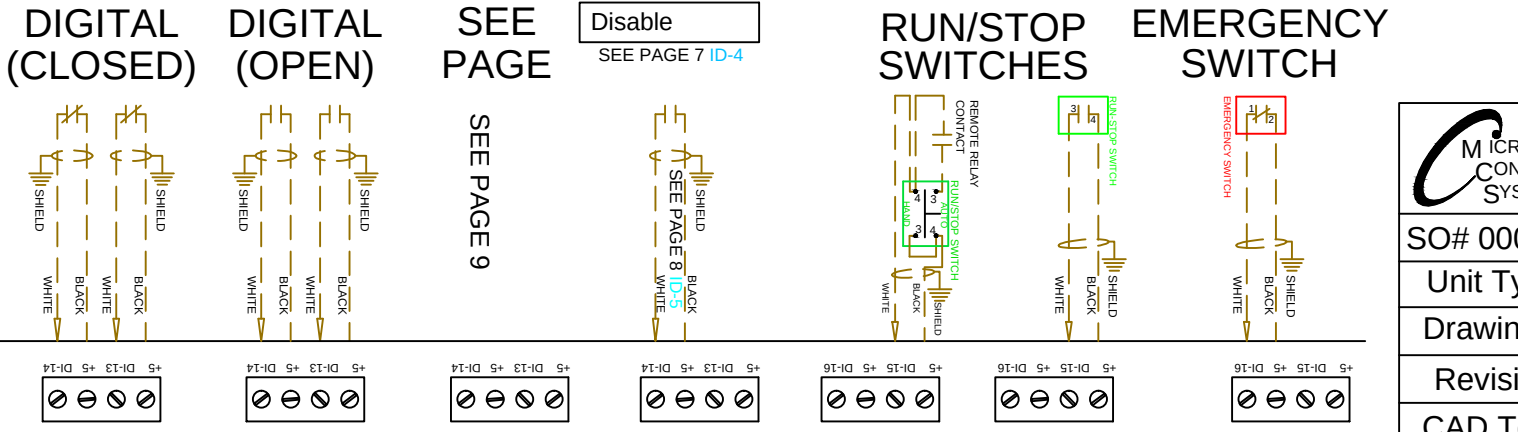
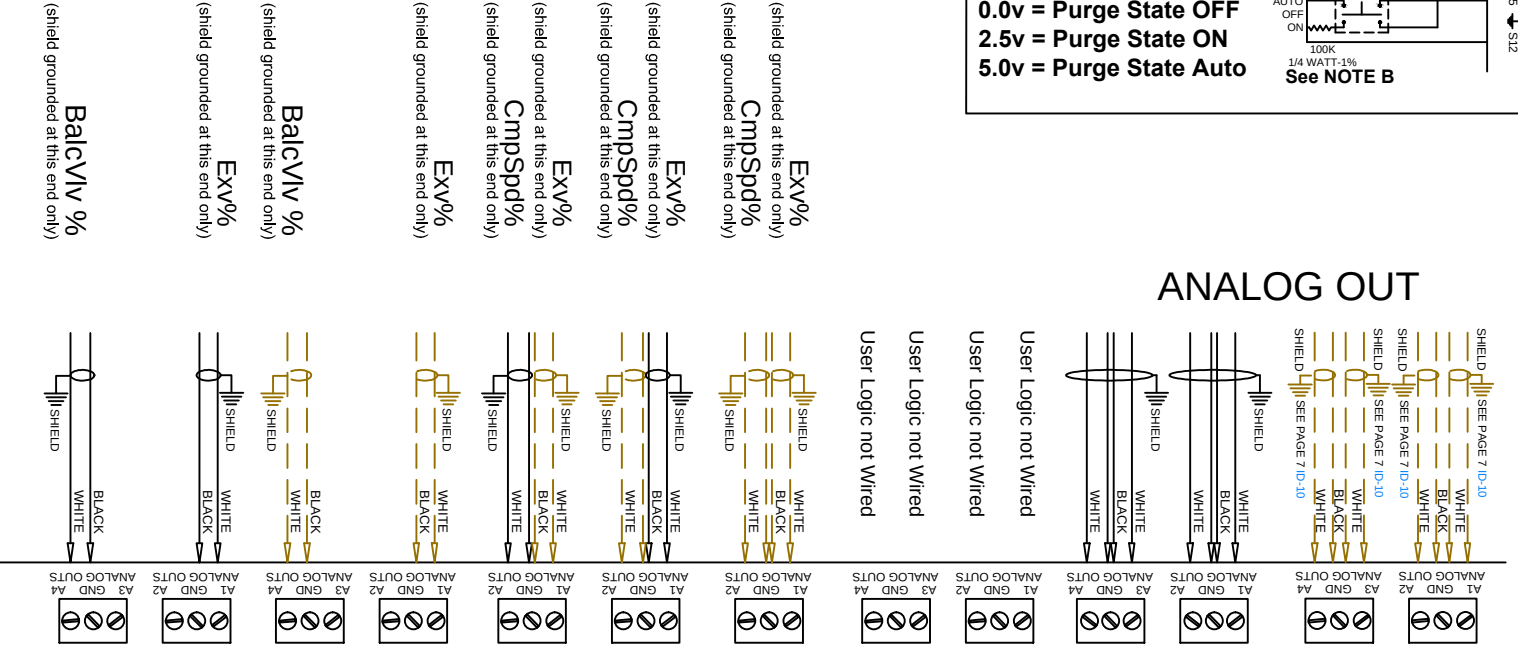
NOTE:
1. Drain shield must be cut at BOTH ends.



3-way Purge Mode Switch



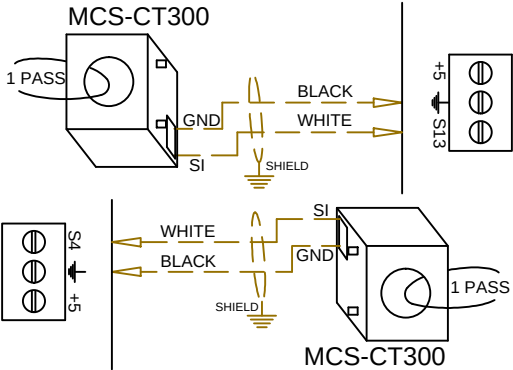
ANALOG OUT



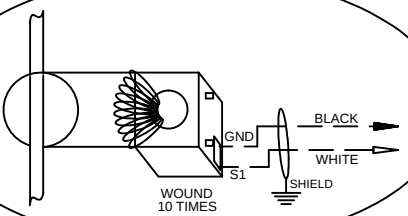
	Job Site Name	
SO# 000000	Customer Name	
Unit Type	Unit Type	
Drawing #	SO# - Drawing #	
Revision	1A	Date
CAD Tech	Name	Page #

MCS-SI-BASE/EXT
SENSORS
(Page 1)

CT300

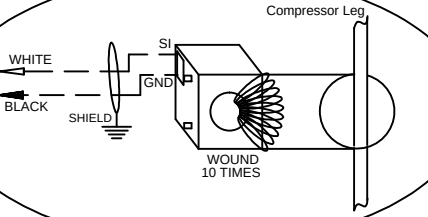


NOTE A

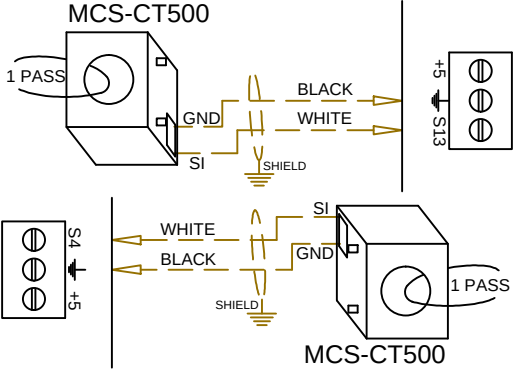


EDIT WIRE TURNS TO MATCH CFG

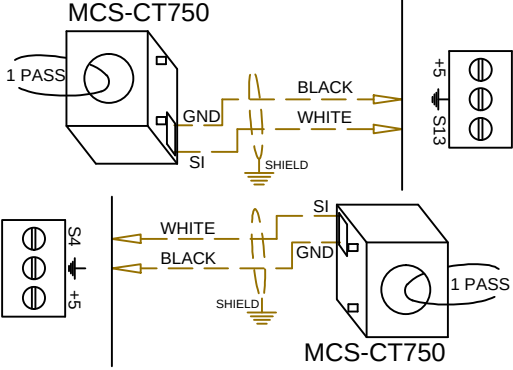
NOTE A



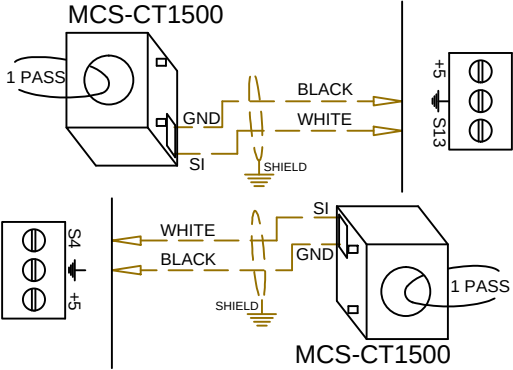
CT500



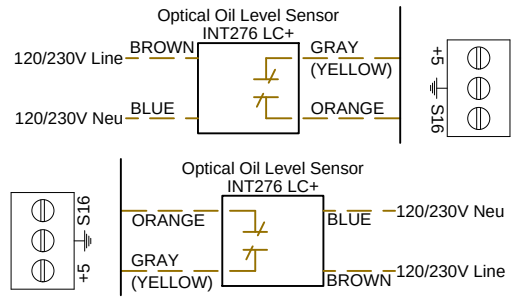
CT750



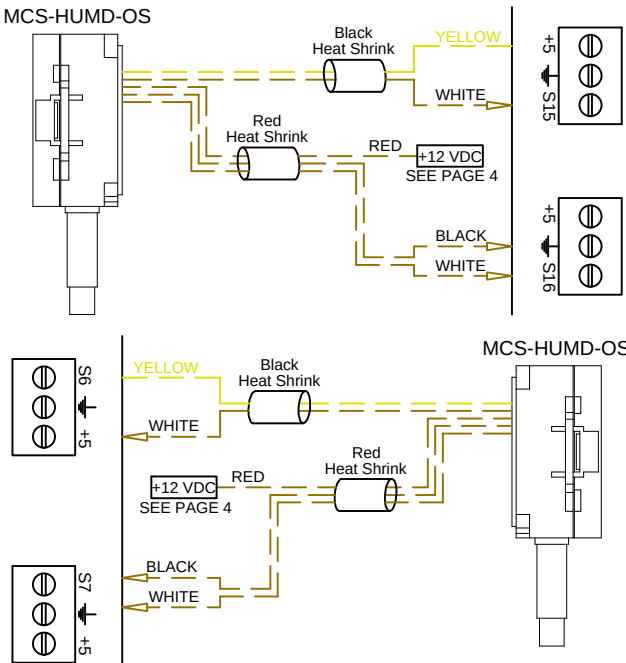
CT1500



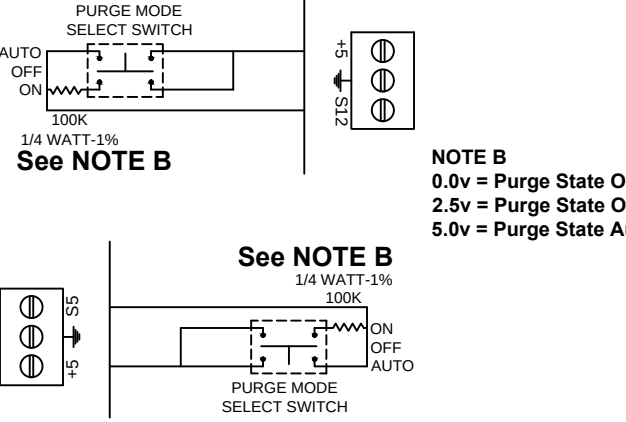
INT276 LC+



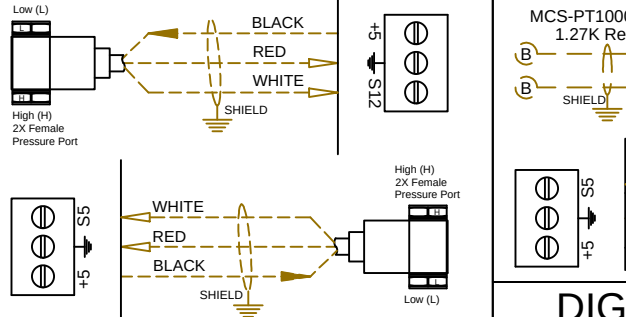
MCS-HUMD-OS



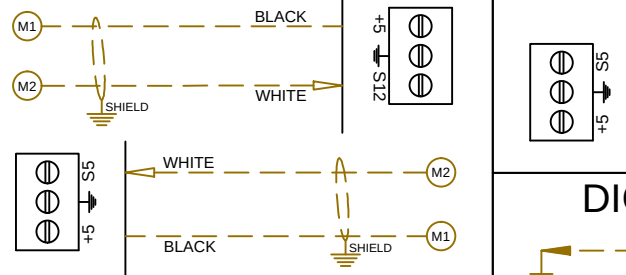
3-way Purge Mode Switch



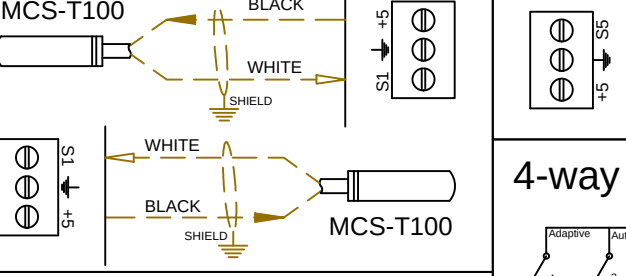
MCS-PSI DIFFERENTIAL



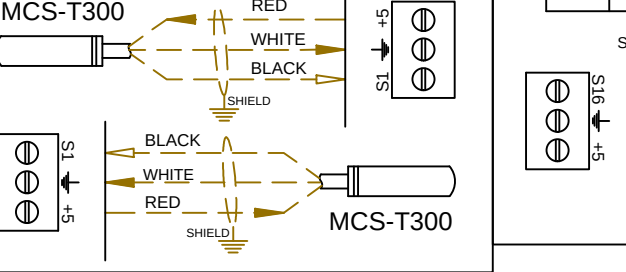
HANBELL AND RECIP
MOTOR FAULT



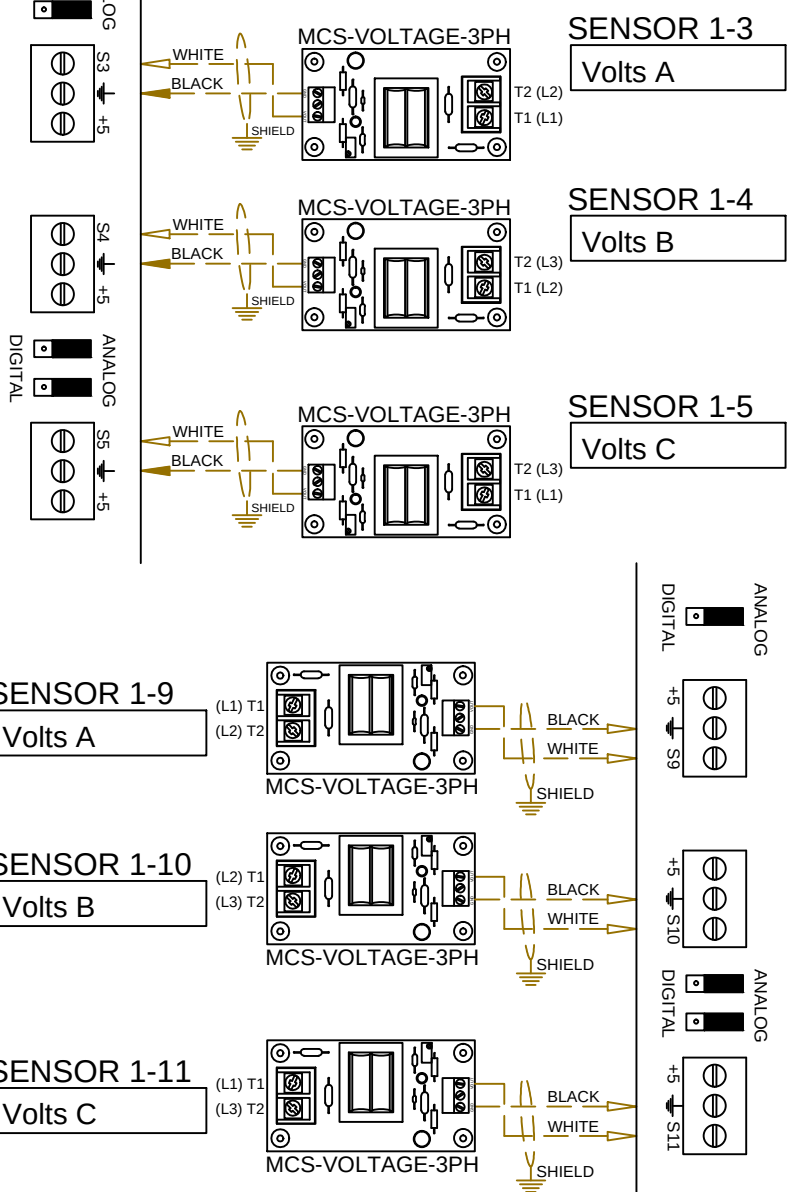
T100



T300



MCS-VOLTAGE-3PH

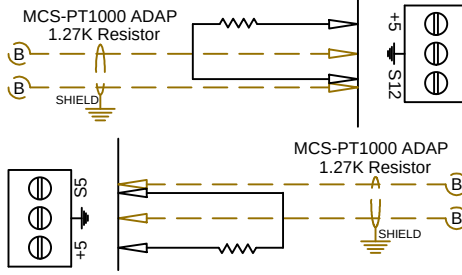


SENSOR 1-9
Volts A

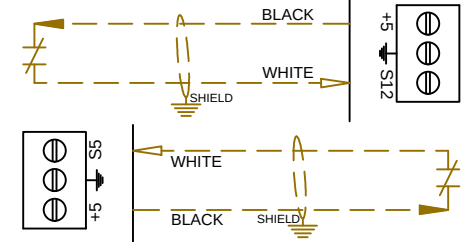
SENSOR 1-10
Volts B

SENSOR 1-11
Volts C

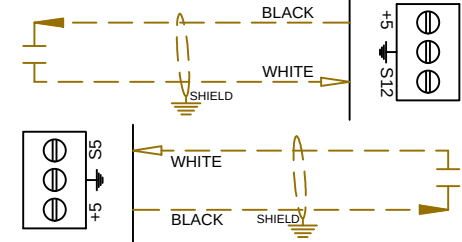
PT1000



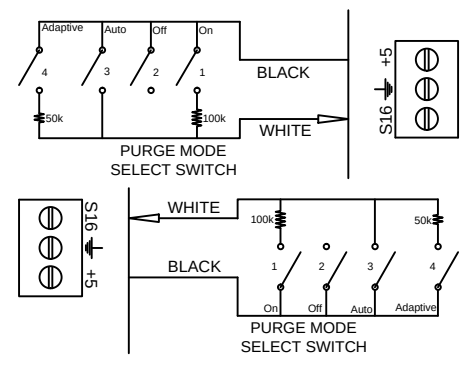
DIGITAL (CLOSED)



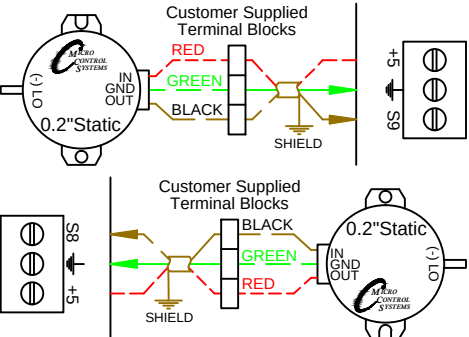
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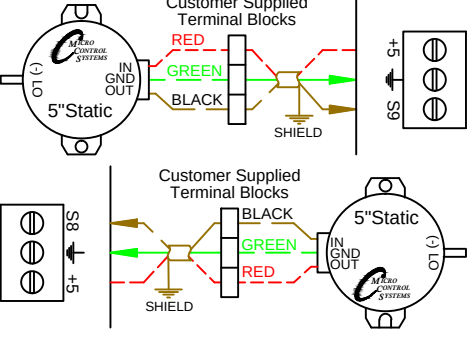
4-way Purge Mode Switch



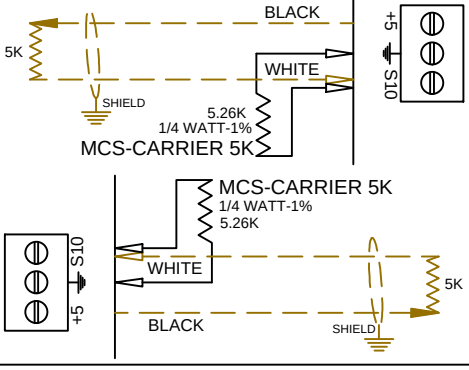
MCS-STATIC-0.2-B



MCS-STATIC-5-B



CARRIER 5K



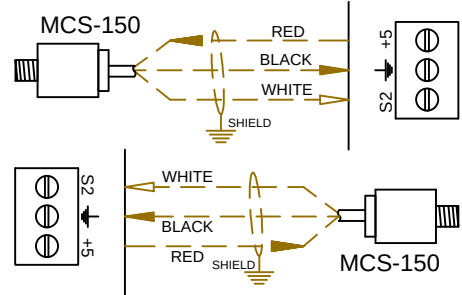
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SO# 000000		Customer Name	
Unit Type		Unit Type	
Drawing #		SO# - Drawing #	
Revision		1A	Date
CAD Tech		Name	Page #

MCS-SI-BASE/EXT

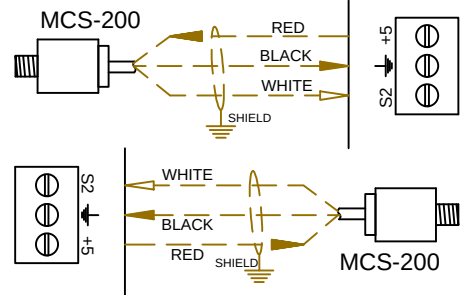
SENSORS

(Page 2)

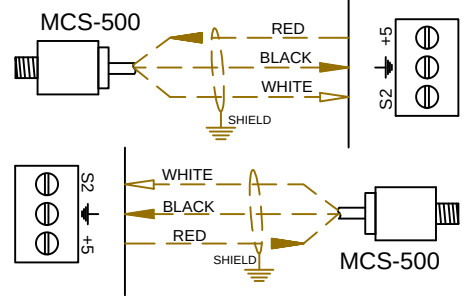
MCS-150



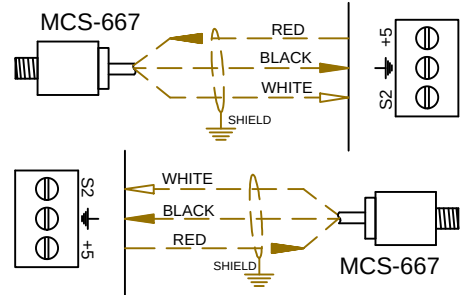
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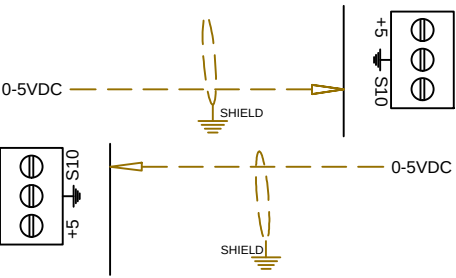
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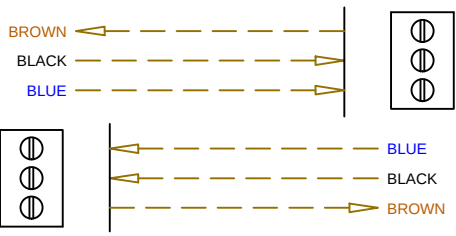
MCS-667



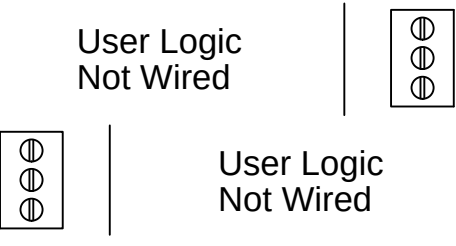
0-5VDC



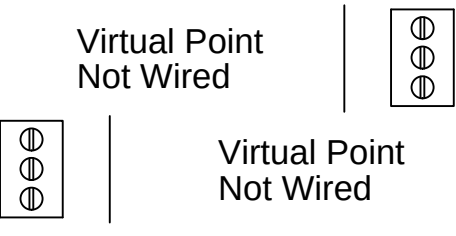
LEVEL SENSOR



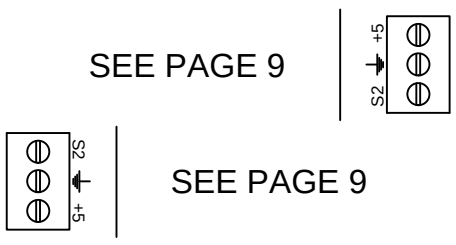
USER LOGIC



VIRTUAL POINT



SEE PAGE NOTE



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	Job Site Name	
SO# 000000	Customer Name	
Unit Type	Unit Type	
Drawing #	SO# - Drawing #	
Revision	1A	Date
CAD Tech	Name	Page #