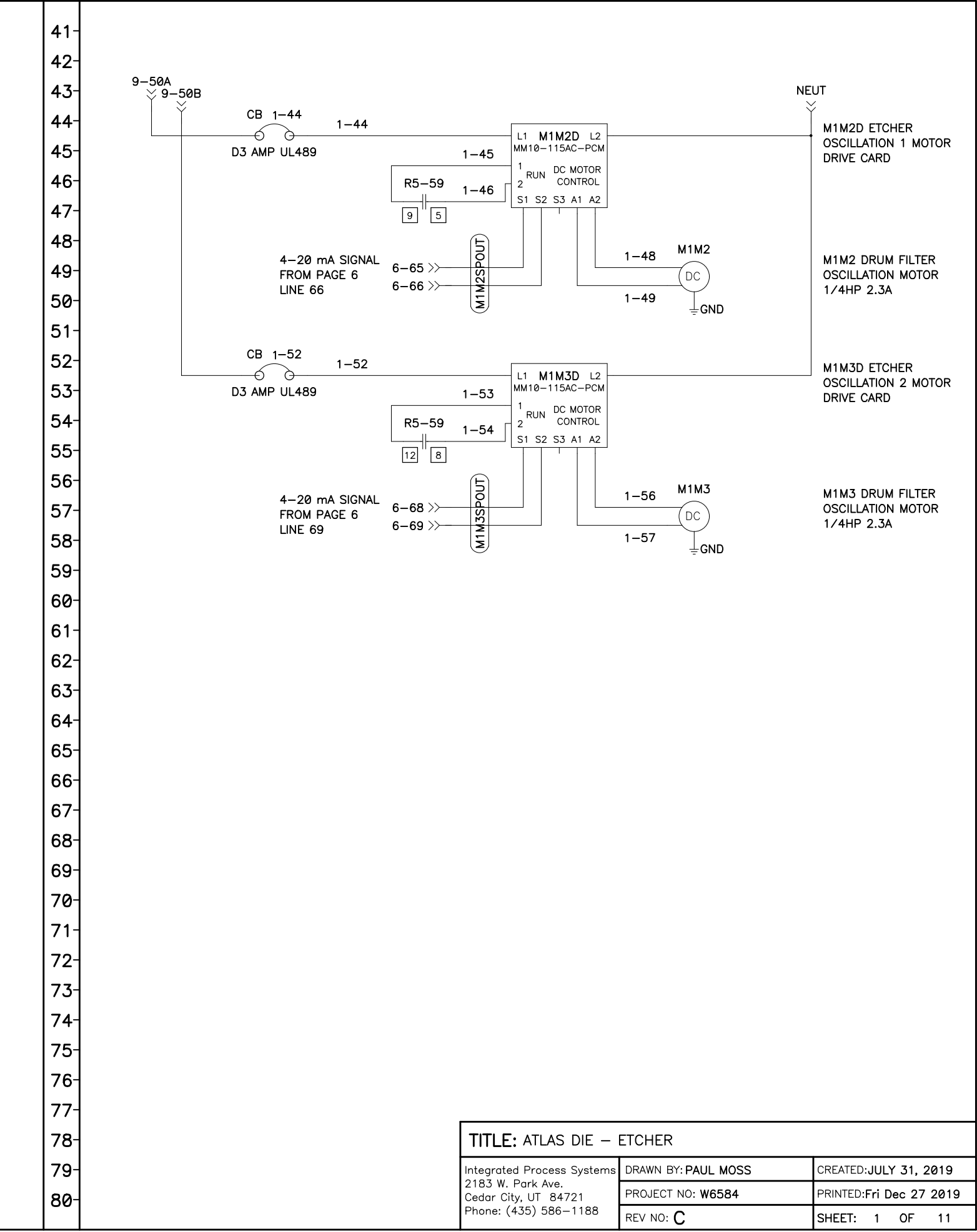
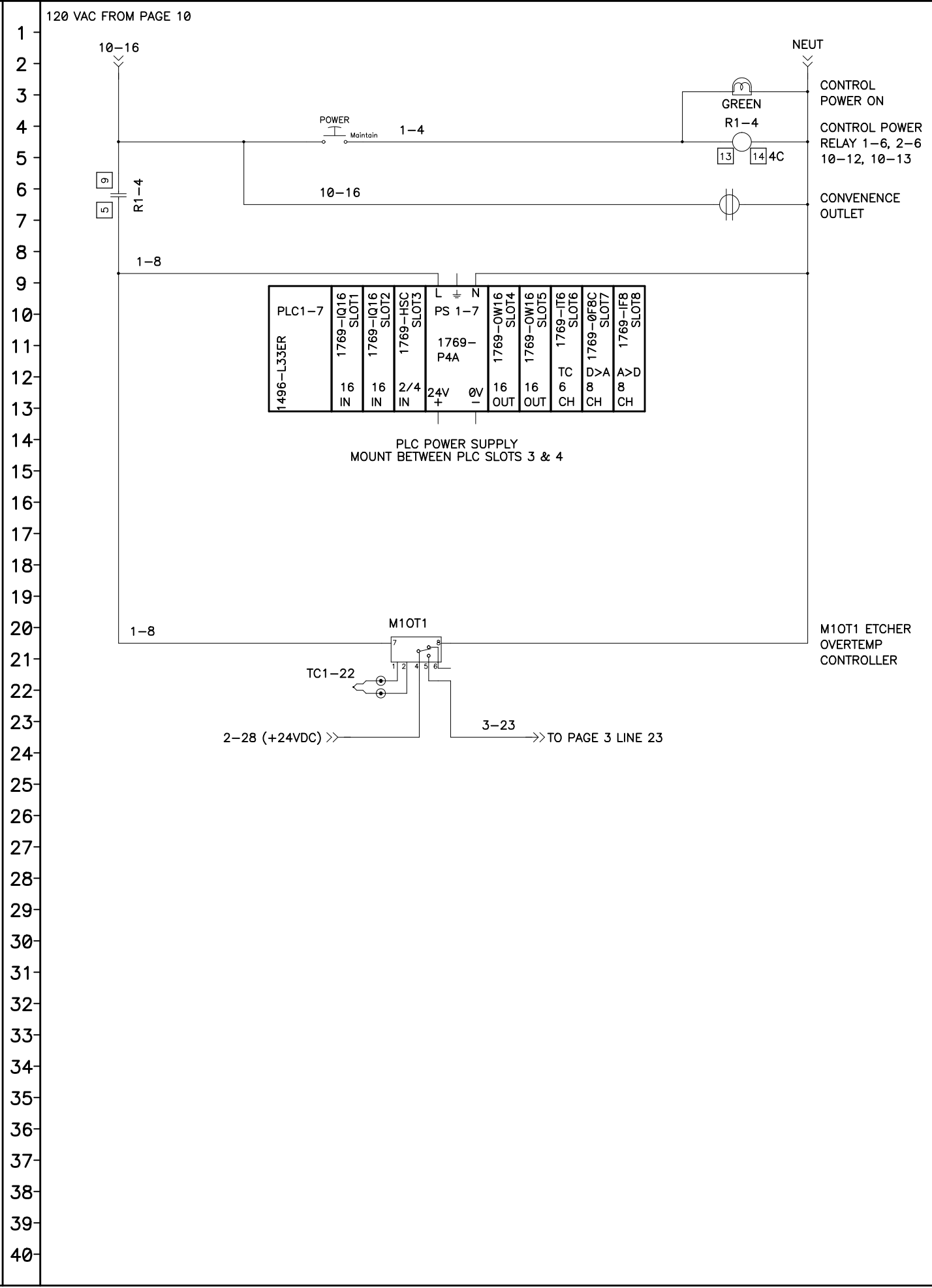
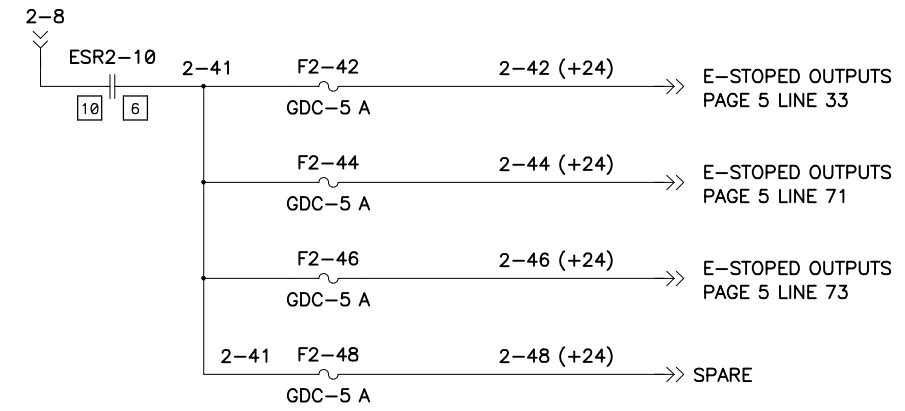
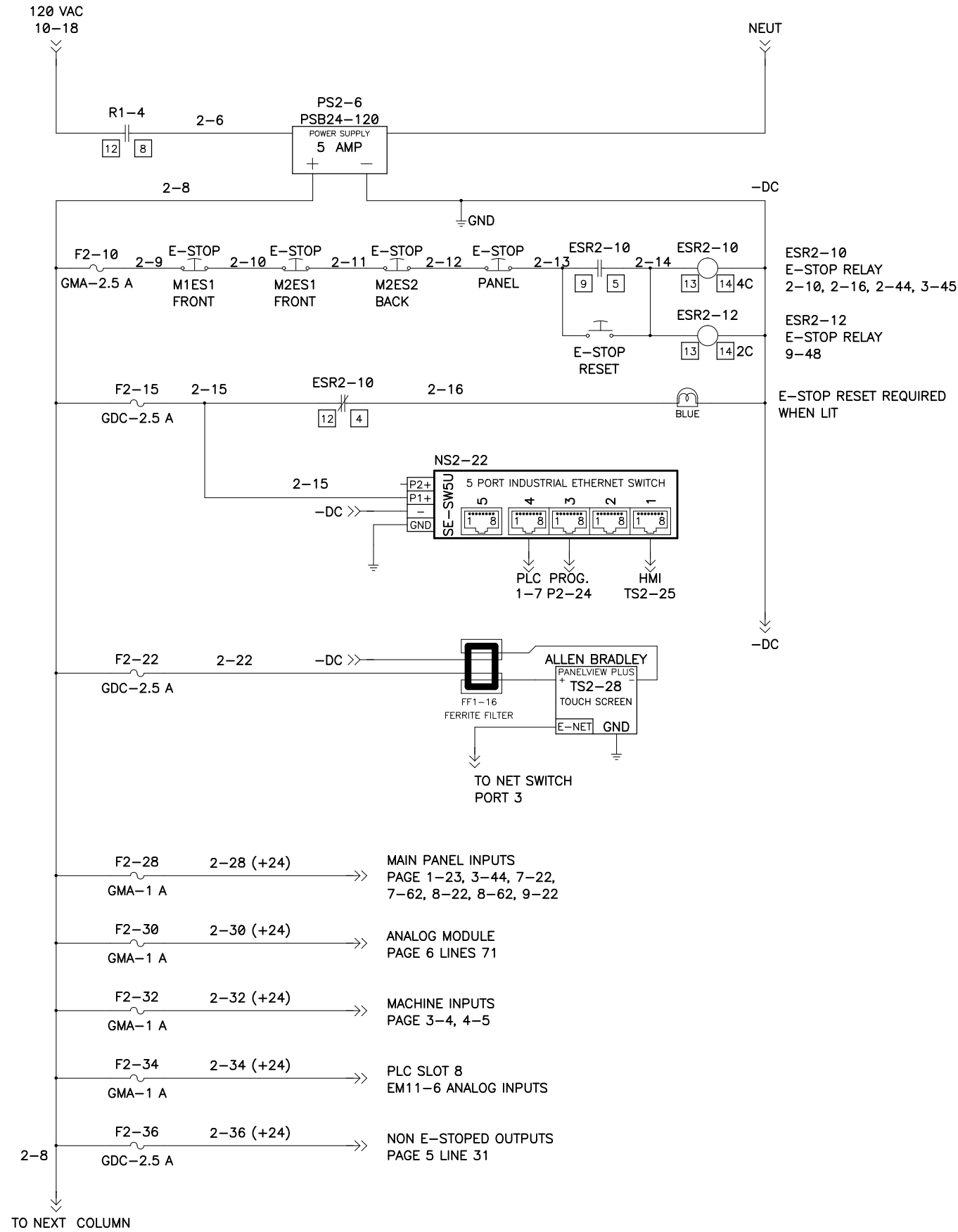


# INTEGRATED PROCESS SYSTEMS



INTEGRATED PROCESS SYSTEMS



TITLE: ATLAS DIE - ETCHER

Integrated Process Systems  
2183 W. Park Ave.  
Cedar City, UT 84721  
Phone: (435) 586-1188

DRAWN BY: PAUL MOSS

PROJECT NO: W6584

REV NO: C

CREATED: JULY 31, 2019

PRINTED: Fri Dec 27 2019

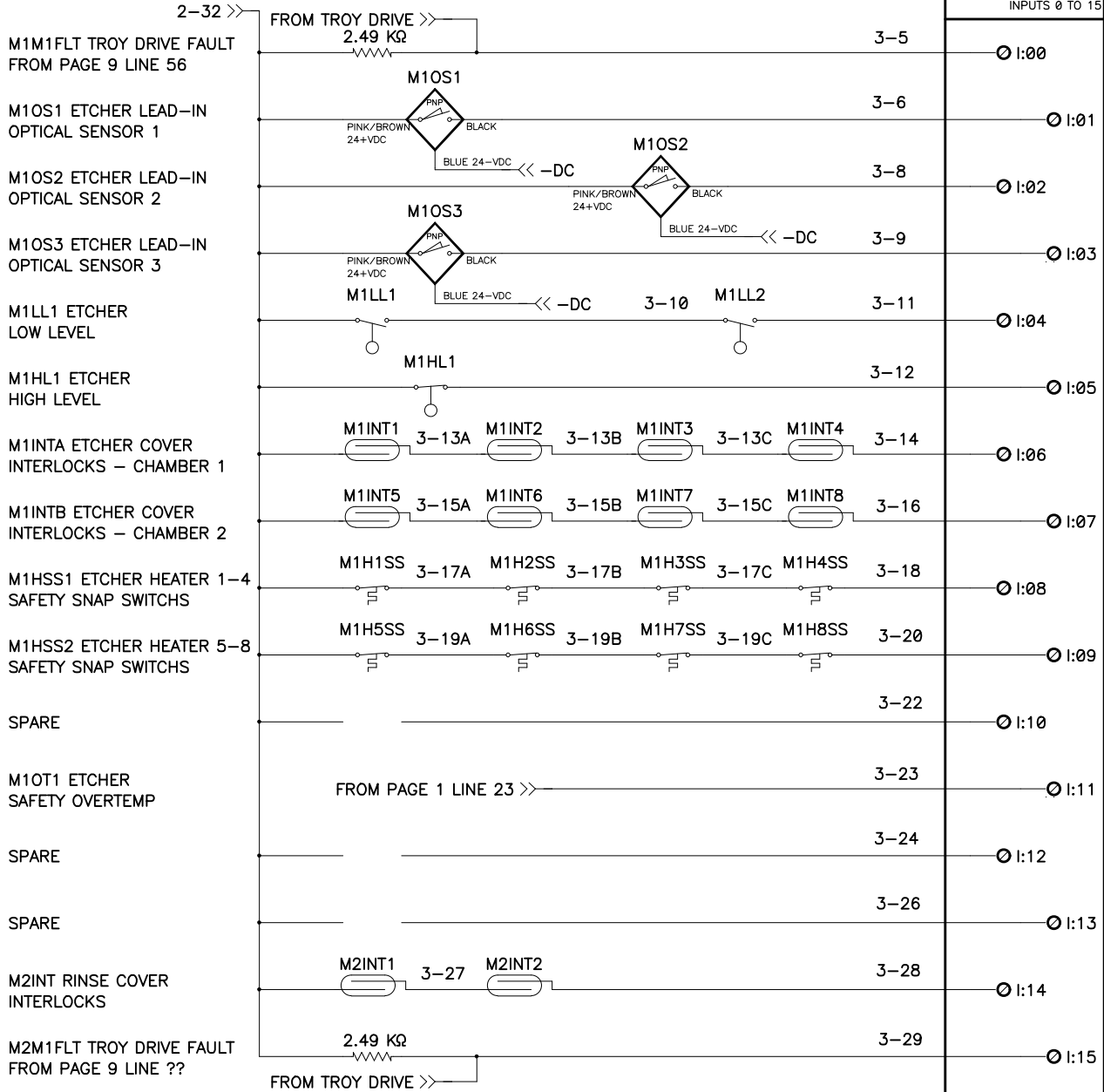
SHEET: 2 OF 11

SLOT 1  
DIGITAL IN

1769-IQ16  
16 INPUT CARD  
SLOT 1

AB 1769-IQ16  
LOCAL:  
INPUTS 0 TO 15

-DC



COM1

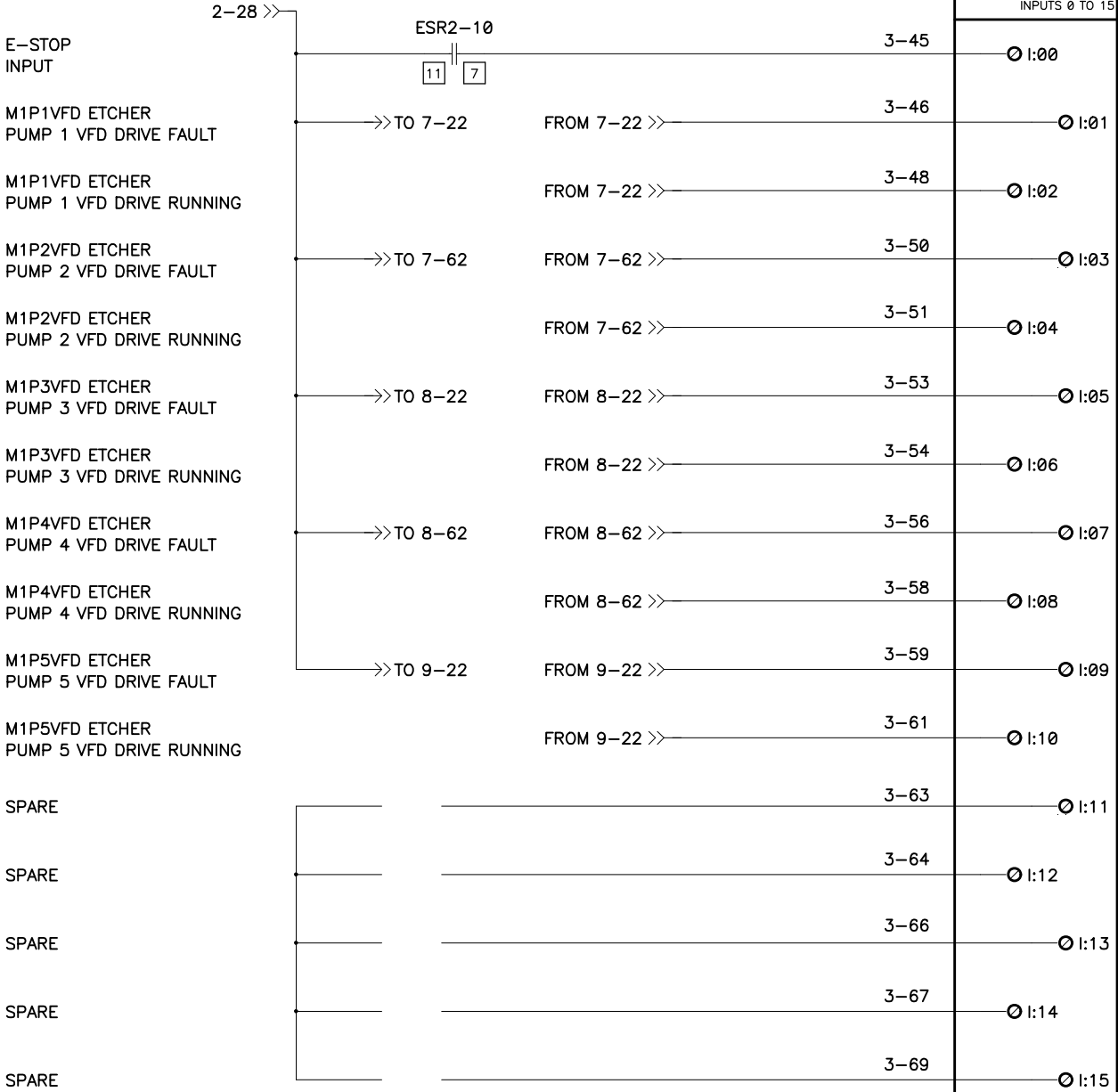
COM2

SLOT 2  
DIGITAL IN

1769-IQ16  
16 INPUT CARD  
SLOT 2

AB 1769-IQ16  
LOCAL:  
INPUTS 0 TO 15

-DC



COM1

COM2

TITLE: ATLAS DIE – ETCHER

Integrated Process Systems  
2183 W. Park Ave.  
Cedar City, UT 84721  
Phone: (435) 586-1188

DRAWN BY: PAUL MOSS

PROJECT NO: W6584

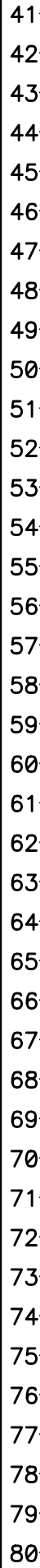
REV NO: C

CREATED: JULY 31, 2019

PRINTED: Fri Dec 27 2019

SHEET: 3 OF 11

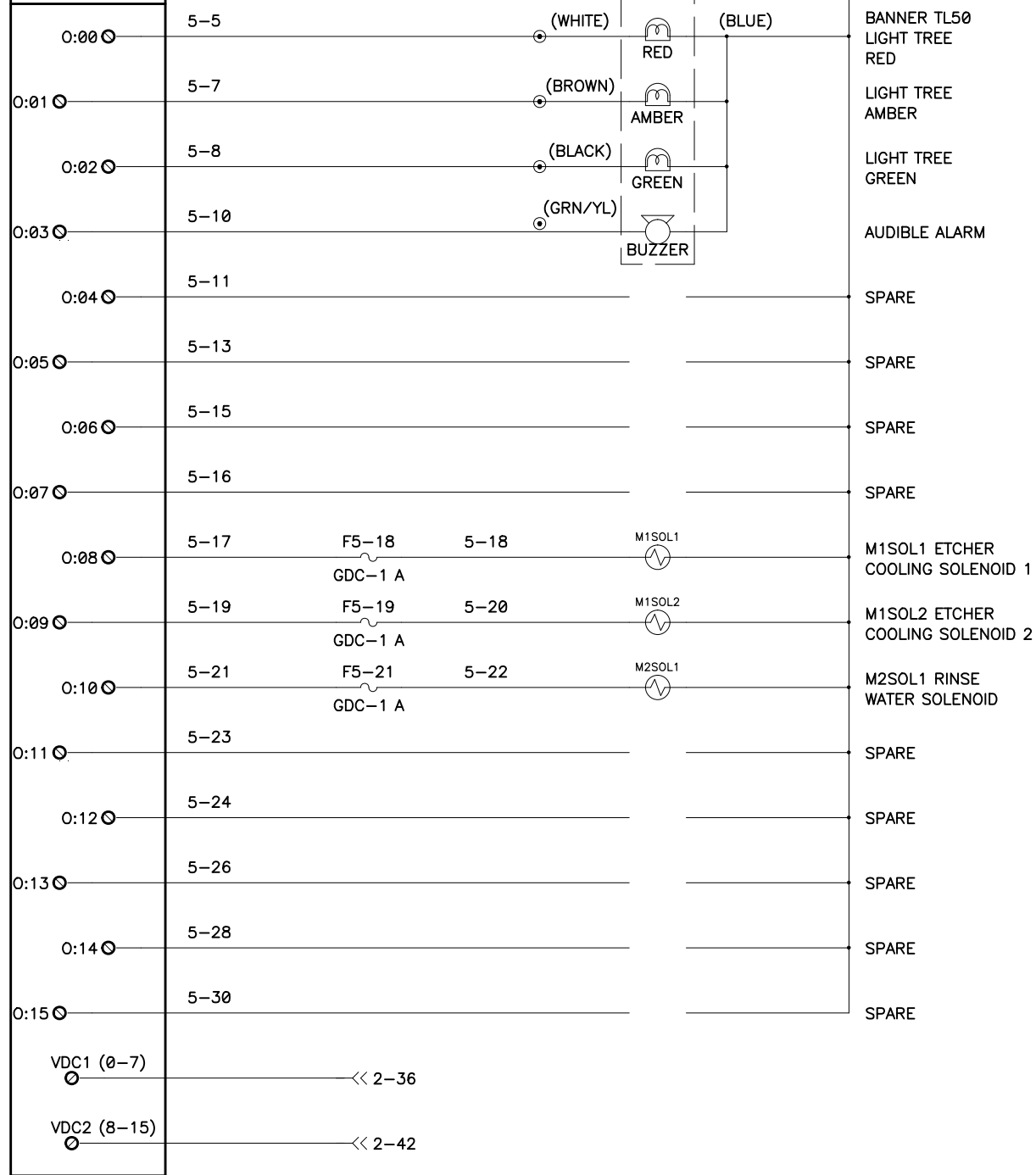
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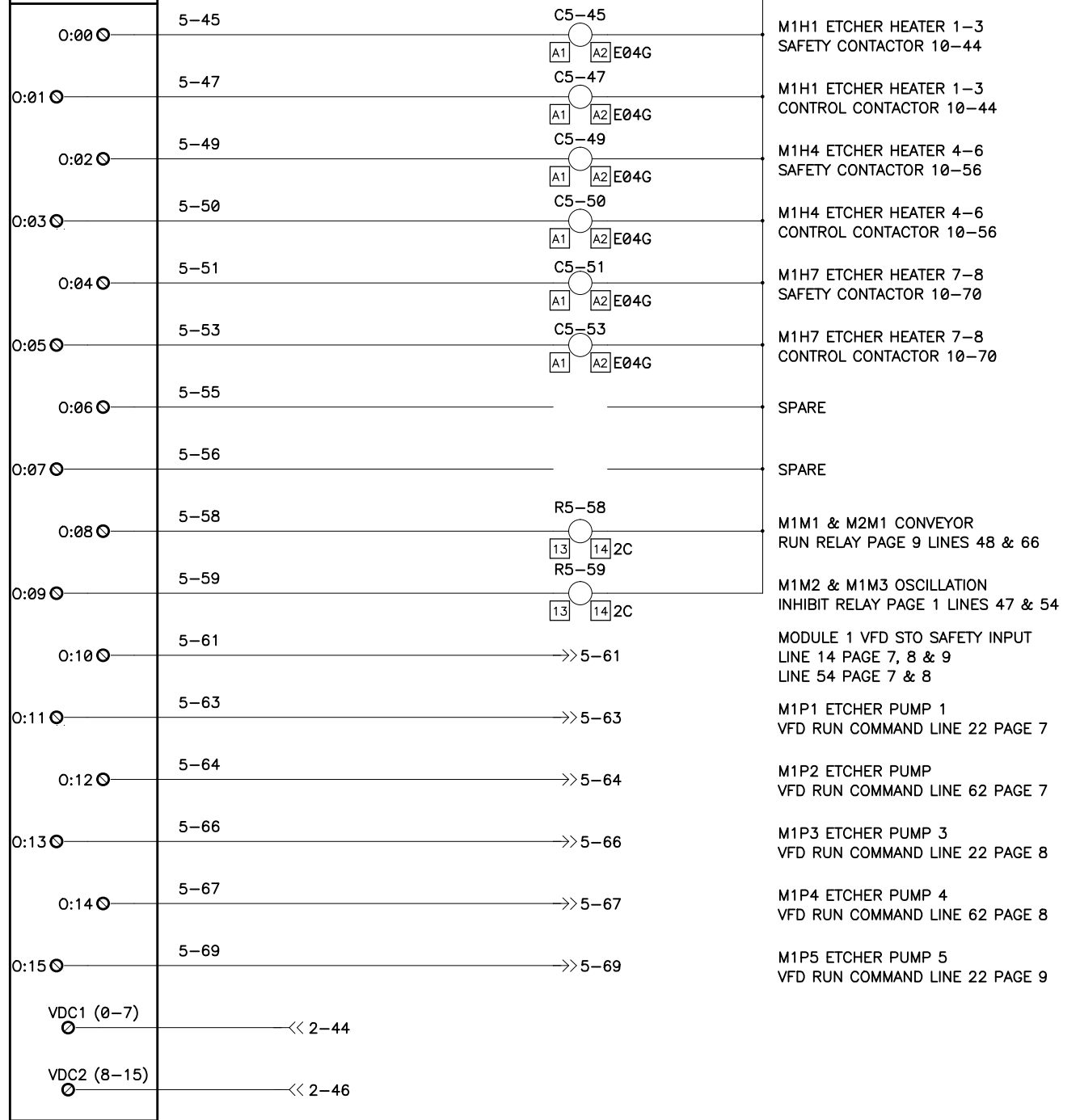
SLOT4

AB 1769-OW16  
LOCAL:  
OUTPUTS 0-15



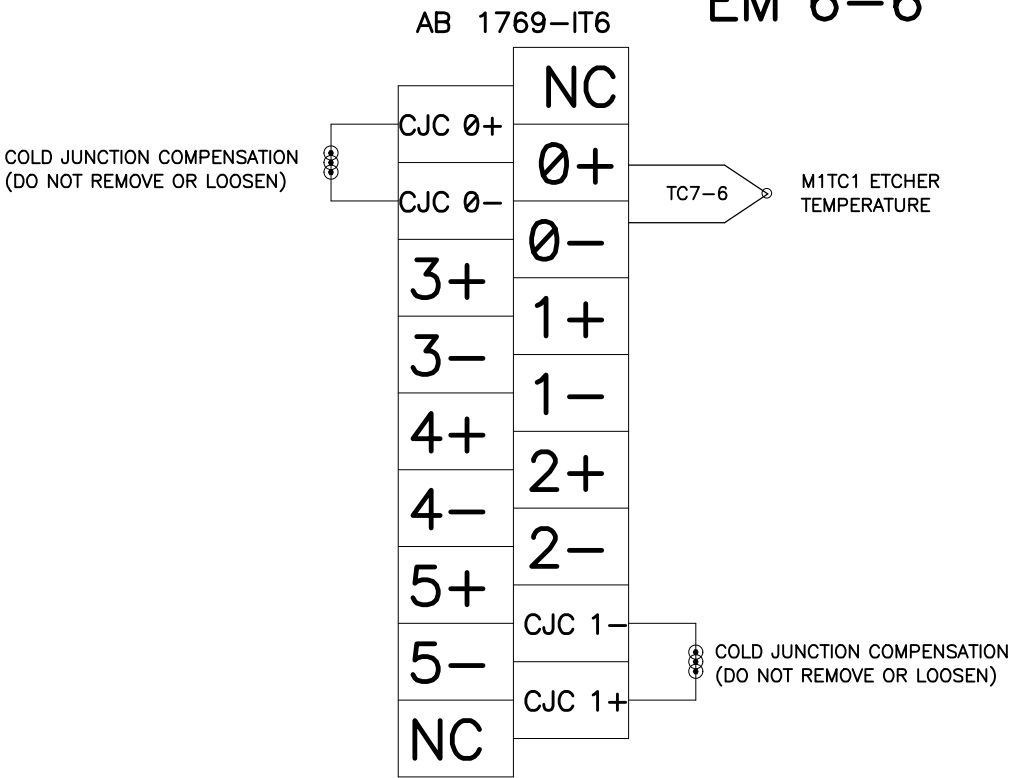
SLOT5

AB 1769-OW16  
LOCAL:  
OUTPUTS 0-15



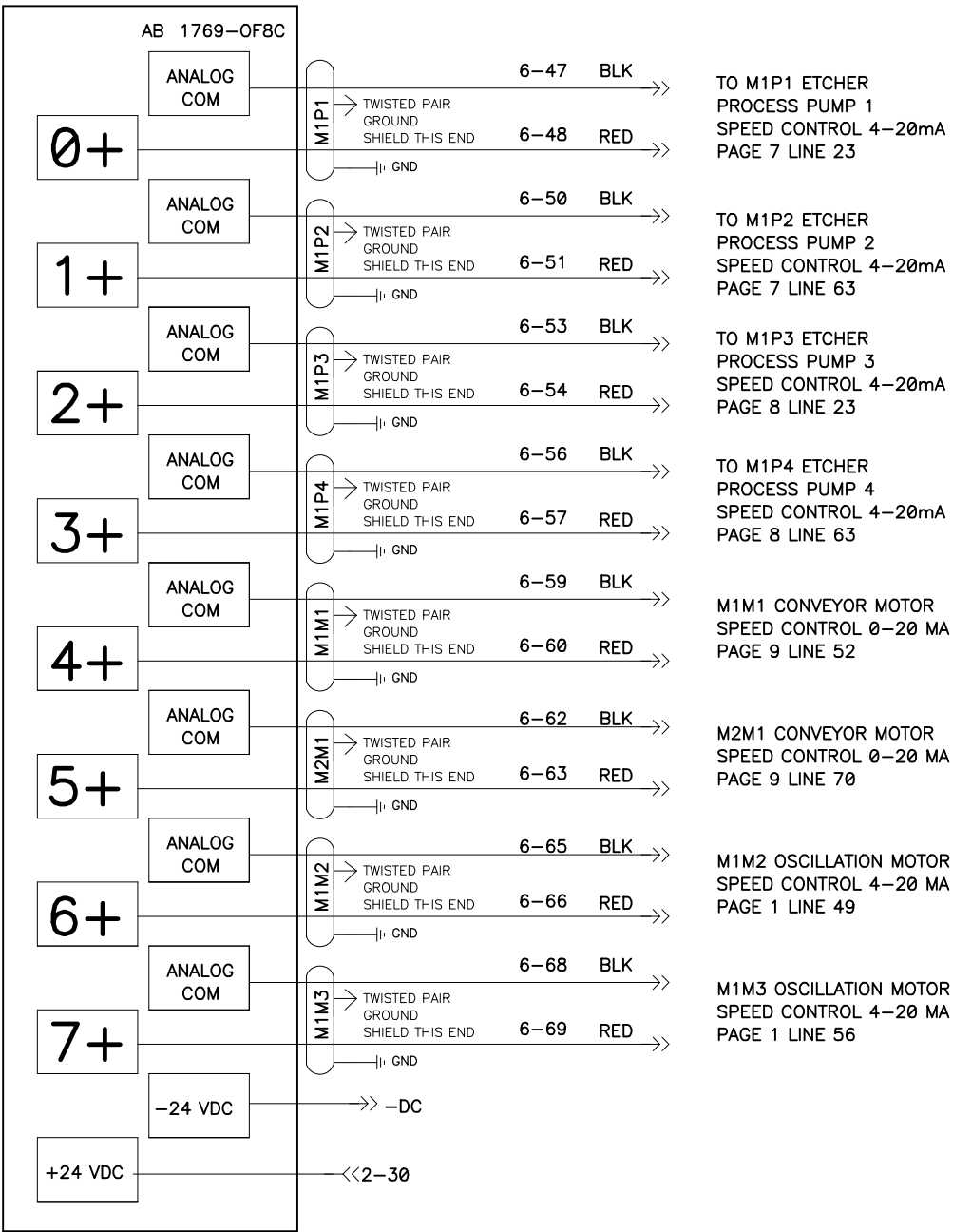
SLOT 6 THERMOCOUPLE

EM 6-6



SLOT 7  
ANALOG OUT

EM 6-46



TITLE: ATLAS DIE - ETCHER

Integrated Process Systems  
2183 W. Park Ave.  
Cedar City, UT 84721  
Phone: (435) 586-1188

DRAWN BY: PAUL MOSS

PROJECT NO: W6584

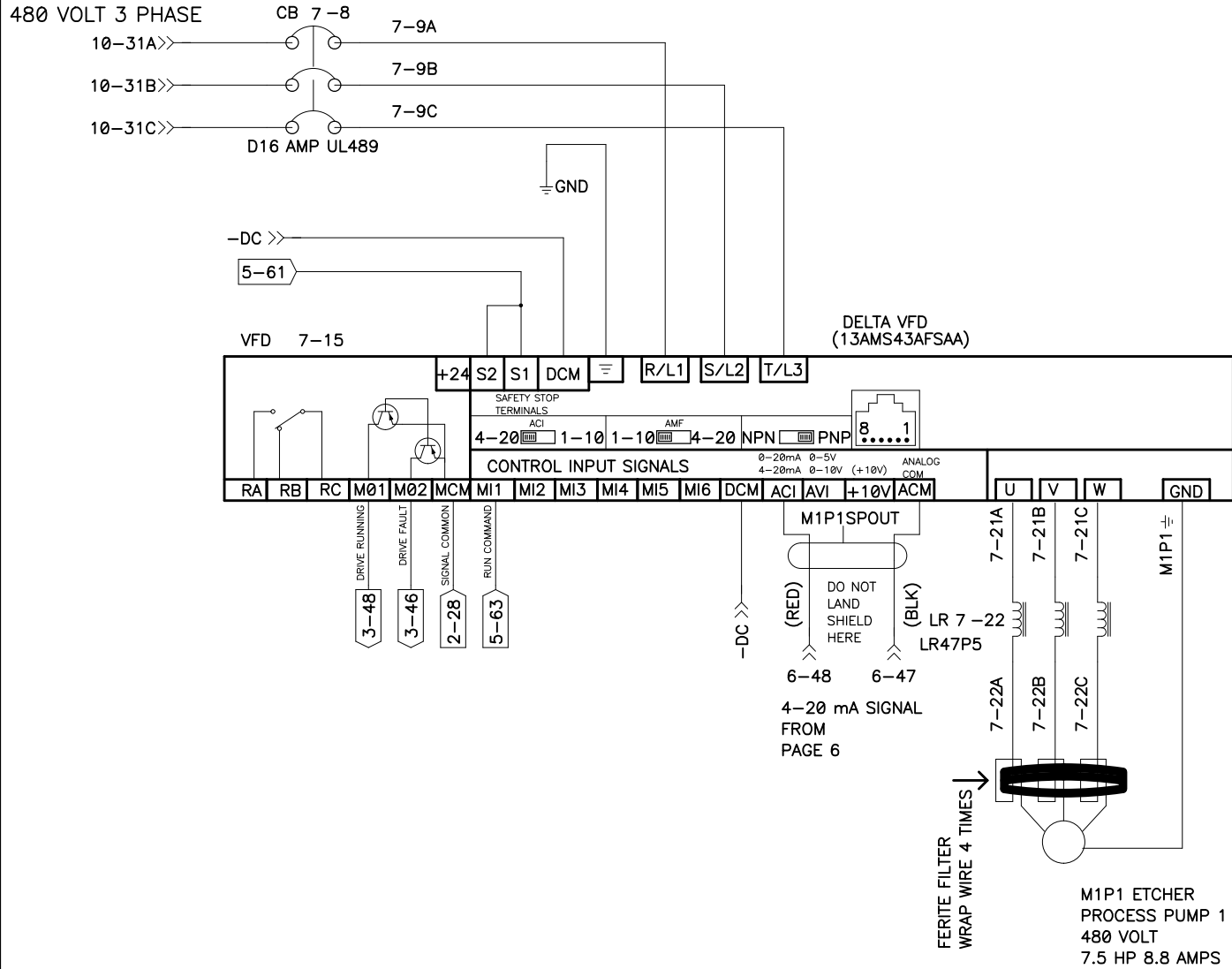
REV NO: C

CREATED: JULY 31, 2019

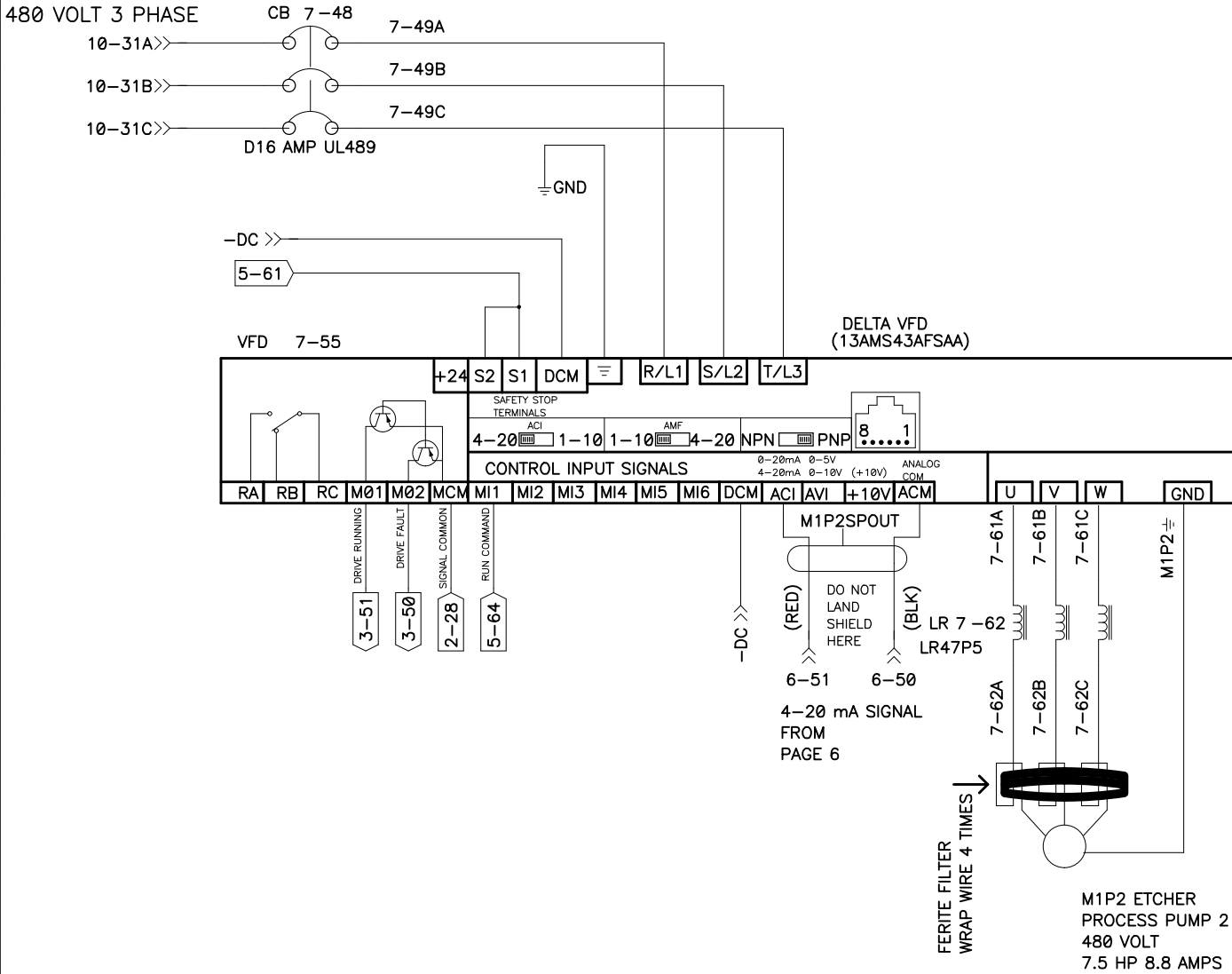
PRINTED: Fri Dec 27 2019

SHEET: 6 OF 11

7.5HP PUMP  
VFD SETTINGS  
00-17 = 2 CARRIER FREQ.  
00-20 = 2 SOURCE OF FREQ. COMMAND - EXT. ANLG  
00-21 = 1 SOURCE OF OPERATION - EXT TERM.  
00-22 = 1 STOP METHOD - COAST  
01-02 = 460 NAMEPLATE VOLTAGE OF MOTOR  
02-16 = 1 M01 INDICATE RUNNING  
02-17 = 11 M02 INDICATE VFD FAULT  
03-00 = 0 ANLG VOLTAGE INPUT DISABLED  
03-01 = 1 ANLG CURRENT INPUT ENABLED  
05-01 = 8.8 FLA OF MOTOR  
06-44 = 1 S.T.O NO LATCH  
07-19 = 1 FAN ON 1 MINUTE AFTER STOP



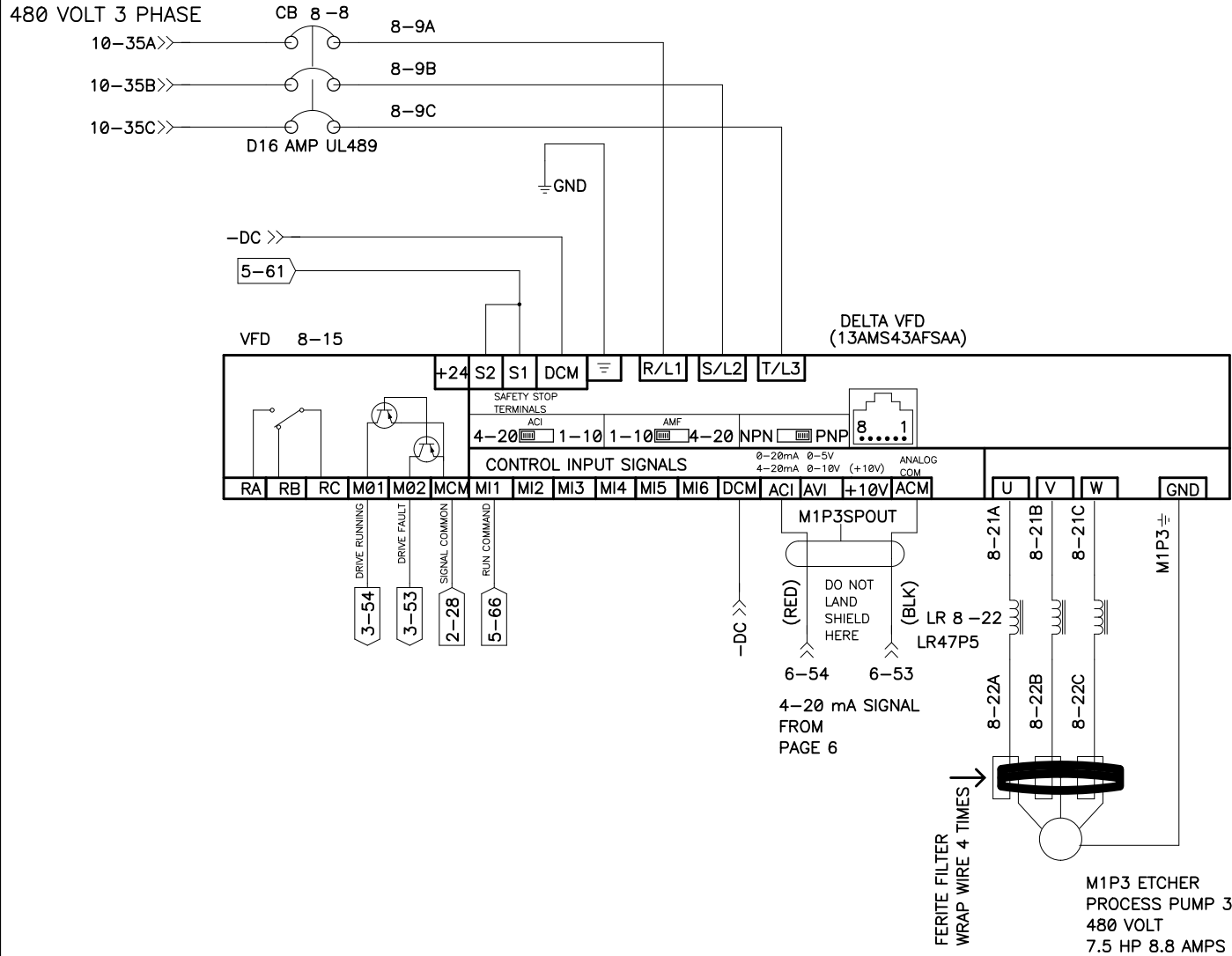
7.5HP PUMP  
VFD SETTINGS  
00-17 = 2 CARRIER FREQ.  
00-20 = 2 SOURCE OF FREQ. COMMAND - EXT. ANLG  
00-21 = 1 SOURCE OF OPERATION - EXT TERM.  
00-22 = 1 STOP METHOD - COAST  
01-02 = 460 NAMEPLATE VOLTAGE OF MOTOR  
02-16 = 1 M01 INDICATE RUNNING  
02-17 = 11 M02 INDICATE VFD FAULT  
03-00 = 0 ANLG VOLTAGE INPUT DISABLED  
03-01 = 1 ANLG CURRENT INPUT ENABLED  
05-01 = 8.8 FLA OF MOTOR  
06-44 = 1 S.T.O NO LATCH  
07-19 = 1 FAN ON 1 MINUTE AFTER STOP



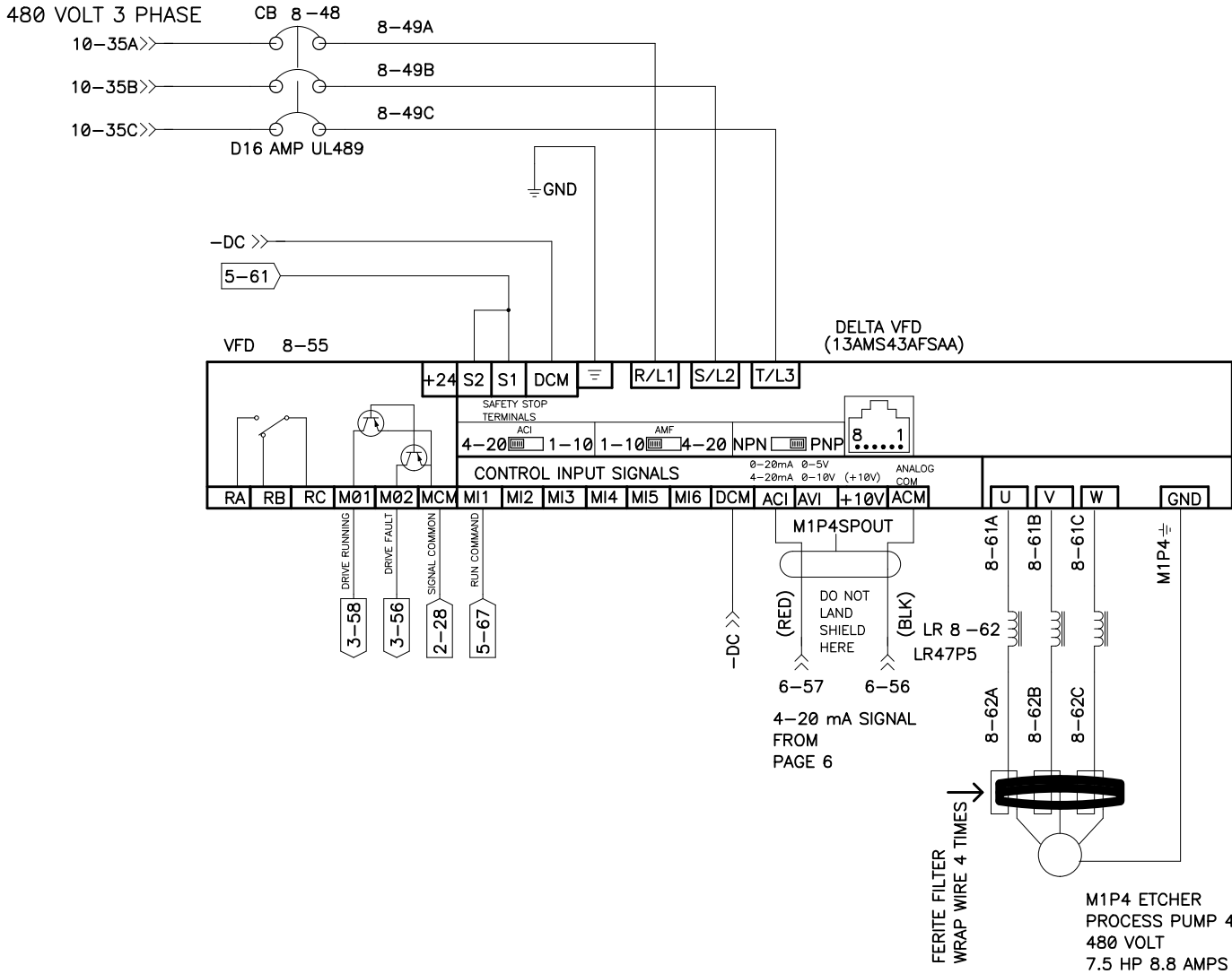
TITLE: ATLAS DIE - ETCHER

|                                                                                                  |                     |                          |
|--------------------------------------------------------------------------------------------------|---------------------|--------------------------|
| Integrated Process Systems<br>2183 W. Park Ave.<br>Cedar City, UT 84721<br>Phone: (435) 586-1188 | DRAWN BY: PAUL MOSS | CREATED: JULY 31, 2019   |
|                                                                                                  | PROJECT NO: W6584   | PRINTED: Fri Dec 27 2019 |
|                                                                                                  | REV NO: C           | SHEET: 7 OF 11           |

7.5HP PUMP  
VFD SETTINGS  
00-17 = 2 CARRIER FREQ.  
00-20 = 2 SOURCE OF FREQ. COMMAND - EXT. ANLG  
00-21 = 1 SOURCE OF OPERATION - EXT TERM.  
00-22 = 1 STOP METHOD - COAST  
01-02 = 460 NAMEPLATE VOLTAGE OF MOTOR  
02-16 = 1 M01 INDICATE RUNNING  
02-17 = 11 M02 INDICATE VFD FAULT  
03-00 = 0 ANLG VOLTAGE INPUT DISABLED  
03-01 = 1 ANLG CURRENT INPUT ENABLED  
05-01 = 8.8 FLA OF MOTOR  
06-44 = 1 S.T.O NO LATCH  
07-19 = 1 FAN ON 1 MINUTE AFTER STOP



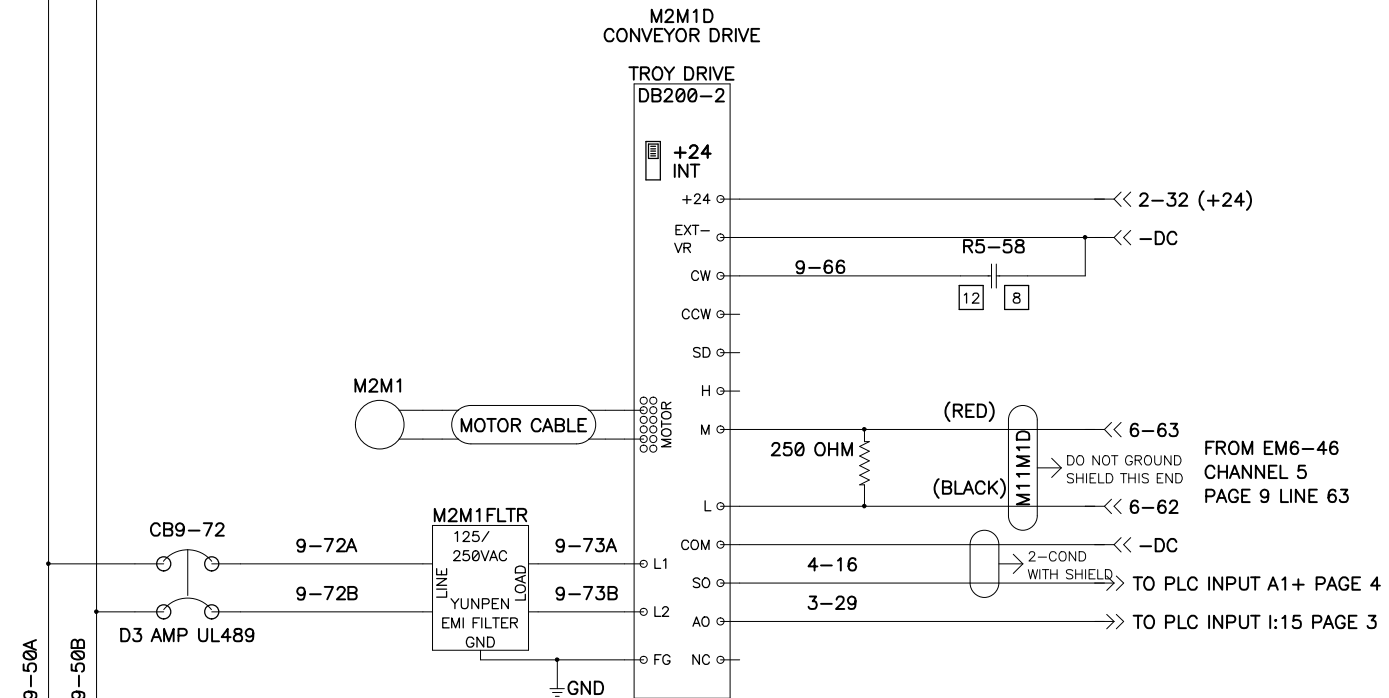
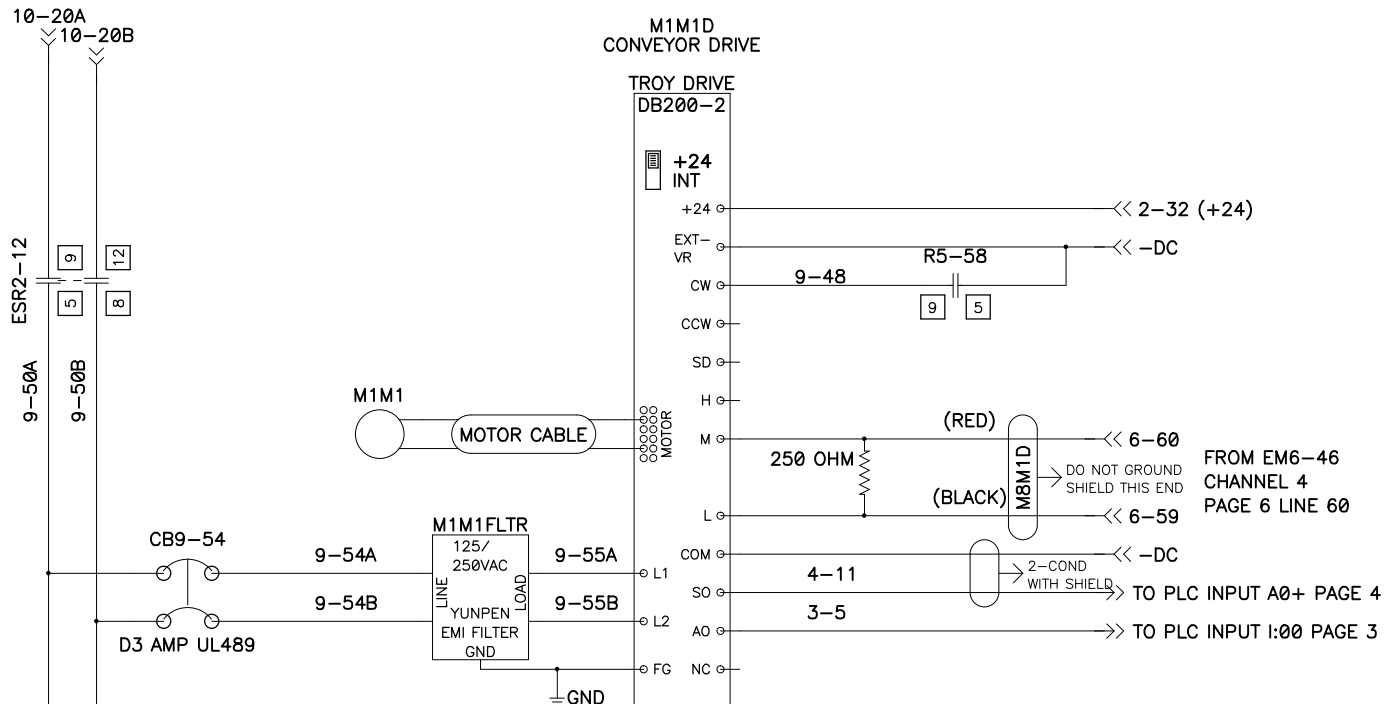
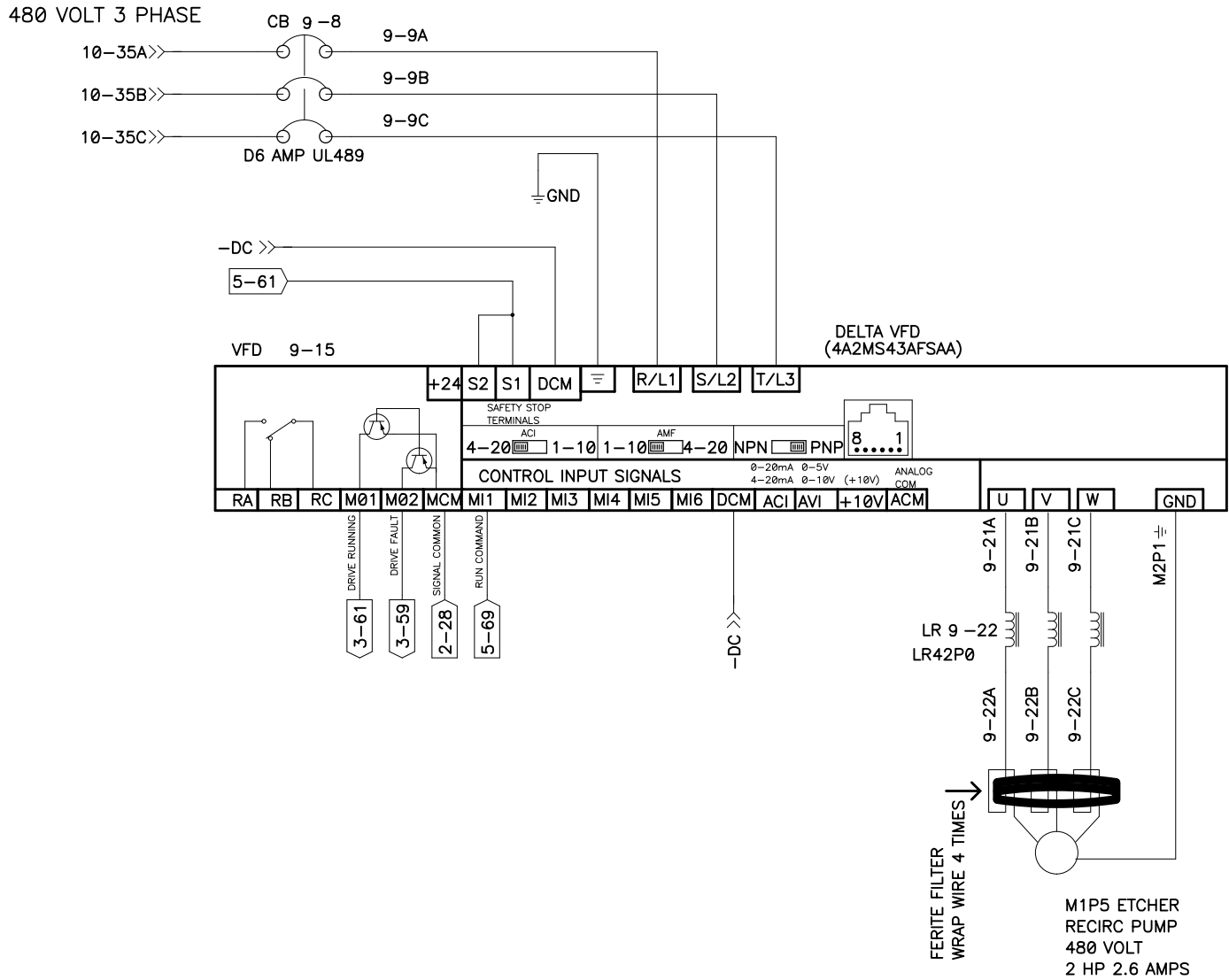
7.5HP PUMP  
VFD SETTINGS  
00-17 = 2 CARRIER FREQ.  
00-20 = 2 SOURCE OF FREQ. COMMAND - EXT. ANLG  
00-21 = 1 SOURCE OF OPERATION - EXT TERM.  
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01-02 = 460 NAMEPLATE VOLTAGE OF MOTOR  
02-16 = 1 M01 INDICATE RUNNING  
02-17 = 11 M02 INDICATE VFD FAULT  
03-00 = 0 ANLG VOLTAGE INPUT DISABLED  
03-01 = 1 ANLG CURRENT INPUT ENABLED  
05-01 = 8.8 FLA OF MOTOR  
06-44 = 1 S.T.O NO LATCH  
07-19 = 1 FAN ON 1 MINUTE AFTER STOP



TITLE: ATLAS DIE - ETCHER

|                                                                                                  |                     |                          |
|--------------------------------------------------------------------------------------------------|---------------------|--------------------------|
| Integrated Process Systems<br>2183 W. Park Ave.<br>Cedar City, UT 84721<br>Phone: (435) 586-1188 | DRAWN BY: PAUL MOSS | CREATED: JULY 31, 2019   |
|                                                                                                  | PROJECT NO: W6584   | PRINTED: Fri Dec 27 2019 |
|                                                                                                  | REV NO: C           | SHEET: 8 OF 11           |

2HP PUMP  
VFD SETTINGS  
00-17 = 2 CARRIER FREQ.  
00-20 = 0 SOURCE OF FREQ. COMMAND - KEYPAD  
00-21 = 1 SOURCE OF OPERATION - EXT TERM.  
00-22 = 1 STOP METHOD - COAST  
01-02 = 460 NAMEPLATE VOLTAGE OF MOTOR  
02-16 = 1 M01 INDICATE RUNNING  
02-17 = 11 M02 INDICATE VFD FAULT  
05-01 = 2.6 FLA OF MOTOR  
06-44 = 1 S.T.O NO LATCH  
07-19 = 1 FAN ON 1 MINUTE AFTER STOP



| TITLE: ATLAS DIE - ETCHER                                                                        |                     |                          |
|--------------------------------------------------------------------------------------------------|---------------------|--------------------------|
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|                                                                                                  | REV NO: C           | SHEET: 9 OF 11           |

INTEGRATED PROCESS SYSTEMS

The diagram is a single-line electrical schematic for the Atlas Die - Etcher system. It shows the power distribution from a 480VAC 3-phase source through a 125AMP main breaker (CB10-4) to various loads. The loads include a 3 KVA transformer (T9-8) for neutrals, a cabinet A/C unit, PLC power, 24VDC power, TROY drive and oscillation power, and eight M1H etcher heaters. The heaters are connected through a series of breakers (CB10-44 to CB10-74) and fuses (10-44A to 10-74A). The diagram also shows the connection to a right column on page 10.

**480VAC 3 PHASE**

**125AMP**

**GROUND**

**10-8A**

**10-8B**

**10-8C**

**10-8D**

**10-8E**

**10-8F**

**10-8G**

**10-8H**

**10-8I**

**10-8J**

**10-8K**

**10-8L**

**10-8M**

**10-8N**

**10-8O**

**10-8P**

**10-8Q**

**10-8R**

**10-8S**

**10-8T**

**10-8U**

**10-8V**

**10-8W**

**10-8X**

**10-8Y**

**10-8Z**

**10-9A**

**10-9B**

**10-9C**

**10-9D**

**10-9E**

**10-9F**

**10-9G**

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**10-9X**

**10-9Y**

**10-9Z**

**10-10A**

**10-10B**

**10-10C**

**10-10D**

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**10-10R**

**10-10S**

**10-10T**

**10-10U**

**10-10V**

**10-10W**

**10-10X**

**10-10Y**

**10-10Z**

**10-11A**

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**10-11C**

**10-11D**

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**10-12Q**

**10-12R**

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**10-12U**

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**10-15Q**

**10-15R**

**10-15S**

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**10-15U**

**10-15V**

**10-15W**

**10-15X**

**10-15Y**

**10-15Z**

**10-16A**

**10-16B**

**10-16C**

**10-16D**

**10-16E**

**10-16F**

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**10-16I**

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**10-16N**

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**10-16P**

**10-16Q**

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**10-17F**

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**10-17H**

**10-17I**

**10-17J**

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**10-17L**

**10-17M**

**10-17N**

**10-17O**

**10-17P**

**10-17Q**

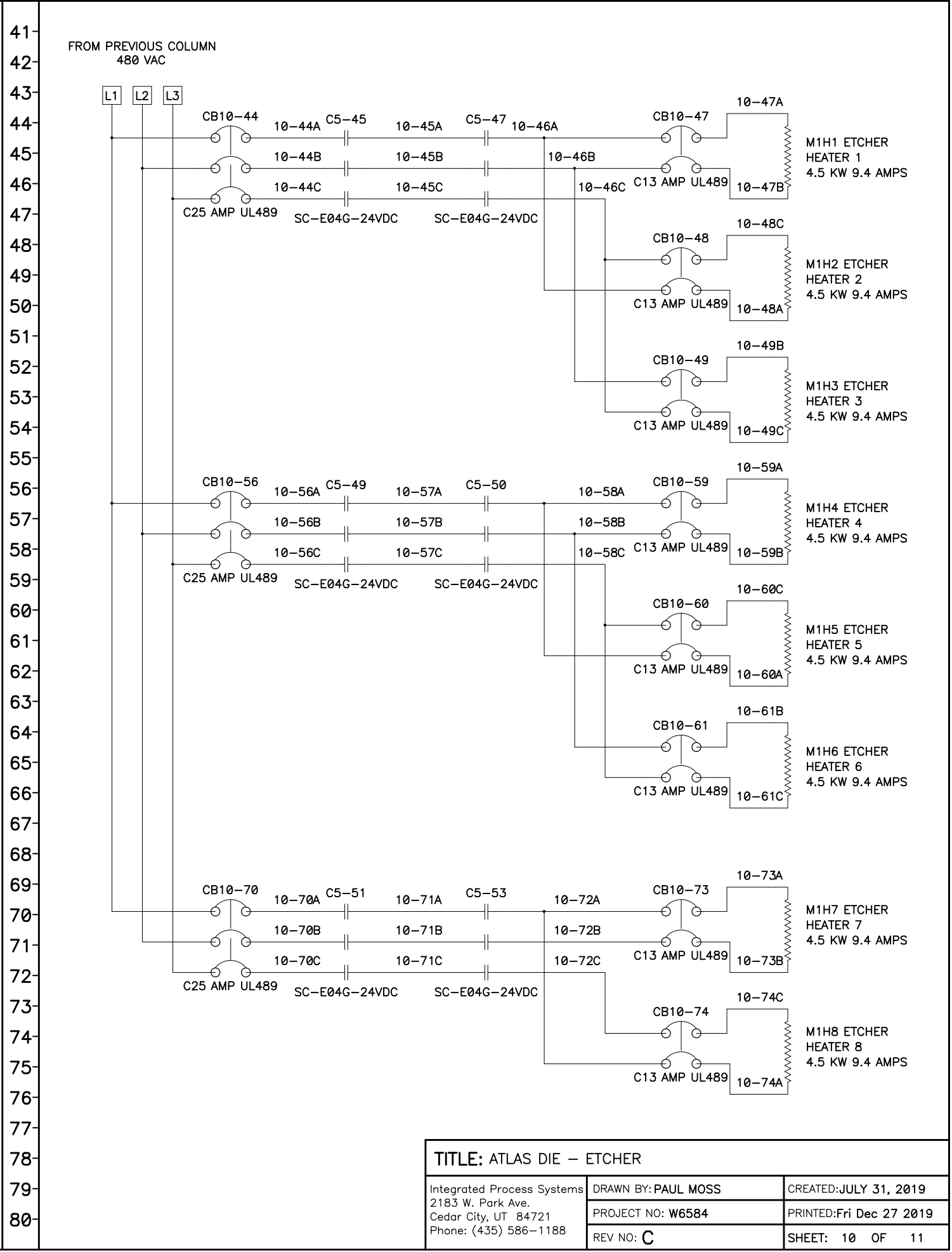
**10-17R**

**10-17S**

**10-17T**

**10-17U**

**10-17V**</



|    |  |                                                                                                  |                     |                          |
|----|--|--------------------------------------------------------------------------------------------------|---------------------|--------------------------|
| 78 |  | TITLE: ATLAS DIE – ETCHER                                                                        |                     |                          |
| 79 |  | Integrated Process Systems<br>2183 W. Park Ave.<br>Cedar City, UT 84721<br>Phone: (435) 586–1188 | DRAWN BY: PAUL MOSS | CREATED: JULY 31, 2019   |
| 80 |  |                                                                                                  | PROJECT NO: W6584   | PRINTED: Fri Dec 27 2019 |
|    |  |                                                                                                  | REV NO: C           | SHEET: 10 OF 11          |

SLOT 8 ANALOG IN      EM 11-6

AB 1769-IF8

