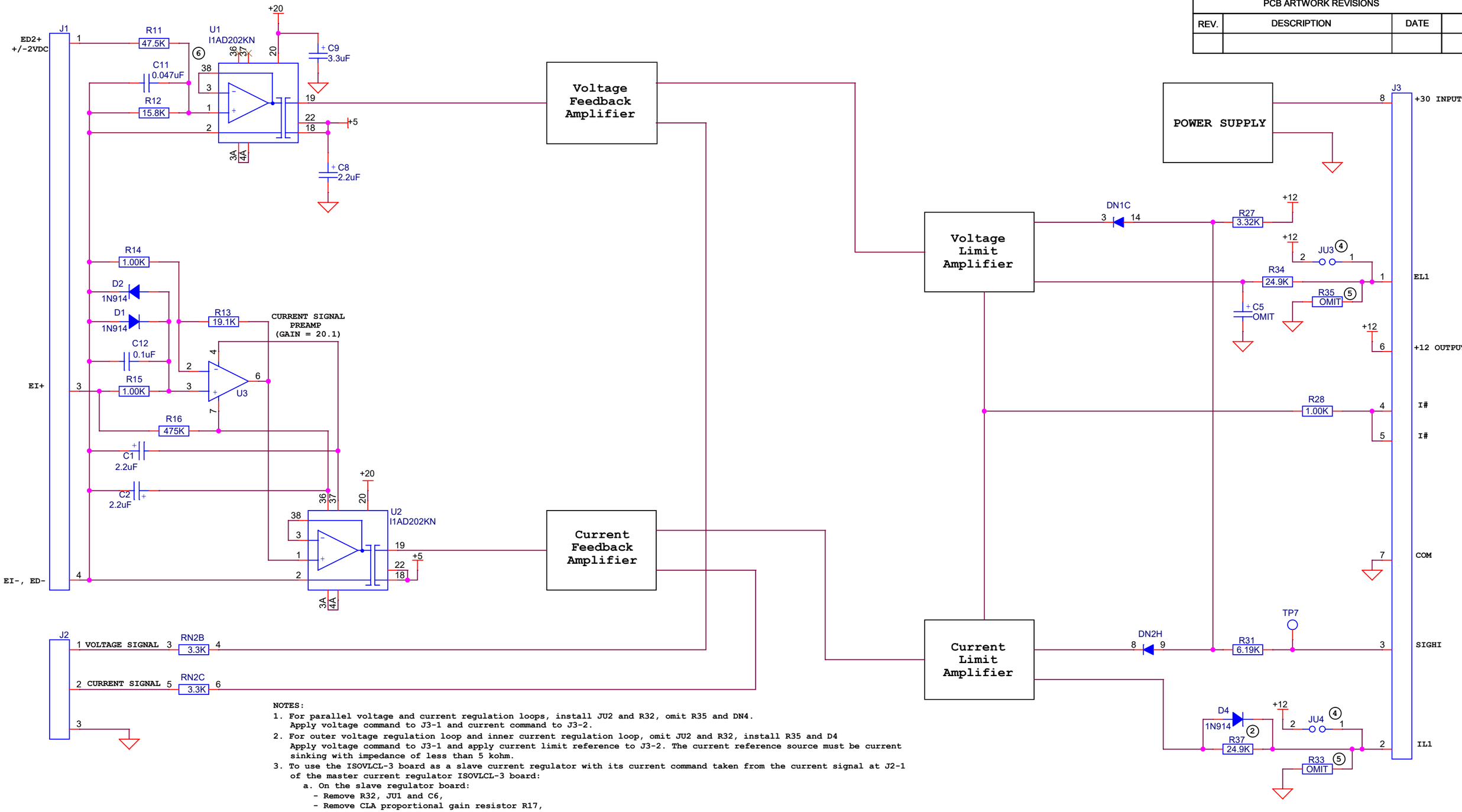
PCB ARTWORK REVISIONS			
REV.	DESCRIPTION	DATE	



NOTES:

1. For parallel voltage and current regulation loops, install JU2 and R32, omit R35 and DN4.
   Apply voltage command to J3-1 and current command to J3-2.
2. For outer voltage regulation loop and inner current regulation loop, omit JU2 and R32, install R35 and D4
   Apply voltage command to J3-1 and apply current limit reference to J3-2. The current reference source must be current sinking with impedance of less than 5 kohm.
3. To use the ISOVLCL-3 board as a slave current regulator with its current command taken from the current signal at J2-1 of the master current regulator ISOVLCL-3 board:
   a. On the slave regulator board:
      - Remove R32, JU1 and C6,
      - Remove CLA proportional gain resistor R17,
      - Set the voltage command pot to 100%.
   b. On the master regulator board:
      - Configure parallel voltage and current regulation loops by installing JU2 and R34 and removing R33 and D4.
      - Set the voltage command pot to the desired voltage (with the current command pot set to 100%) or set the current command pot to the desired current(with the voltage command pot set to the desired voltage).
4. Install JU3 and JU4 for on-board voltage and current commands.
5. Install 249 ohm burden resistors R23 and R33 when applying 4-20 mA voltage or current command signals
6. Select R12 and the external attenuator resistor to get 1.5 Vdc voltage feedback signal at the junction of R11 and R12
7. Revision B of the ISOVLCL-3 featues a dedicated, on-board 12V supply powered from the +30V input on J3-8. Earlier revisions of the ISOVLCL-3 required an external 12V supply. To avoid potential equipment damage, ensure that the 12V output at J3-6 is not connected to an external 12V supply (such as the aux supply from an Enerpro firing board).

ENERPRO GOLETA, CA

Title: VOLTAGE AND CURRENT REGULATOR WITH ISOLATED FEEDBACK

Size	Document Number	Rev
B	ISOVLCL-3 - E1443	B

Date: Tuesday, April 02, 2019 Sheet 1 of 1