

1	2	3	4	5	6
A					A
B					B
C					C
D					D
1	2	3	4	5	6

Sheet: PC/IF

File: PC_IF.sch
Sheet: Instruction ROM

Sheet: Instruction RAM Address

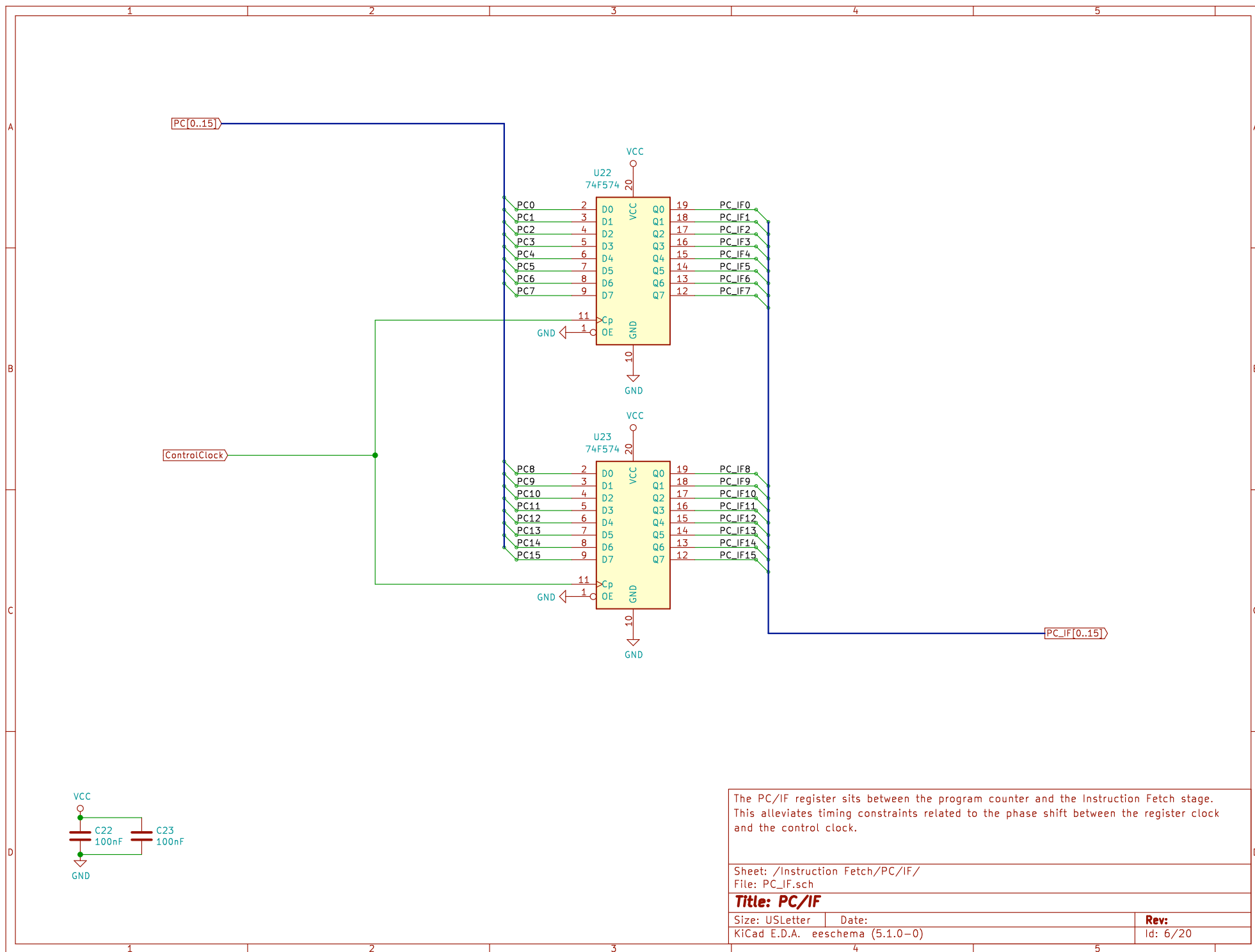
File: Instruction RAM Address.sch
Sheet: Instruction RAM

File: Instruction ROM.sch
Sheet: Instruction Register

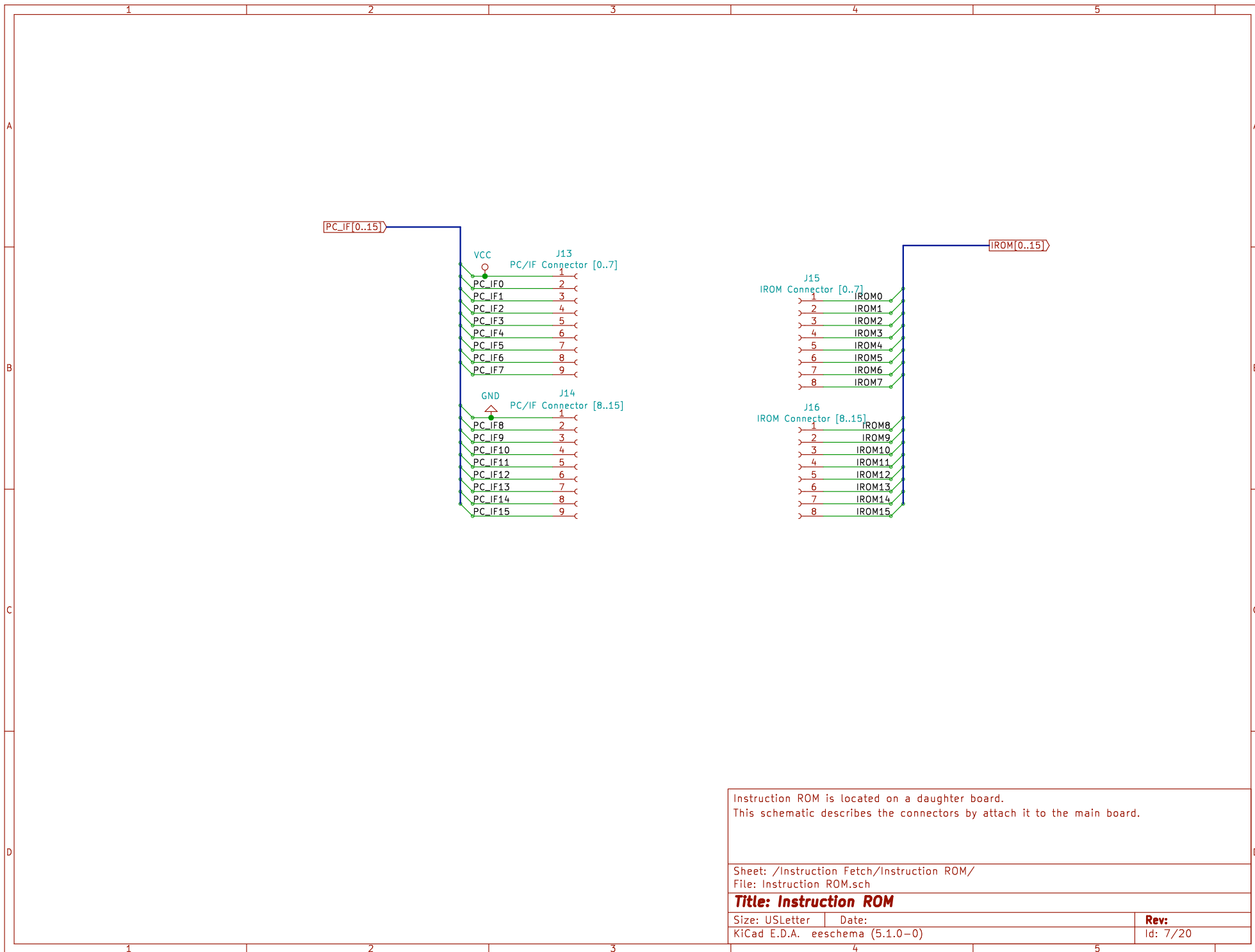
File: Instruction RAM.sch

File: Instruction Register.sch

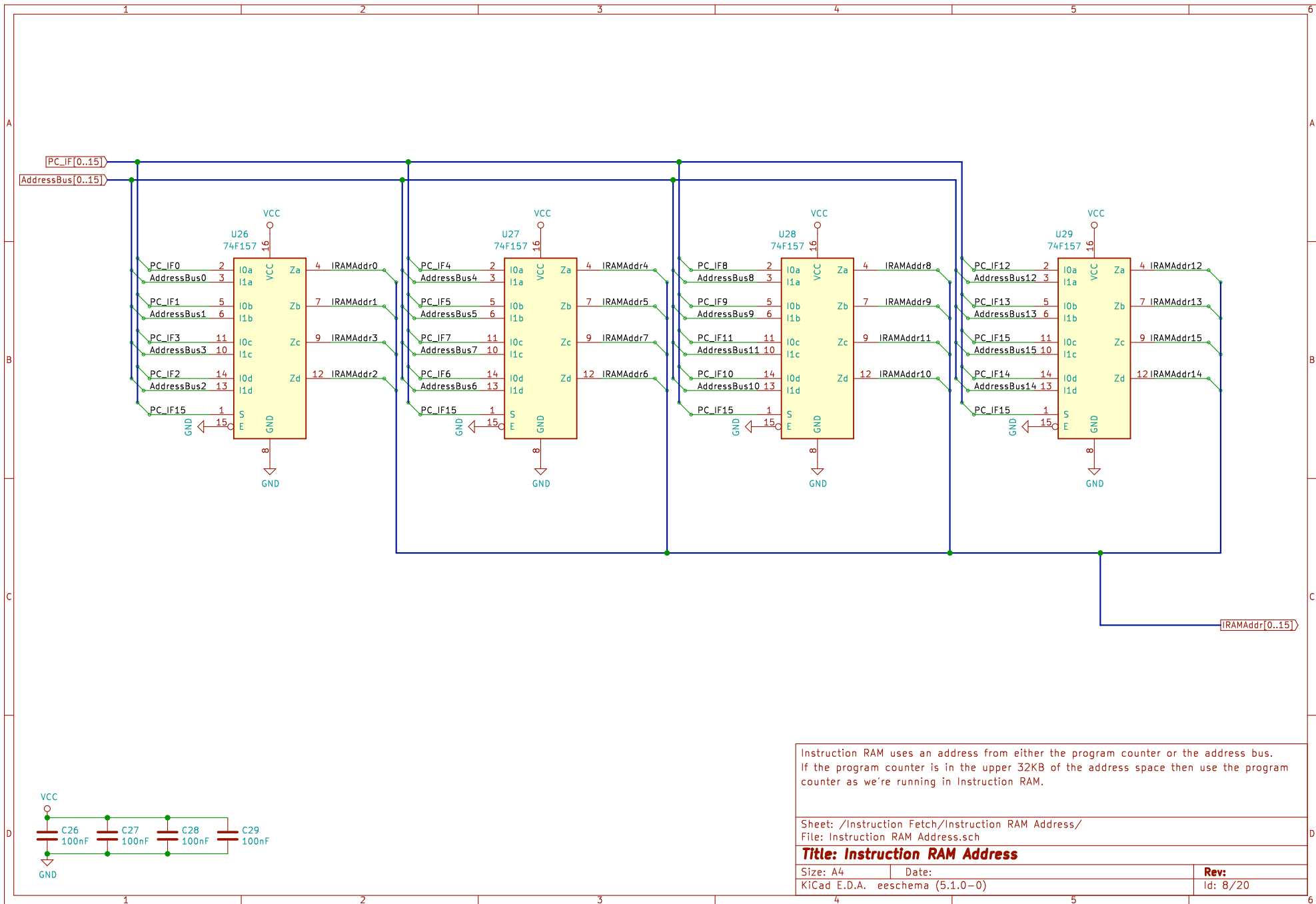
Instructions can be fetched from either Instruction ROM or Instruction RAM. The lower 32KB of the address space is mapped to ROM, the remainder to RAM.		
Sheet: /Instruction Fetch/ File: Instruction Fetch.sch		
Title: Instruction Fetch		
Size: A4	Date:	Rev:
KiCad E.D.A. eeschema (5.1.0-0)		Id: 5/20

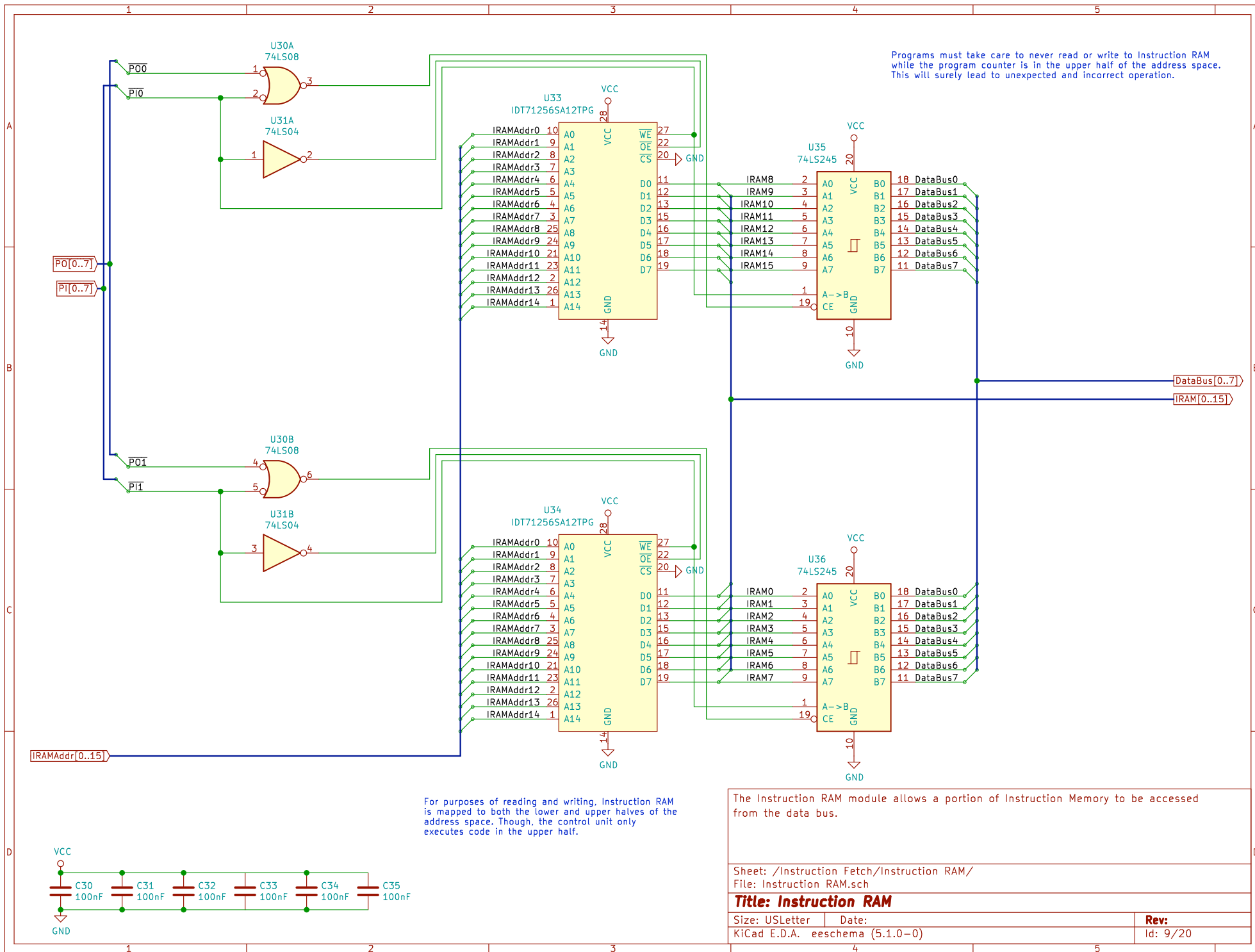


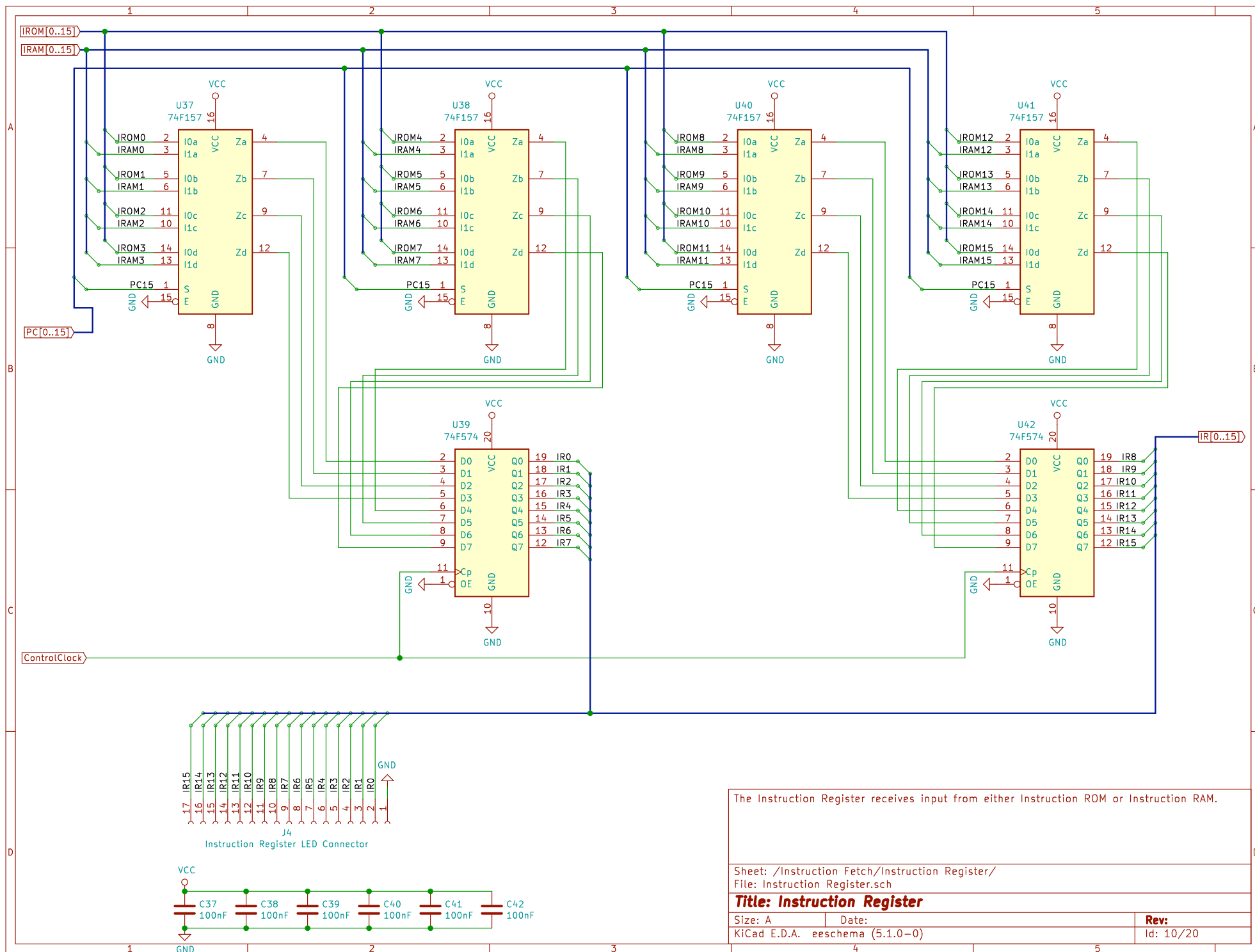
The PC/IF register sits between the program counter and the Instruction Fetch stage. This alleviates timing constraints related to the phase shift between the register clock and the control clock.	
Sheet: /Instruction Fetch/PC/IF/ File: PC_IF.sch	
Title: PC/IF	
Size: USLetter	Date:
KiCad E.D.A. eeschema (5.1.0-0)	
Rev:	
Id: 6/20	

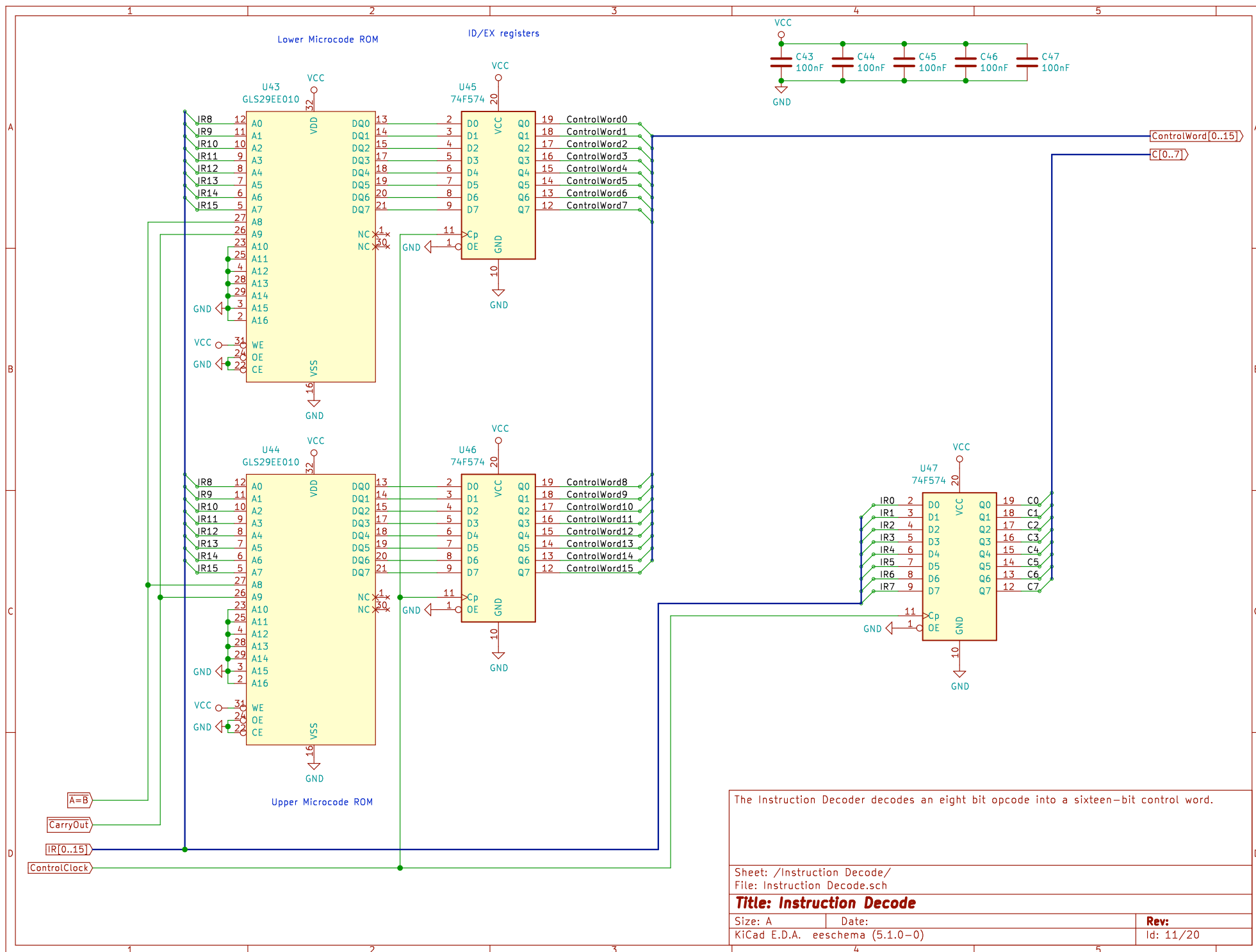


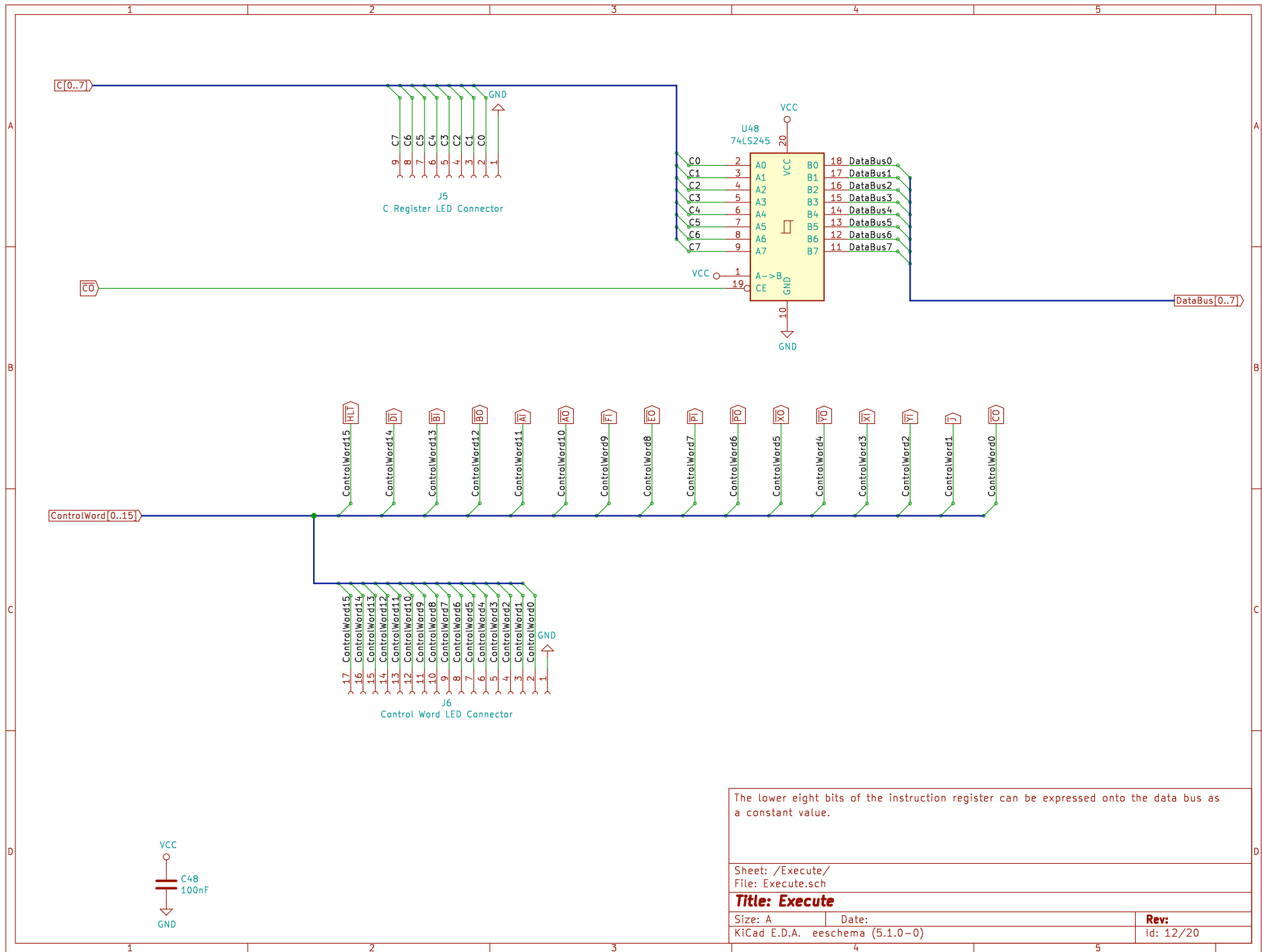
Instruction ROM is located on a daughter board. This schematic describes the connectors to attach it to the main board.		
Sheet: /Instruction Fetch/Instruction ROM/ File: Instruction ROM.sch		
Title: Instruction ROM		
Size: USLetter	Date:	Rev:
KiCad E.D.A. eeschema (5.1.0-0)		Id: 7/20

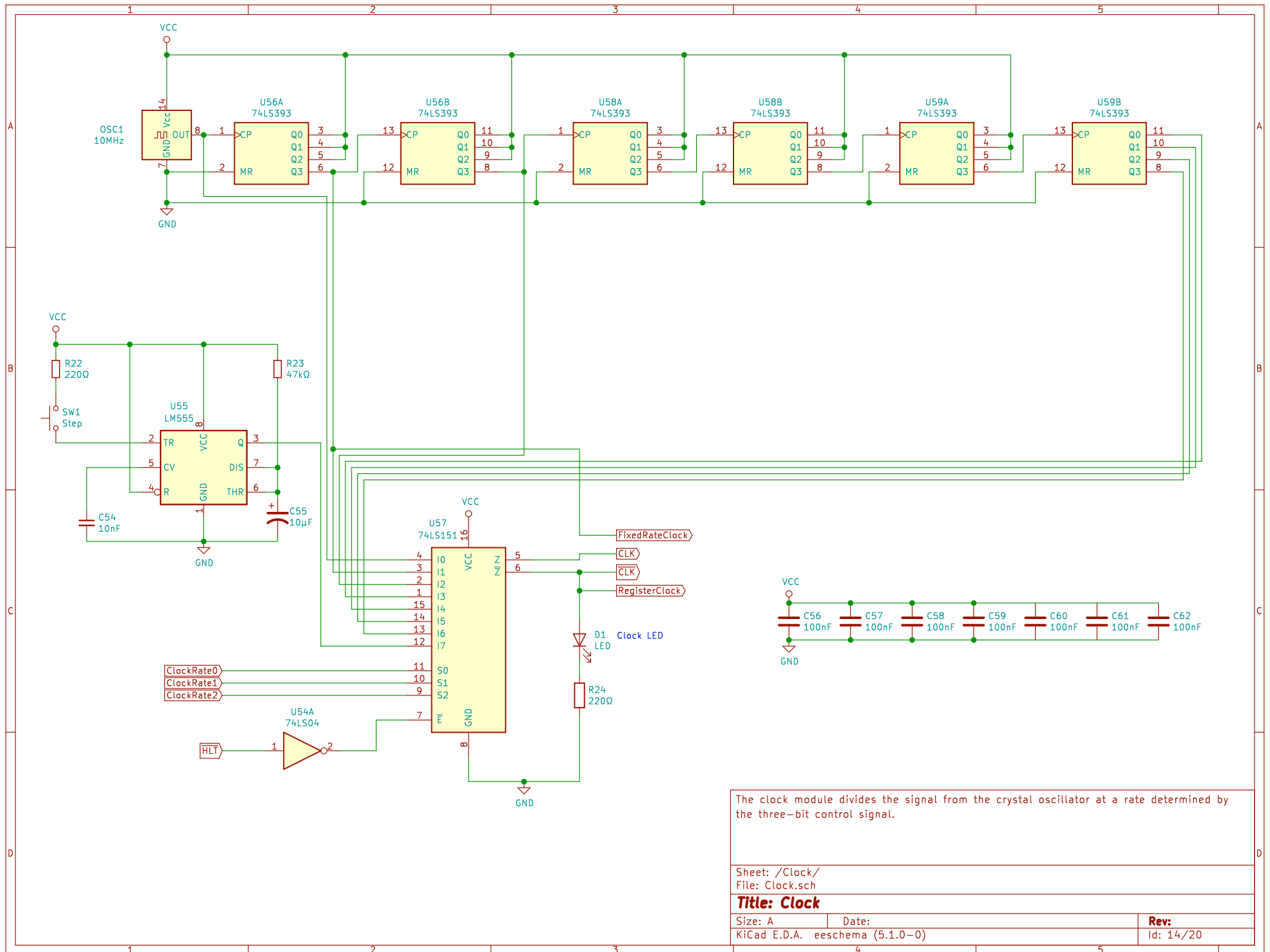


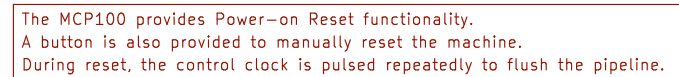




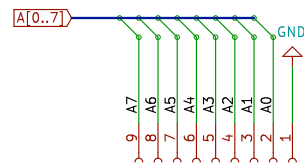
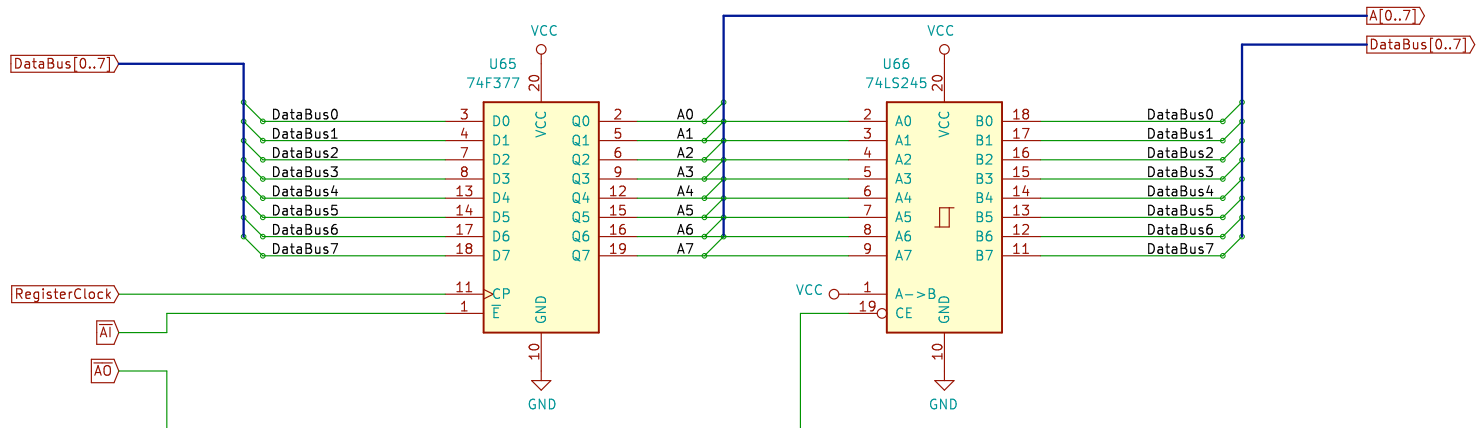




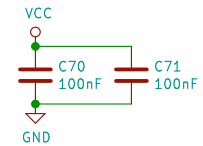




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J8
A Register LED Connector



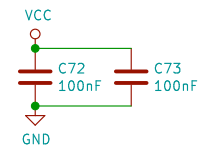
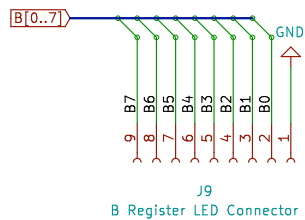
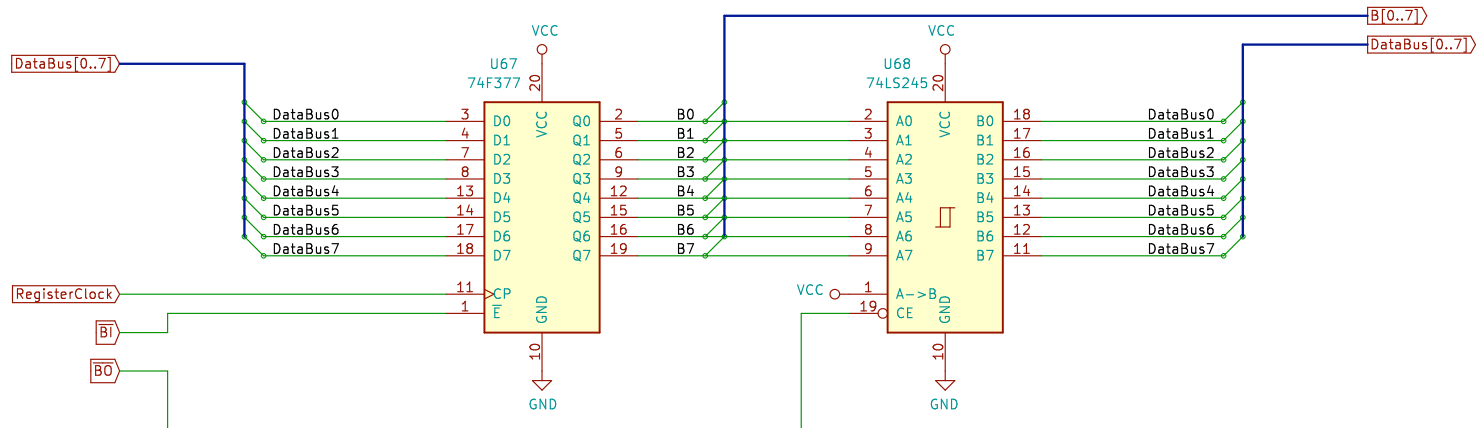
Register A is wired to the ALU's A operand.

Sheet: /Register A/
File: Register A.sch

Title: Register A

Size: A Date:
KiCad E.D.A. eeschema (5.1.0-0)

Rev:
Id: 16/20



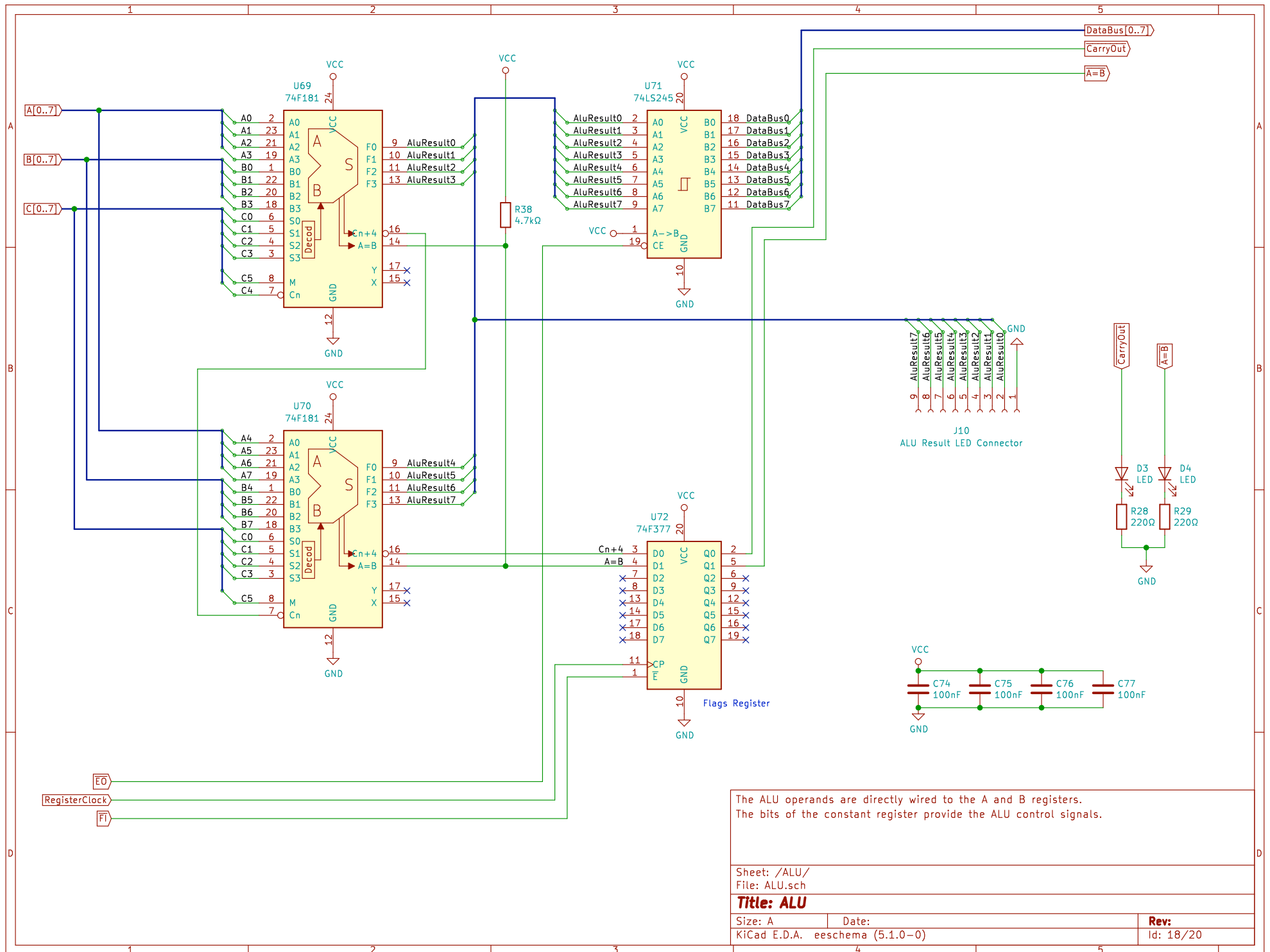
Register B is wired to the ALU's B operand.

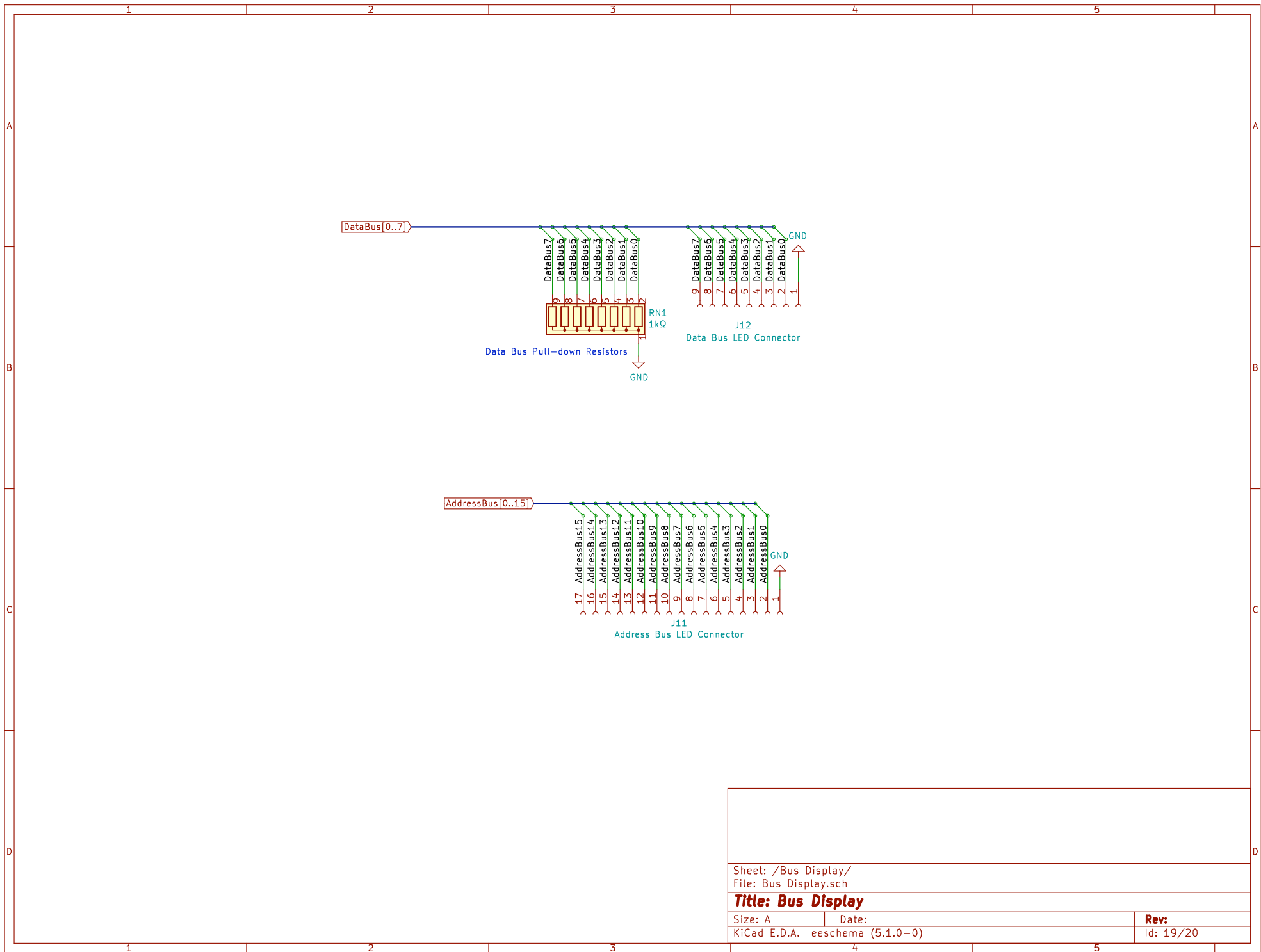
Sheet: /Register B/
File: Register B.sch

Title: Register B

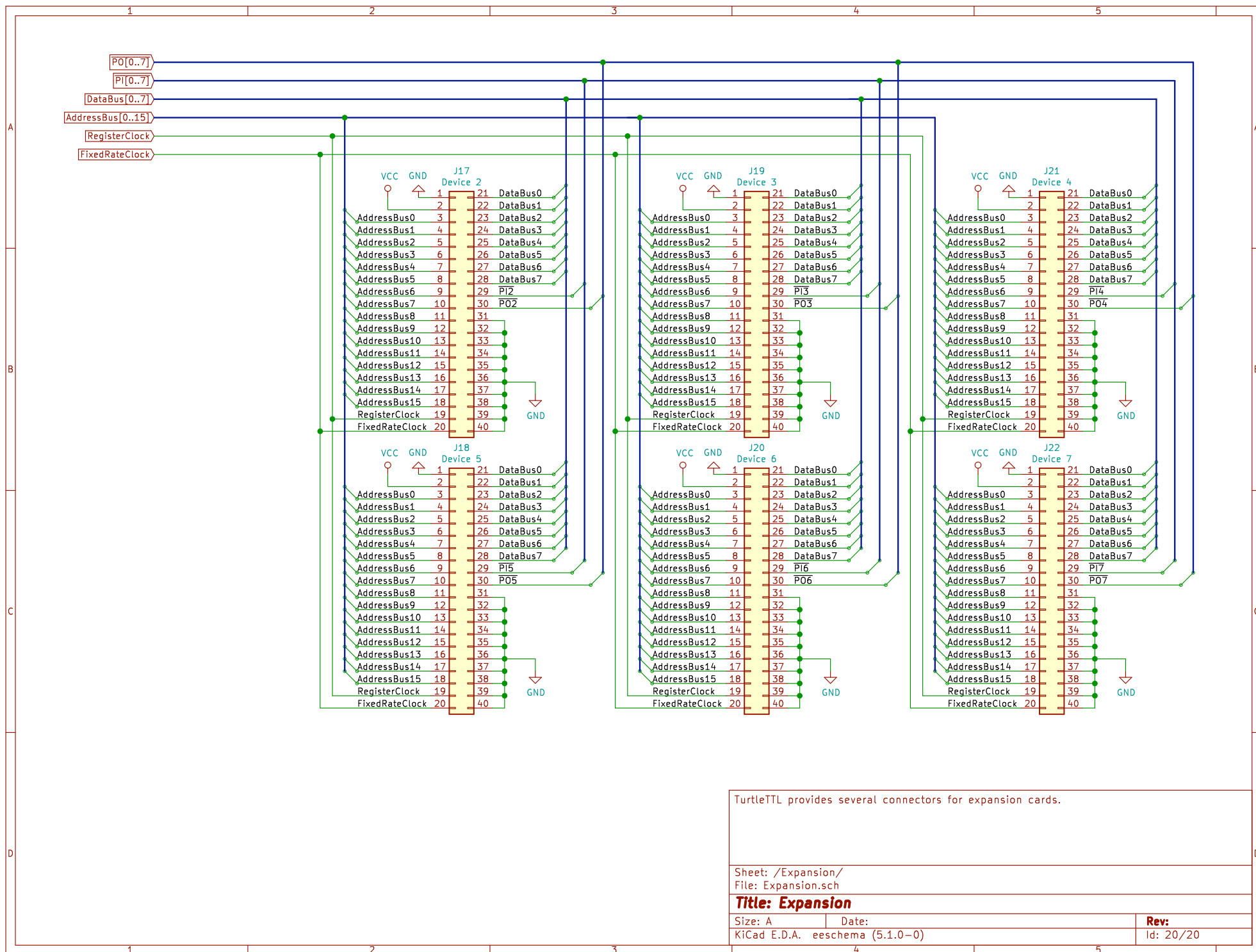
Size: A Date:
KiCad E.D.A. eeschema (5.1.0-0)

Rev:
Id: 17/20





Sheet: /Bus Display/ File: Bus Display.sch		
Title: Bus Display		
Size: A	Date:	Rev:
KiCad E.D.A. eeschema (5.1.0-0)		Id: 19/20



TurtleTTL provides several connectors for expansion cards.

Sheet: /Expansion/
File: Expansion.sch

Title: Expansion

Size: A Date:
KiCad E.D.A. eeschema (5.1.0-0)

Rev:
Id: 20/20