

Konami 053260

CLOCKS

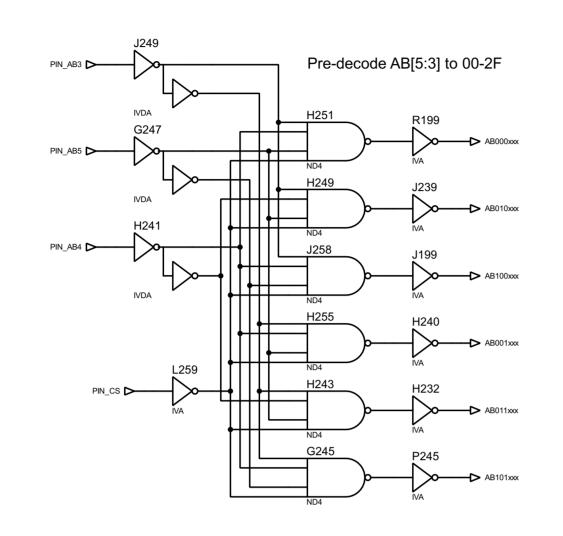
BY: Sean Gonsalves

22/03/2023

PAGE:

REV: A

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IVDA

IVDA

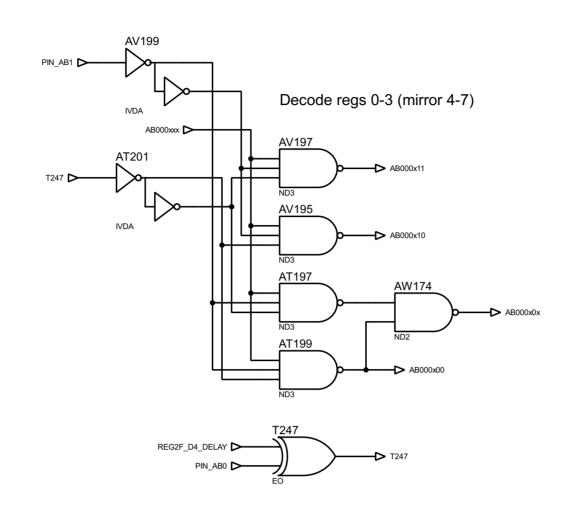
Decode regs 8-F (CH0)

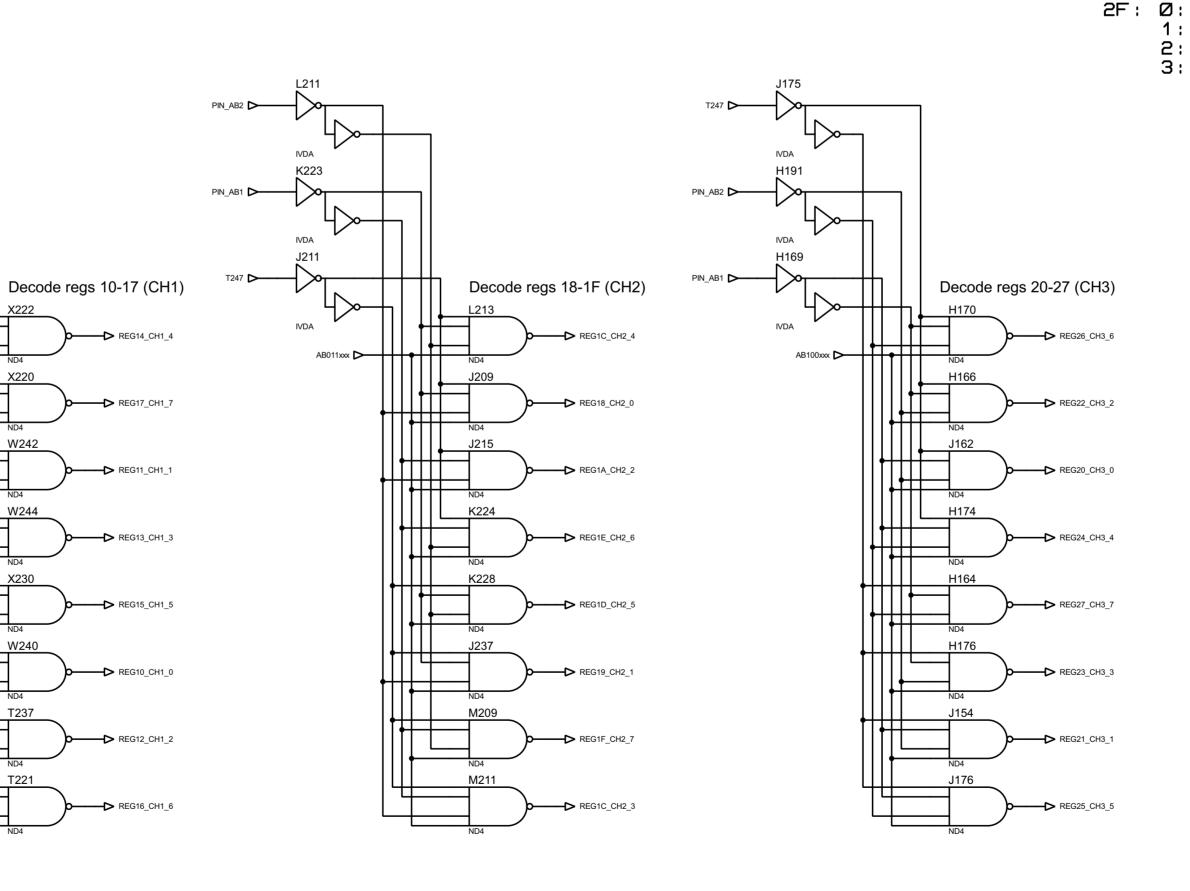
V196

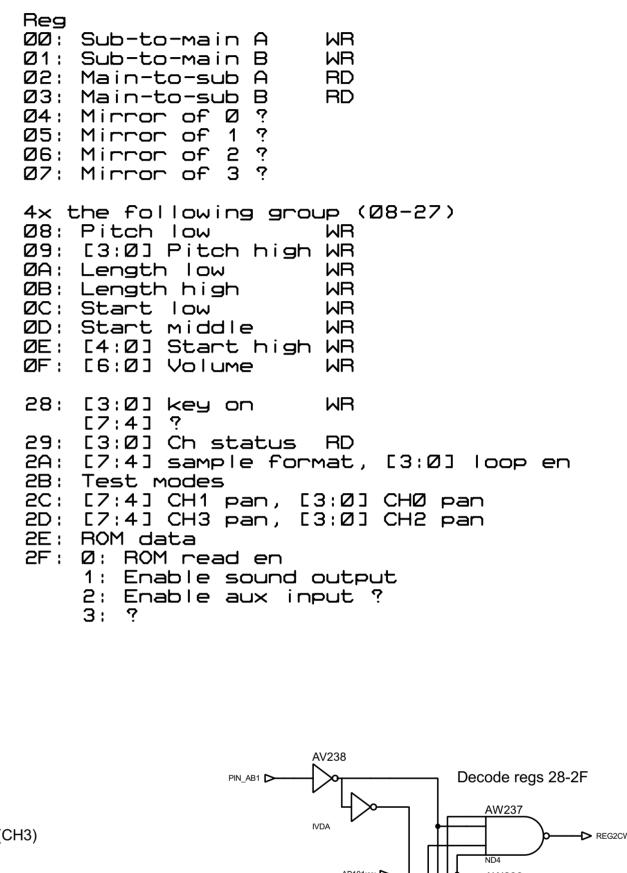
IVDA

AB001xxx 🗲

S239





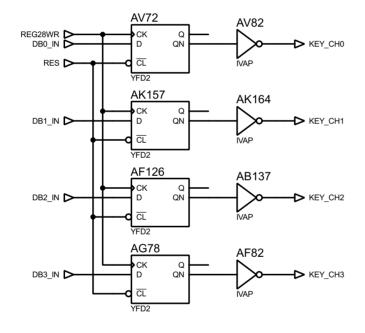


IVDA

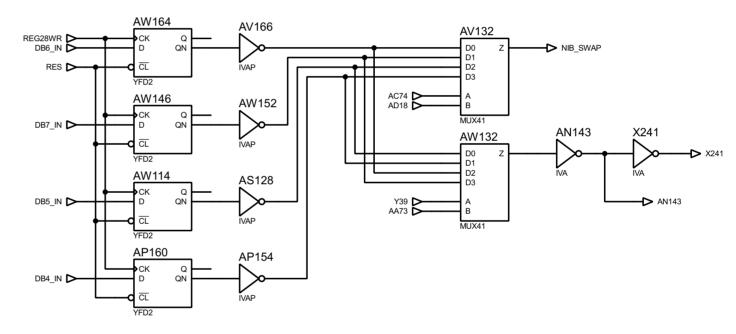
WR WR RD RD

TITLE:		DATE:
Konami 053260		22/03/2023
ADDR DECODE		PAGE:
BY: Sean Gonsalves	REV: A	2/34

#### Reg key on/off

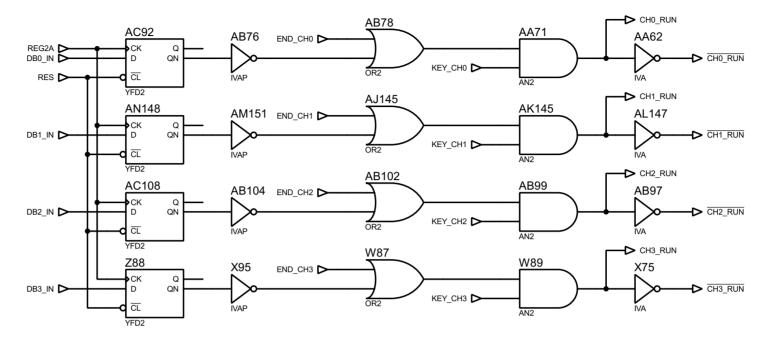


#### Play channel backwards?

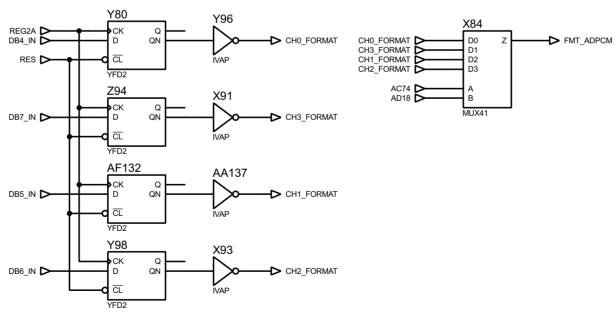


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Kor	nami 053260			22/03/2023
RE(	G 28			PAGE:
BY: Se	ean Gonsalves	REV:	Α	3/34

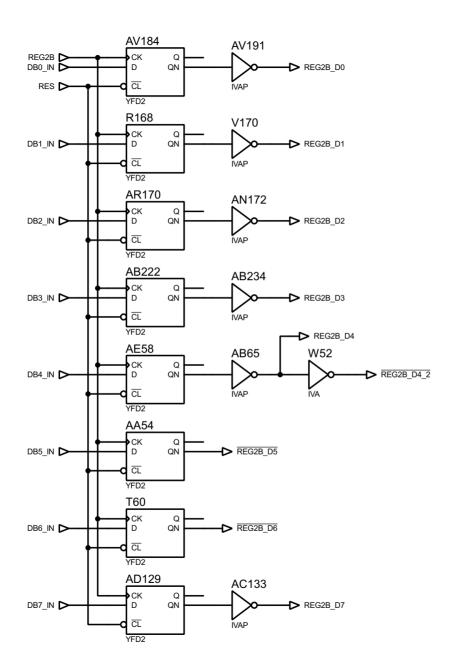
## Loop flags



## Format flags



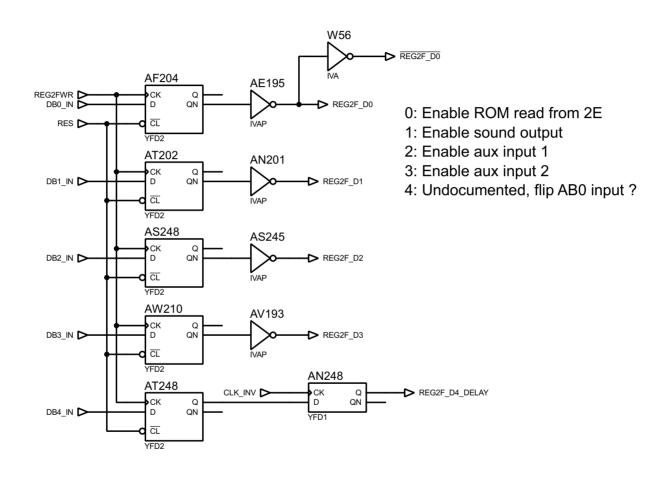
TITLE:				DATE:
k	onami 053260			22/03/2023
R	EG 2A			PAGE:
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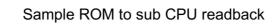
Test stuff. Setting this register to anything other than zero may cause irreversible damage.

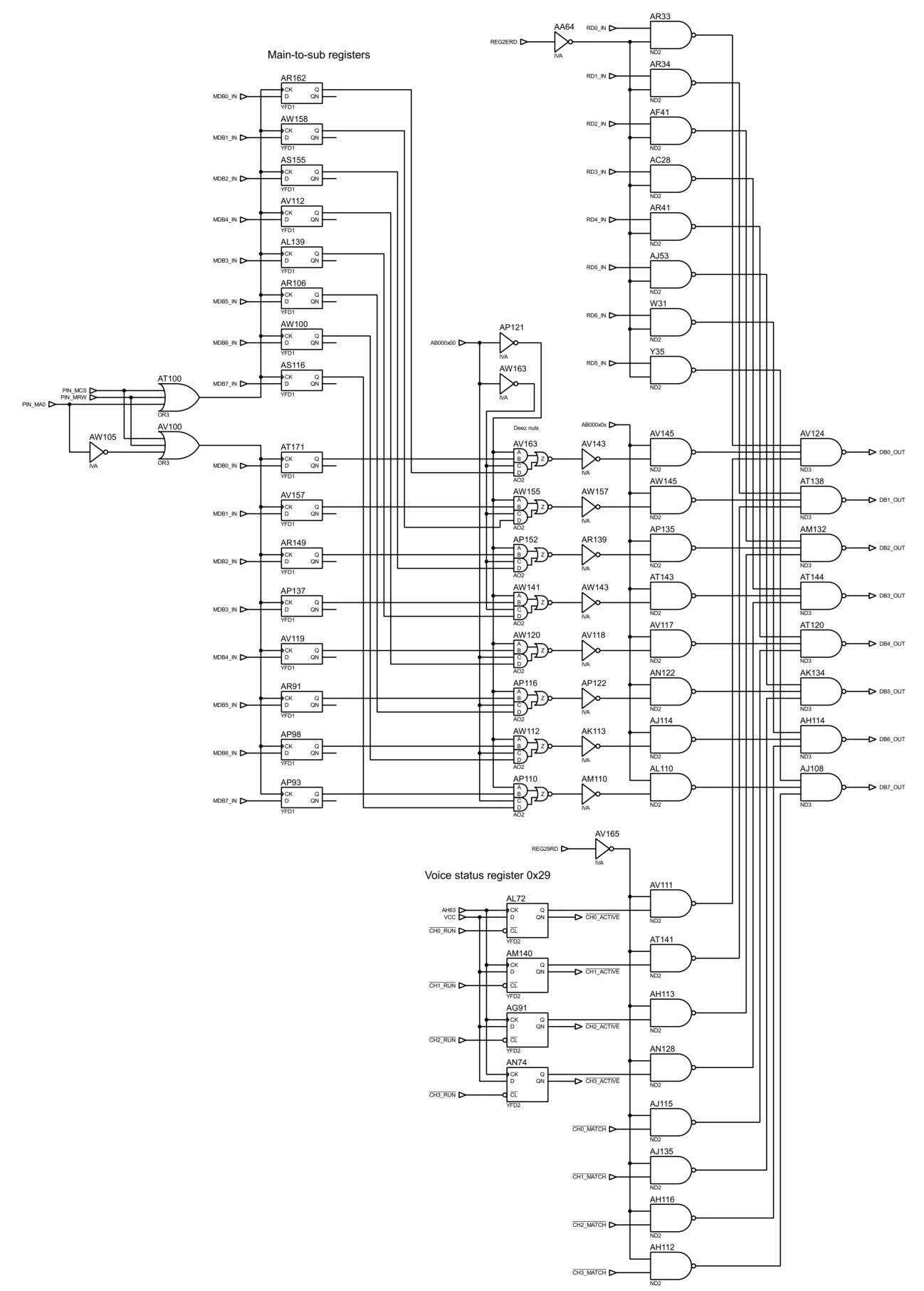
- 0: Bypass counters
- 1: ROM address mux select
- 2: Multiplier input select
- 3: Clock related
- 4: Enable channel selection
- 5: Channel select A
- 6: Channel select B
- 7: Clock for some ROM addr

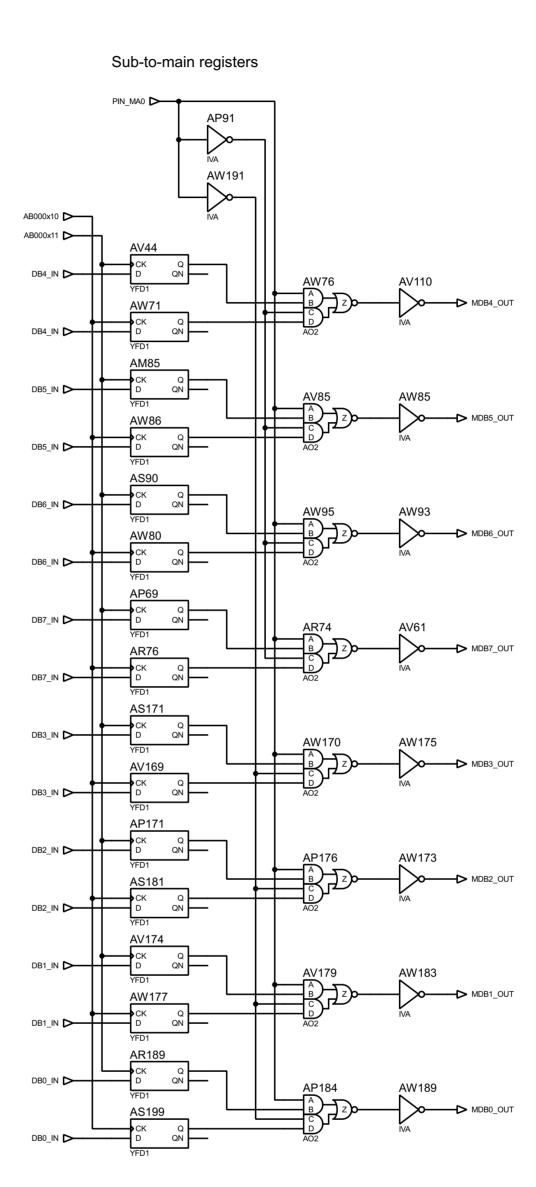
TITLE:		DATE:
Konami 053260		22/03/2023
REG 2B		PAGE:
BY: Sean Gonsalves	REV: A	5/34

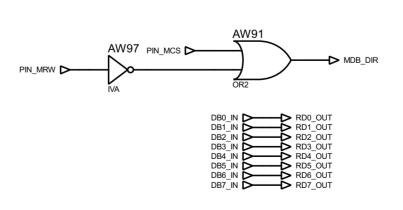


TITLE:				DATE:
K	onami 053260			22/03/2023
R	EG 2F			PAGE:
BY:	Sean Gonsalves	REV:	Α	6/34

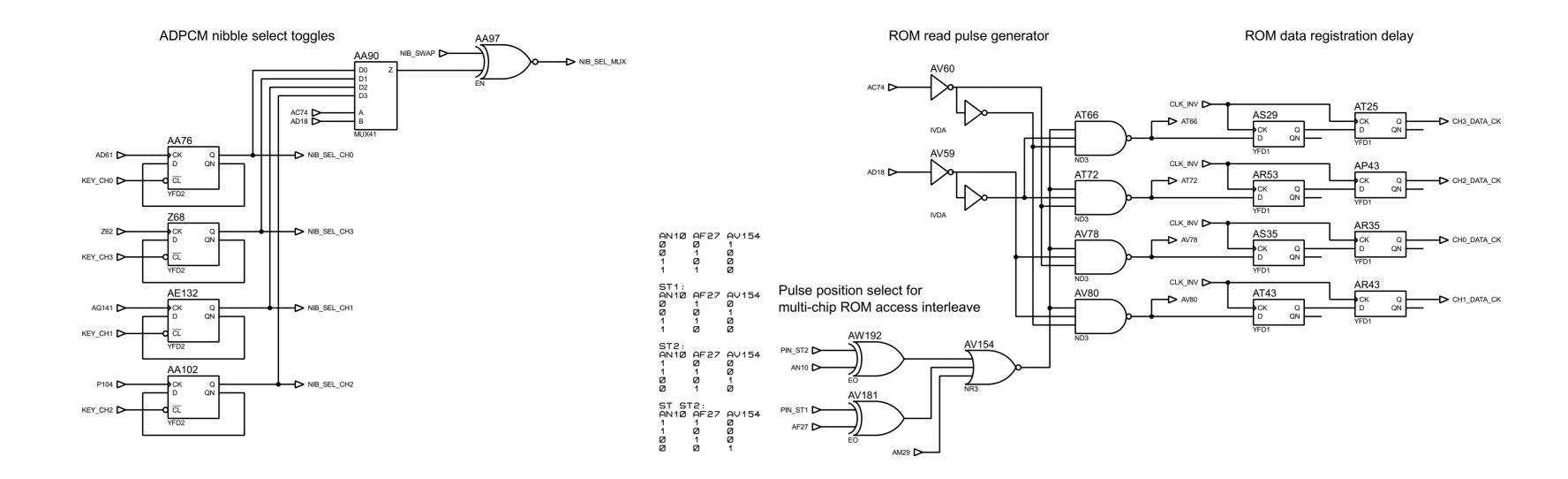


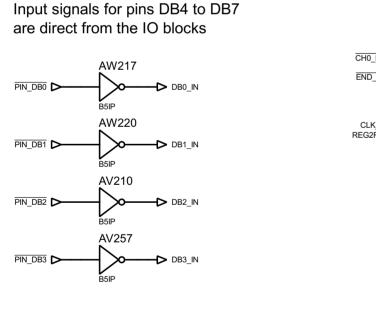




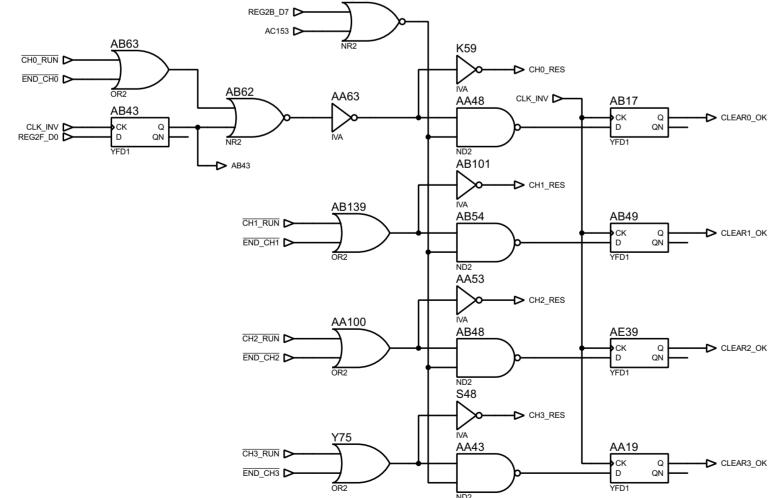


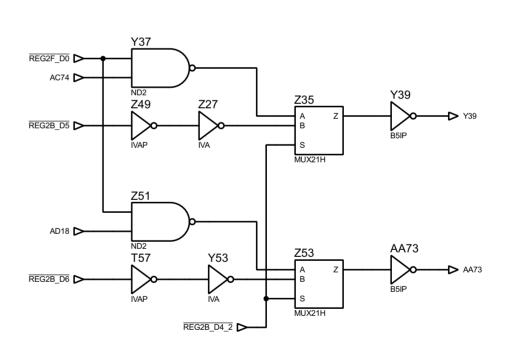
TITLE:		DATE:
Konami 053260		22/03/2023
CPU DATA		PAGE:
BY: Sean Gonsalves	REV: A	7/34



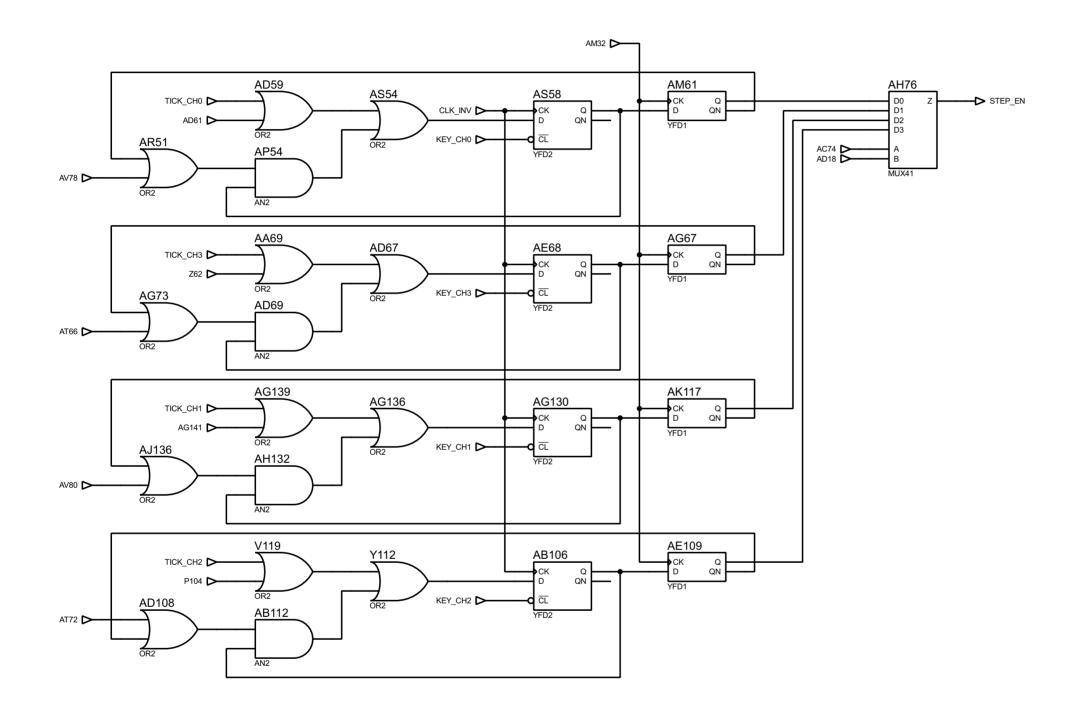


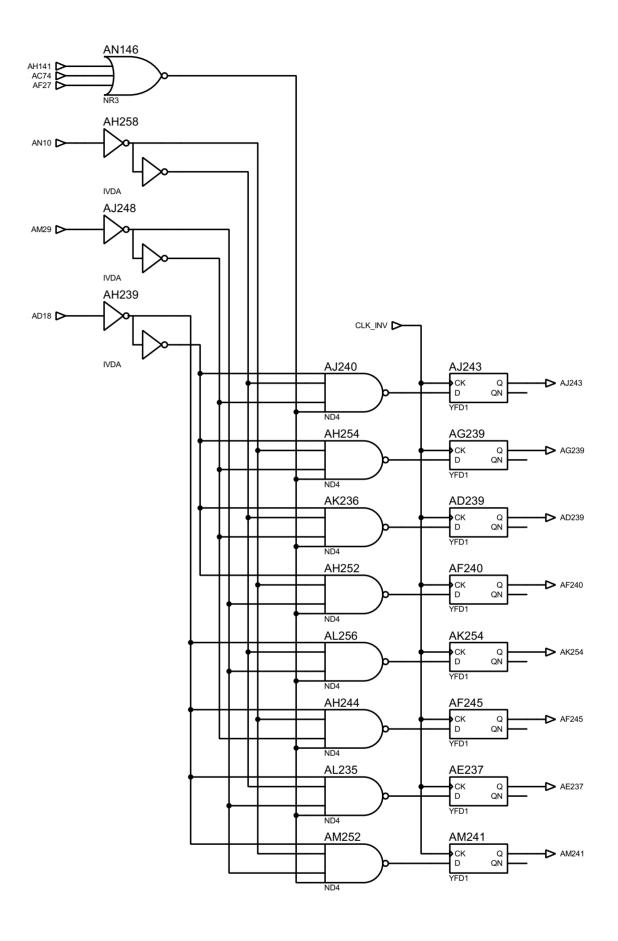
PIN\_RES B5IP
B4IP?

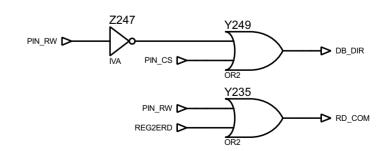




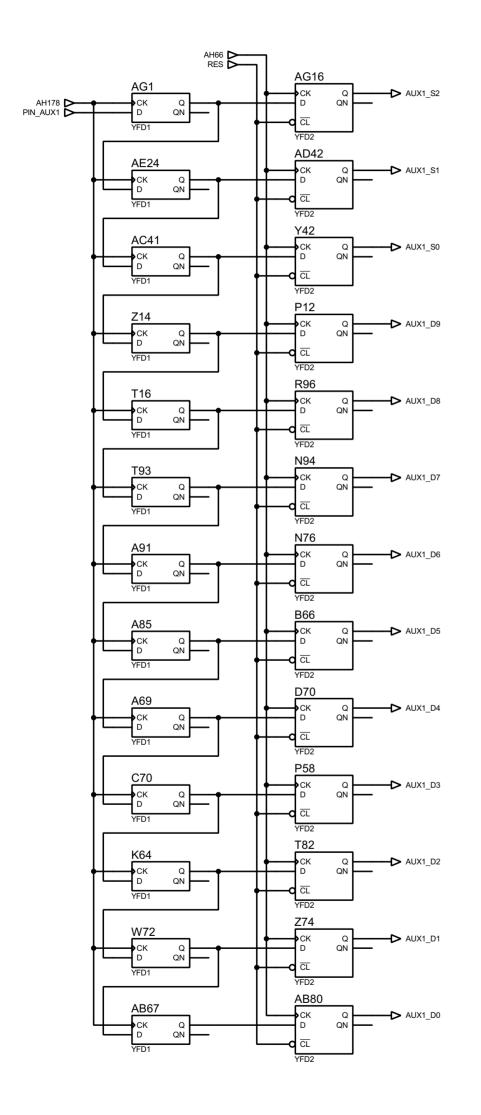
TITLE	:			DATE:
k	Conami 053260			22/03/2023
N	IISC 1			PAGE:
BY:	Sean Gonsalves	REV:	Α	8/34

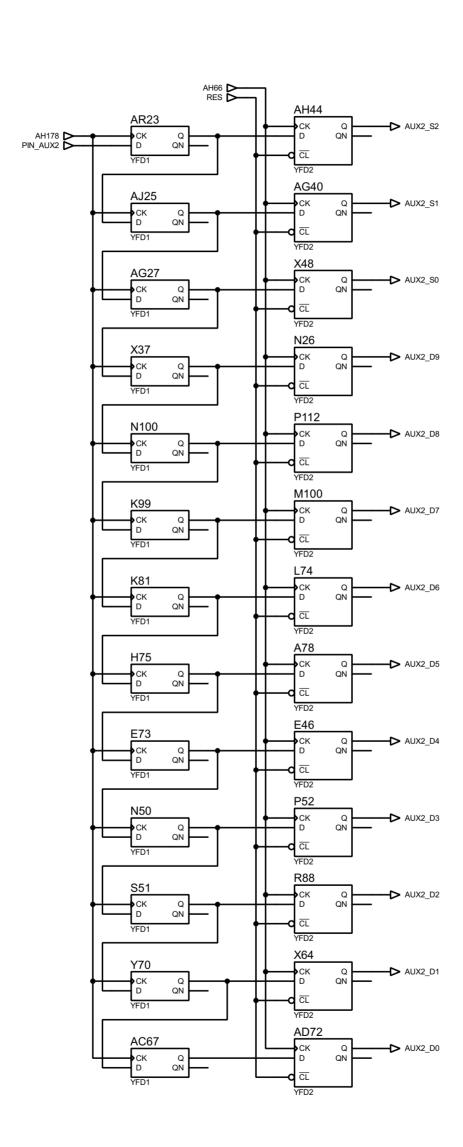


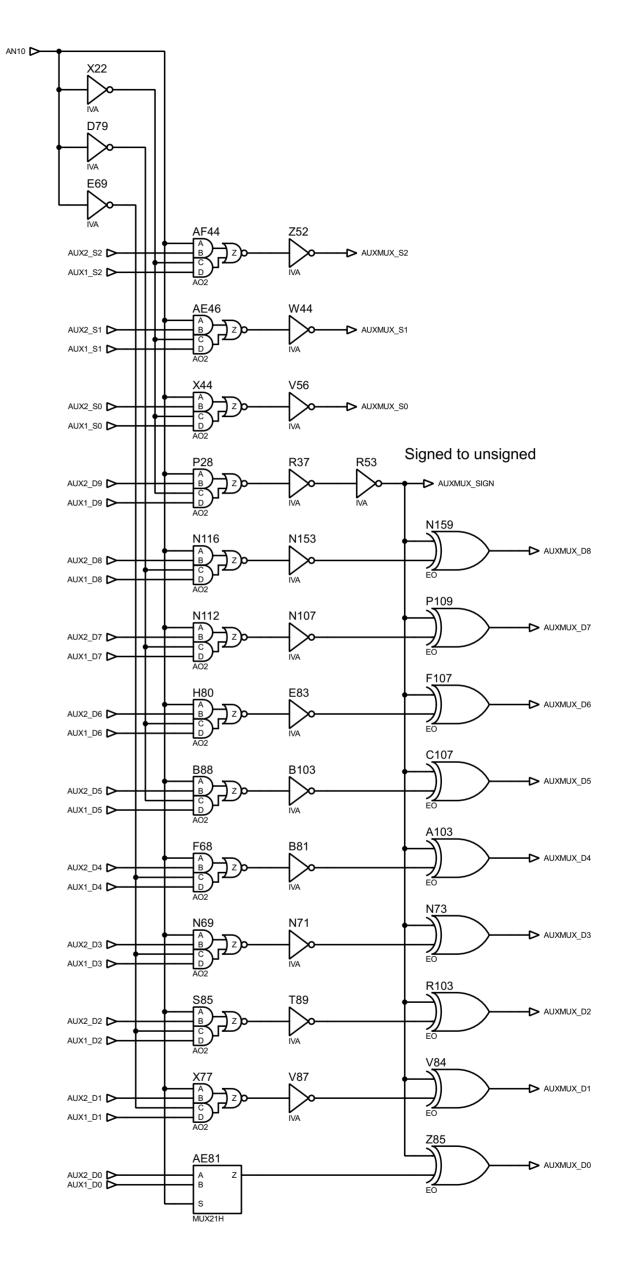




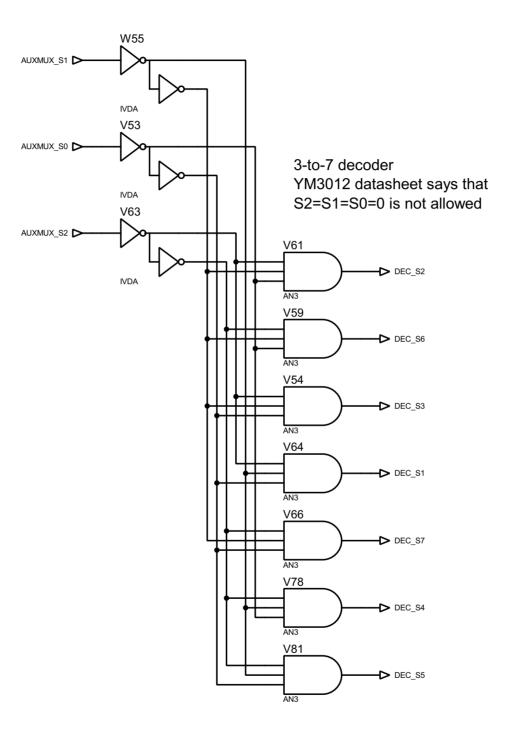
TITLE:				DATE:
K	onami 053260			22/03/2023
M	IISC 2			PAGE:
BY:	Sean Gonsalves	REV:	Α	9/34



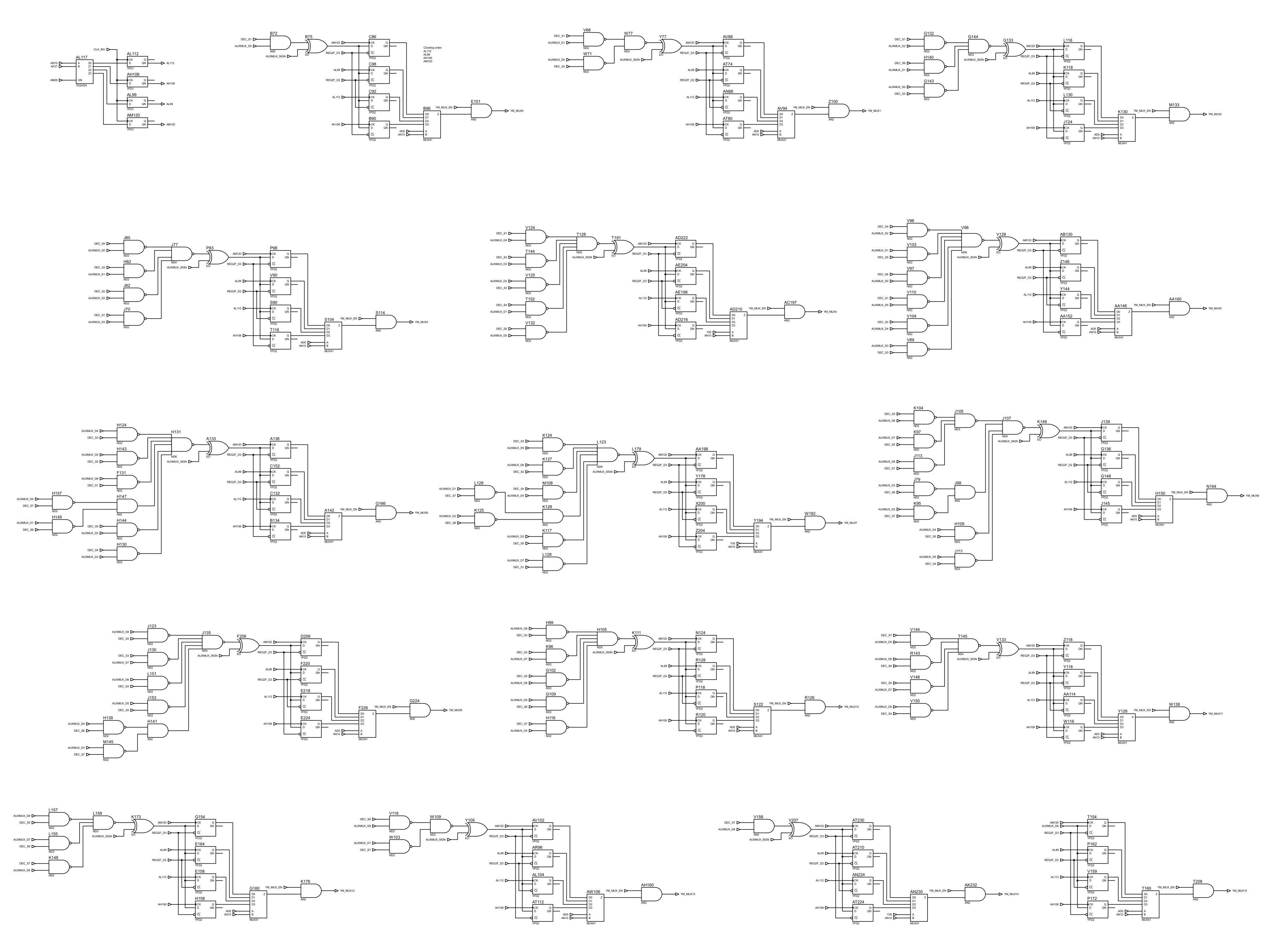


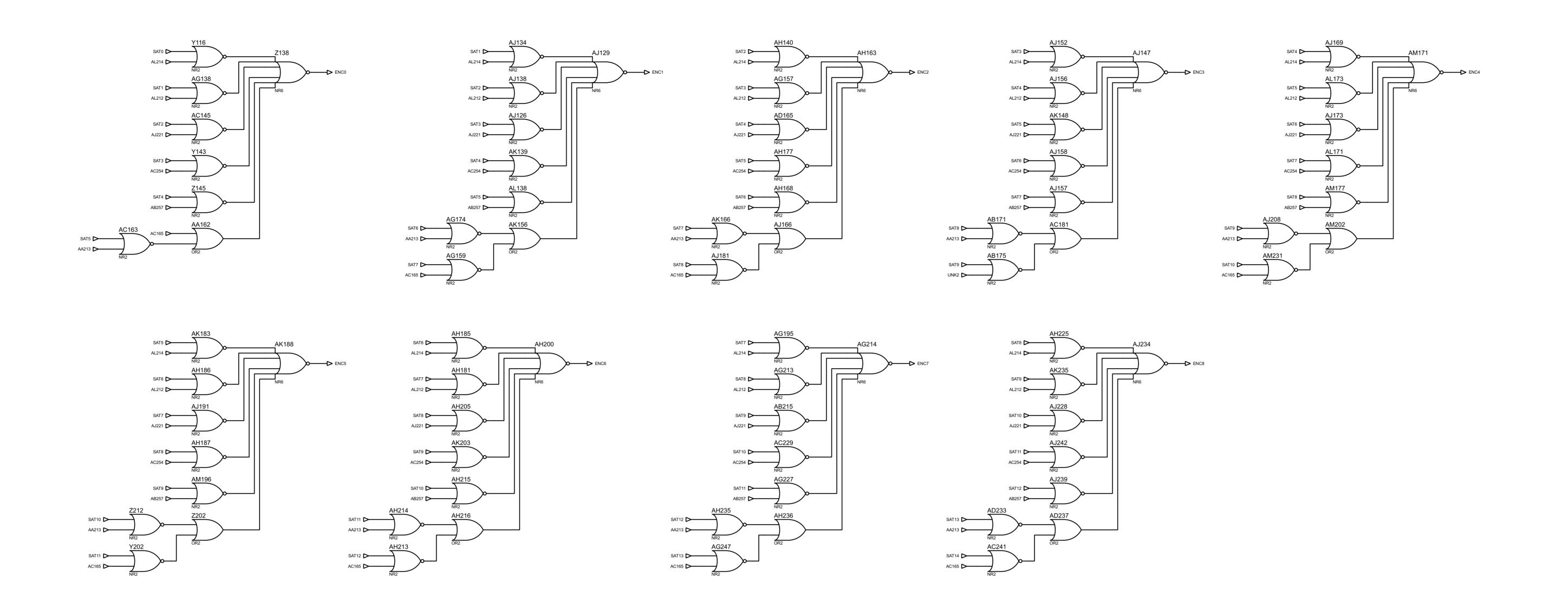


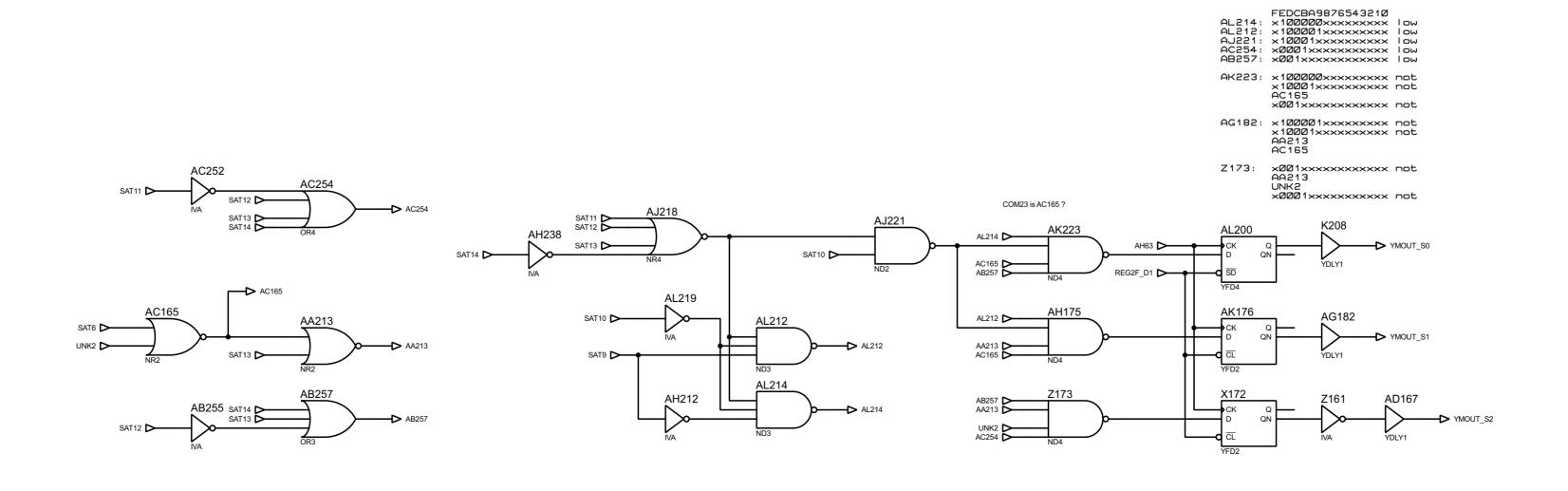
TITLE:				DATE:
Ιĸ	onami 053260			22/03/2023
Y	MIN			PAGE:
BY:	Sean Gonsalves	REV:	Α	10/34



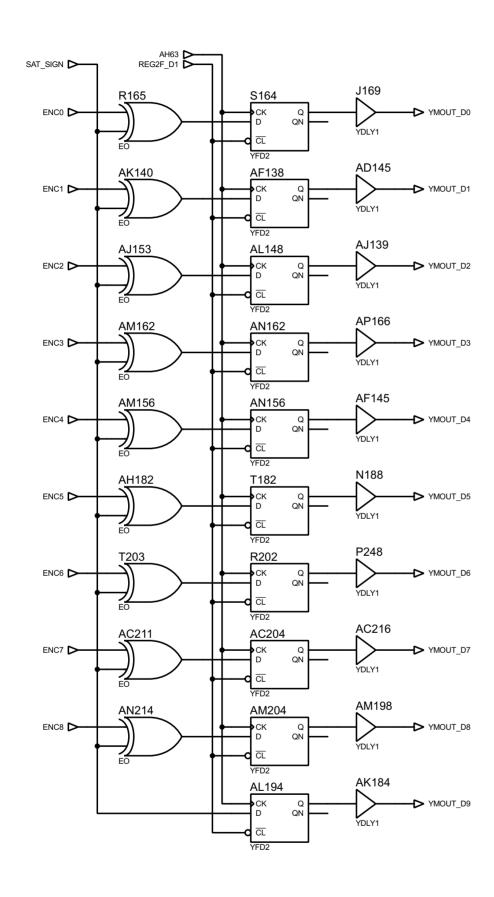
TITLE:		DATE:
Konami 053260		22/03/2023
YM EXP DECODE		PAGE:
BY: Sean Gonsalves	REV: A	11/34

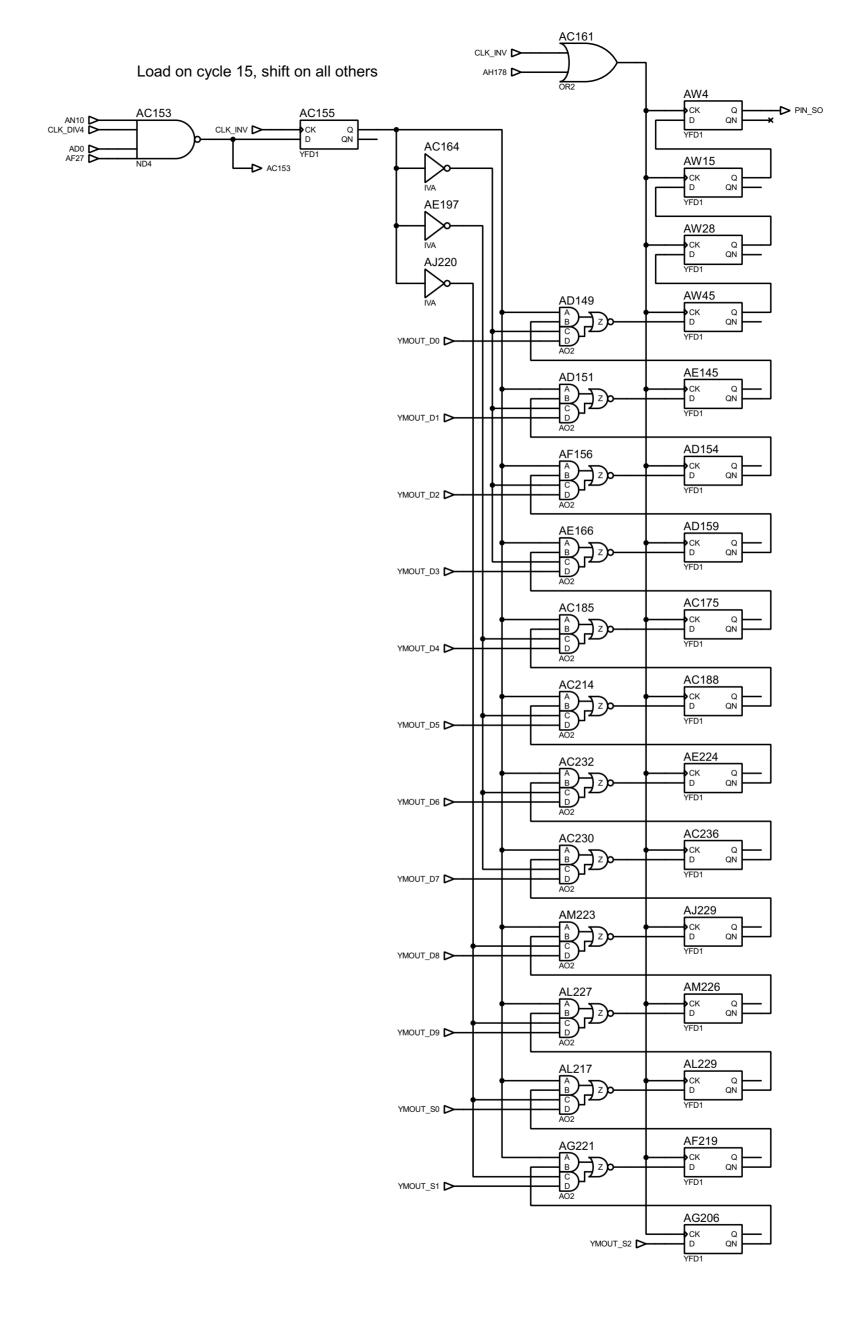




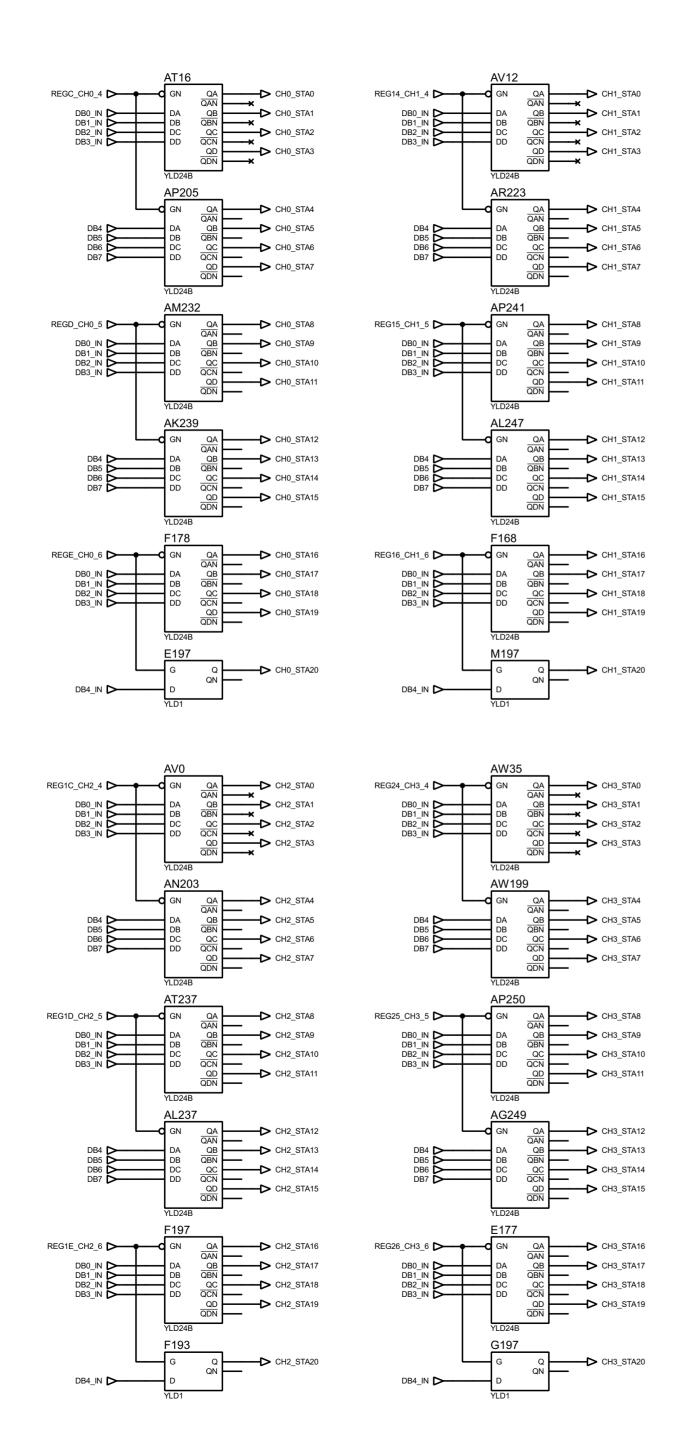


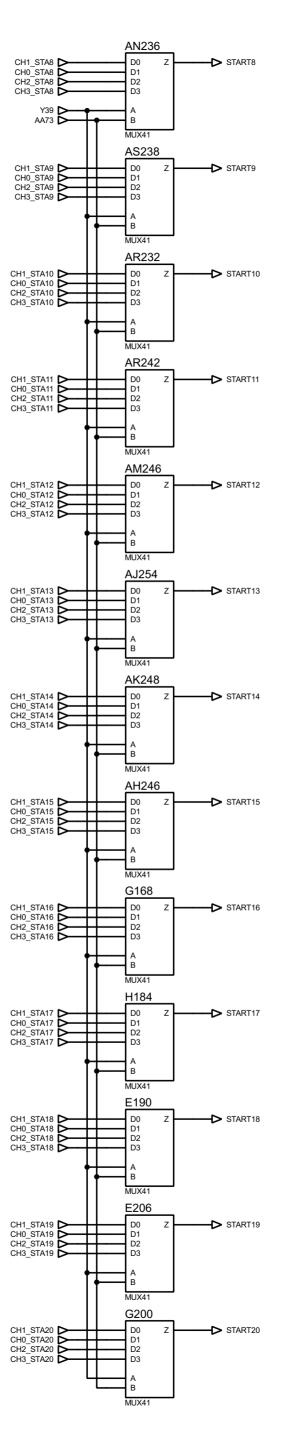
TITLE:		DATE:
Konami 053260		22/03/2023
YM ENCODE		PAGE:
BY: Sean Gonsalves	REV: A	13/34

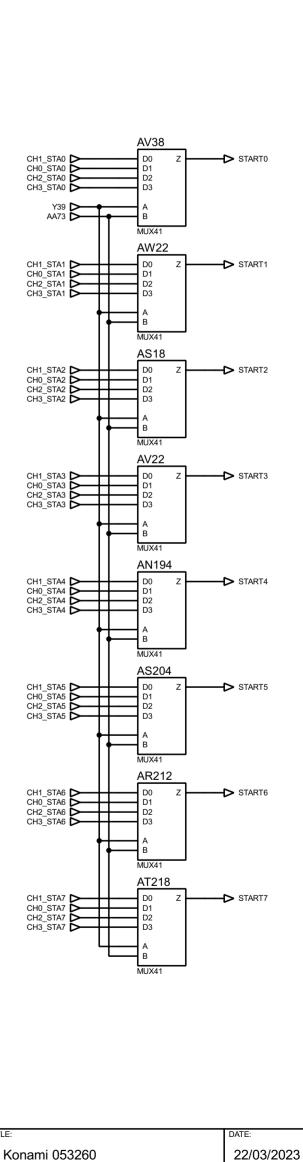




TITLE:		DATE:
Konami 053260		22/03/2023
YM OUT		PAGE:
BY: Sean Gonsalves	REV: A	14/34







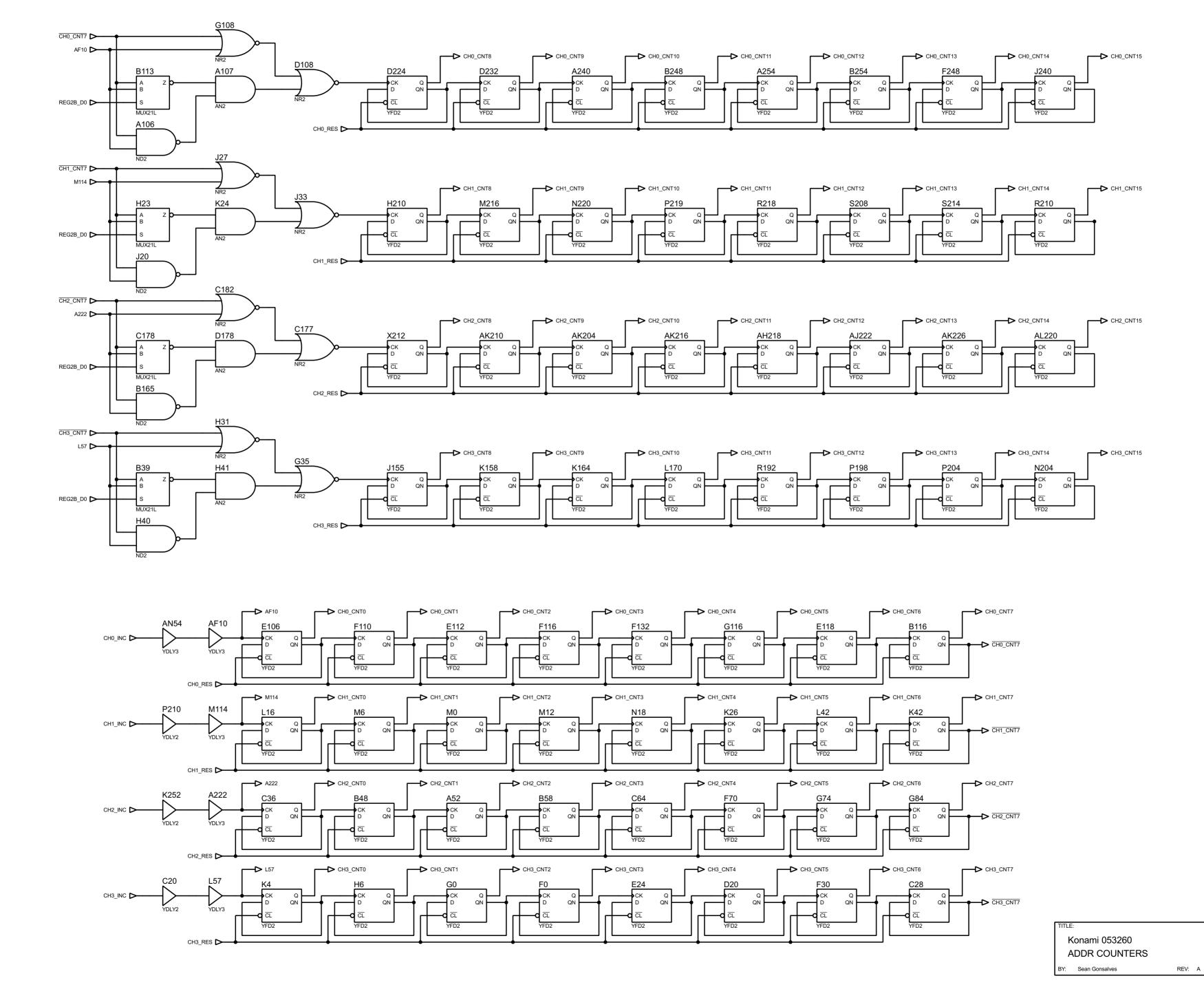
START ADDR

Sean Gonsalves

PAGE:

REV: A

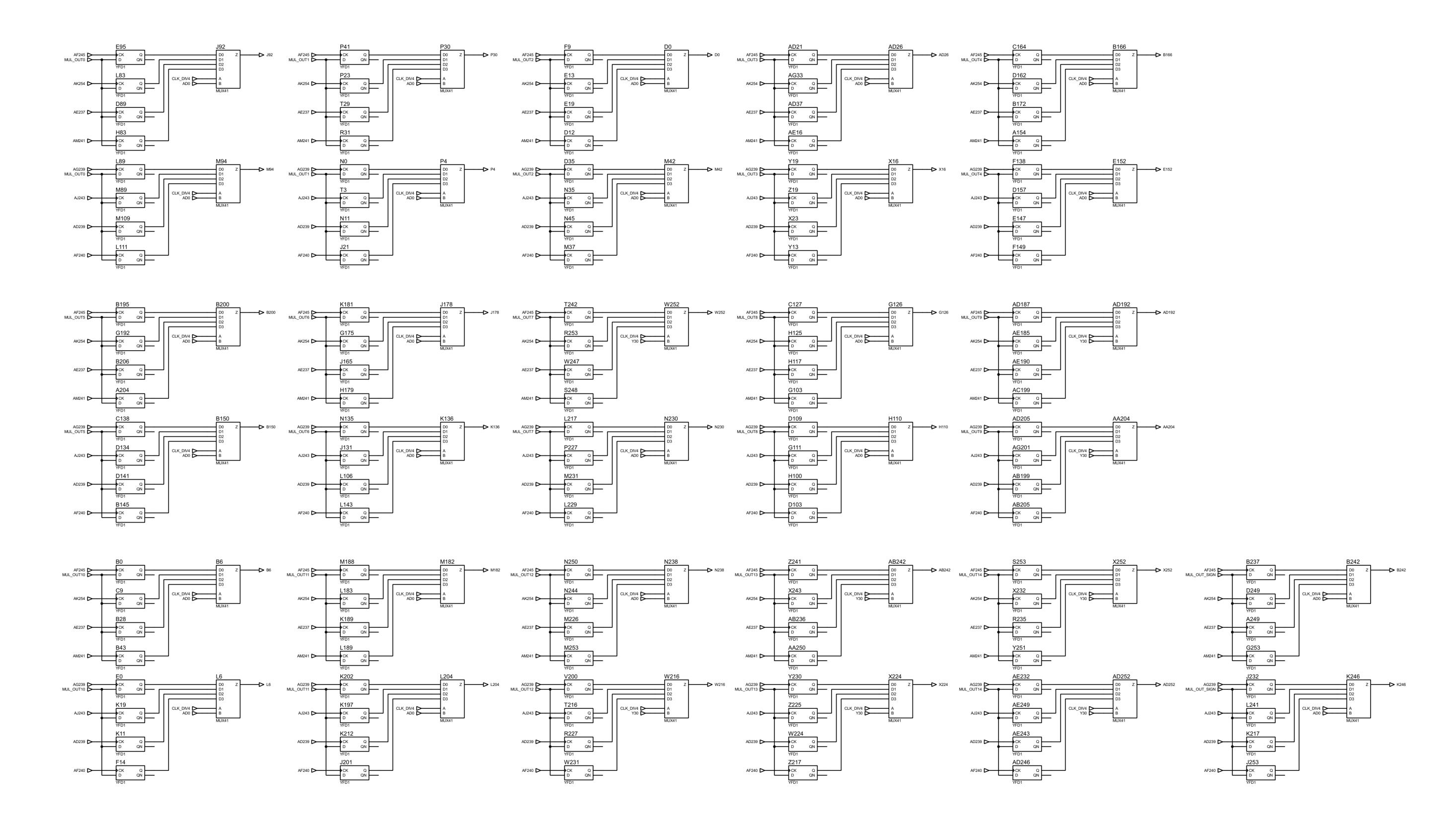
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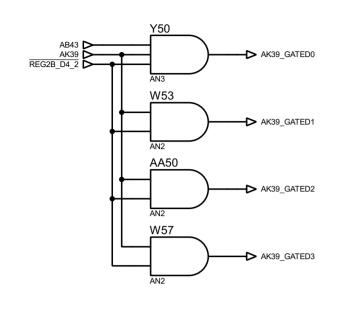
22/03/2023

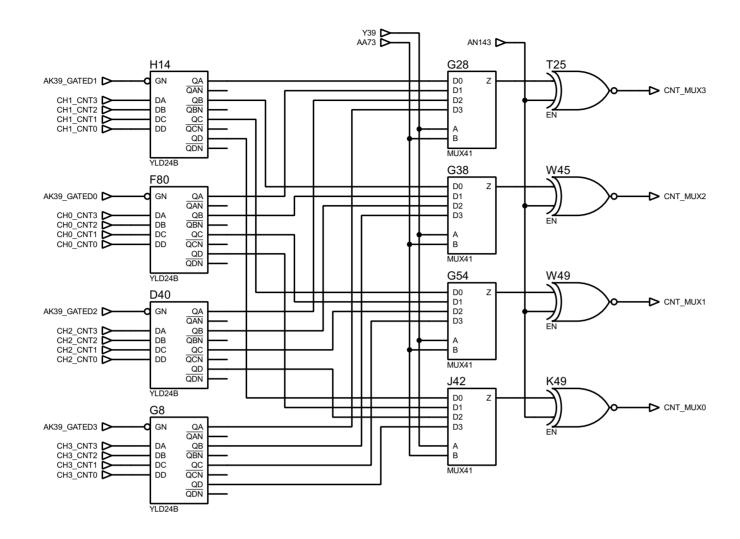
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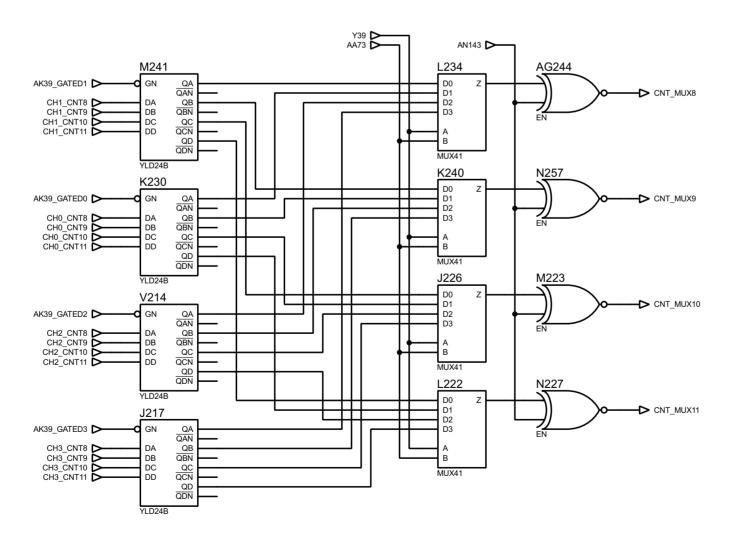
PAGE:

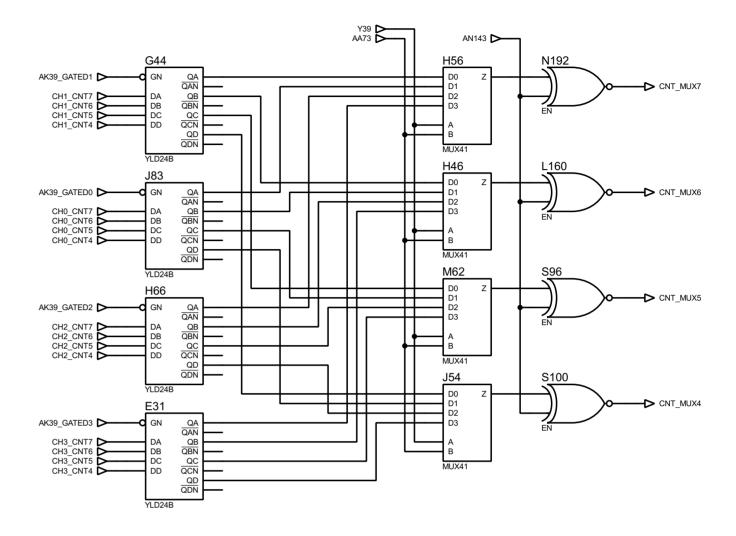


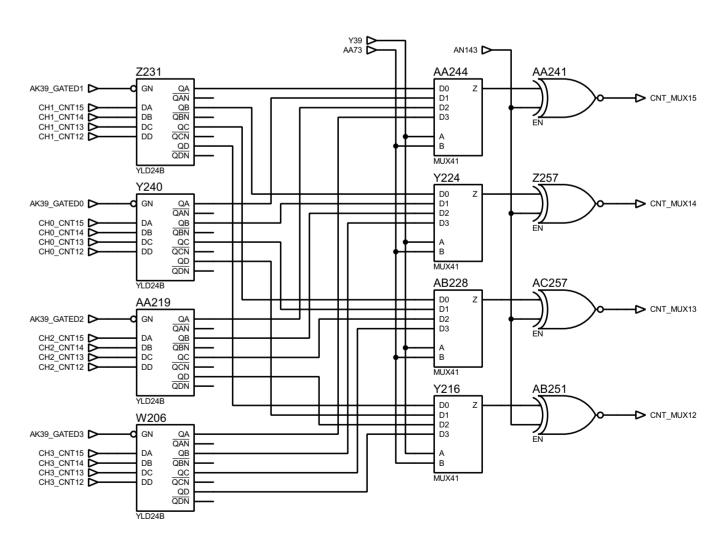
IIILE:		DATE:	ı
Konami 053260		22/03/2023	
MUL REGS		PAGE:	
BY: Sean Gonsalves	REV: A	17/34	



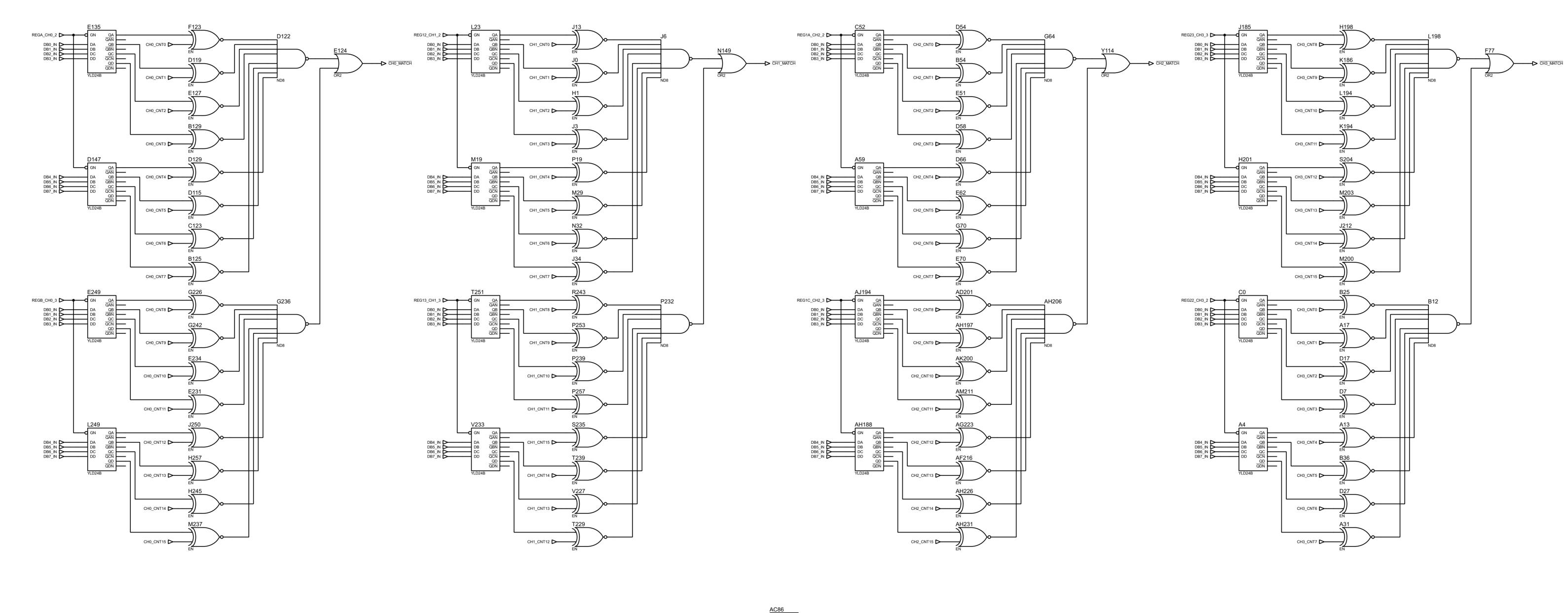


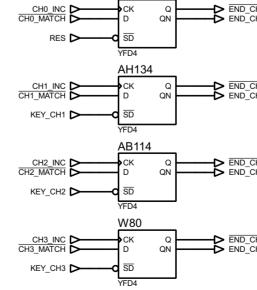






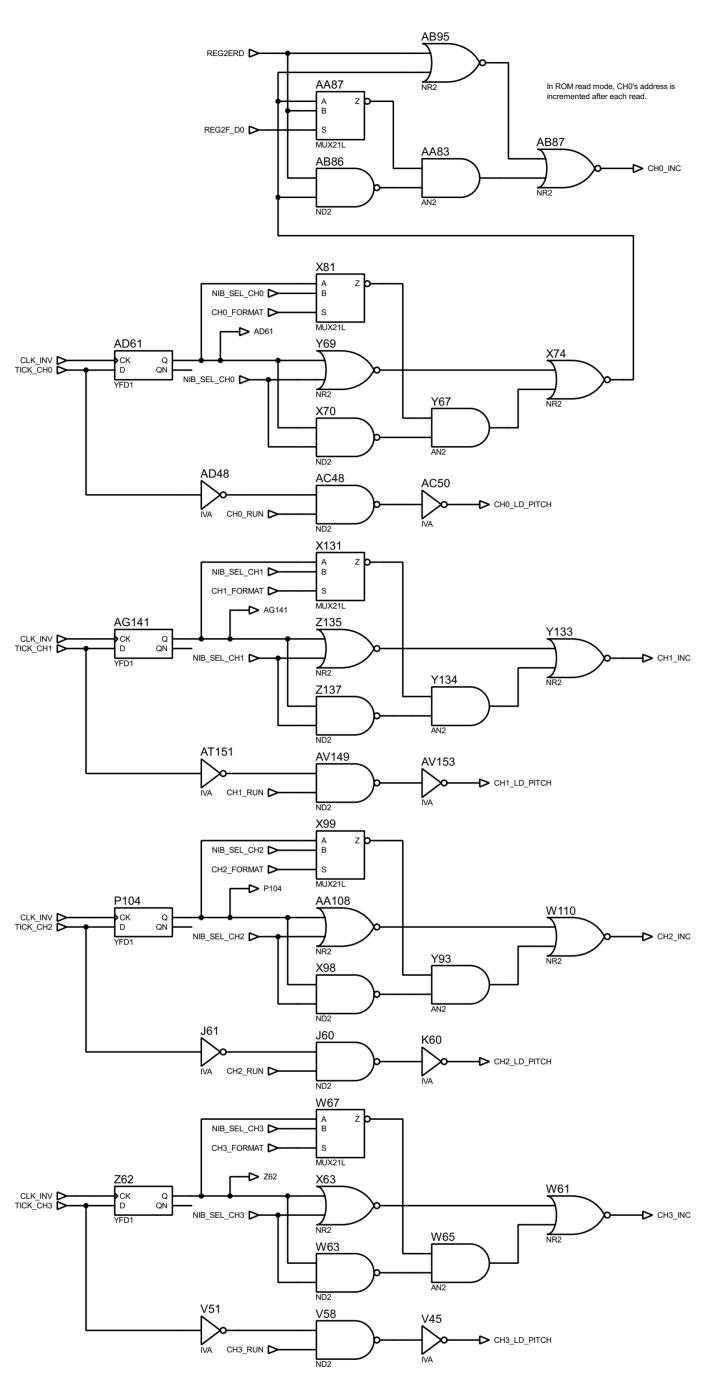
TITLE	:			DATE:
k	Konami 053260			22/03/2023
Δ	ADDR COUNTER MUX			PAGE:
BY:	Sean Gonsalves	REV:	Α	18/34

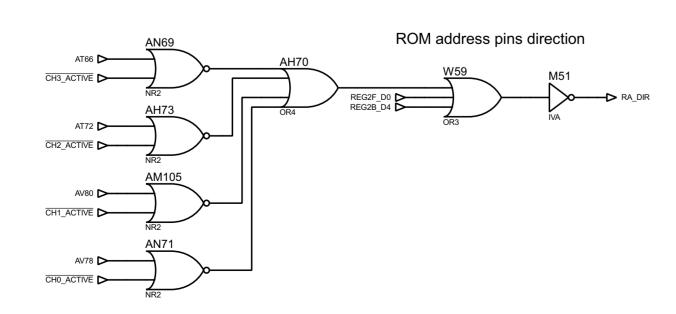


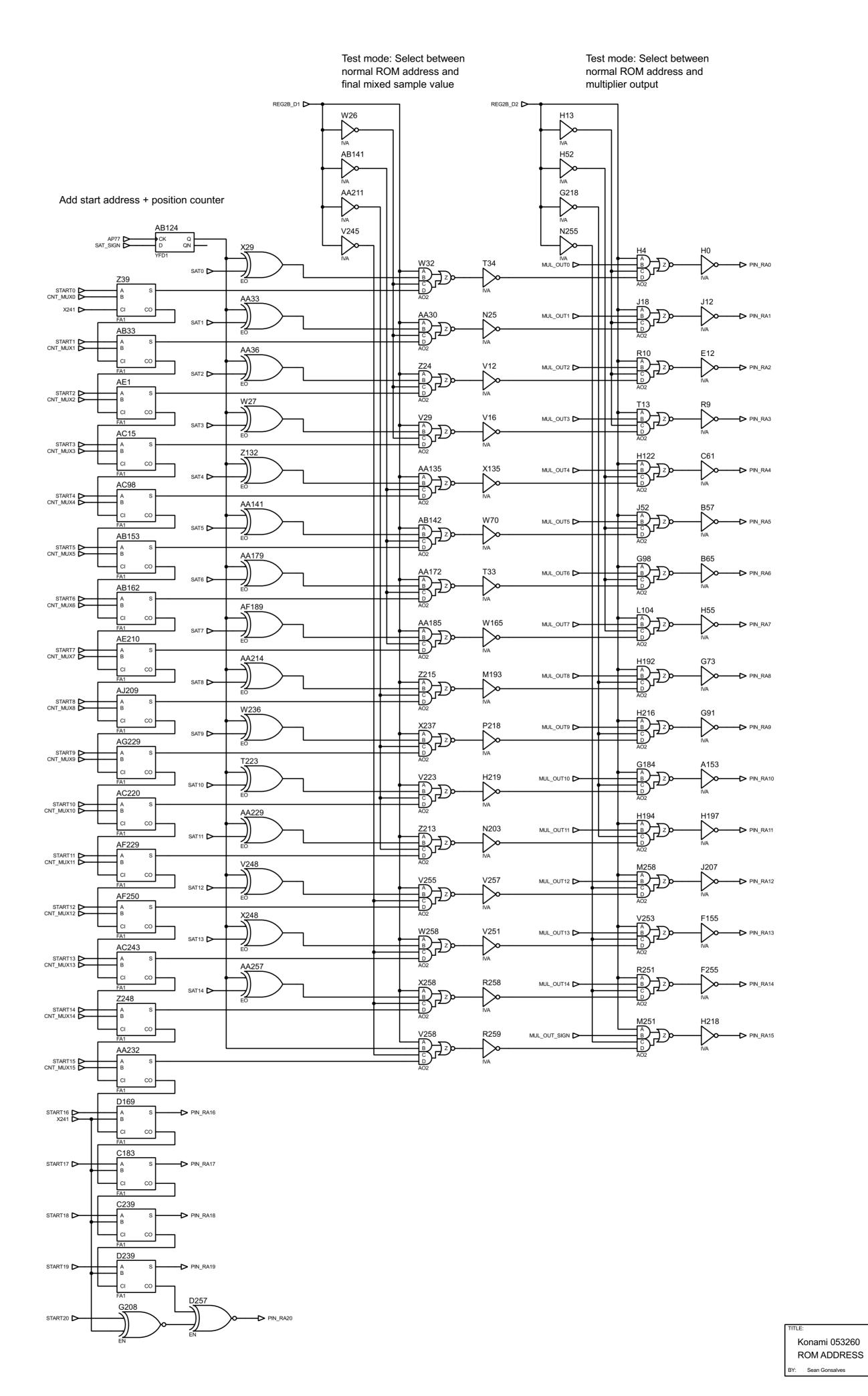


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K	onami 053260			22/03/2023
E	ND CHECKS			PAGE:
BY:	Sean Gonsalves	REV:	Α	19/34

CH0 has additional logic used for ROM readout by CPU, ticked by reading REG 2E See AE195



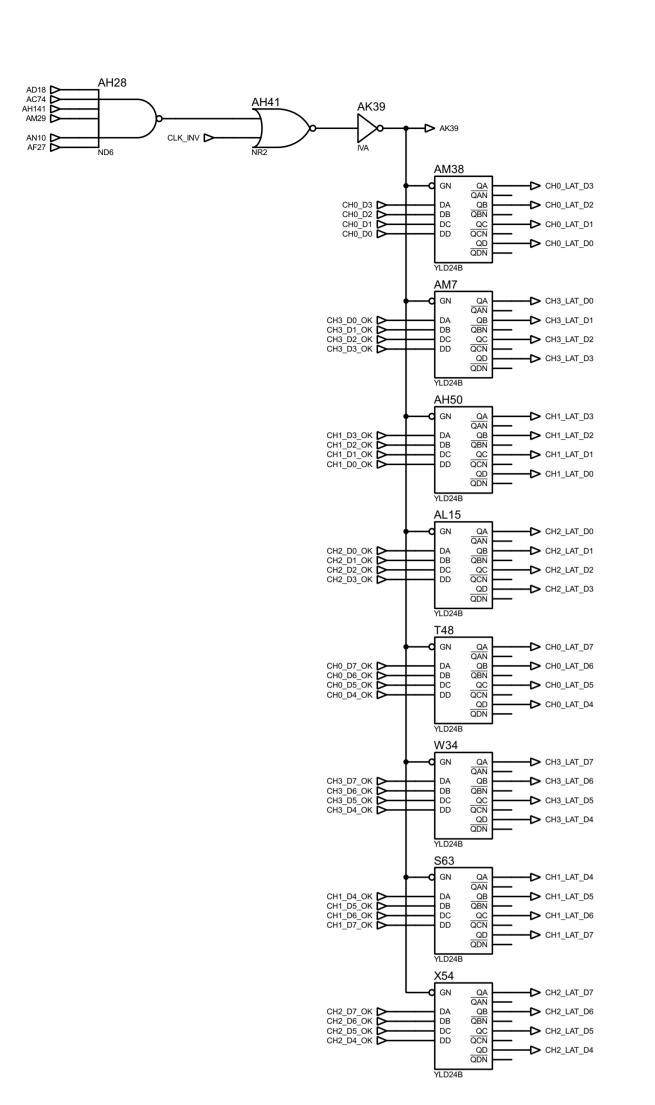


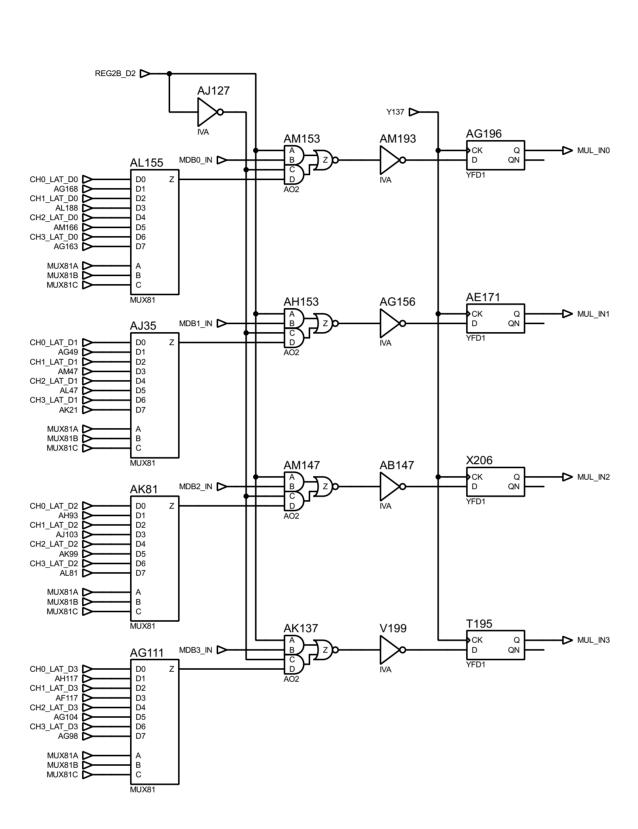


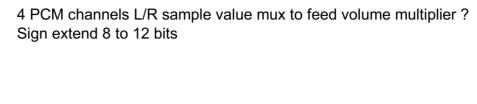
22/03/2023

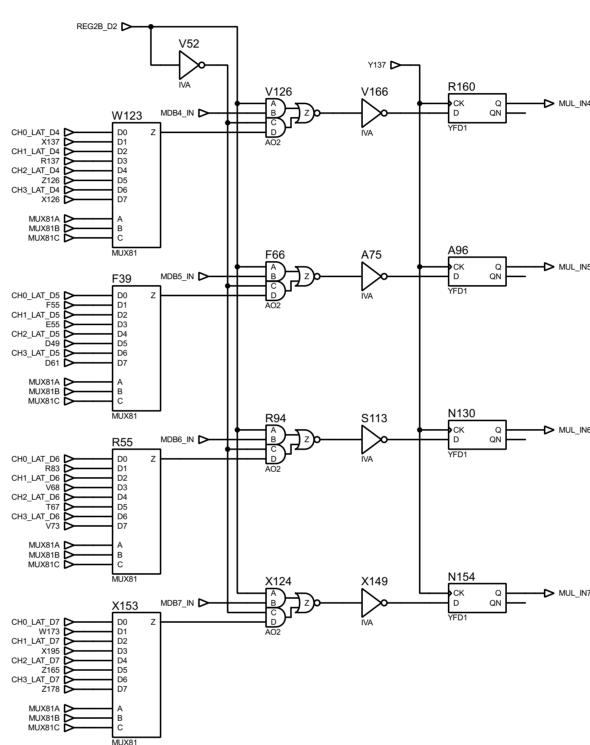
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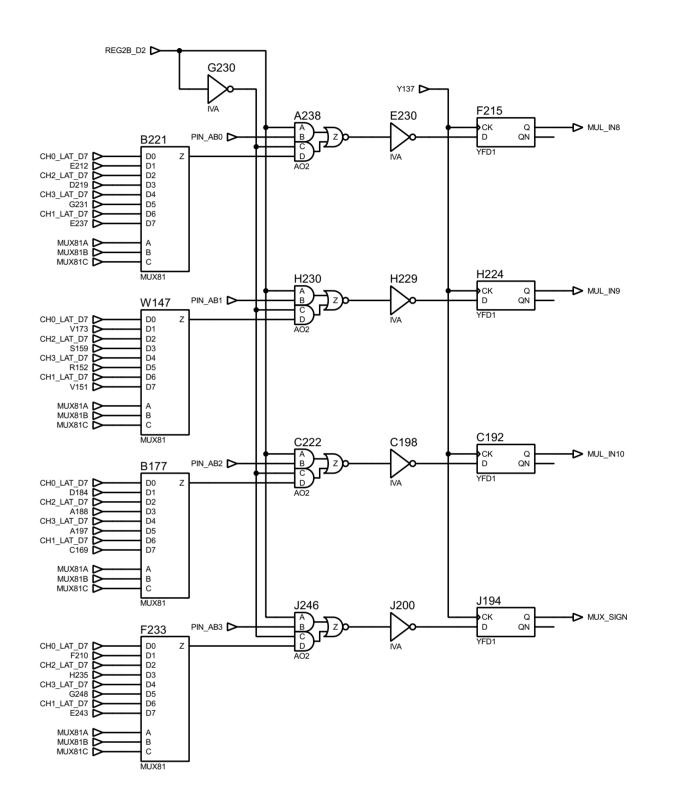
REV: A

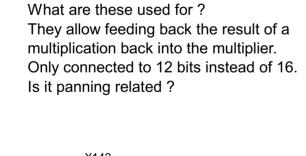


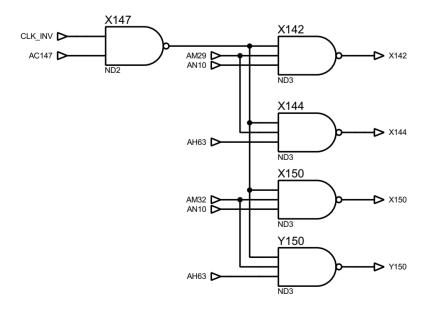


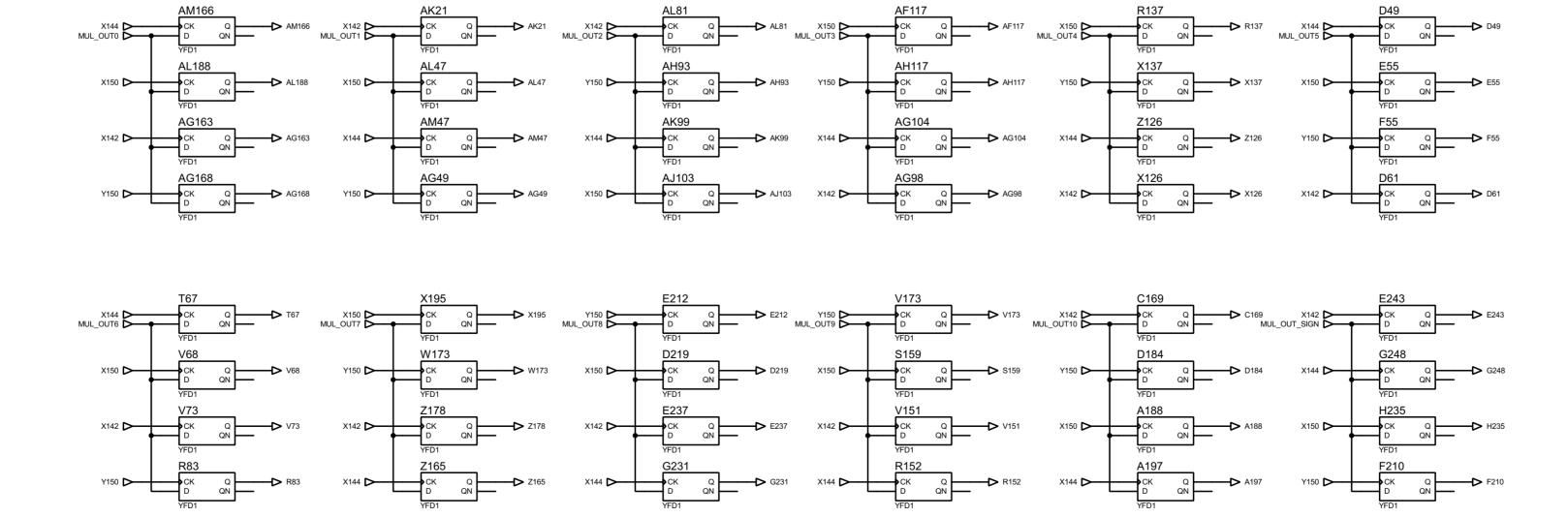




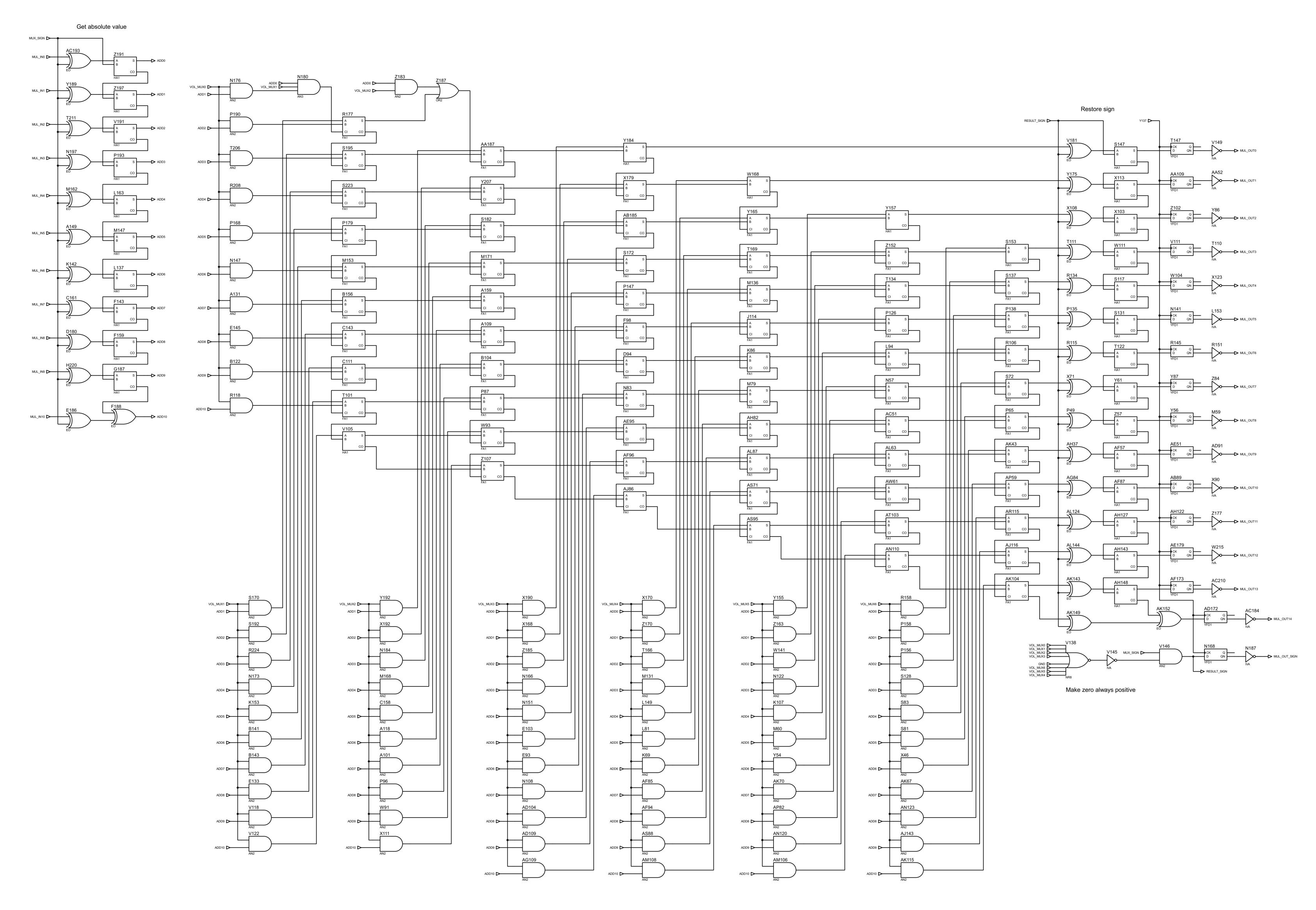




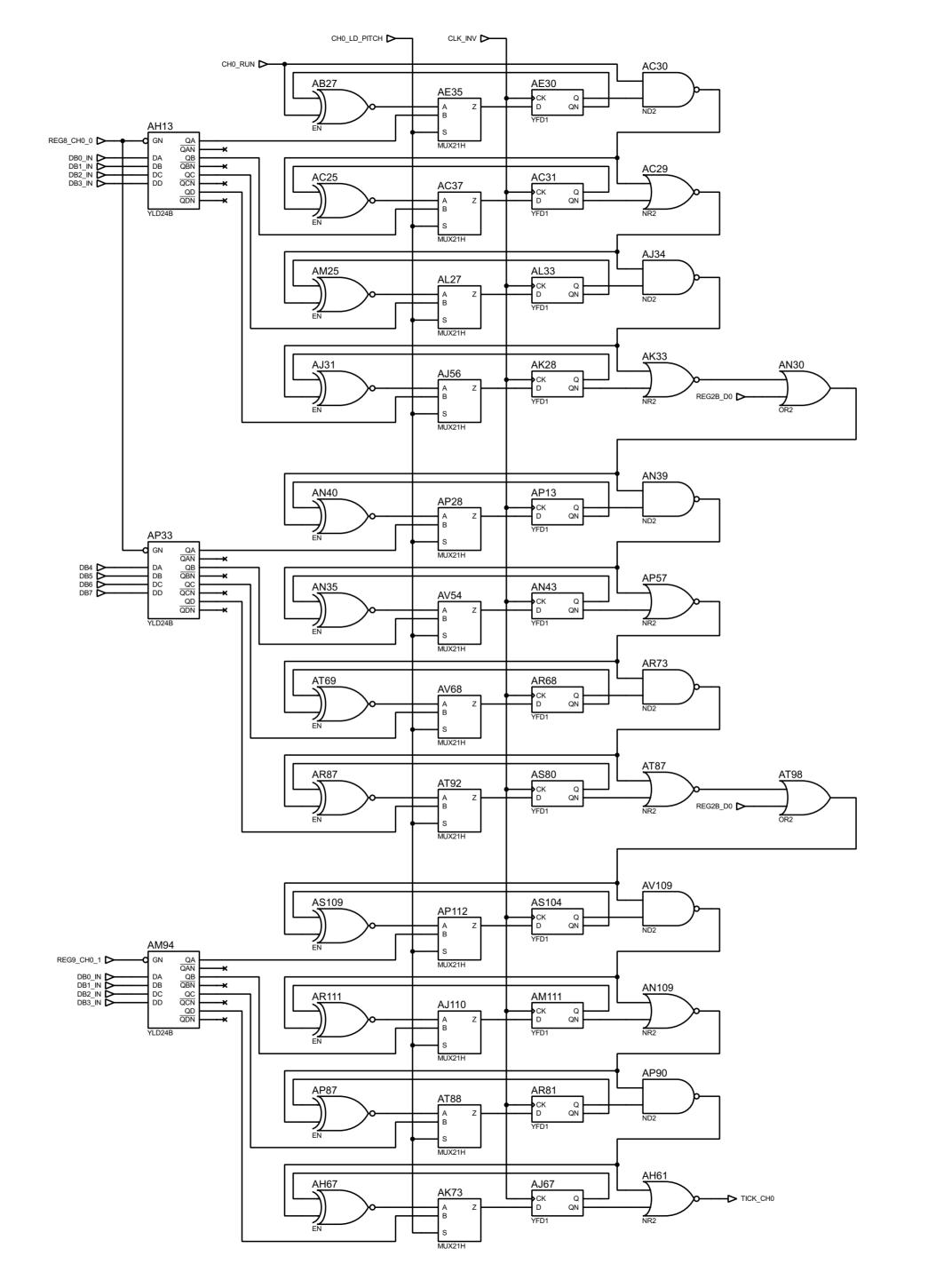




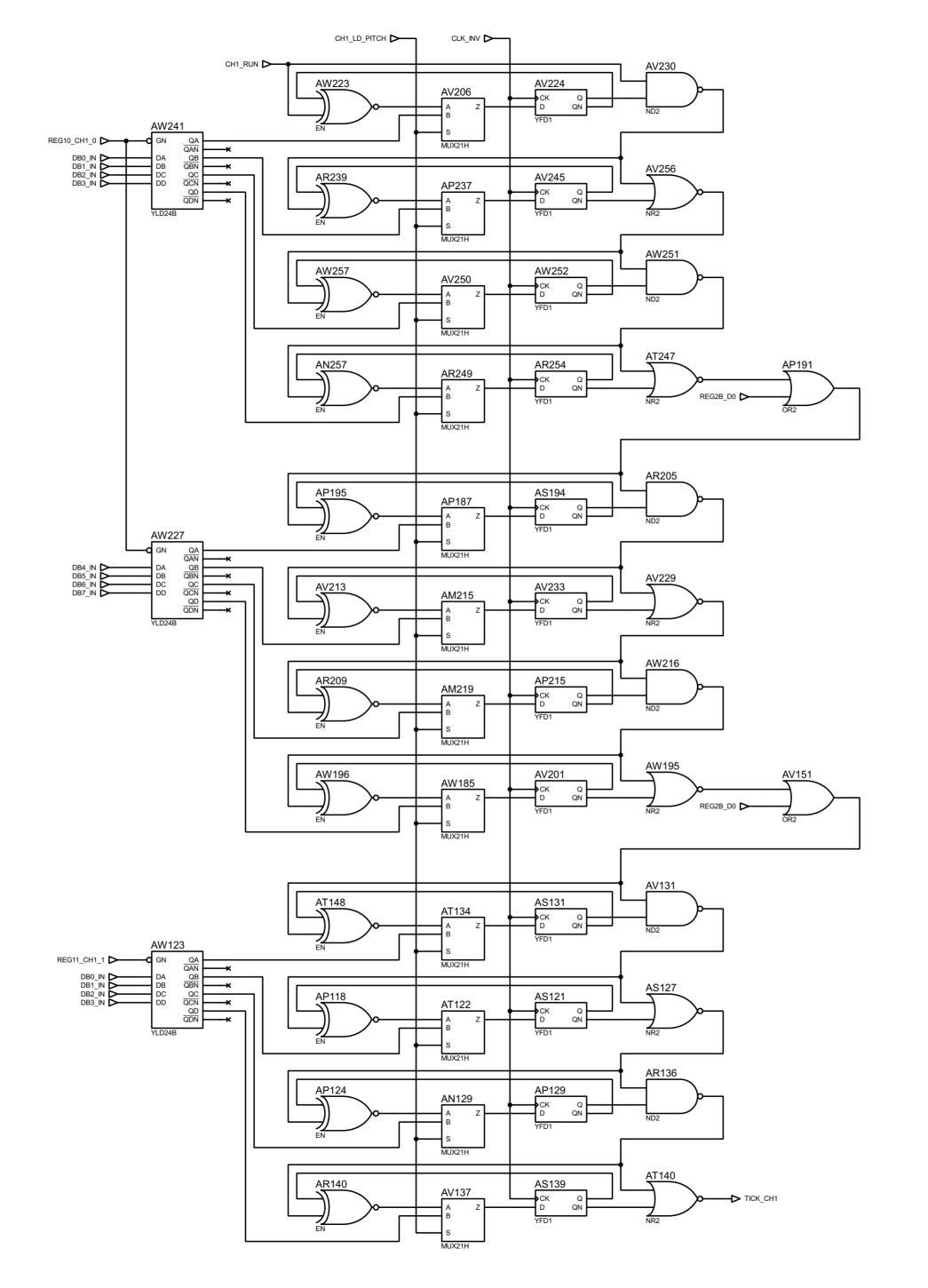
BY:	Sean Gonsalves	REV:	Α	21/34
	onami 053260 RE VOL MUX			22/03/2023 PAGE:
TITLE				DATE:



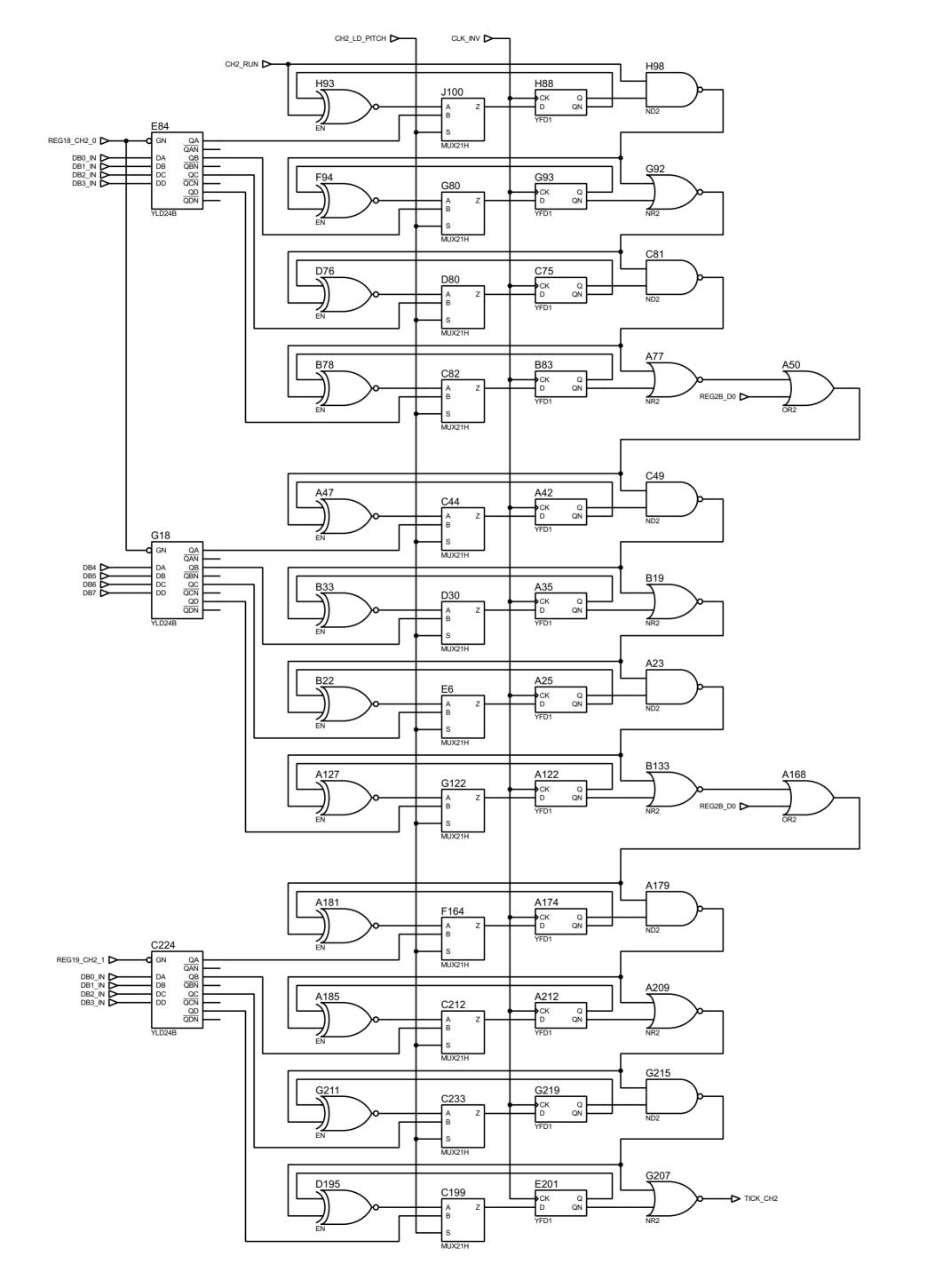
TITLE:	DATE:
Konami 053260	22/03/2023
MULTIPLIER	PAGE:
	00/04



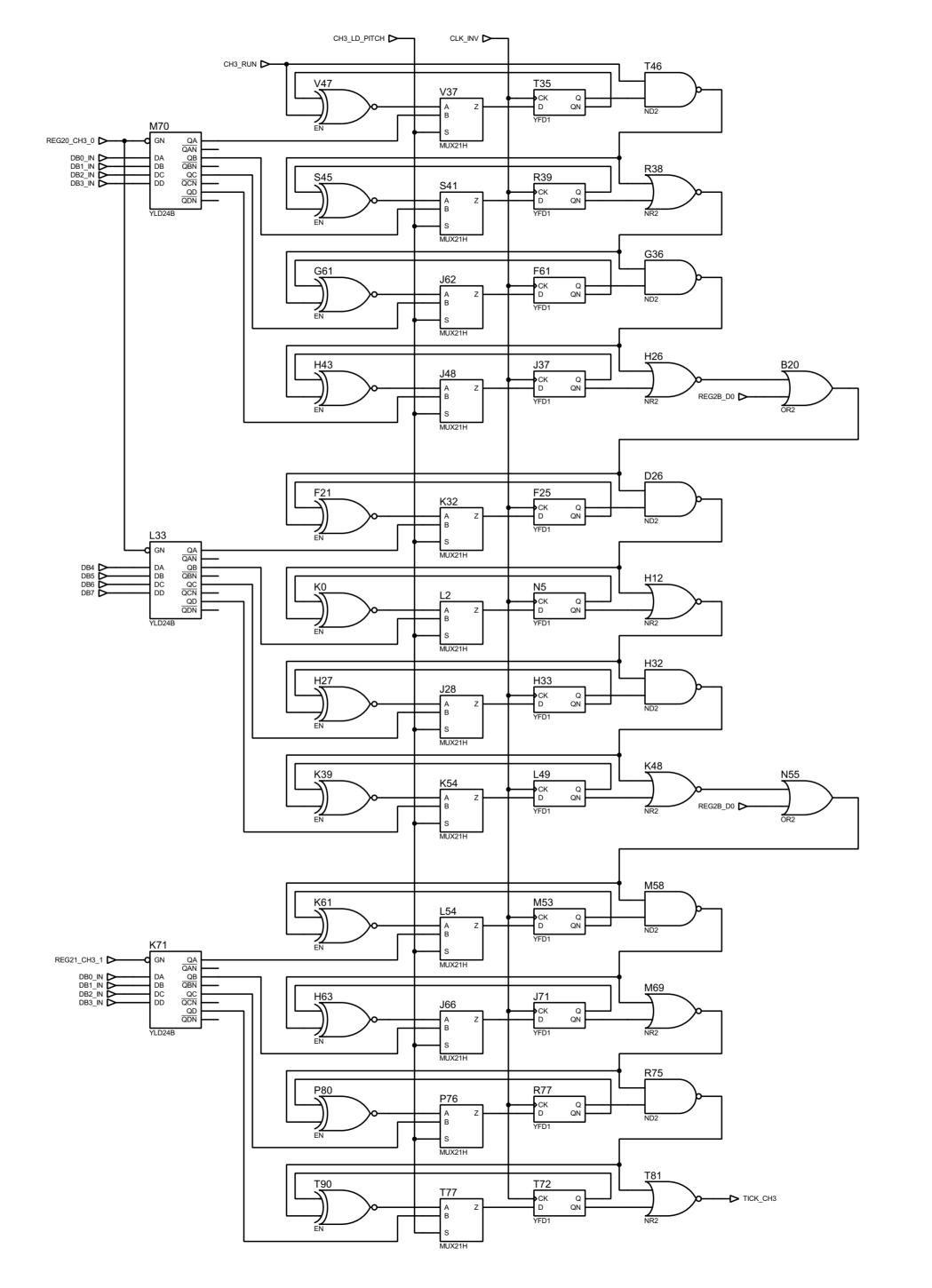
TITLE:				DATE:
K	onami 053260			22/03/2023
С	H0 PITCH			PAGE:
BY:	Sean Gonsalves	REV:	Α	23/34



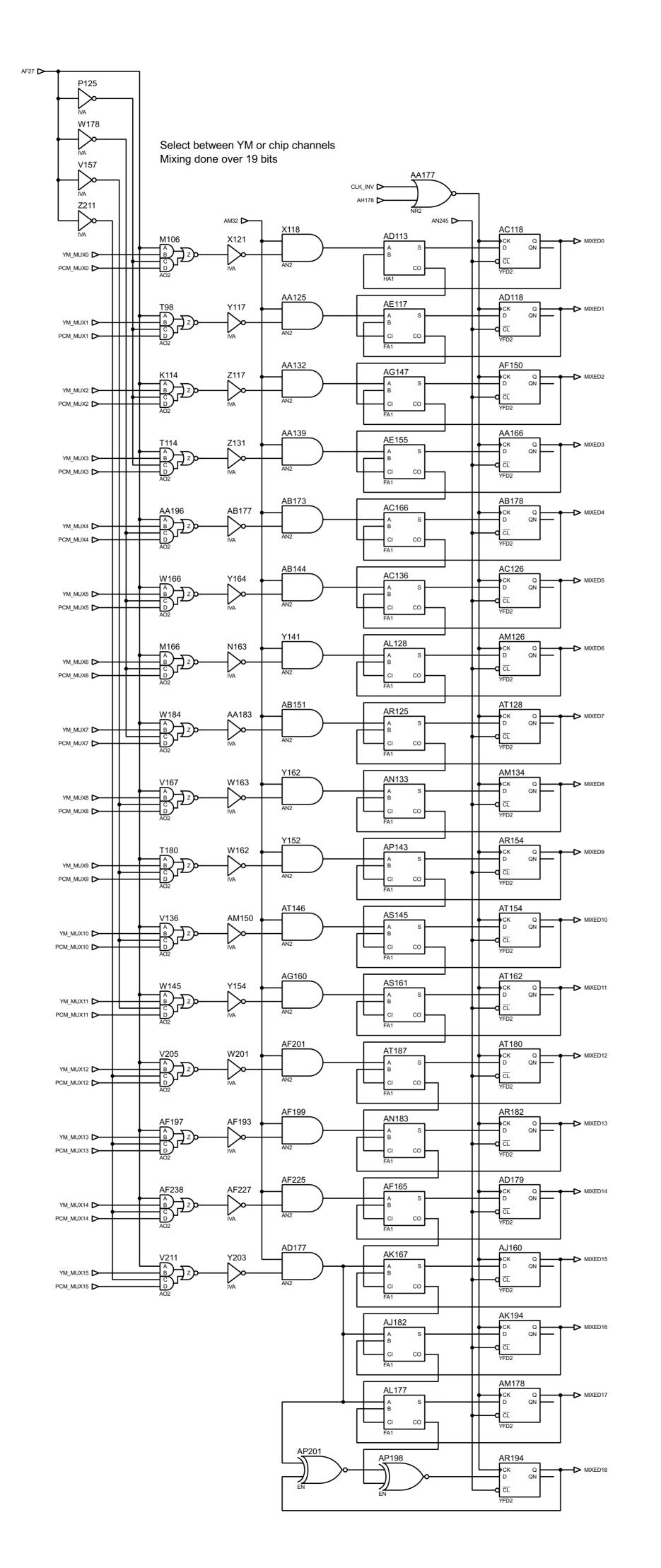
TITLE:		DATE:
Konami 053260		22/03/2023
CH1 PITCH		PAGE:
BY: Sean Gonsalves	REV: A	24/34



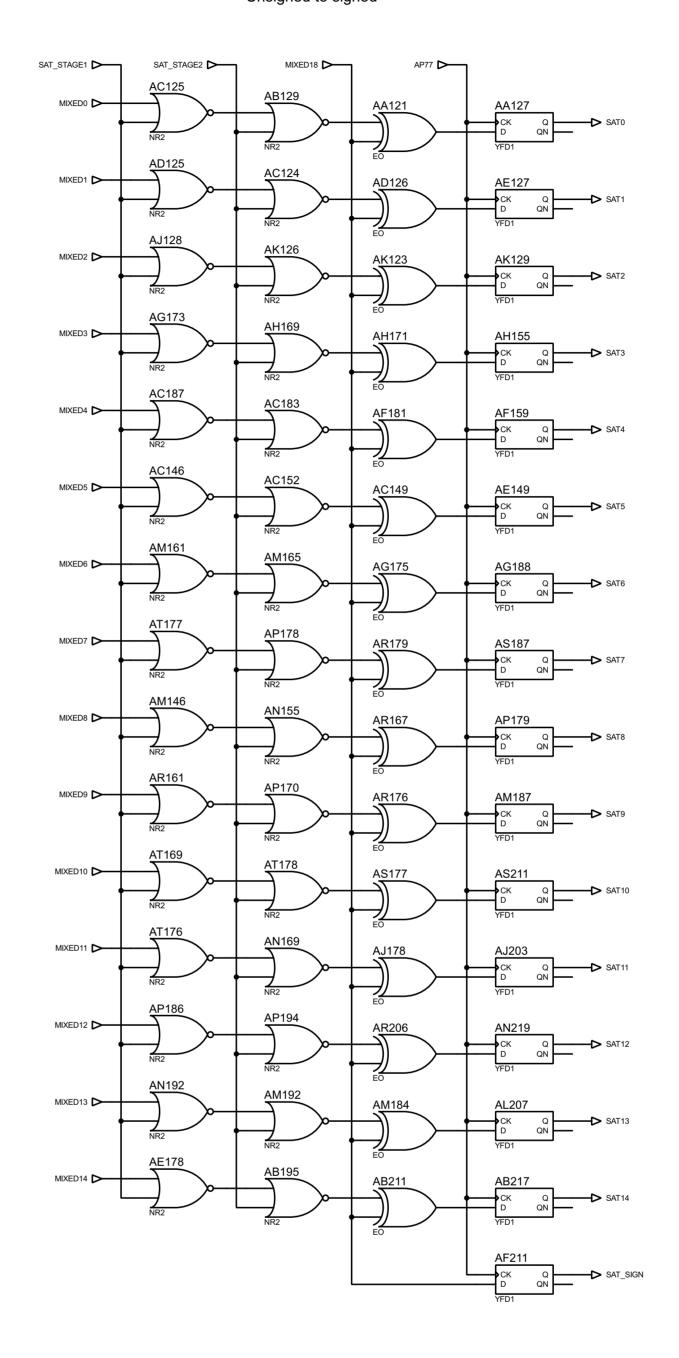
TITLE:		DATE:
Konami 053260		22/03/2023
CH2 PITCH		PAGE:
BY: Sean Gonsalves	REV: A	25/34

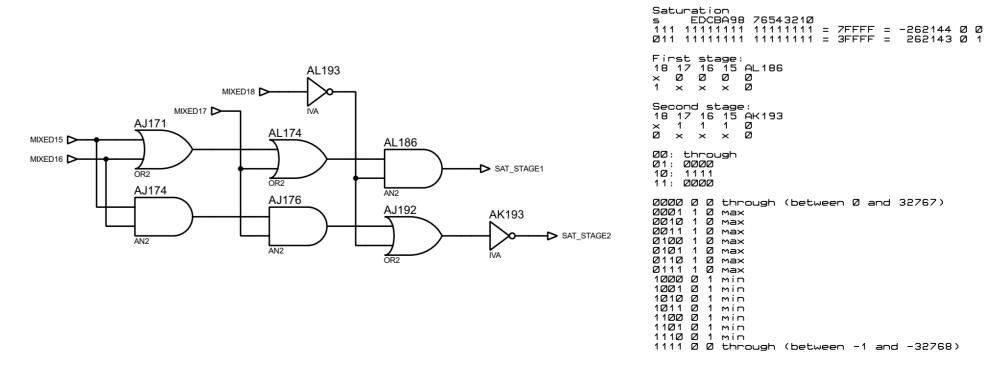


TITLE:		DATE:
Konami 053260		22/03/2023
CH3 PITCH		PAGE:
BY: Sean Gonsalves	REV: A	26/34

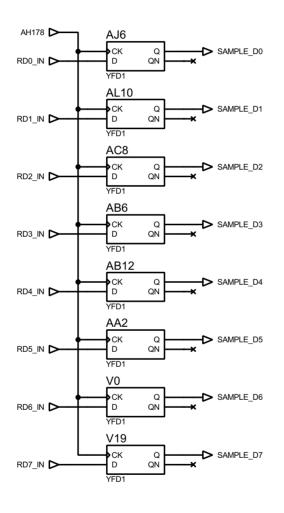


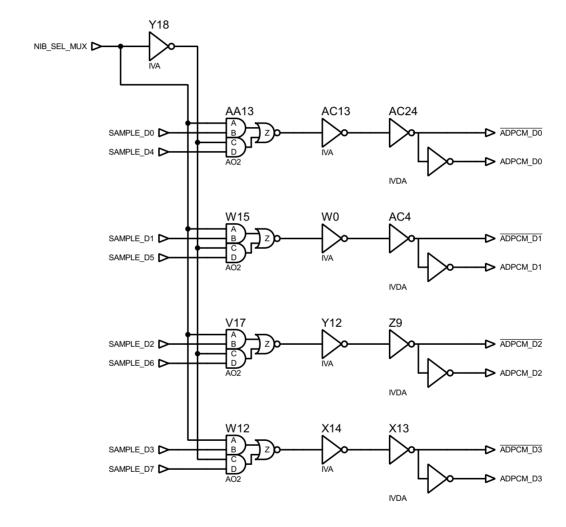
Saturation
Unsigned to signed



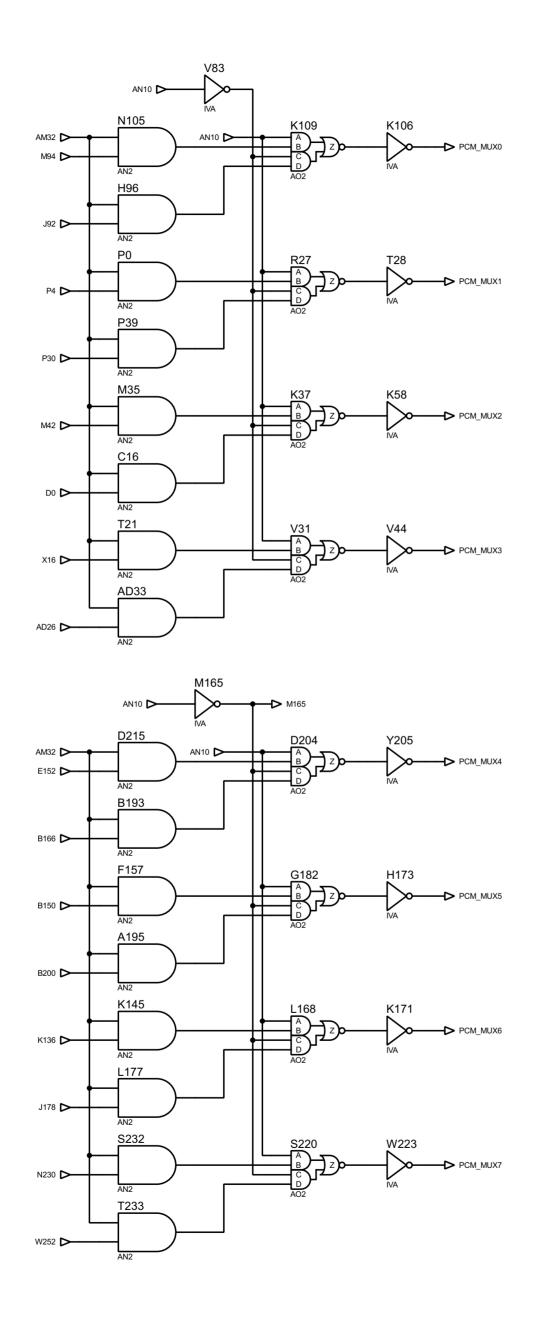


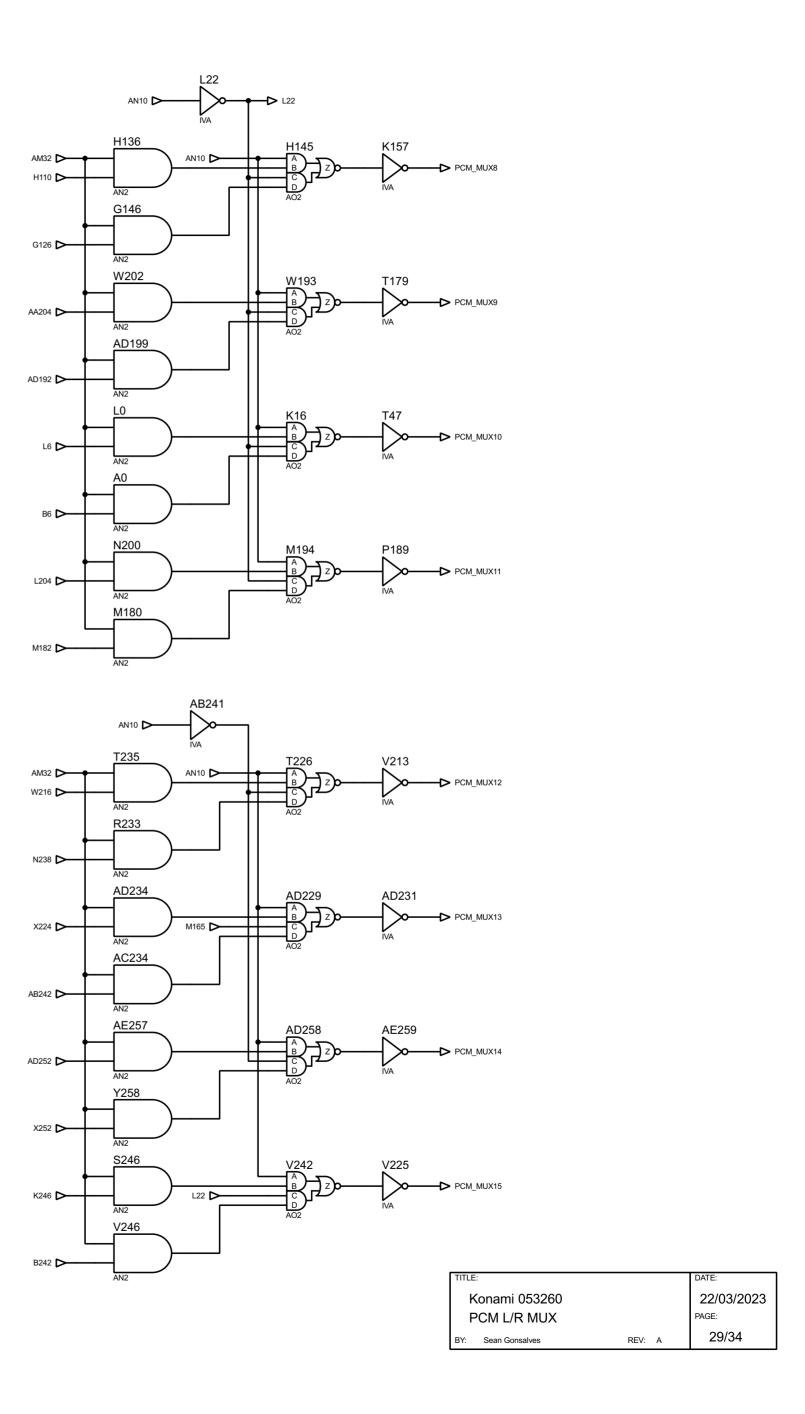
TITLE:		DATE:
Konami 053260		22/03/2023
ACCUMULATOR		PAGE:
RY Sean Gonsalves	RE\/· ∆	27/34



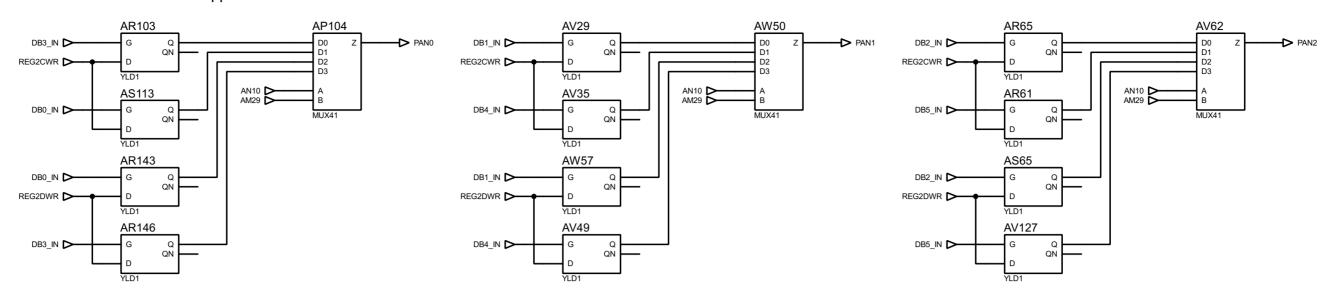


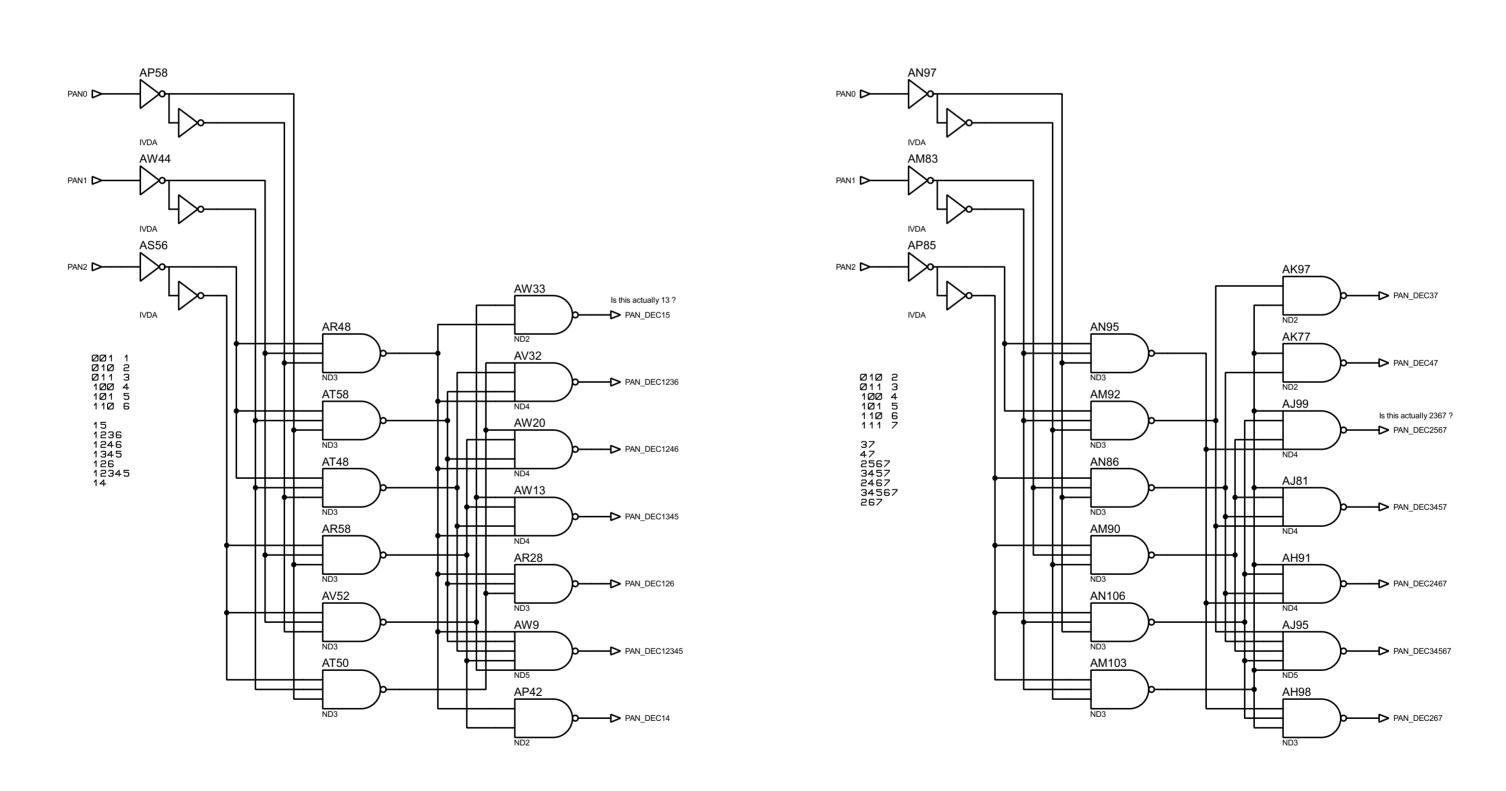
TITLE:		DATE:
Konami 053260		22/03/2023
ROM READ		PAGE:
BY: Sean Gonsalves	REV: A	28/34





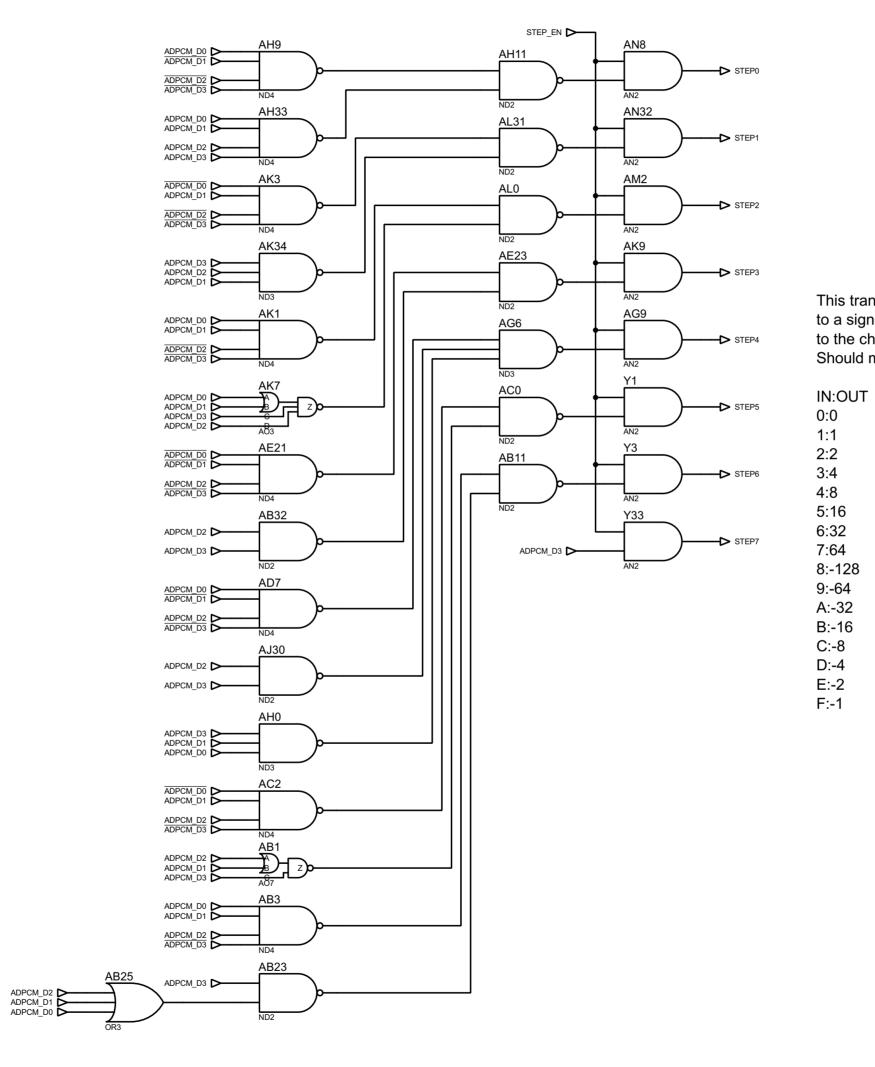
#### Shouldn't these two be swapped?





This stuff decodes the 8 possible pan values to a 16 signals used to modify the channel's volume setting

TITLE:		DATE:
Konami 053260		22/03/2023
PAN LUT		PAGE:
BY: Sean Gonsalves	REV: A	30/34

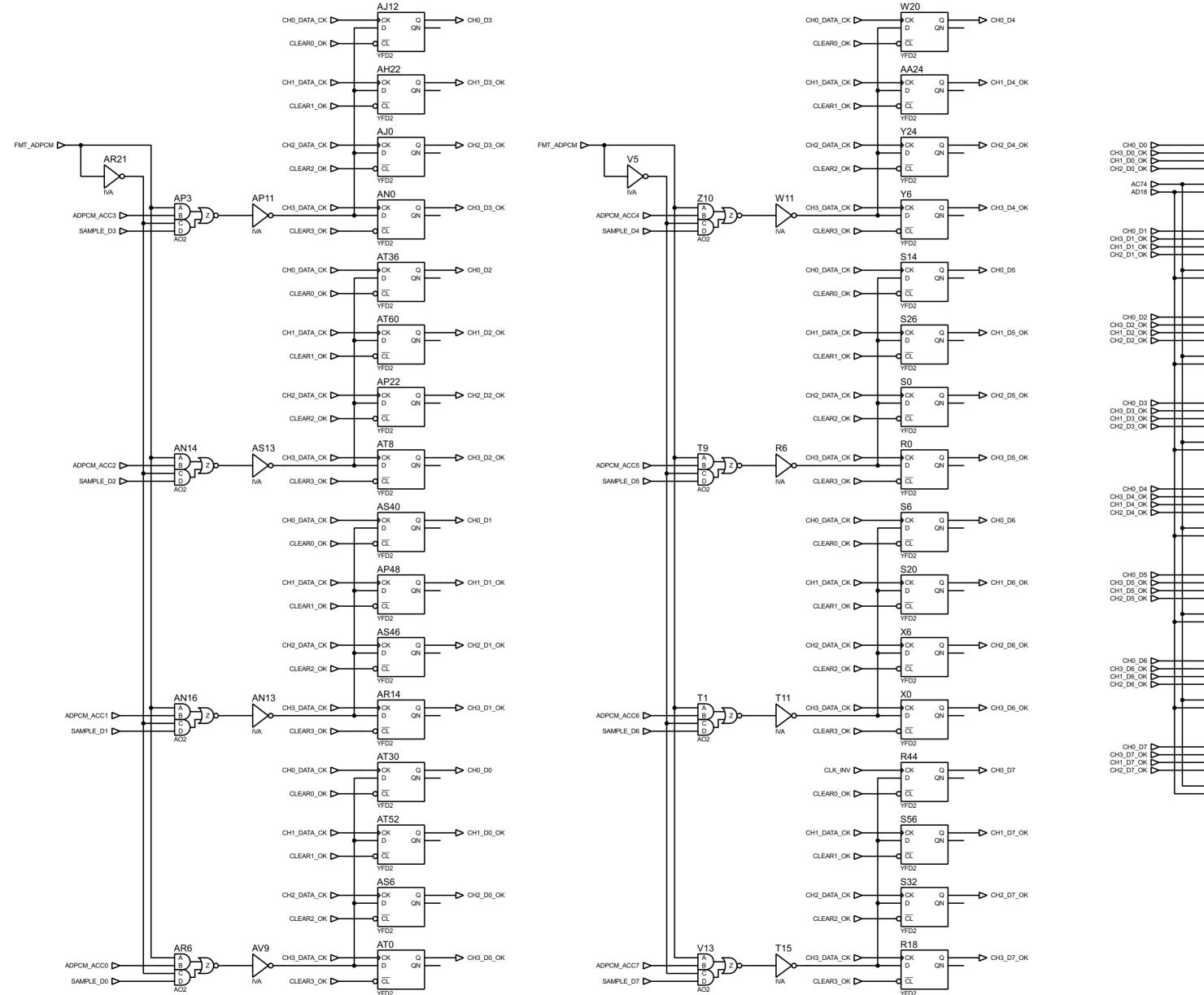


This translates the 4-bit ADPCM sample to a signed value that must be added to the channel's accumulator. Should match MAME's kadpcm\_table[].

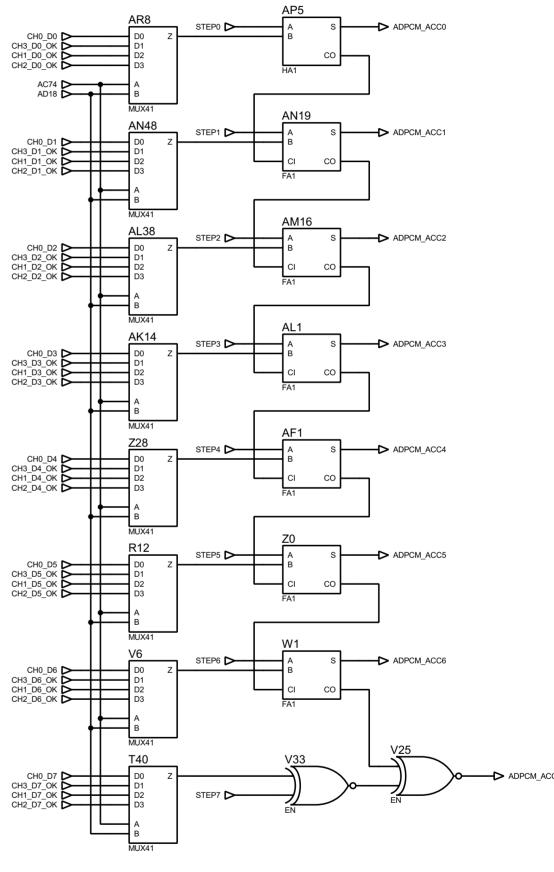
0:0
1:1
2:2
3:4
4:8
5:16
6:32
7:64
8:-128
9:-64
A:-32
B:-16
C:-8
D:-4
E:-2

TITLE:					DATE:
K	onami 053260				22/03/2023
A	DPCM STEP GEN				PAGE:
BY:	Sean Gonsalves	ı	REV:	Α	31/34

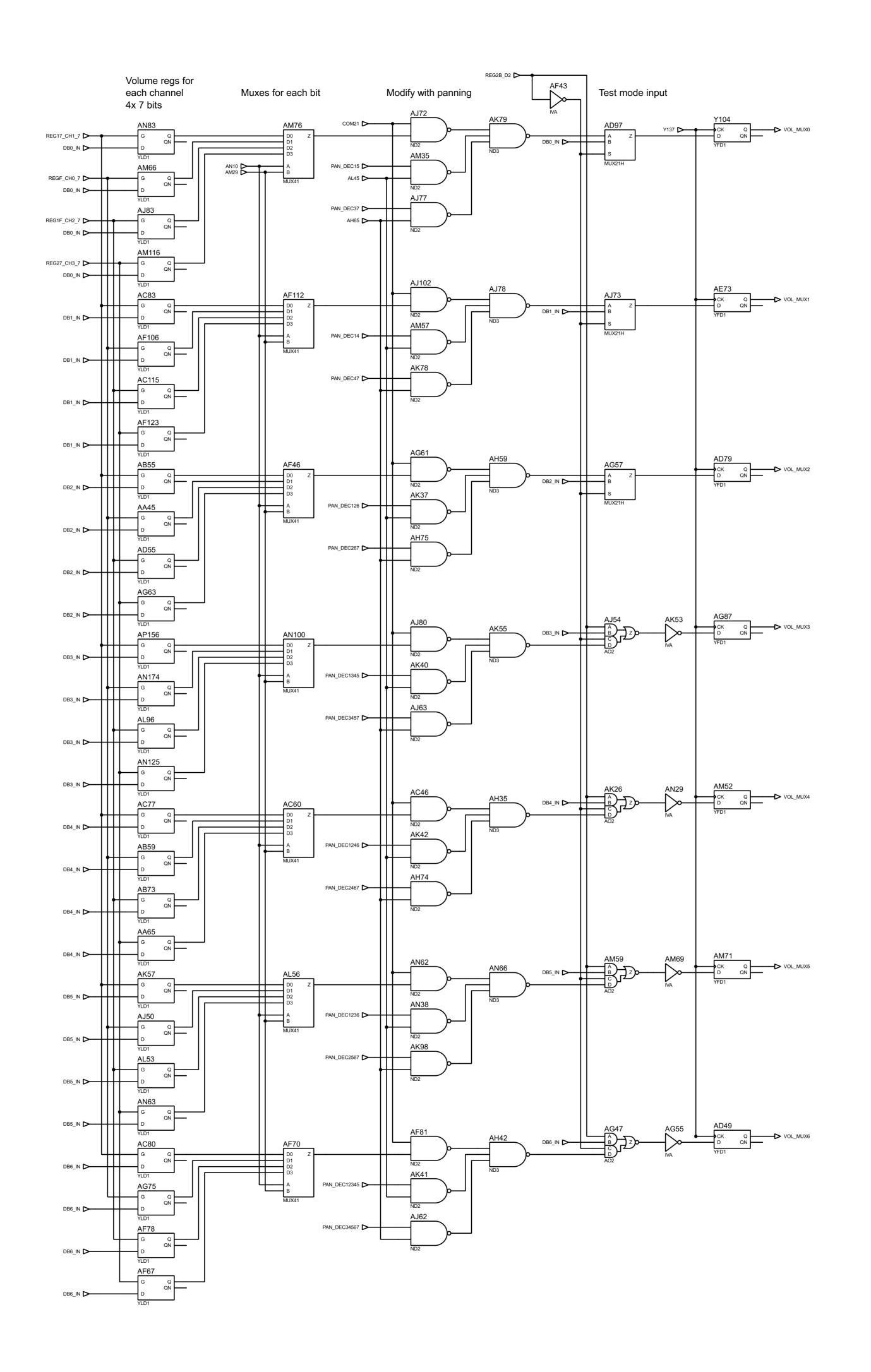
# 4 CH x 8-bit regs for sample values Either load from ROM, or acc ADPCM



### ADPCM acc

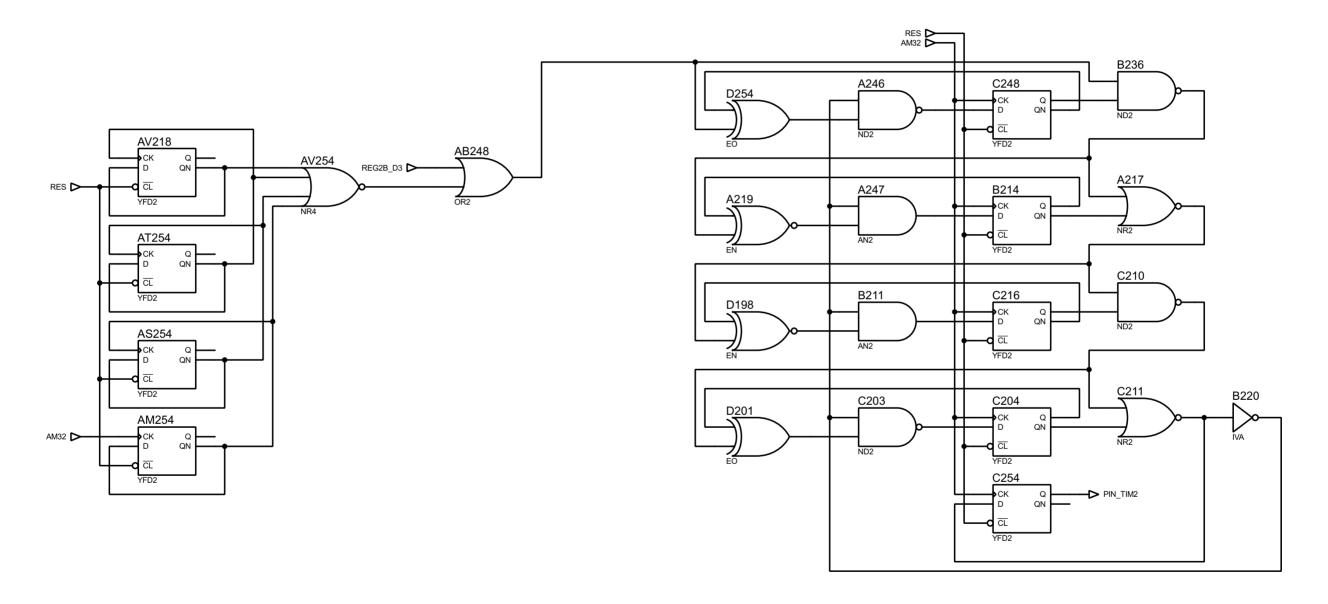


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	k	Konami 053260			22/03/2023
	S	SAMPLE REGs			PAGE:
	BY:	Sean Gonsalves	REV:	Α	32/34



- 1					
	K	onami 053260			22/03/2023
	V	OLUME			PAGE:
	BY:	Sean Gonsalves	REV:	Α	33/34

#### Further clock division for TIM2 output



TITLE:			DATE:	
Konami 05326	Konami 053260			
TIMER OUTP	JT		PAGE:	
BY: Sean Gonsalves	REV:	Α	34/34	