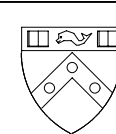
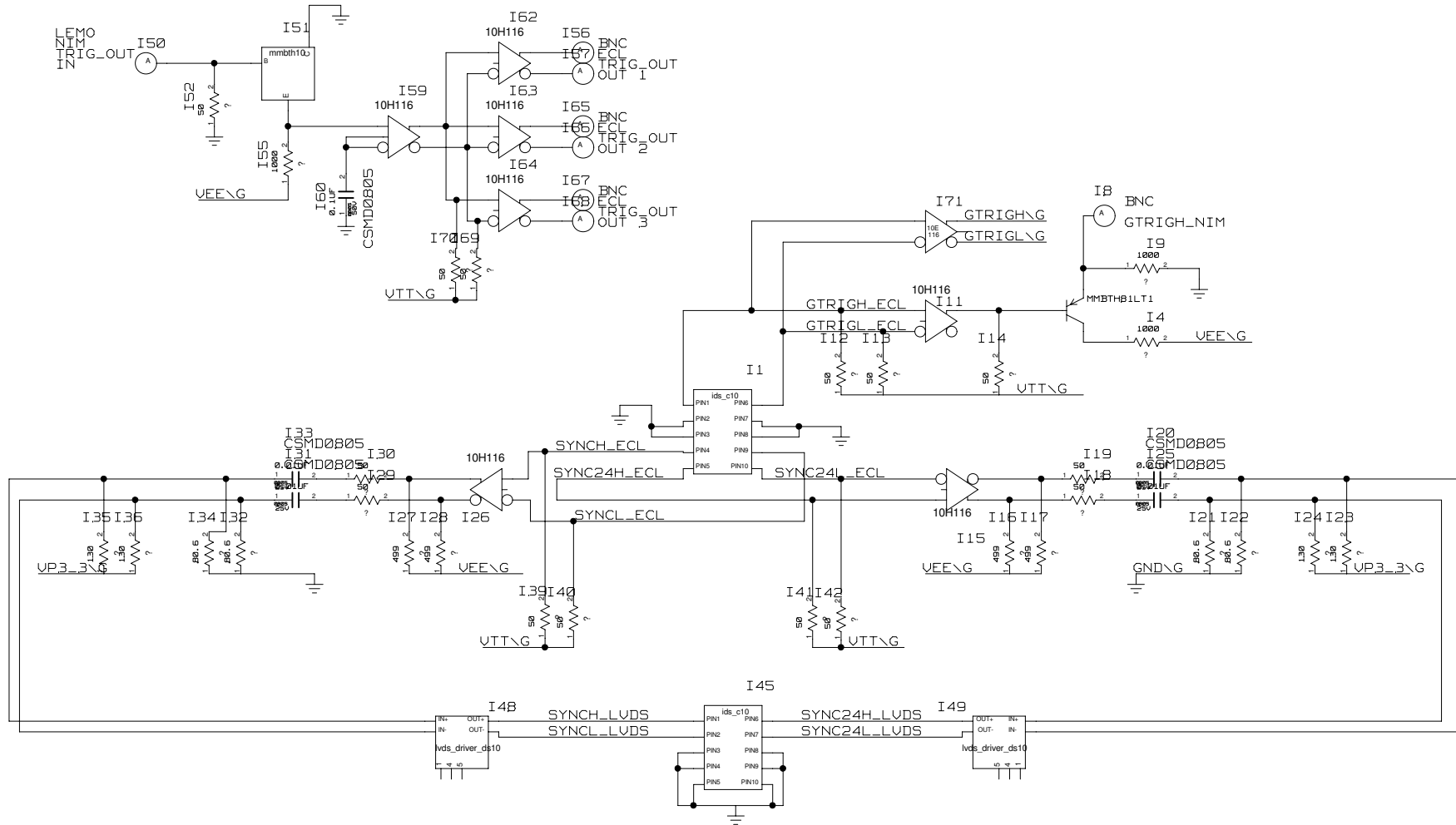
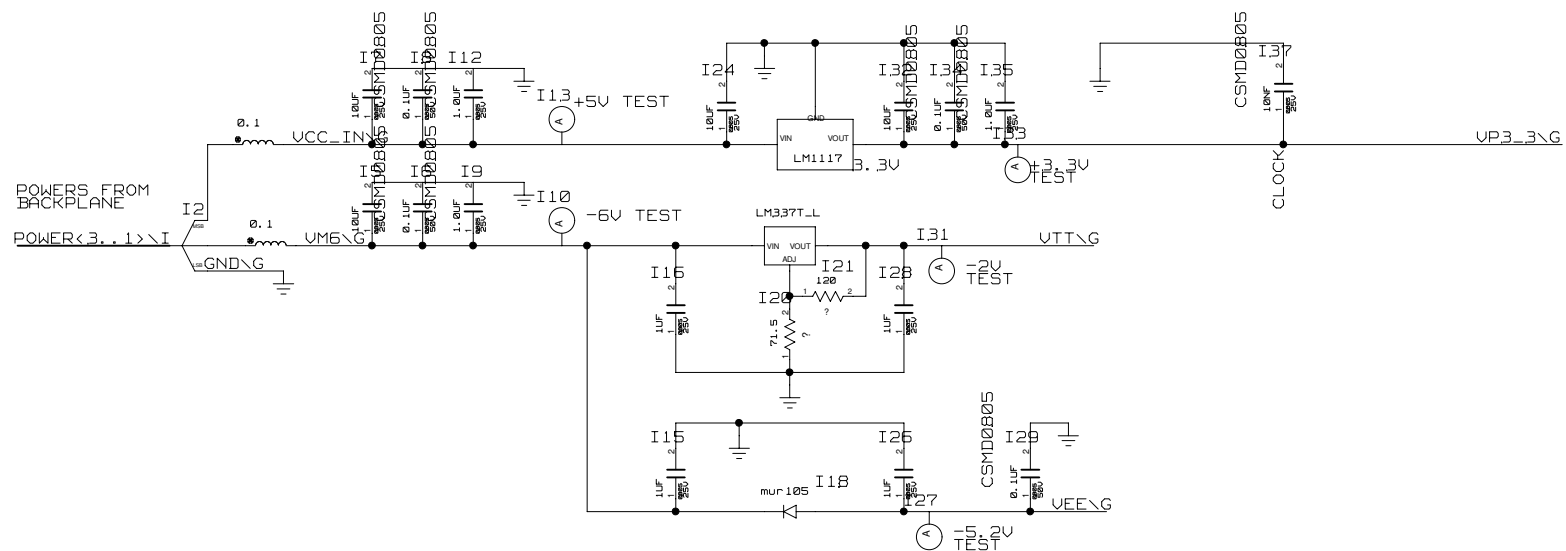



# CAEN CONVERSATIONS



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HIGH ENERGY PHYSICS

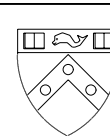
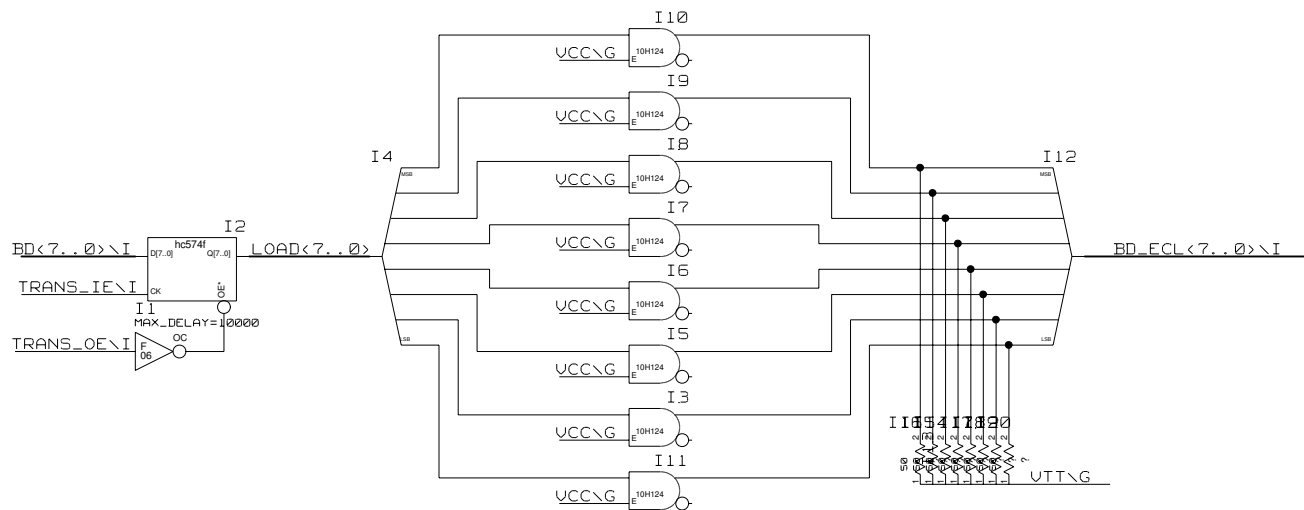
TITLE:	DATE:
ENGINEER:	PAGE:



	UNIVERSITY OF PENNSYLVANIA HIGH ENERGY PHYSICS	
	TITLE:	DATE:
	ENGINEER:	PAGE:



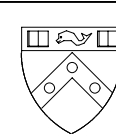
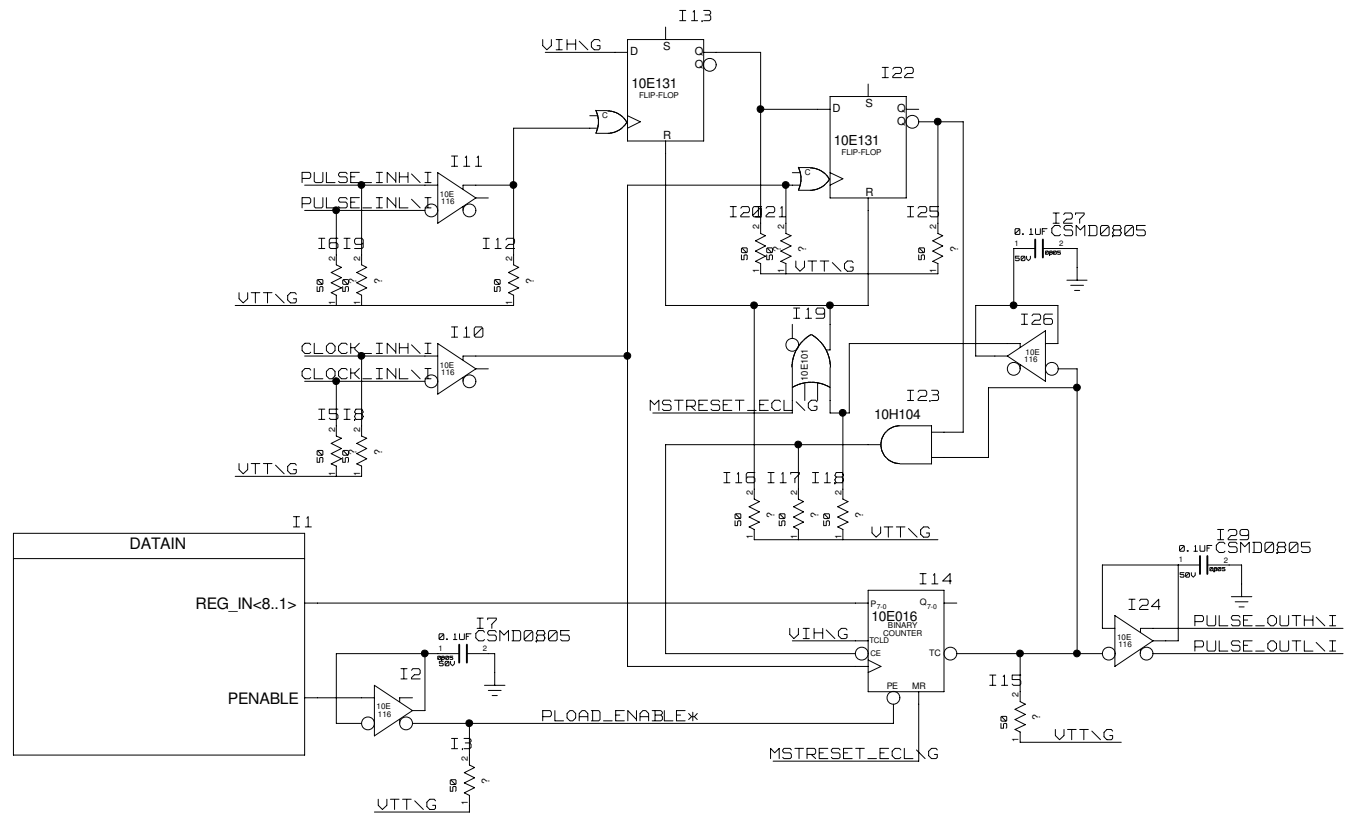
# TTL CONTROL OF 8-BIT ECL INPUTS



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TITLE:	DATE:
TTL TO ECL DATA INPUT	
ENGINEER:	PAGE:

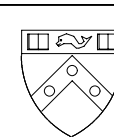
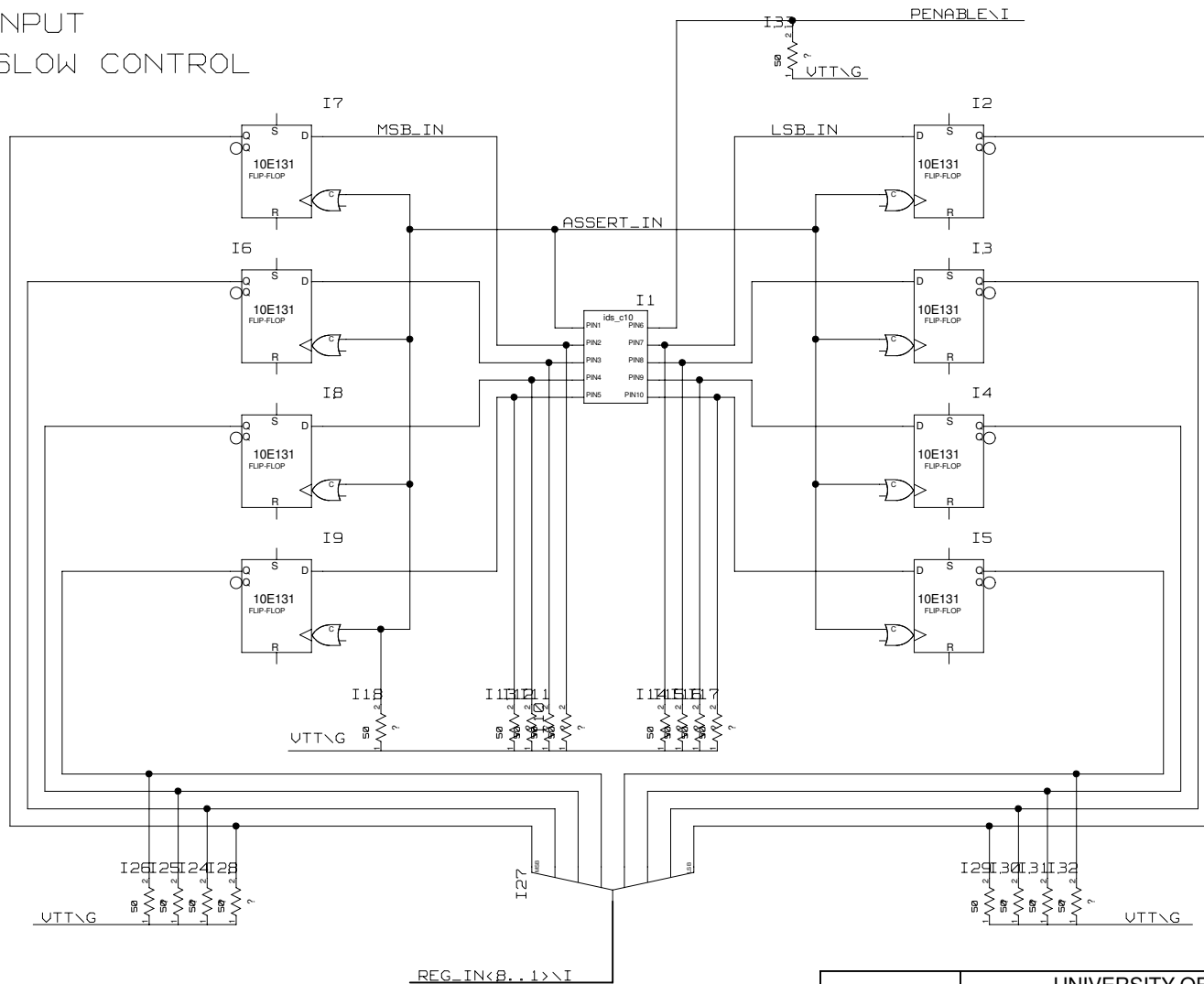
# GENERIC PROGRAMMABLE DELAY



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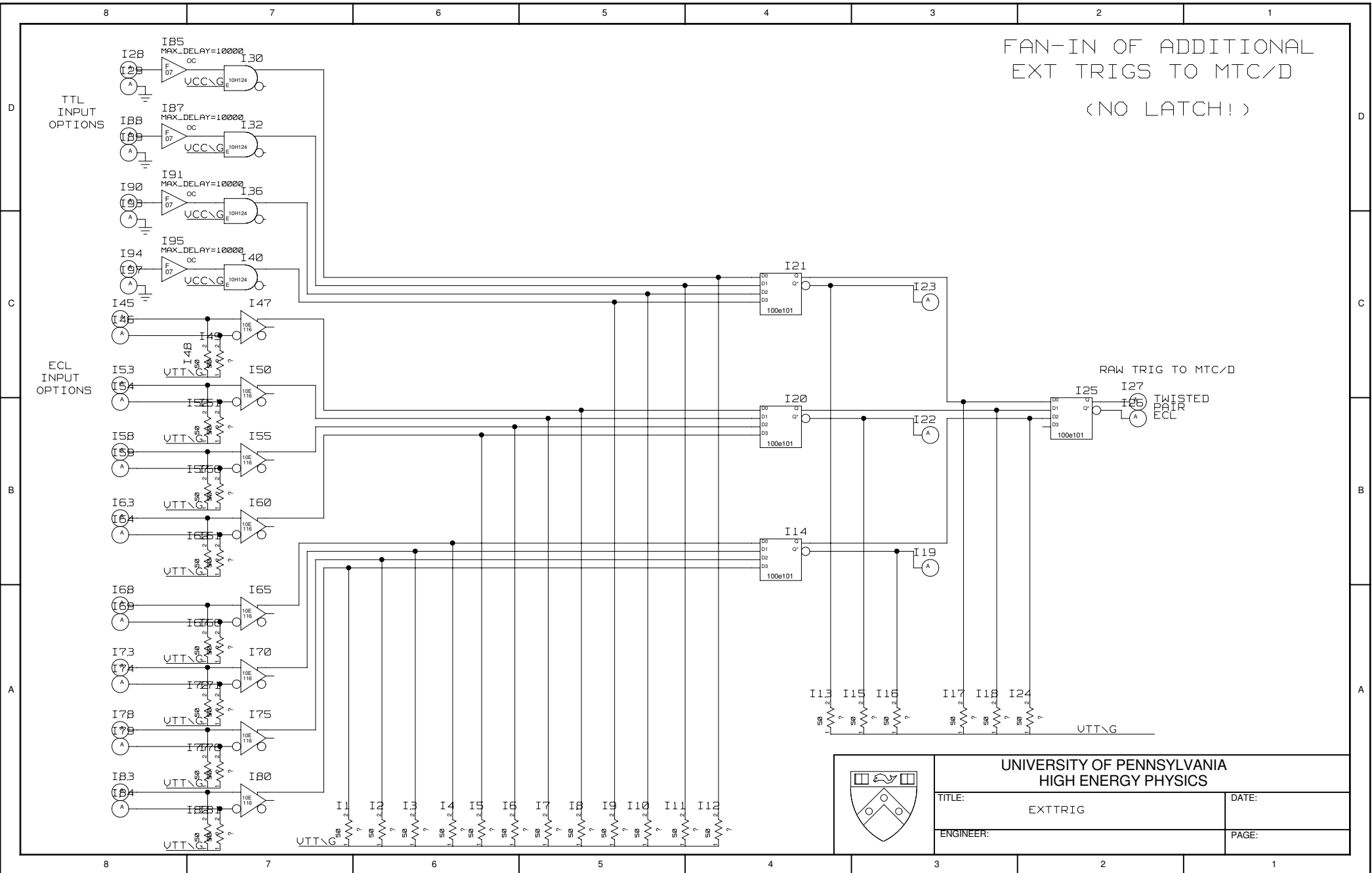
TITLE:	PROGDELAY	DATE:
ENGINEER:		PAGE:

DATA INPUT  
FROM EG SLOW CONTROL

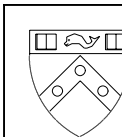
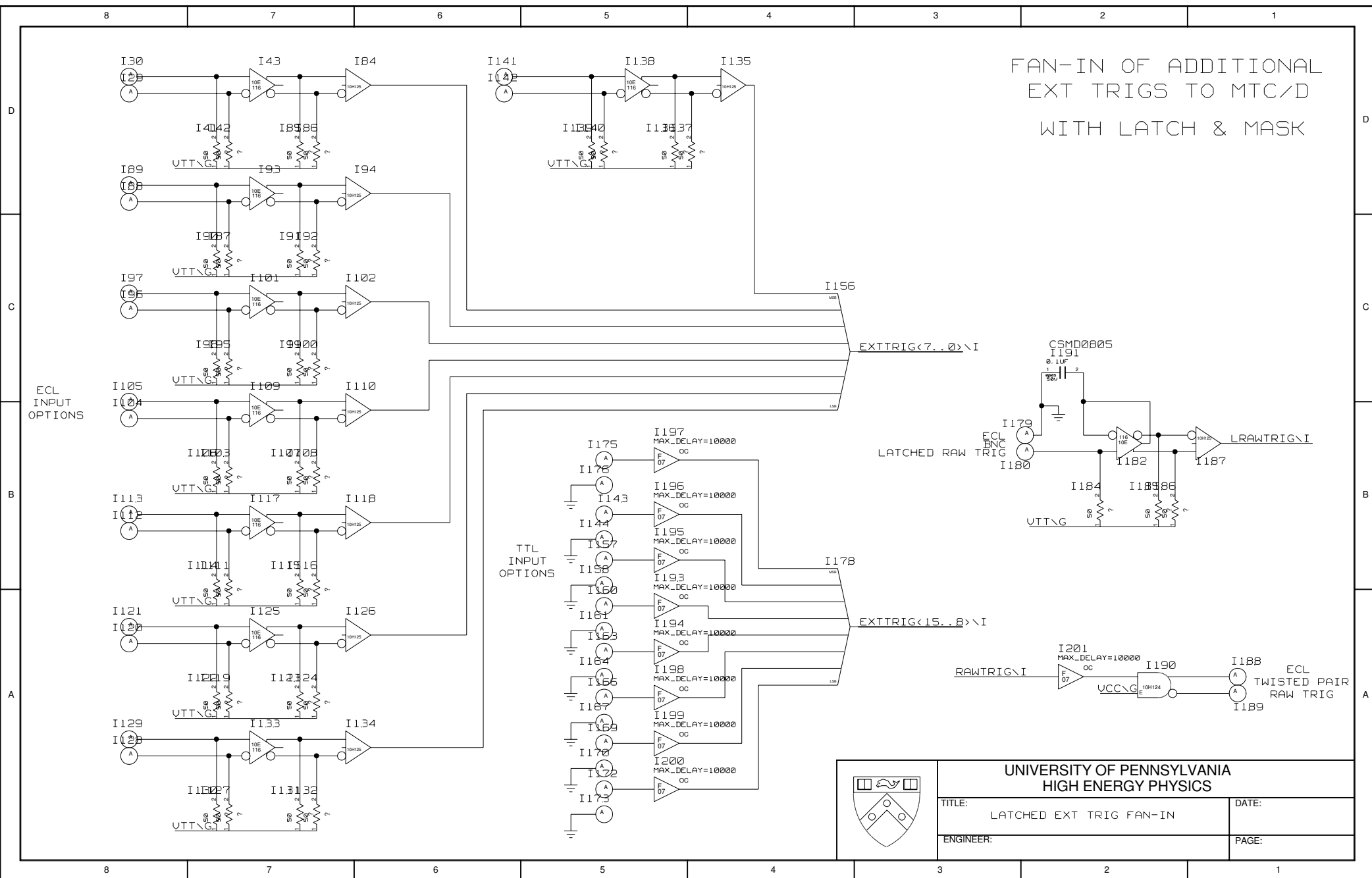


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HIGH ENERGY PHYSICS

TITLE: DATAIN		DATE:
ENGINEER:		PAGE:

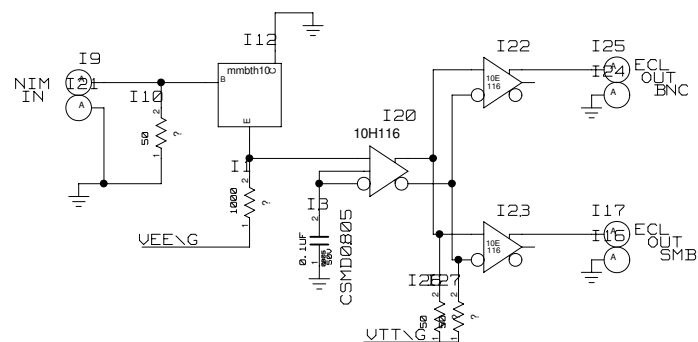





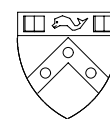
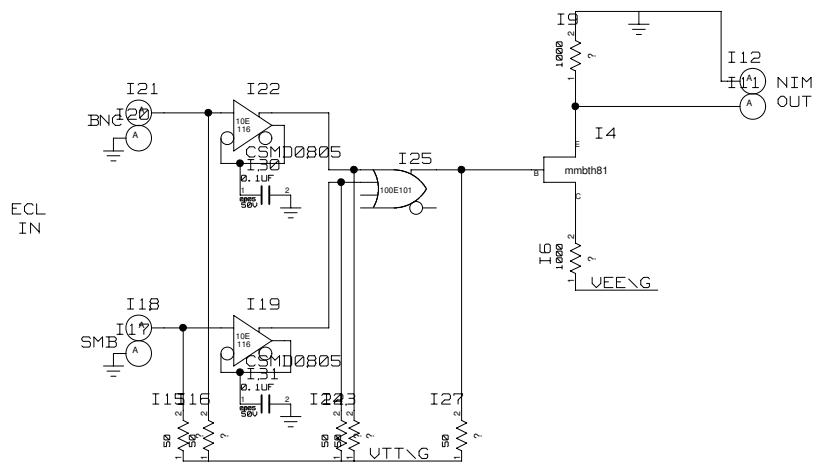


# UNIVERSITY OF PENNSYLVANIA HIGH ENERGY PHYSICS

TITLE:	LATCHED EXT TRIG FAN-IN	DATE:
ENGINEER:		PAGE:

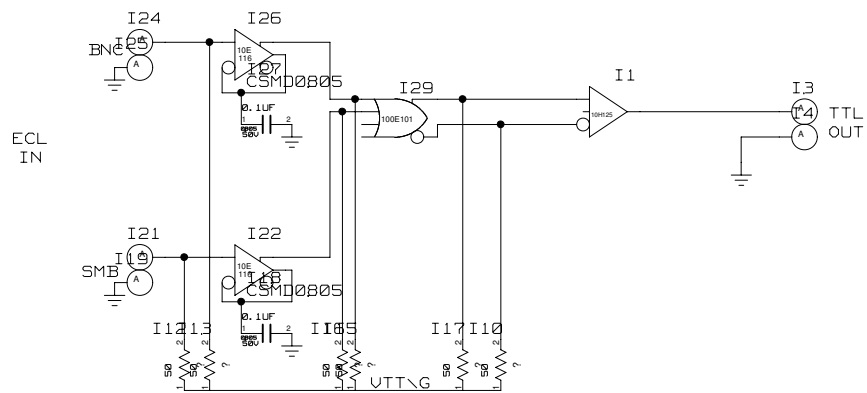


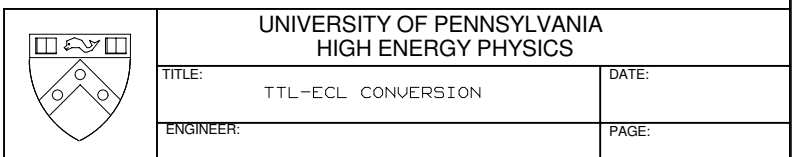
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	TITLE: NIM-ECL CONVERSION	DATE:
	ENGINEER:	PAGE:



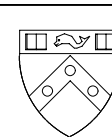
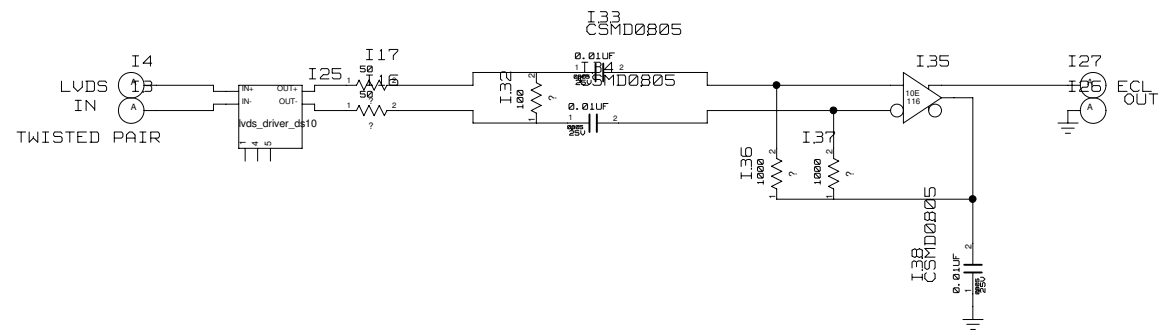
UNIVERSITY OF PENNSYLVANIA  
HIGH ENERGY PHYSICS

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ENGINEER:	PAGE:





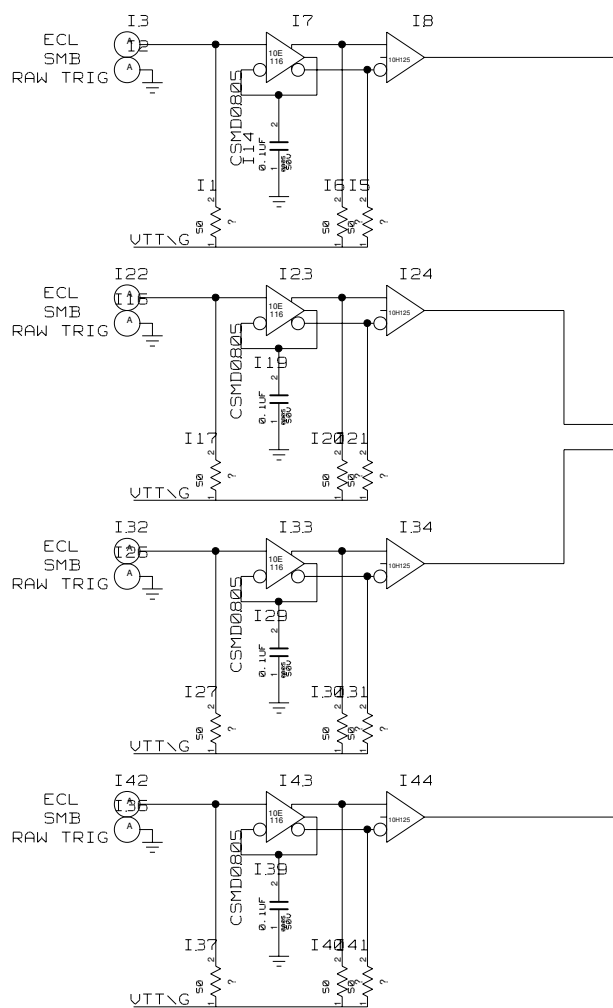




# UNIVERSITY OF PENNSYLVANIA HIGH ENERGY PHYSICS

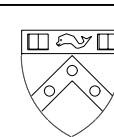
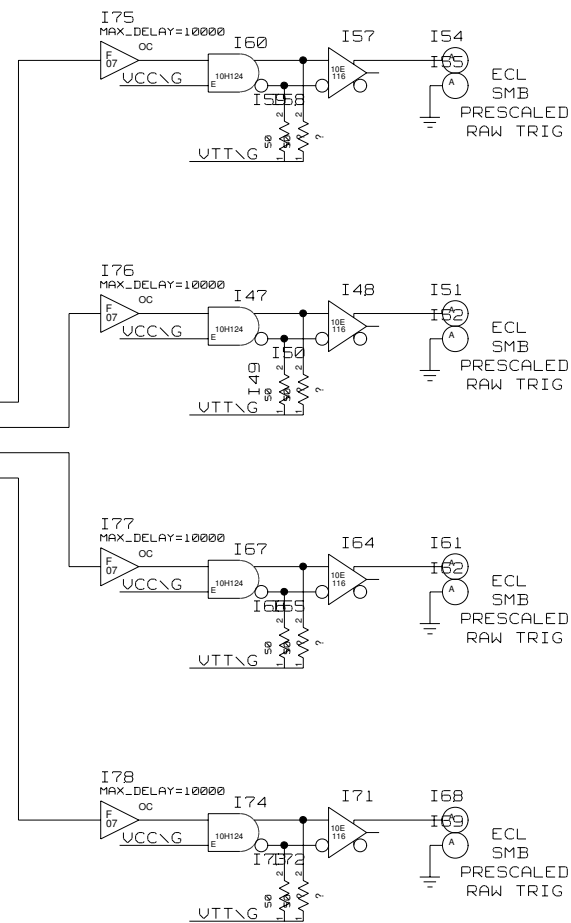
TITLE: LVDS-ECL CONVERSION	DATE:
ENGINEER:	PAGE:

# PRESCALE TRIGGER: INPUTS AND OUTPUTS TO ML403



I45  
RAWTRIGS<3..0>\I

PRESCALETRIGS<3..0>\I

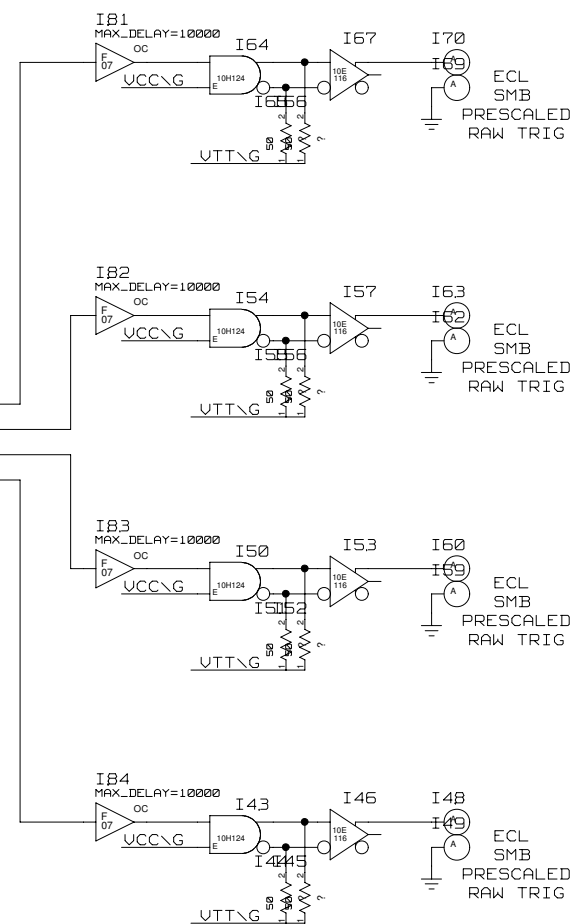
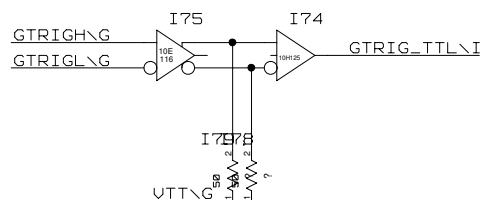
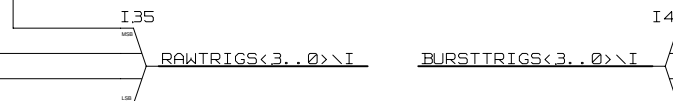
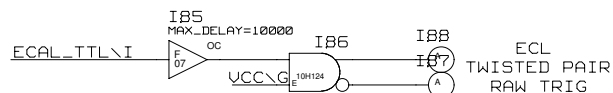
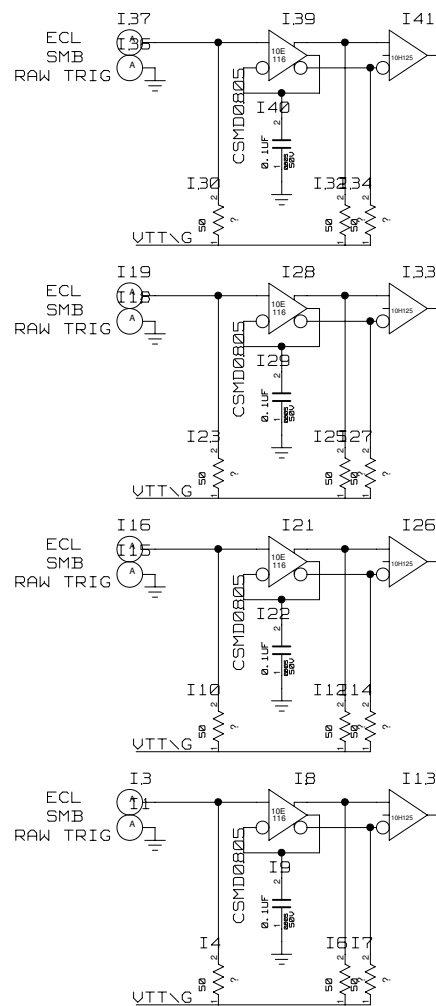


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HIGH ENERGY PHYSICS

TITLE:	PRESCALETRIG	DATE:
ENGINEER:		PAGE:



# BURST TRIGGER: INPUTS AND OUTPUTS TO ML403 PLUS ECAL OUTPUT SIGNAL



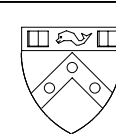
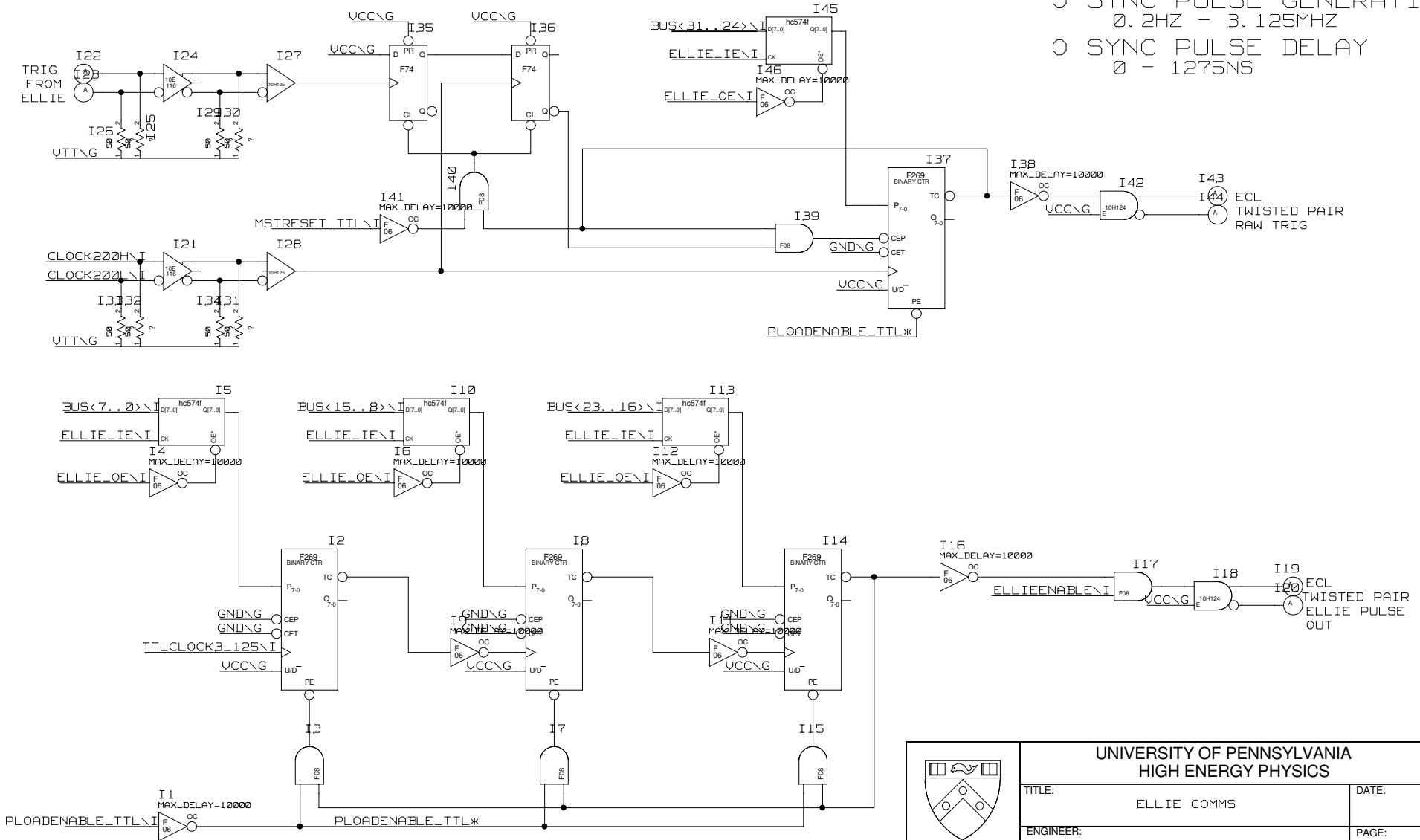
UNIVERSITY OF PENNSYLVANIA  
HIGH ENERGY PHYSICS

TITLE:	BURST TRIGGER	DATE:
ENGINEER:		PAGE:



# ELLIE COMMS

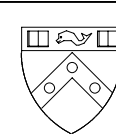
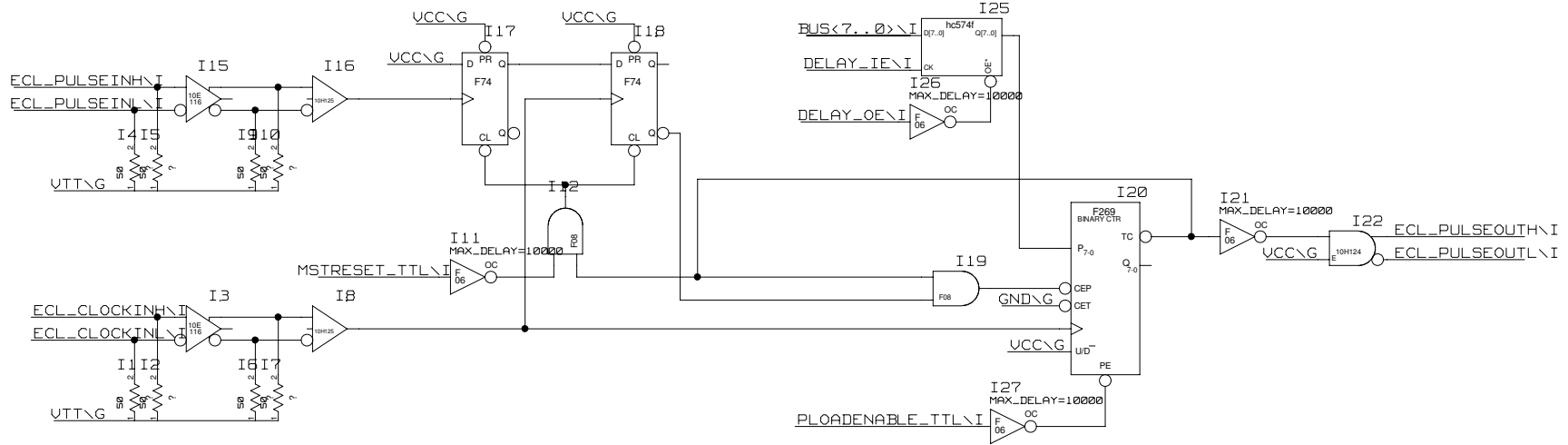
- 0 SYNC PULSE GENERATION  
0.2HZ - 3.125MHZ
- 0 SYNC PULSE DELAY  
0 - 1275NS



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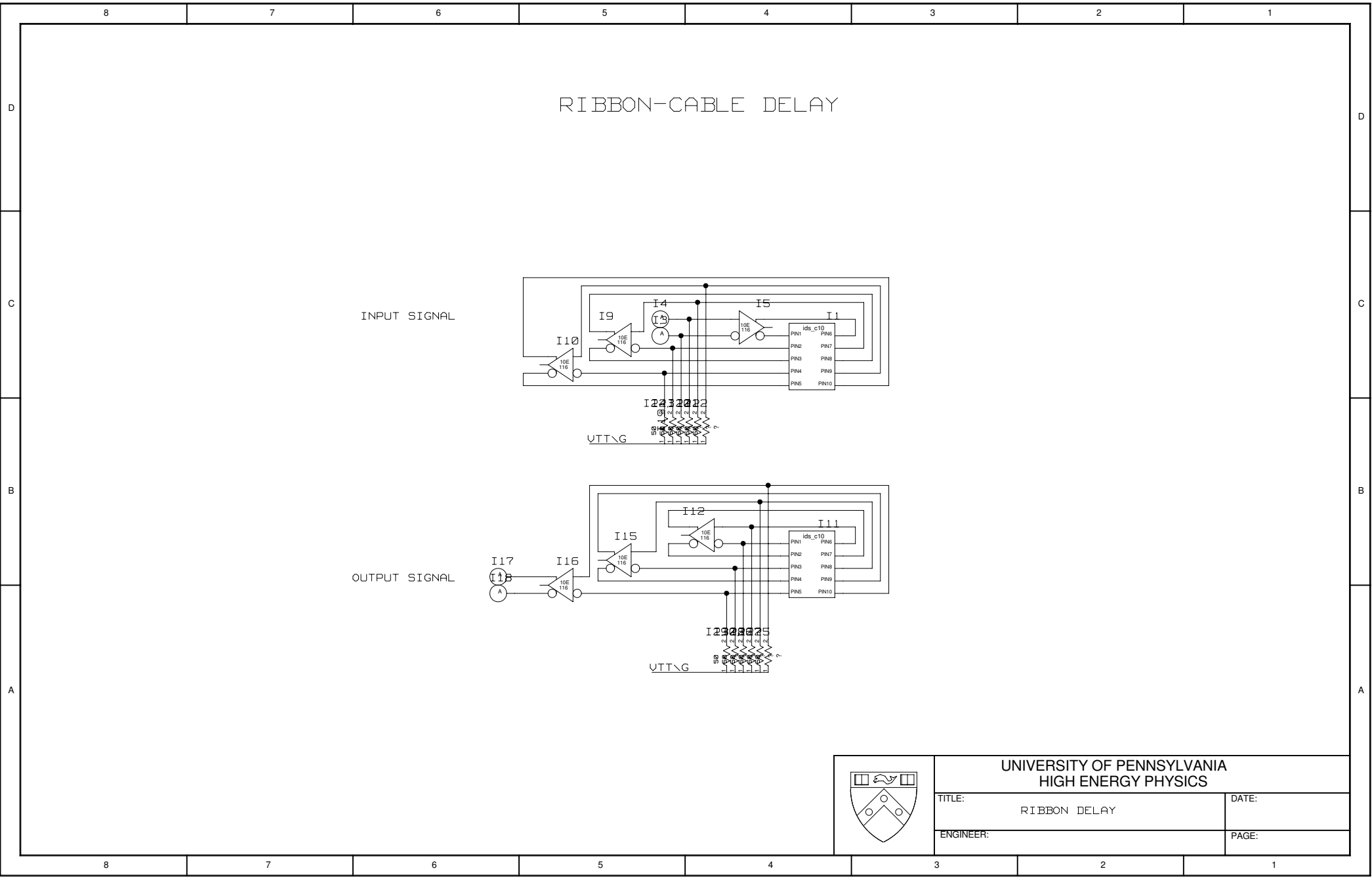
TITLE:	ELLIE COMMS	DATE:
ENGINEER:		PAGE:

# PROGRAMMABLE DELAY IN TTL (CONTROLLED BY ML403)

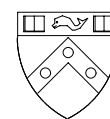
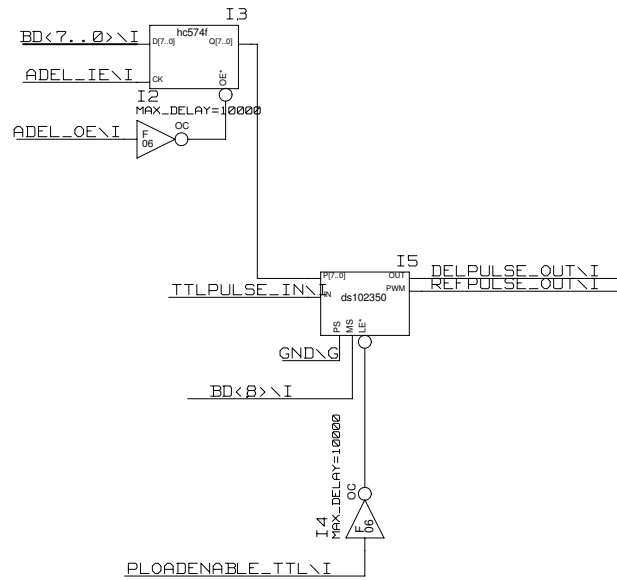


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HIGH ENERGY PHYSICS

TITLE:	TTL PROGRAMMABLE DELAY	DATE:
ENGINEER:		PAGE:

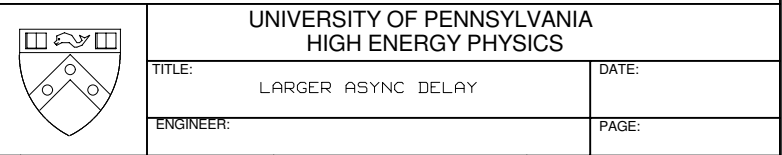


0 - 127.5 NS DELAY  
IN 0.5NS STEPS

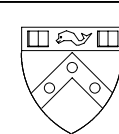
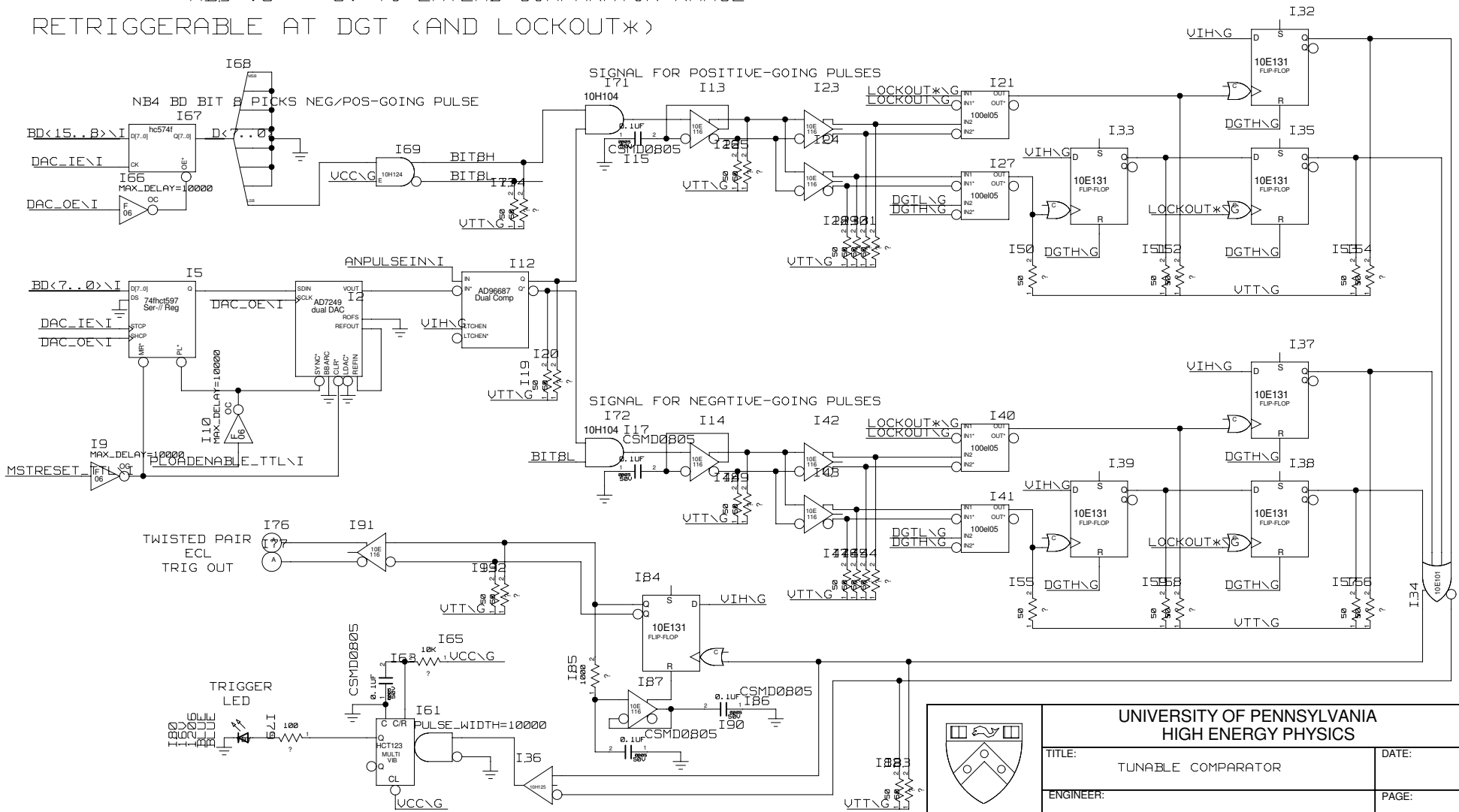


TITLE:	DATE:
ASYNC DELAY	
ENGINEER:	PAGE:

0 - 1275 NS DELAY  
IN 5.0NS STEPS



TUNABLE COMPARATOR CIRCUIT  
 RANGE: -3.3 TO +5 V; 6.5 NS DELAY (2.5NS FROM COMPARATOR)  
 NB DAC\_OE NEEDS TO CLOCK THE SERIAL DATA AT <50MHZ (PREF 25MHZ)  
 NB2 VDD = +15V VSS = -15V TO SUPPLY DAC  
 NB3 VS = -6V TO EXTEND COMPARATOR RANGE  
 RETRIGGERABLE AT DGT (AND LOCKOUT\*)



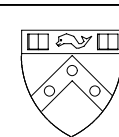
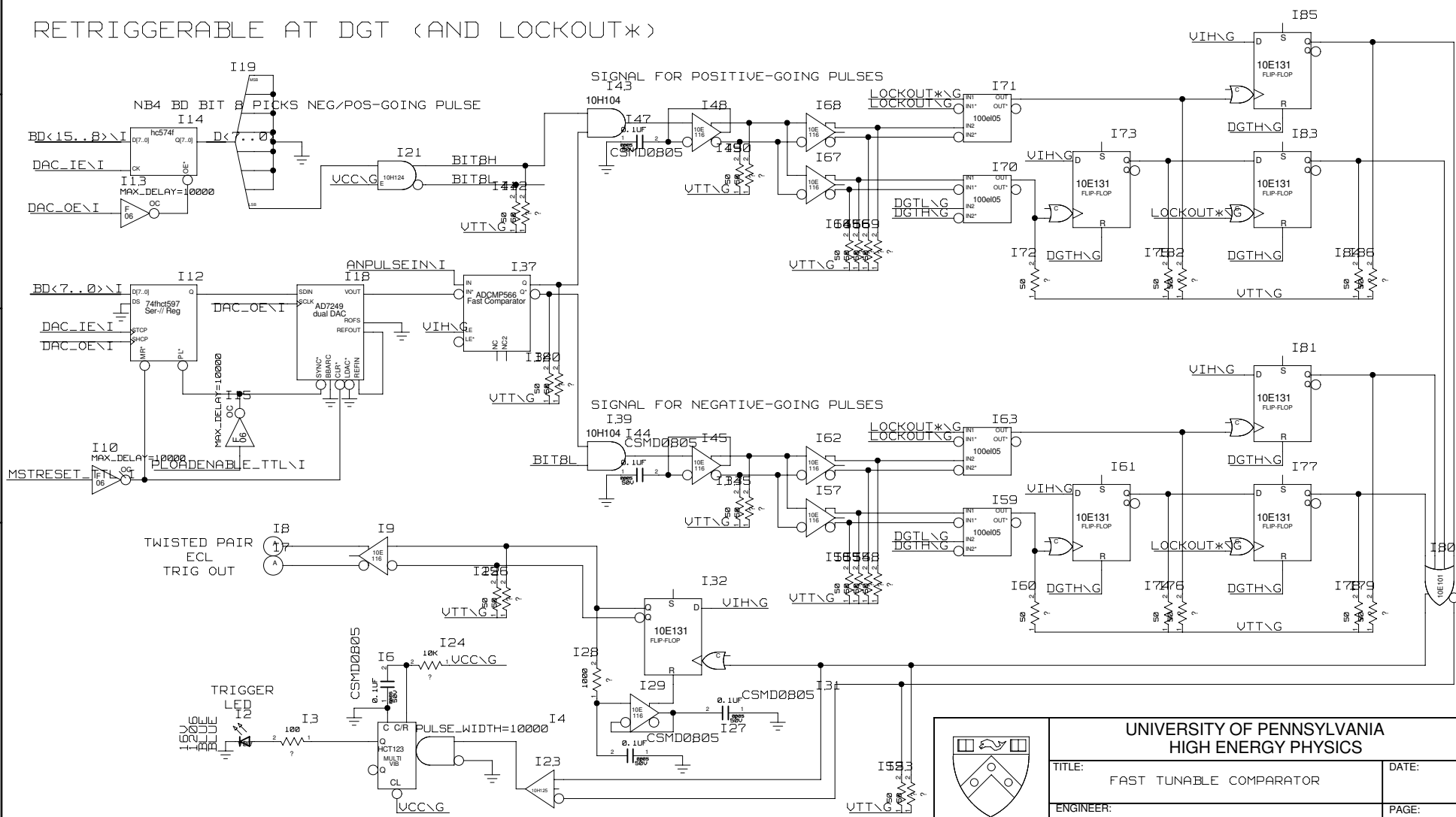
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 HIGH ENERGY PHYSICS

TITLE:	TUNABLE COMPARATOR	DATE:
ENGINEER:		PAGE:



EXTRA SPEEDY TUNABLE COMPARATOR CIRCUIT  
 RANGE: -3.3 TO +5 V; 4.25 NS DELAY (250PS FROM COMPARATOR)  
 NB DAC\_OE NEEDS TO CLOCK THE SERIAL DATA AT <50MHZ (PREF 25MHZ)  
 NB2 VDD = +15V VSS = -15V TO SUPPLY DAC

RETRIGGERABLE AT DGT (AND LOCKOUT\*)



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TITLE:	FAST TUNABLE COMPARATOR	DATE:
ENGINEER:		PAGE: