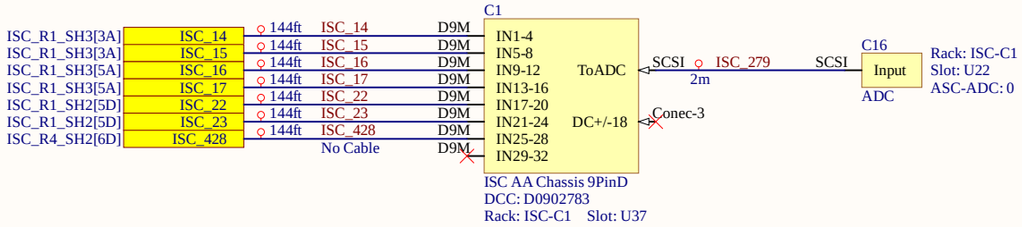
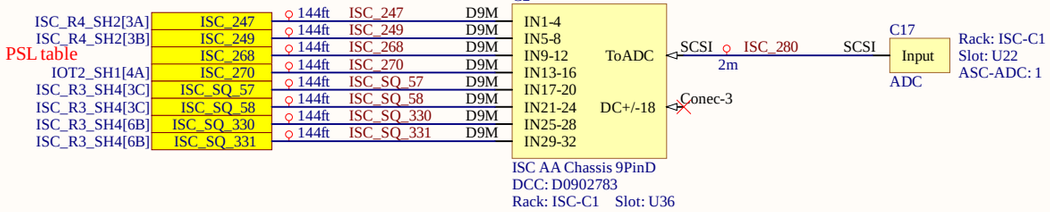
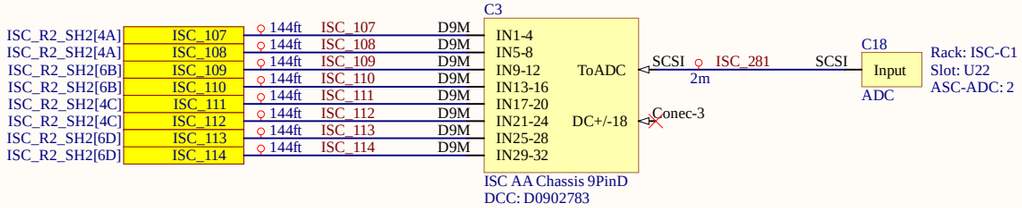
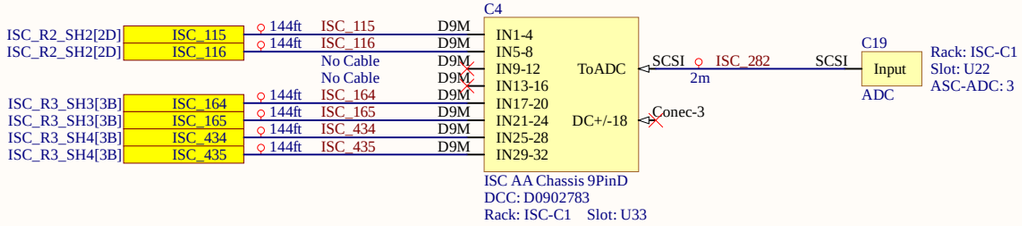
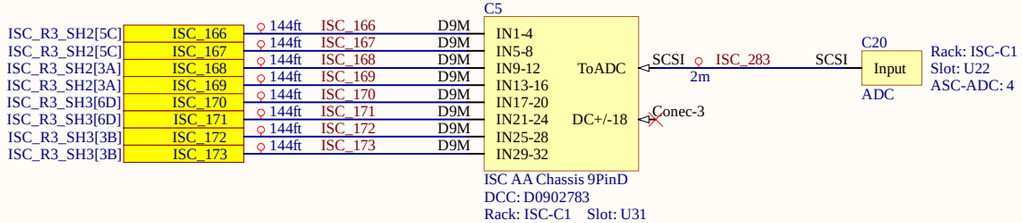
ISC-C1 Rack



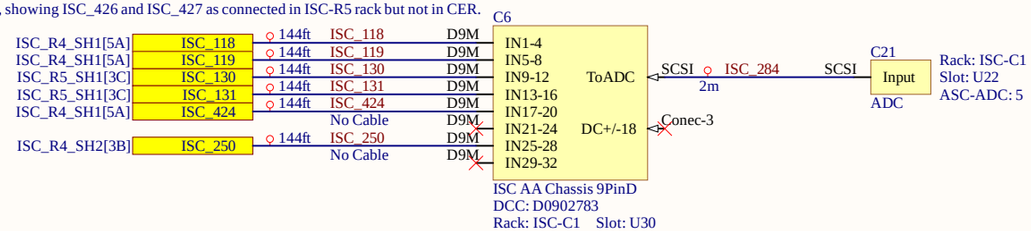


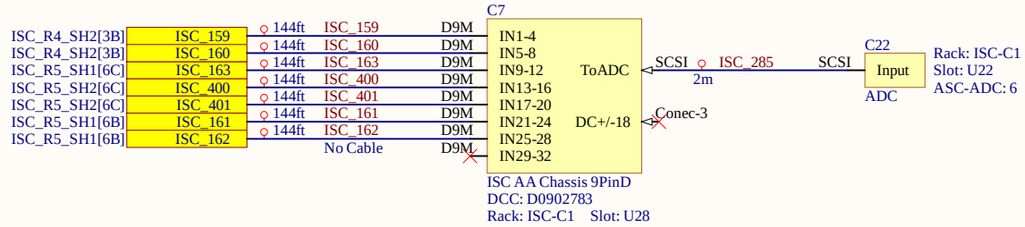


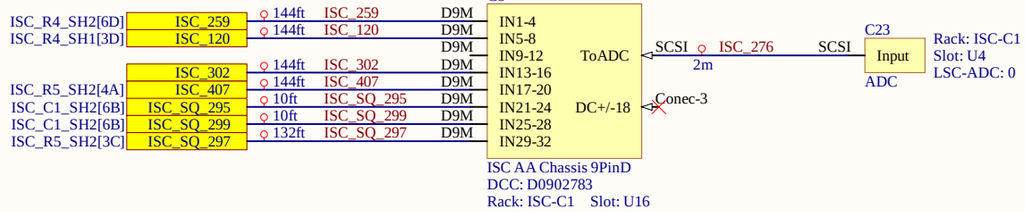


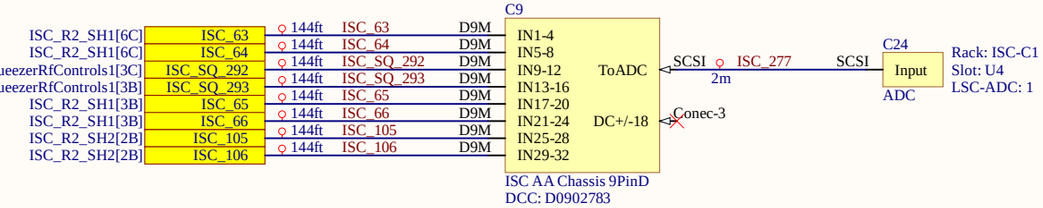


Reverify cables, showing ISC_426 and ISC_427 as connected in ISC-R5 rack but not in CER.

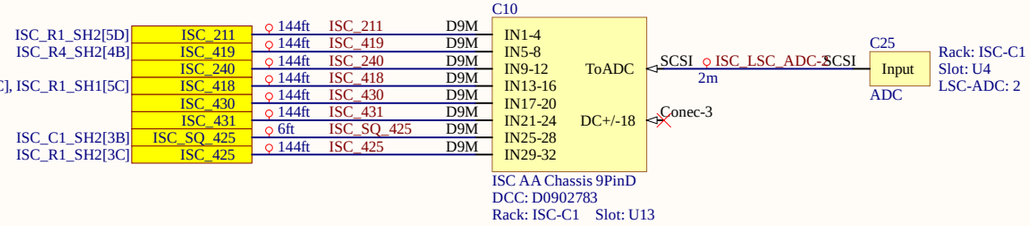


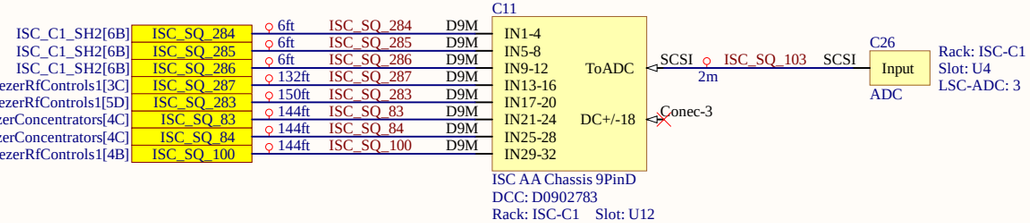






Needs Label





Following cables are not connected in the CER:

ISC_101, ISC_175, ISC_242, ISC_410, ISC_426, and ISC_427

Title: **ISC System Wiring Diagram**		
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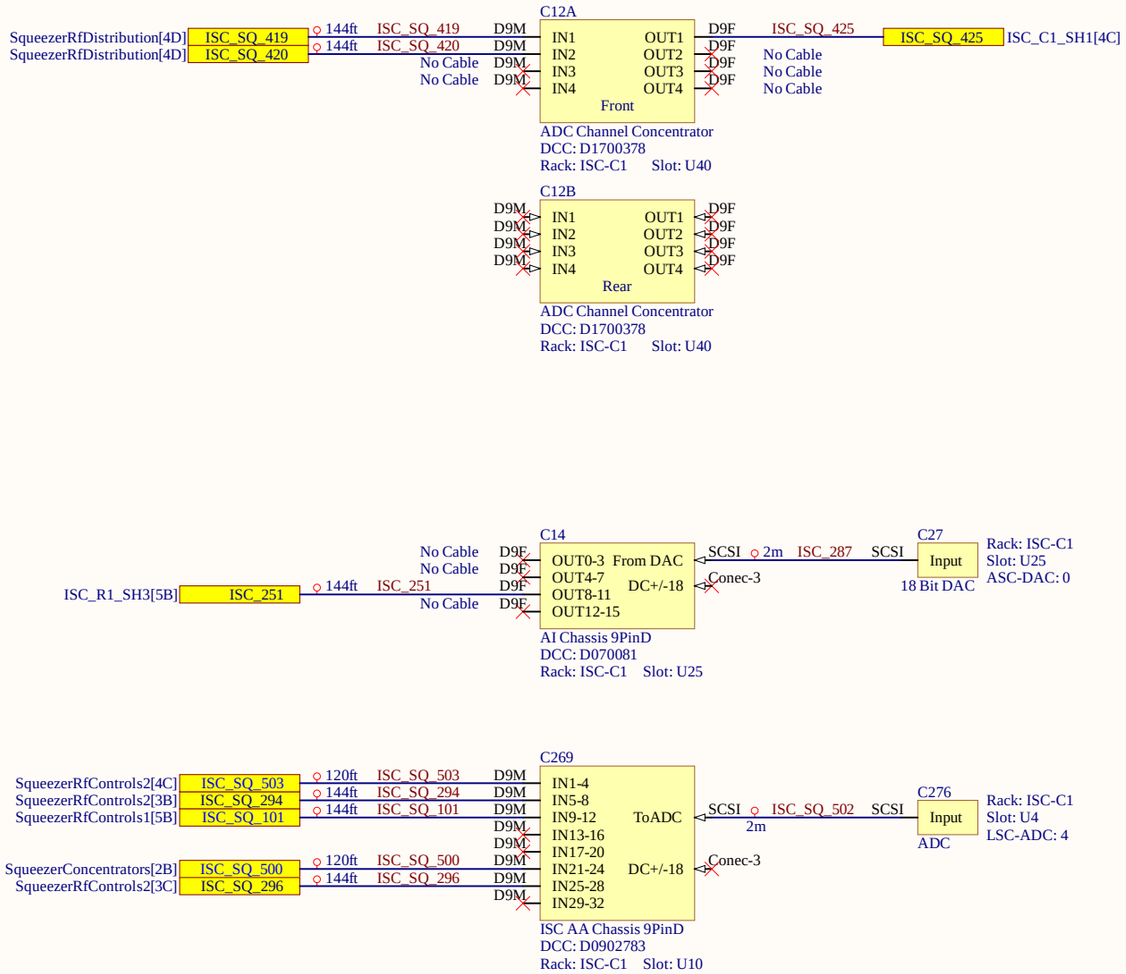
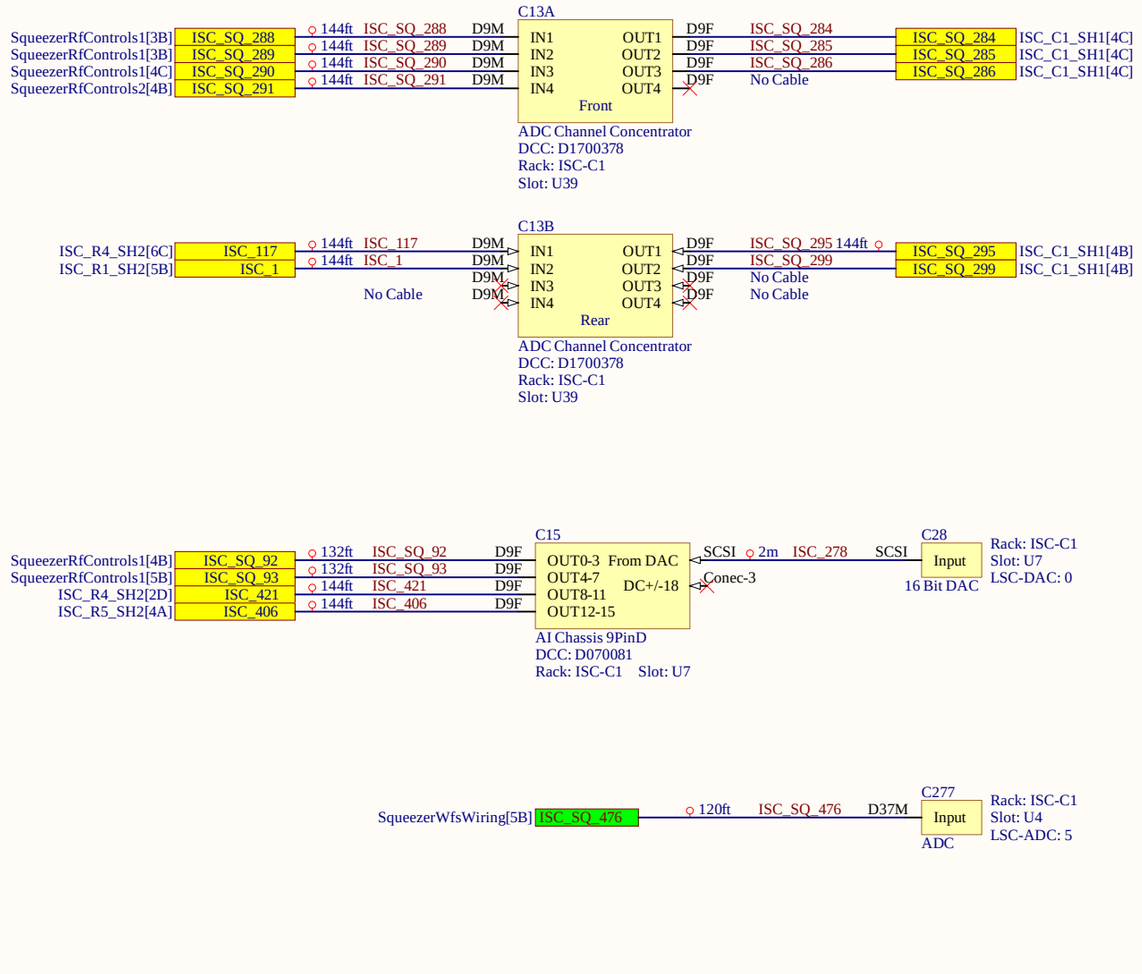
Date: 10/06/2021		Sheet of 1 38
File: C:\Users\..\ISC_C1_SH1.SchDoc		Drawn By: Filiberto Clara

ISC-C1 Rack





Title	**ISC System Wiring Diagram**		
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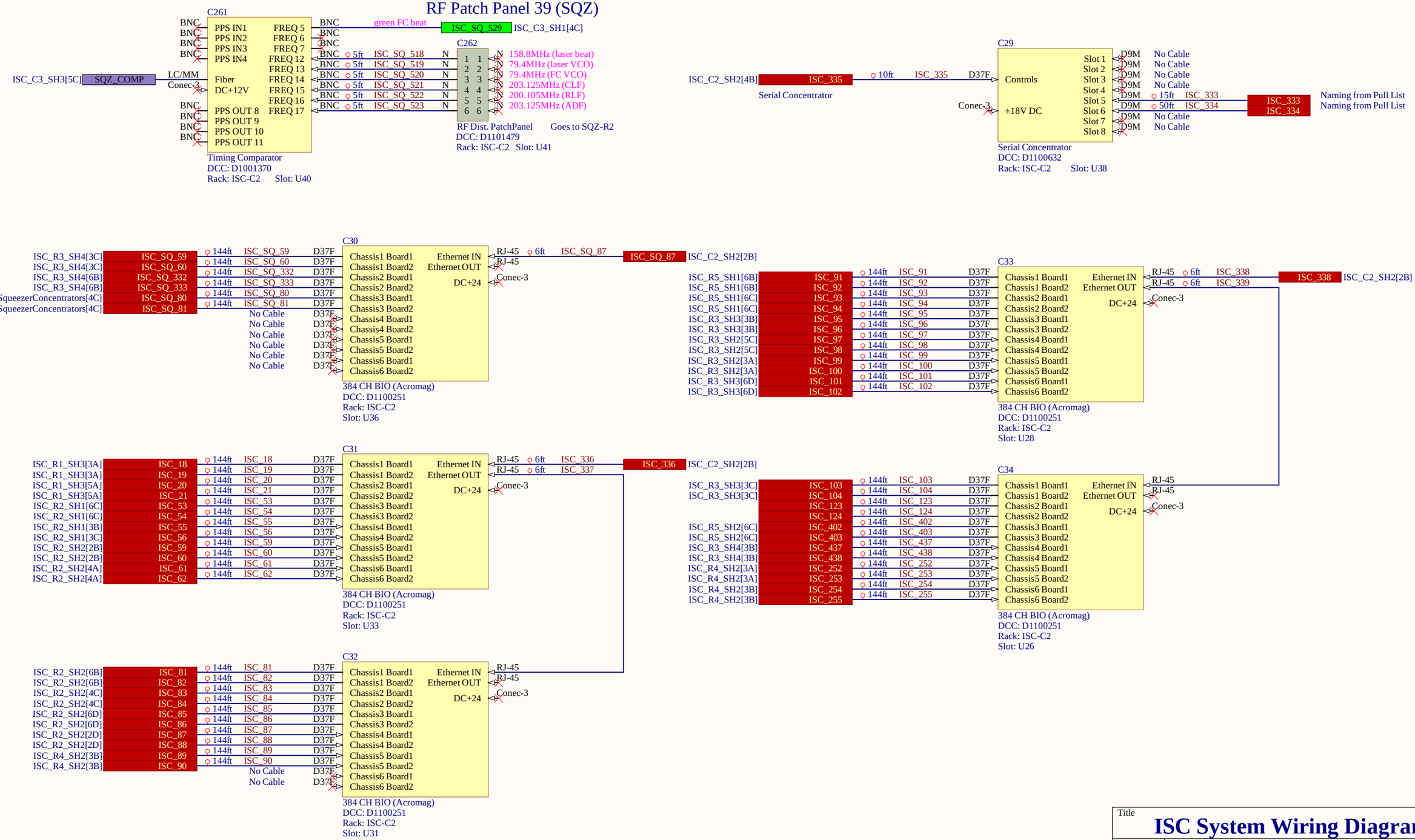
ISC-C2 Rack

RF Patch Panel 39 (SQZ)



Title	**ISC System Wiring Diagram**		
Size: B	Number: D1900511	Revision: V6	
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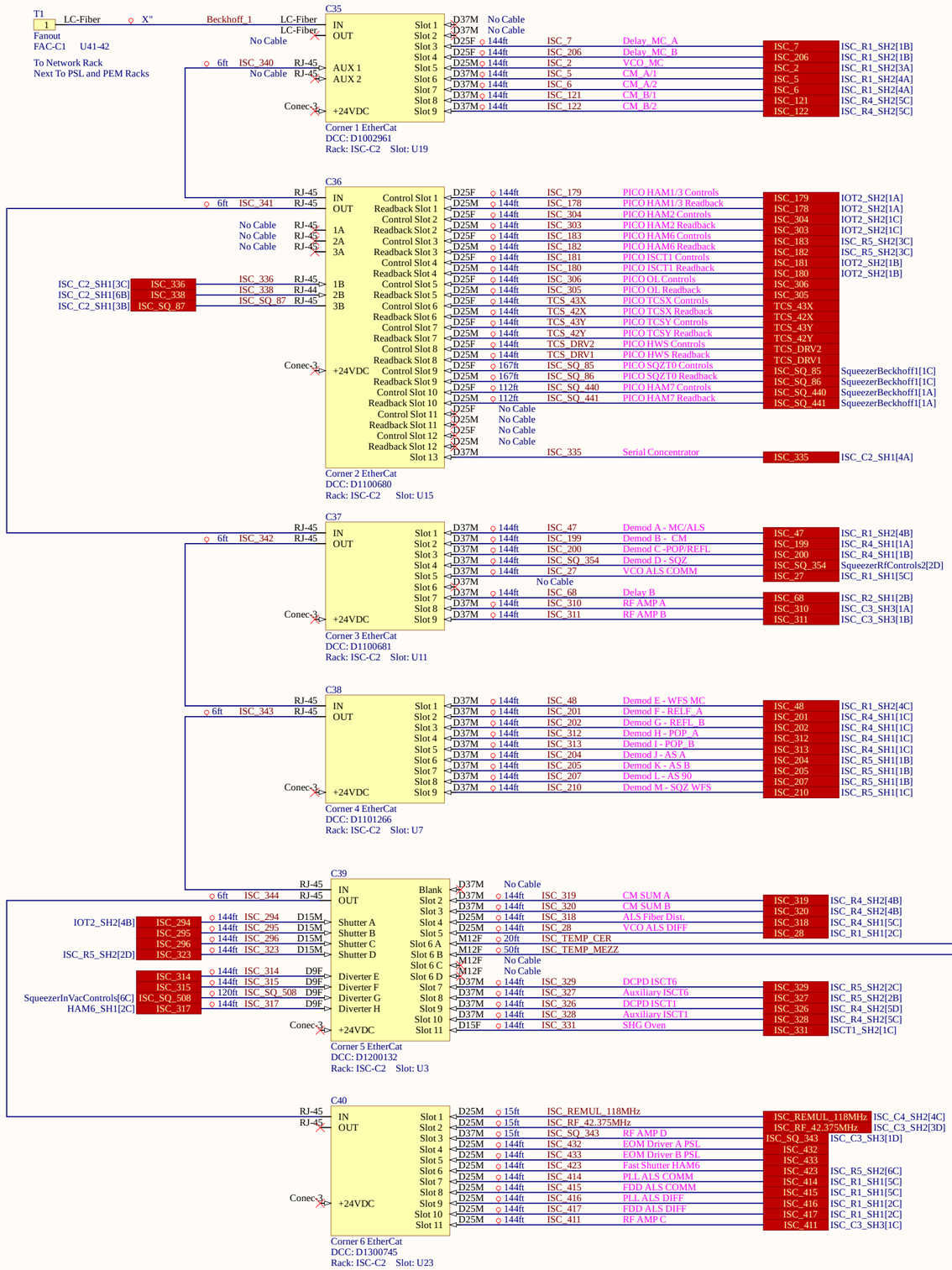
File: C:\Users\..\ISC_C2_SH1.SchDoc		Drawn By: Filiberto Clara	

ISC-C2 Rack



SQZ Drawing has Diff Mix 3.125MHz going to slot 2 need to verify

Title	ISC System Wiring Diagram		
Size C	Number D1900511	Revision V6	
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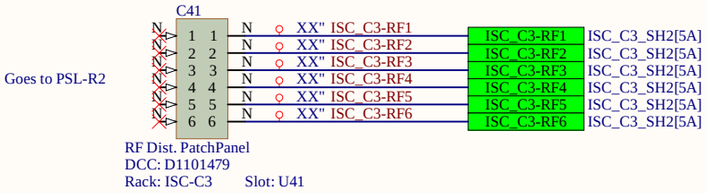
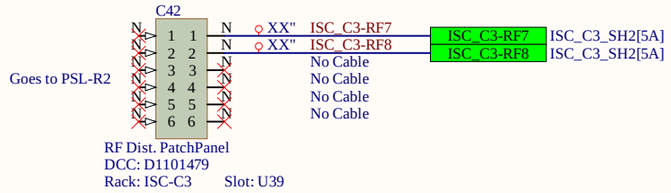
File: C:\Users\..\ISC_C2_SH2.SchDoc		Drawn By: Filiberto Clara	

ISC-C3 Rack

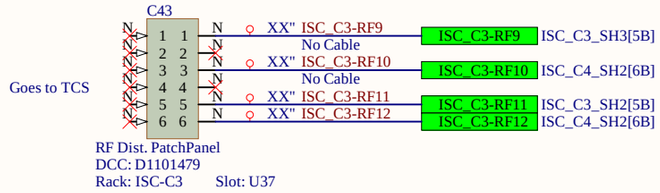
RF Patch Panel 7 (PSL)



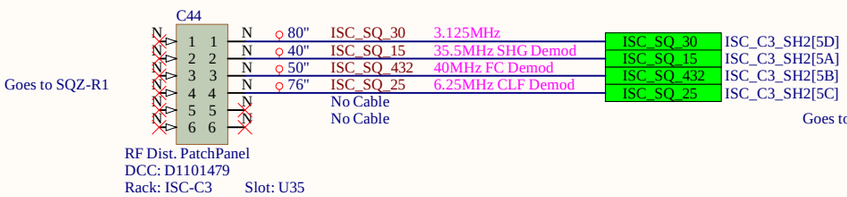
RF Patch Panel 8 (PSL)



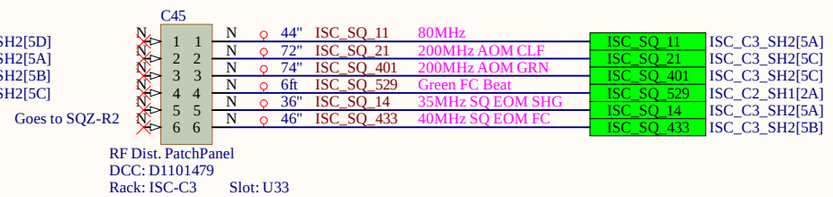
RF Patch Panel 9 (TCS)



RF Patch Panel 32 (SQZ)



RF Patch Panel 33 (SQZ)



Cables that are removed
ISC_SQ_31
ISC_SQ_12
ISC_SQ_78

Title: **ISC System Wiring Diagram**		
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ISC-C3 Rack

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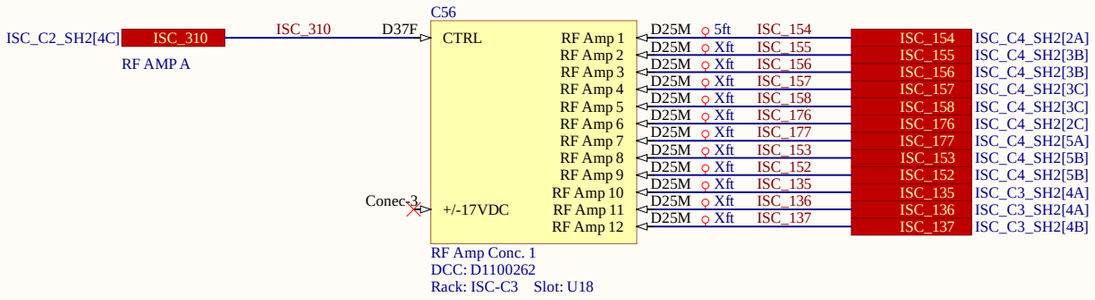
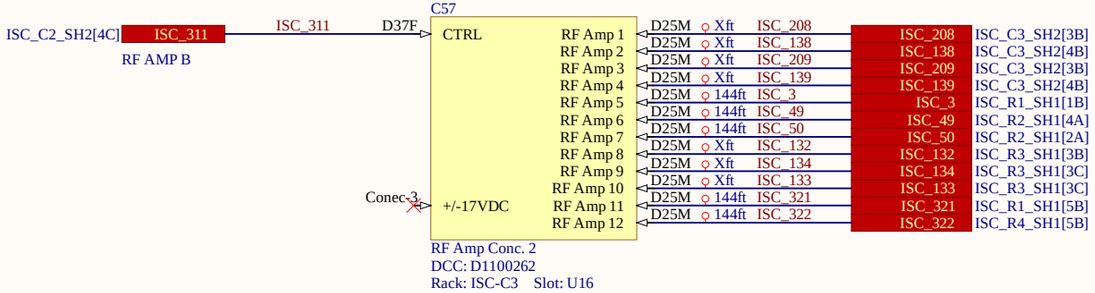
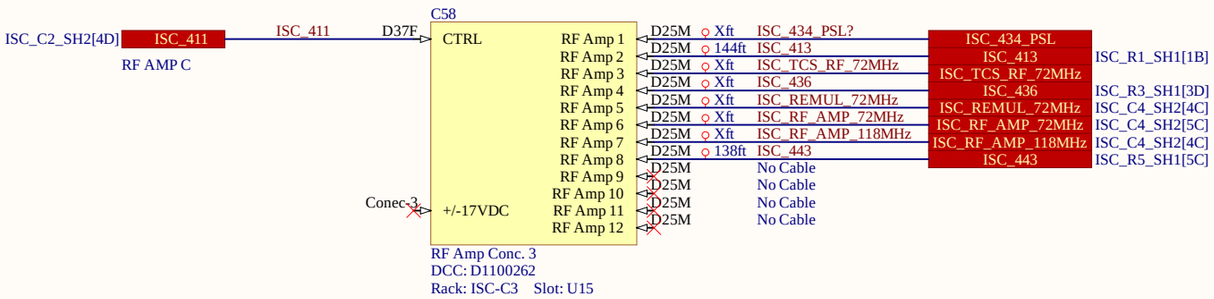
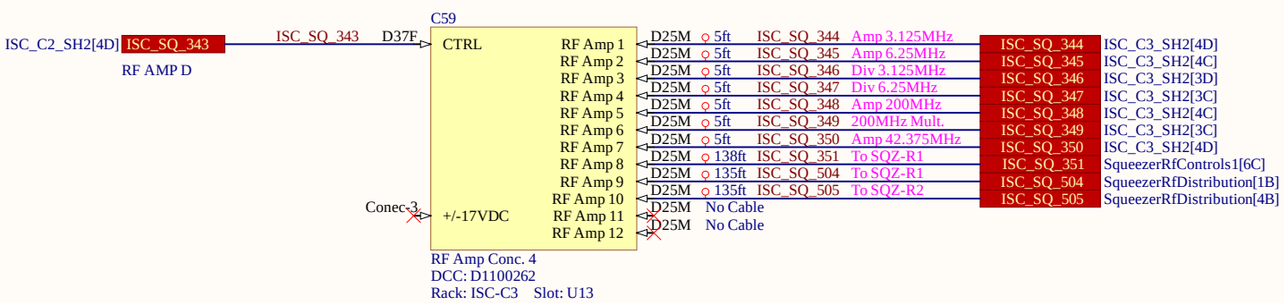
File: C:\Users\..\ISC_C3_SH2.SchDoc	Drawn By: Filiberto Clara

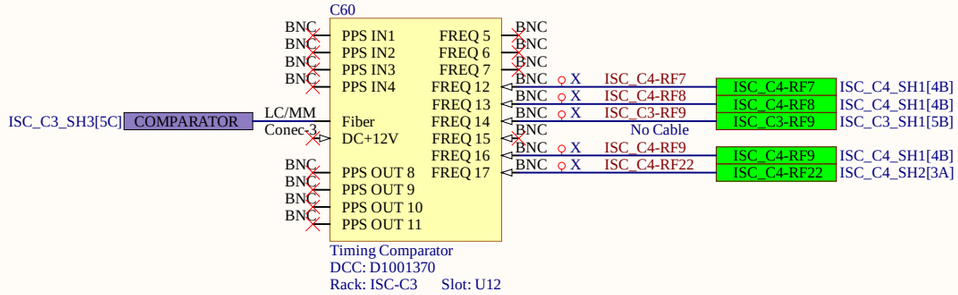
ISC-C3 Rack

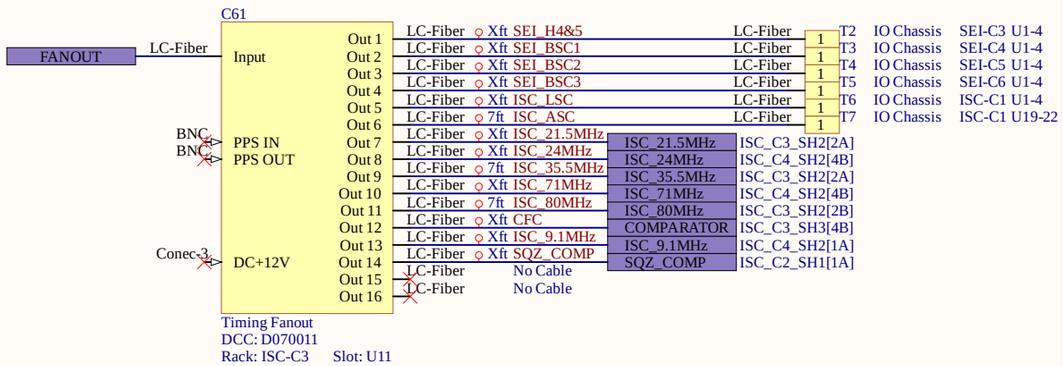












Need Locations of other ends.
SEI IO Chassis

Title: **ISC System Wiring Diagram**		
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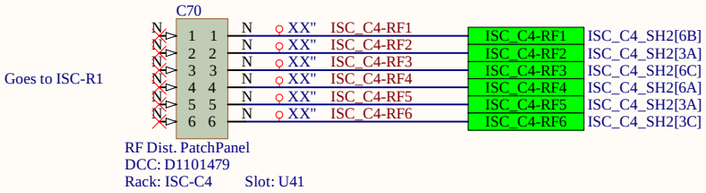
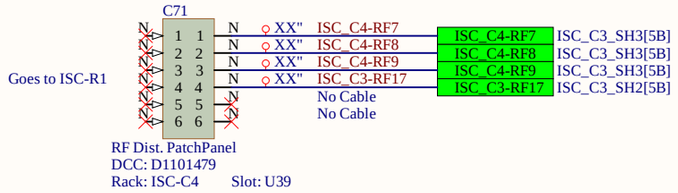
File: C:\Users\..\ISC_C3_SH3.SchDoc	Drawn By: Filiberto Clara	

ISC-C4 Rack

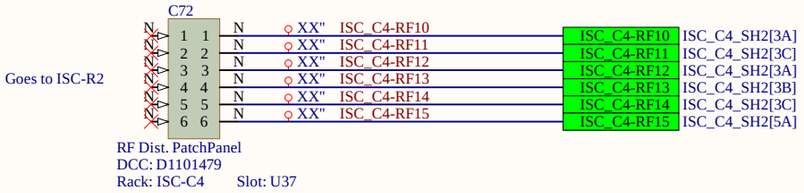
RF Patch Panel 1 (ISC)



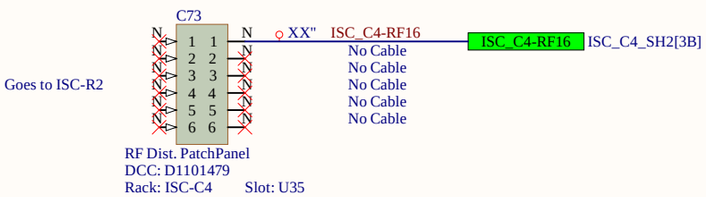
RF Patch Panel 2 (ISC)



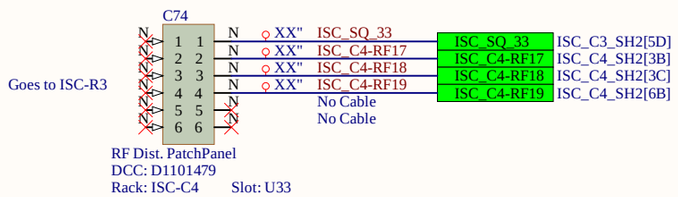
RF Patch Panel 3 (ISC)



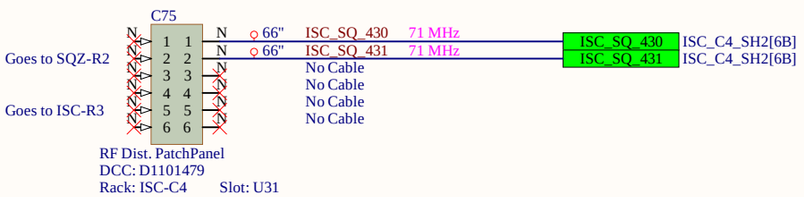
RF Patch Panel 4 (ISC)



RF Patch Panel 5 (ISC)



RF Patch Panel 6 (SQZ/ISC)



Title: **ISC System Wiring Diagram**		
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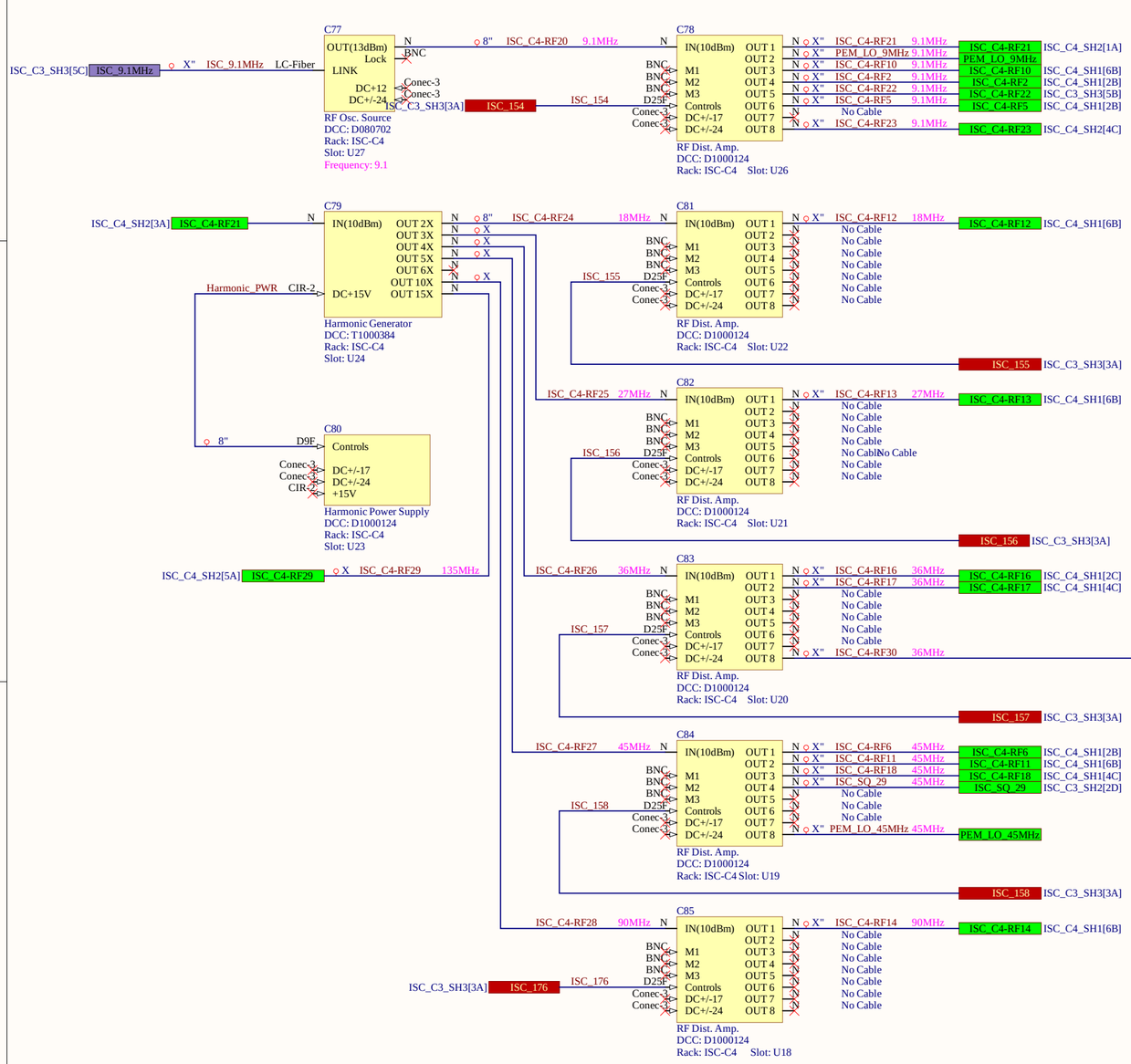
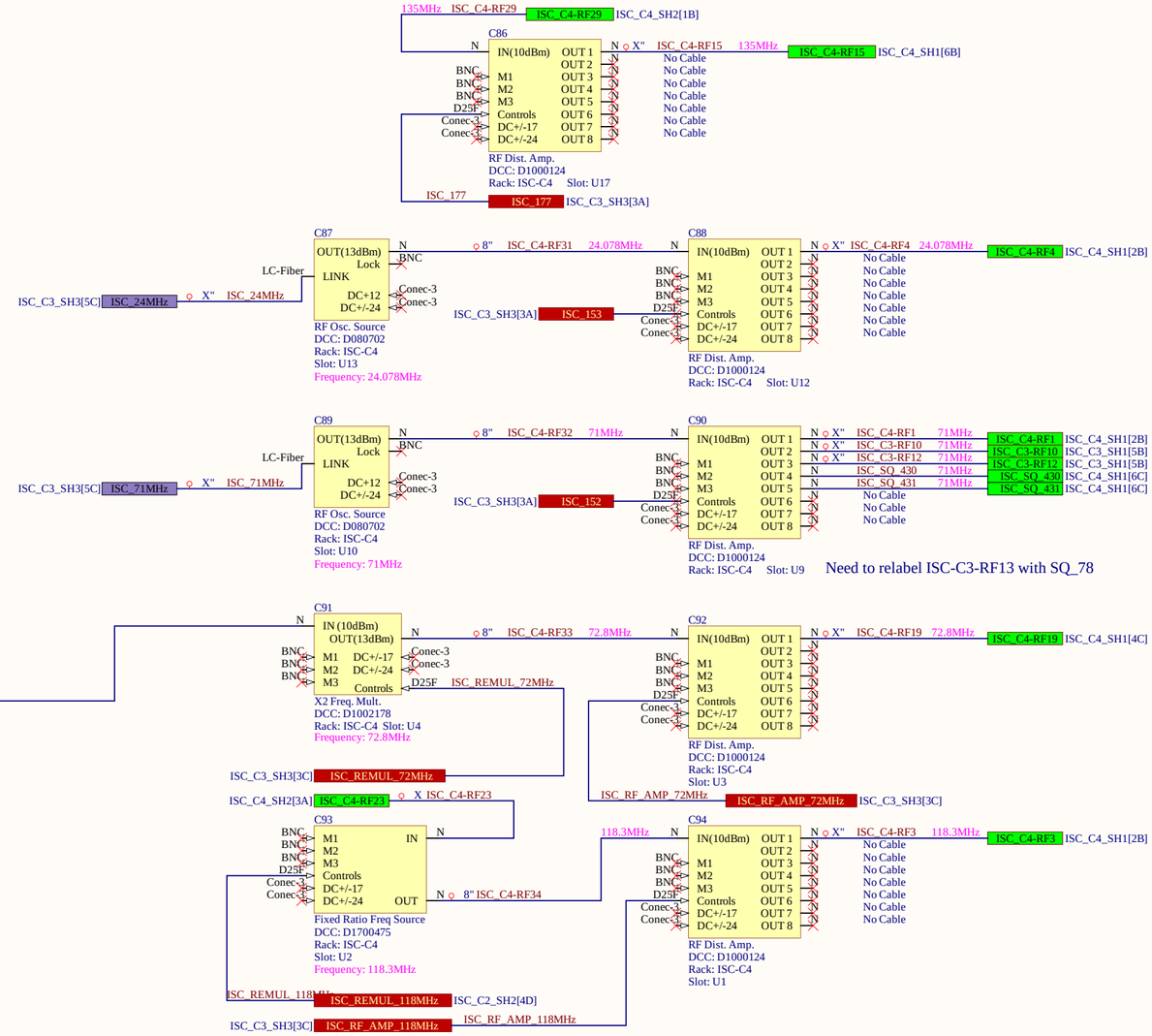
File: C:\Users\..\ISC_C4_SH1.SchDoc		Drawn By: Filiberto Clara





ISC-C4 Rack

Title	**ISC System Wiring Diagram**		
Size C	Number D1900511	Revision V6	
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File: C:\Users\..\ISC_C4_SH2.SchDoc	Drawn By: Filiberto Clara		

ISC-R1 Rack

RF Patch Panel 10

C95

RF Dist. PatchPanel
D1101479
Rack: ISC-R1 Slot: U41

ISC_R1-RF1	XMHz	ISC_R1-RF1	ISC_R1_SH1[1B]	
ISC_R1-RF2	XMHz	ISC_R1-RF2	ISC_R1_SH2[1B]	
ISC_R1-RF3	XMHz	ISC_R1-RF3		
ISC_R1-RF4	XMHz	ISC_R1-RF4	ISC_R1_SH1[1B]	
ISC_R1-RF5	XMHz			
ISC_R1-RF6	XMHz			

N — 1 — T8 EOM?? PSL-R2 U7-8
N — 1 — T9 EOM?? PSL-R2 U7-8

R1-RF5 and R1-RF6 go to PSL Rack R2
U Slot U7 & U8, 9 MHz and 45 MHz

RF Patch Panel 11

C96

RF Dist. PatchPanel
D1101479
Rack: ISC-R1 Slot: U39

ISC_R1-RF7	ISC_R1-RF7	ISC_R1_SH1[2C]	
ISC_R1-RF8	ISC_R1-RF8	ISC_R1_SH1[5C]	
ISC_R1-RF9	ISC_R1-RF9	ISC_R1_SH2[3A]	
ISC_R1-RF10	ISC_R1-RF10	ISC_R4_SH1[4B]	

RF Patch Panel 12

C97

RF Dist. PatchPanel
D1101479
Rack: ISC-R1 Slot: U37

ISC_R1-RF11	ISC_R1-RF11	ISC_R1_SH2[3A]	

C98

ISC_R1_SH1[2A] — ISC_R1-RF1 — ISC_R1-RF1 — N

IN(10dBm)

OUT 1	N	X"	ISC_R1-RF12	71MHz	ISC_R1-RF12 ISC_R1_SH1[1C]
OUT 2	N	X"	ISC_R1-RF13	71MHz	ISC_R1-RF13 ISC_R1_SH1[1C]
OUT 3	N	X"	ISC_R1-RF14	71MHz	ISC_R1-RF14 ISC_R1_SH1[3C]
OUT 4	N	X"	ISC_R1-RF15	71MHz	ISC_R1-RF15 ISC_R1_SH1[3C]
OUT 5	N		No Cable		
OUT 6	N		No Cable		
OUT 7	N	X"	ISC_R1-RF16	71MHz	ISC_R1-RF16 ISC_R1_SH2[1A]
OUT 8	N		No Cable		

No Cable — BNC — M1
No Cable — BNC — M2
No Cable — BNC — M3
ISC_413 — D25F — Controls
Conec-3 — DC+/-17
Conec-3 — DC+/-24

ISC_C3_SH3[3C] — ISC_413

RF Dist. Amp.
DCC: D1000124
Rack: ISC-R1 Slot: U36

C99

ISC_R1_SH1[2A] — ISC_R1-RF4 — ISC_R1-RF4 — N

IN(10dBm)

OUT 1	N	X"	ISC_R1-RF17	24.078MHz	ISC_R1-RF17 ISC_R1_SH3[1B]
OUT 2	N	X"	ISC_R1-RF18	24.078MHz	ISC_R1-RF18 ISC_R1_SH3[1D]
OUT 3	N	X"	ISC_R1-RF19	24.078MHz	ISC_R1-RF19 ISC_R1_SH2[1B]
OUT 4	N		No Cable		
OUT 5	N		No Cable		
OUT 6	N		No Cable		
OUT 7	N	X"	ISC_R1-RF20	24.078MHz	N — 1 — T10 D1800116 PSL-R2 U4-5
OUT 8					

No Cable — BNC — M1
No Cable — BNC — M2
No Cable — BNC — M3
ISC_3 — D25F — Controls
Conec-3 — DC+/-17
Conec-3 — DC+/-24

ISC_C3_SH3[3B] — ISC_3

RF Dist. Amp.
DCC: D1000124
Rack: ISC-R1 Slot: U35

To PSL R2 U4& U5
D1800116 (24.04MHz In)

C100

BNC — Lemo 2P — Tune — Out1 (13dBm) — N X" ISC_R1-RF22 — ISC_R1-RF22 ISC_R1_SH1[3B]
Tune — Out2 (13dBm) — N ISC_R1-RF7 — ISC_R1-RF7 ISC_R1_SH1[3A]

BNC — EXC — M1 — BNC
BNC — MON — M2 — BNC
N — VCO (13dBm) — M3 — BNC
ISC_R1_SH1[2C] — ISC_R1-RF21 — X" ISC_R1-RF21 — N — DIV (13dBm) — Controls — D25F — ISC_417 — ISC_417 ISC_C2_SH2[4D]
ISC_R1_SH1[2B] — ISC_R1-RF13 — ISC_R1-RF13 — N — REF (10dBm) — PLL - Monitor — D9F — ISC_418 — ISC_418 ISC_C1_SH1[4C], ISC_R1_SH1[5C]
PLL — D25F — ISC_416 — ISC_416 ISC_C2_SH2[4D]
ISC_R1_SH1[5B] — ISC_R1-RF23 — X" ISC_R1-RF23 — TNC — PLL - IN — DC+/-17 — Conec-3
ISC_R1_SH1[1C] — ISC_R1-RF24 — X" ISC_R1-RF24 — Lemo 2P — PLL - VCO — DC+/-24 — Conec-3

DCC: D0900605
VCO_PLL
Rack: ISC-R1 Slot: U32

C101

BNC — Lemo 2P — Tune — Out1 (13dBm) — N ISC_R1-RF21 — ISC_R1-RF21 ISC_R1_SH1[1C]
ISC_R1_SH1[1C] — ISC_R1-RF24 — ISC_R1-RF24 — Lemo 2P — Tune — Out2 (13dBm) — N

BNC — EXC
BNC — MON — M1 — BNC
8" ISC_R1-RF25 — N — VCO (13dBm) — M2 — BNC
ISC_R1_SH1[2B] — ISC_R1-RF12 — ISC_R1-RF12 — N — DIV (13dBm) — M3 — BNC
Controls — D25F — ISC_28 — ISC_28 ISC_C2_SH2[4C]
DC+/-17 — Conec-3
DC+/-24 — Conec-3

VCO
DCC: D0900605
Rack: ISC-R1 Slot: U30

C102

ISC_R1_SH1[2B] — ISC_R1-RF22 — ISC_R1-RF22 — N

IN (10dBm)
OUT(13dBm)

BNC — M1 — DC+/-17 — Conec-3
BNC — M2 — DC+/-24 — Conec-3
BNC — M3 — Controls — D25F — ISC_321 — ISC_321 ISC_C3_SH3[3B]

N X" ISC_R1-RF26 — ISC_R1-RF26 ISC_R1_SH1[3B]

X2 Freq. Mult.
DCC: D1002178
ISC-R1 Slot: U28

C103

ISC_R1_SH1[5B] — ISC_R1_RF26 — ISC_R1-RF26 — TNC — LO1 — I-1 — TNC — ISC_R1-RF23 — ISC_R1-RF23 ISC_R1_SH1[1C]
ISC_R1_SH1[5C] — ISC_R1_RF29 — ISC_R1-RF29 — TNC — LO2 — Sign 1 — TNC
I-2 — TNC — ISC_R1-RF30 — ISC_R1-RF30 ISC_R1_SH1[3C]
Sign 2 — TNC
RF Mon 1 — SMA
RF Mon 2 — SMA
Conec-3 — DC+/-18
Conec-3 — DC+/-24 — I-Mon1 — BNC
Sign 1 — BNC
I-Mon 2 — BNC
Sign 2 — BNC
ISC_R1_SH1[3D] — ISC_R1-RF27 — ISC_R1-RF27 — SMA — RFIn1
ISC_R1_SH1[3D] — ISC_R1-RF28 — ISC_R1-RF28 — SMA — RFIn2
Controls — D15F — 5ft — ISC_46 — ISC_46 ISC_R1_SH2[5B]
DAQ — D9F — XX" — ISC_X5 — ISC_X5

2-Chan Discriminator
DCC: D1002476
Rack: ISC-R1 Slot: U27

Need to label or find cable number

C105

BNC — Lemo 2P — Tune — Out1 (13dBm) — N X" ISC_R1-RF35 — ISC_R1-RF35 ISC_R1_SH1[3C]
ISC_R1_SH1[3C] — ISC_R1-RF33 — ISC_R1-RF33 — Lemo 2P — Tune — Out2 (13dBm) — N

BNC — EXC
BNC — MON — M1 — BNC
8" ISC_R1-RF34 — N — VCO (13dBm) — M2 — BNC
ISC_R1_SH1[2B] — ISC_R1-RF14 — ISC_R1-RF14 — N — DIV (13dBm) — M3 — BNC
Controls — D25F — ISC_27 — ISC_27 ISC_C2_SH2[4B]
DC+/-17 — Conec-3
DC+/-24 — Conec-3

VCO
DCC: D0900605
Rack: ISC-R1 Slot: U24

C106

BNC — Lemo 2P — Tune — Out1 (13dBm) — N ISC_R1-RF29 — ISC_R1-RF29 ISC_R1_SH1[3B]
Tune — Out2 (13dBm) — N ISC_R1-RF8 — ISC_R1-RF8 ISC_R1_SH1[3A]

BNC — EXC — M1 — BNC
BNC — MON — M2 — BNC
N — VCO (13dBm) — M3 — BNC
ISC_R1_SH1[5C] — ISC_R1-RF35 — 8" ISC_R1-RF35 — N — DIV (13dBm) — Controls — D25F — ISC_415 — ISC_415 ISC_C2_SH2[4D]
ISC_R1_SH1[2B] — ISC_R1-RF15 — ISC_R1-RF15 — N — REF (10dBm) — PLL - Monitor — D9F — ISC_418 — DCC: D2100XXX — ISC_418 ISC_C1_SH1[4C], ISC_R1_SH1[2C]
PLL — D25F — ISC_414 — ISC_414 ISC_C2_SH2[4D]
ISC_R1_SH1[5B] — ISC_R1-RF30 — X" ISC_R1-RF30 — TNC — PLL - IN — DC+/-17 — Conec-3
ISC_R1_SH1[3C] — ISC_R1-RF33 — X" ISC_R1-RF33 — Lemo 2P — PLL - VCO — DC+/-24 — Conec-3

DCC: D0900605
VCO_PLL
Rack: ISC-R1 Slot: U22

Recheck cables for U22
In back for PLL

ISC_HAM1_PD — ISC_HAM1_PD
ISC_R4-1B — ISC_R4-1B

ISC_R1_SH2[1C] — ISC_R1-RF31 — ISC_R1-RF31 TNC — 1 — D1201470 U26 ISC-R1
ISC_R1_SH2[1C] — ISC_R1-RF32 — ISC_R1-RF32 TNC — 2 — D1201470 U26 ISC-R1
ISC_R1_SH1[3B] — ISC_R1-RF27 — ISC_R1-RF27 TNC — 3 — D1201470 U26 ISC-R1
ISC_R1_SH1[3B] — ISC_R1-RF28 — ISC_R1-RF28 TNC — 4 — D1201470 U26 ISC-R1

Cable_Temp_29 — Cable_Temp_29
Cable_Temp_30 — Cable_Temp_30

Possibly Cable 30

Title	ISC System Wiring Diagram		
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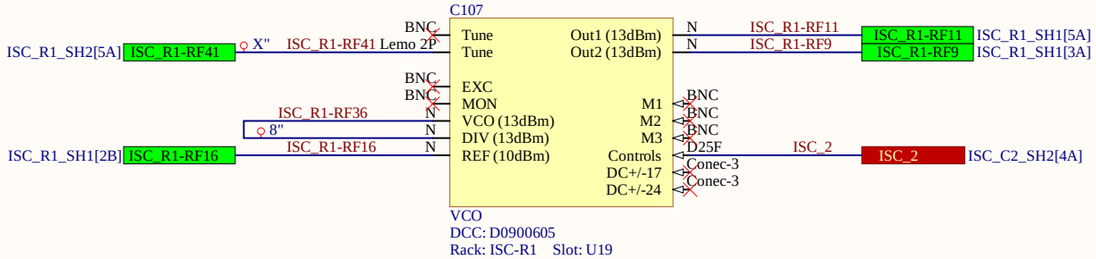
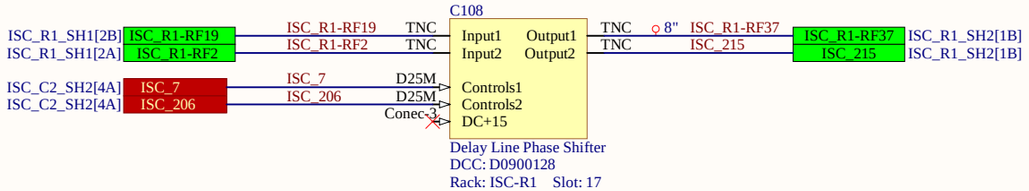
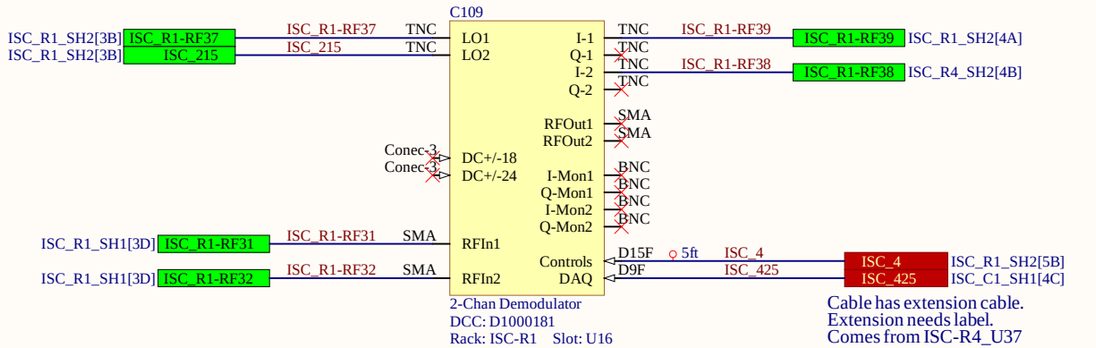
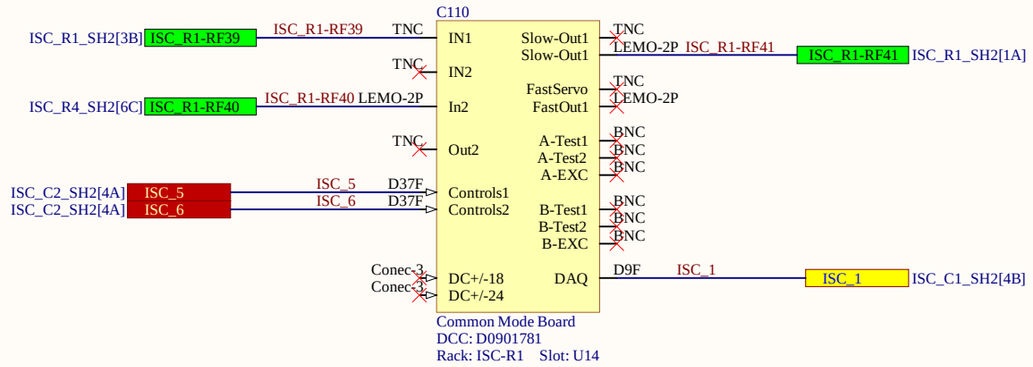
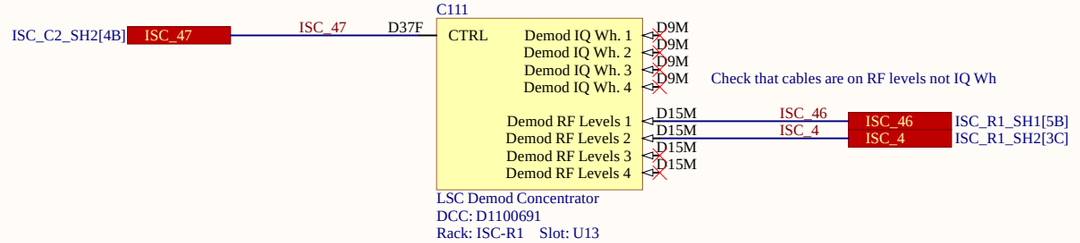
ISC-R1 Rack

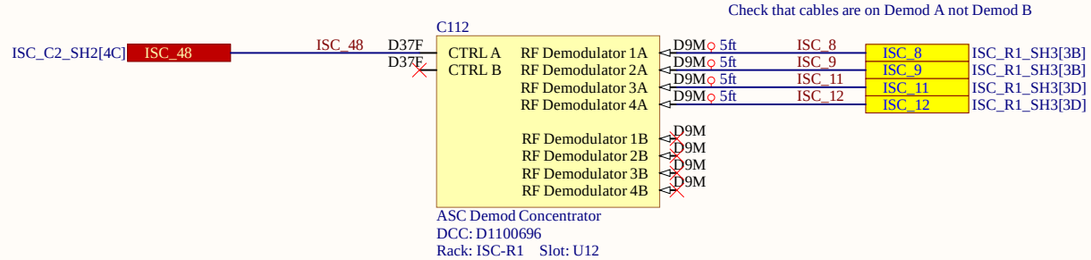


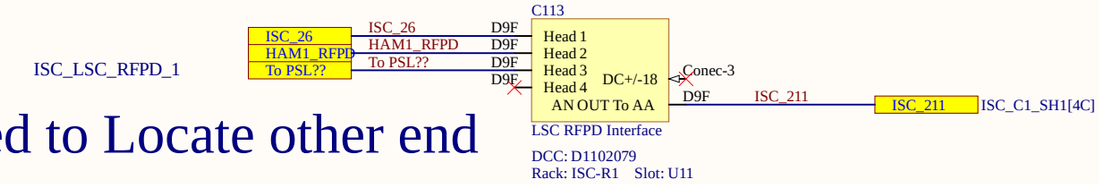




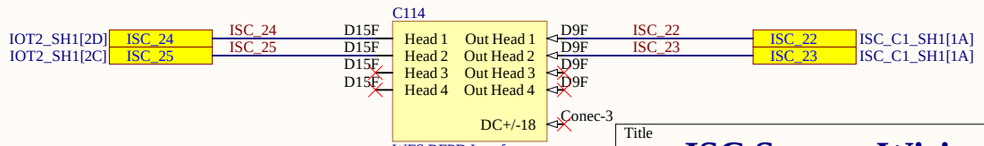








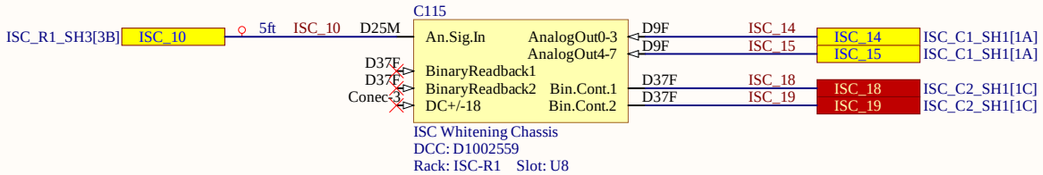
Need to Locate other end

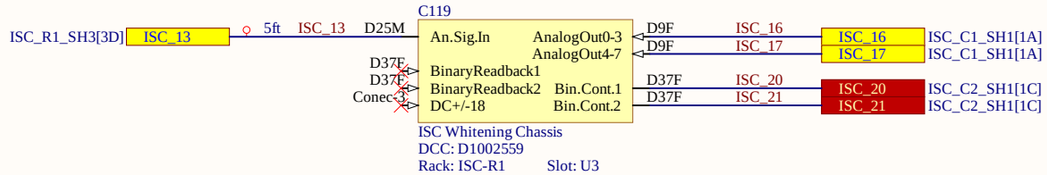


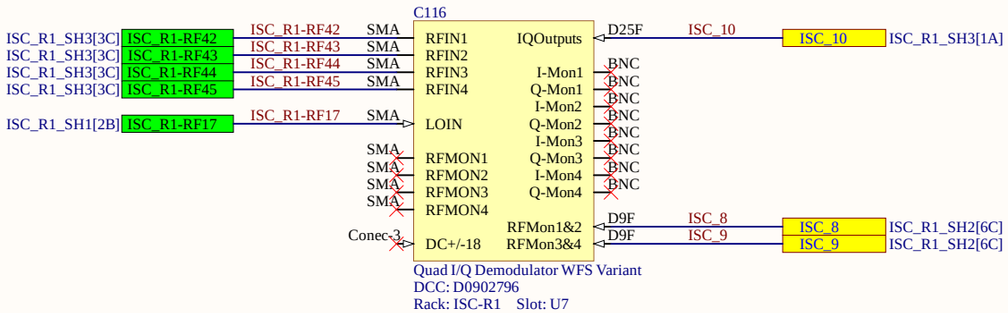
Title: **ISC System Wiring Diagram**

Size	Number	Revision
B	D1900511	V6
Date: 10/06/2021		Sheet of 1 38
File: C:\Users\..\ISC_R1_SH2.SchDoc		Drawn By: Filiberto Clara

ISC-R1 Rack







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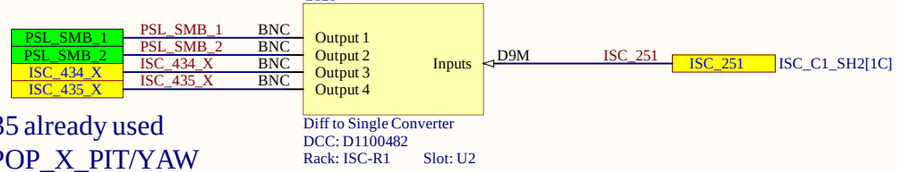
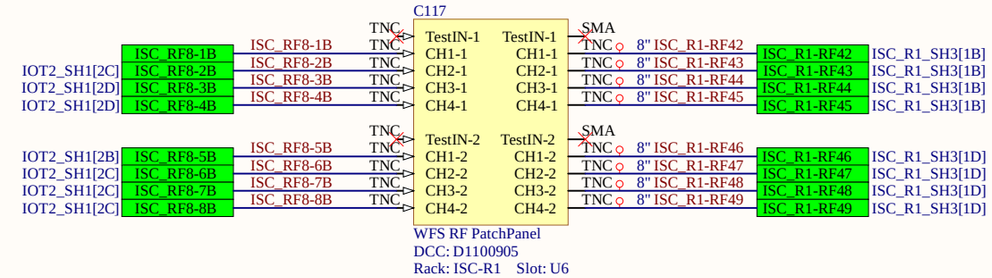
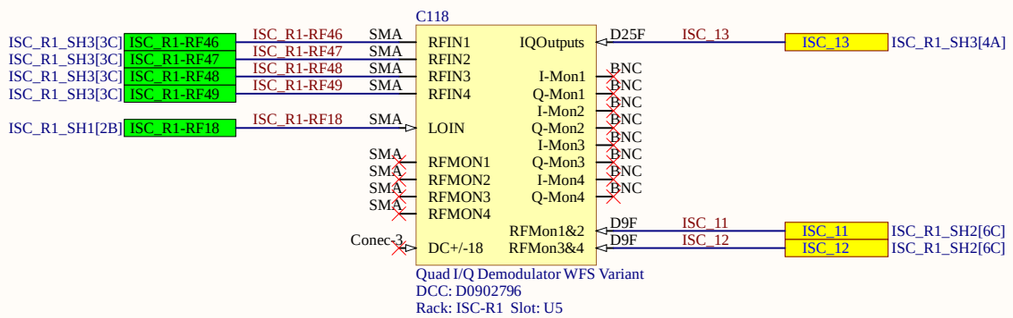


434/435 already used
ASC-POP_X_PIT/YAW





Title	**ISC System Wiring Diagram**		
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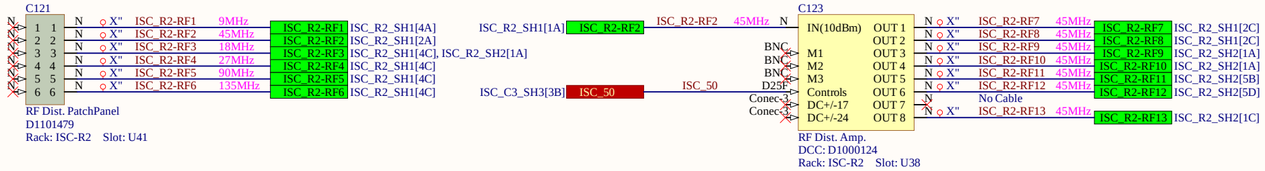
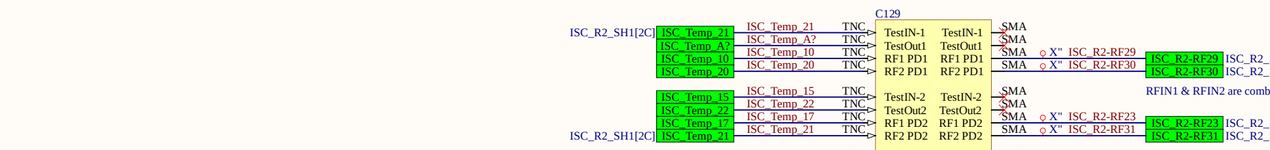
ISC-R2 Rack

RF Patch Panel 13



RF Patch Panel 14

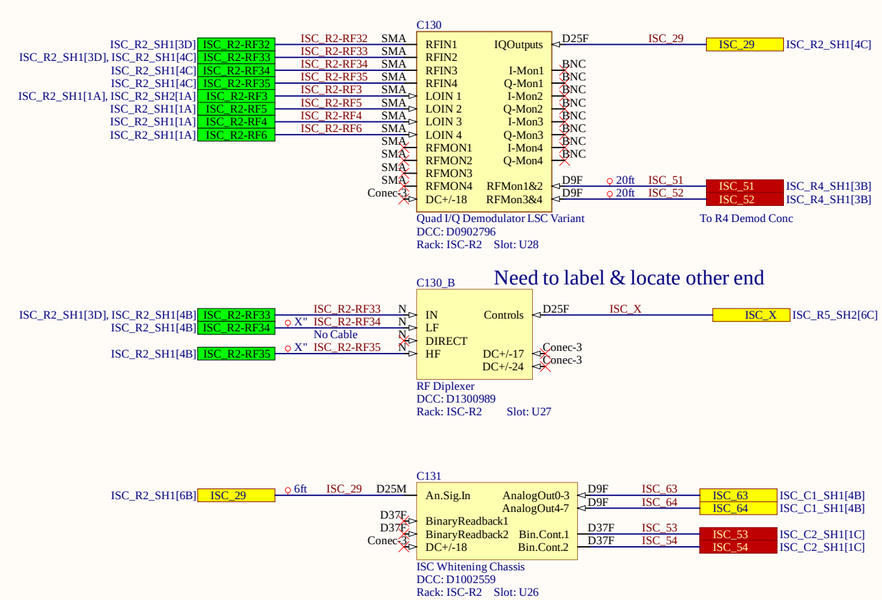


RF Patch Panel 15

RF Patch Panel 16

LSC POPAIR A 9&45, LSC REFLAIR A 45

LSC POPAIR B 18&90, LSC REFLAIR B 27&135



Title: **ISC System Wiring Diagram**		
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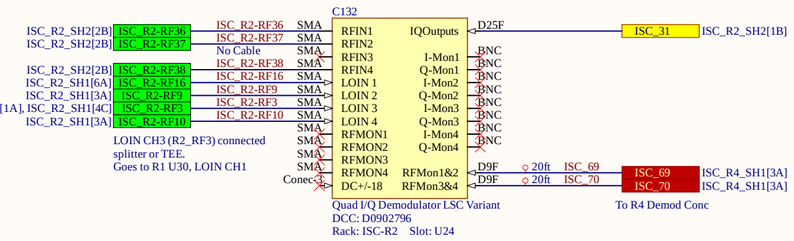
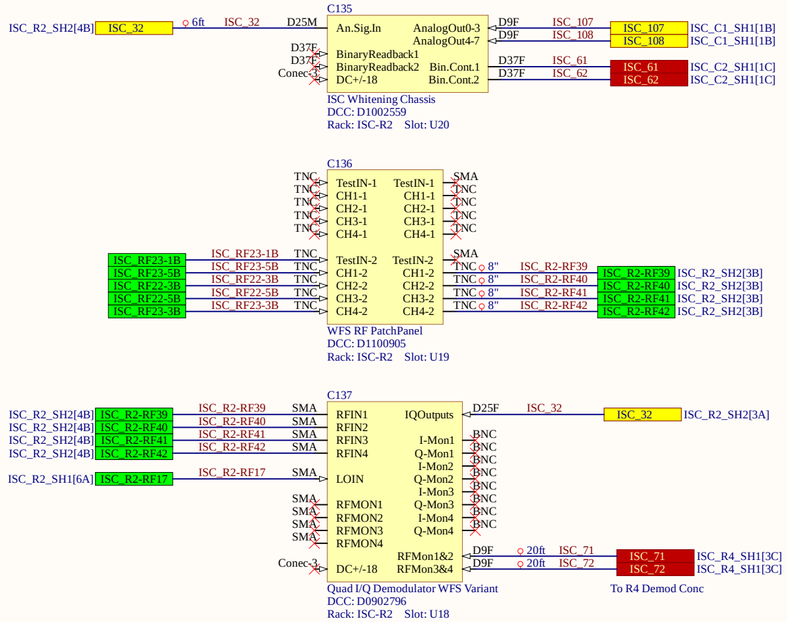
ISC-R2 Rack

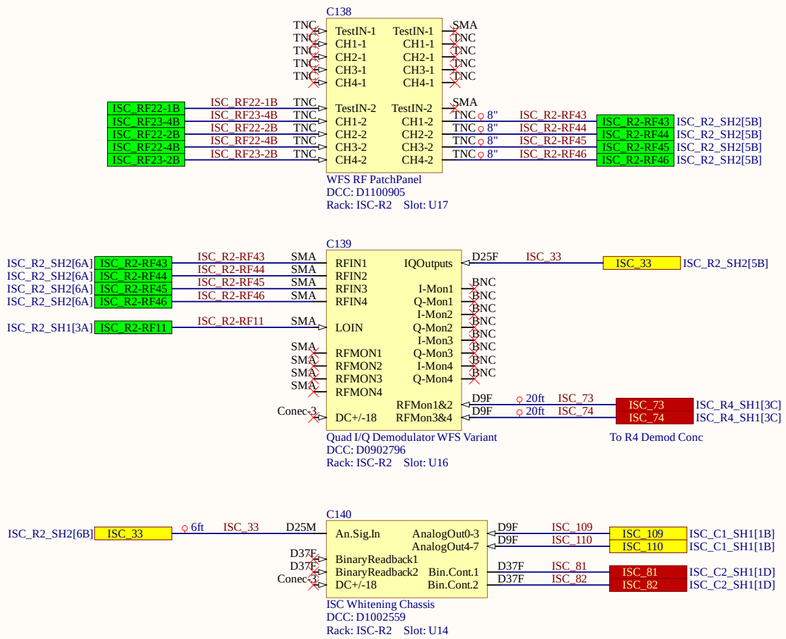
LSC POP, LSC REFL



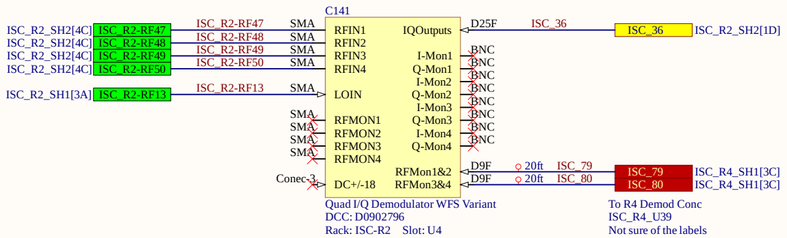
ASC REFL A 9MHz



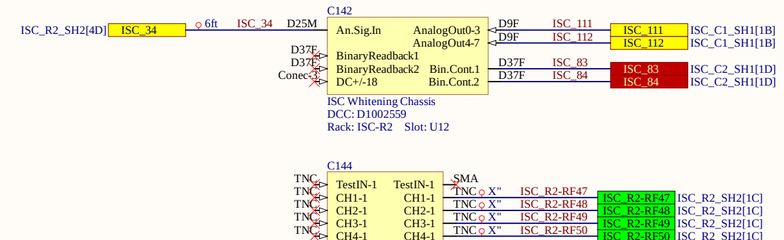
ASC REFL A 45MHz



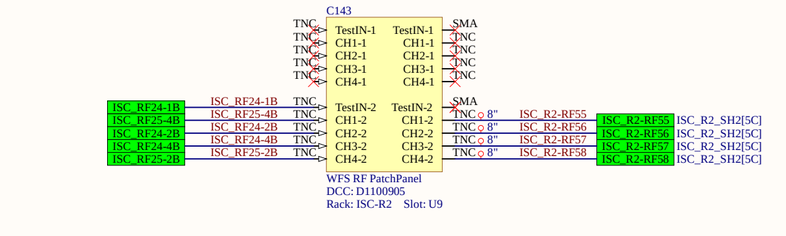
ASC POP A 45MHz



ASC REFL B 9MHz



ASC REFL B 45MHz



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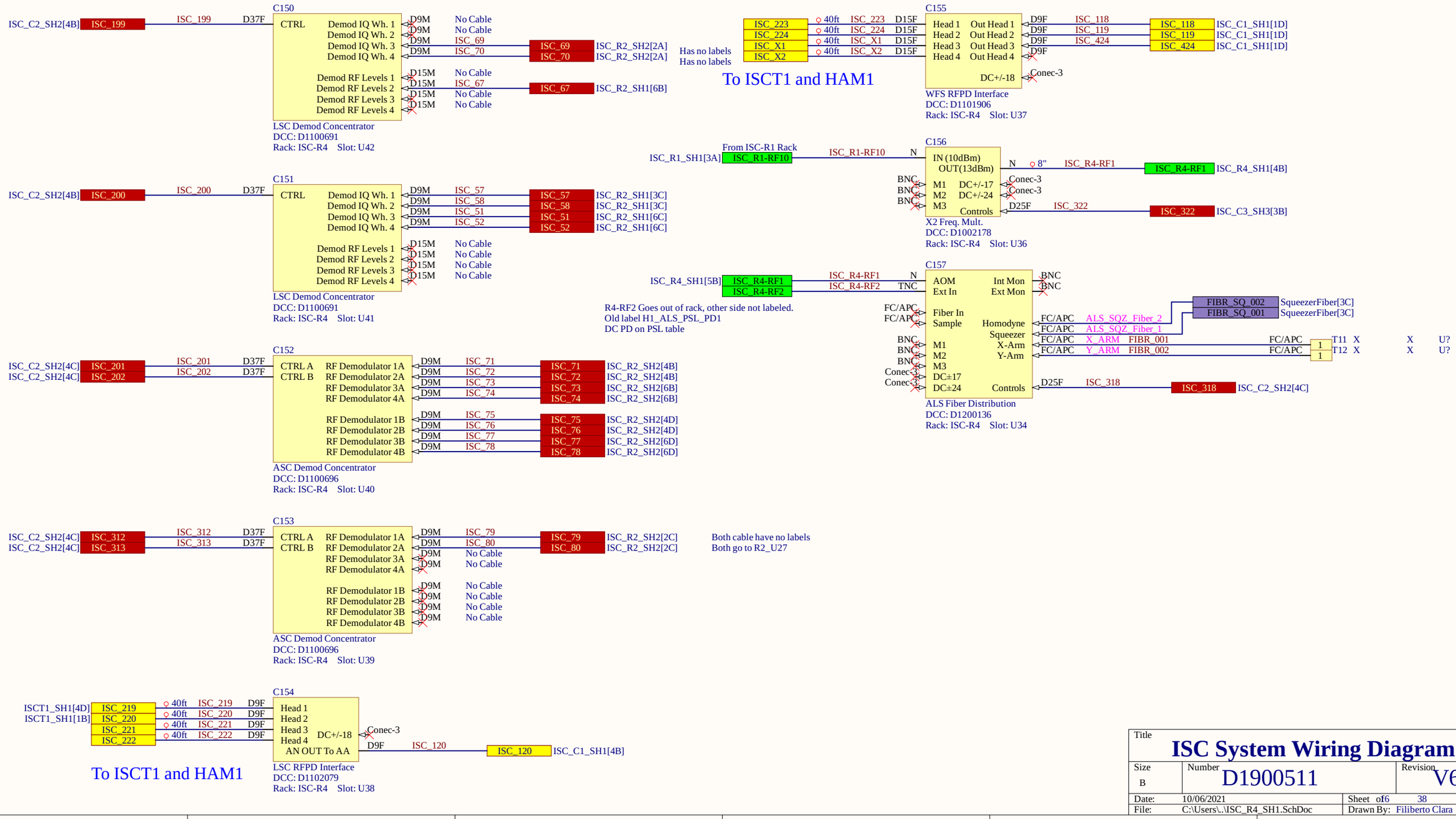
ISC-R4 Rack



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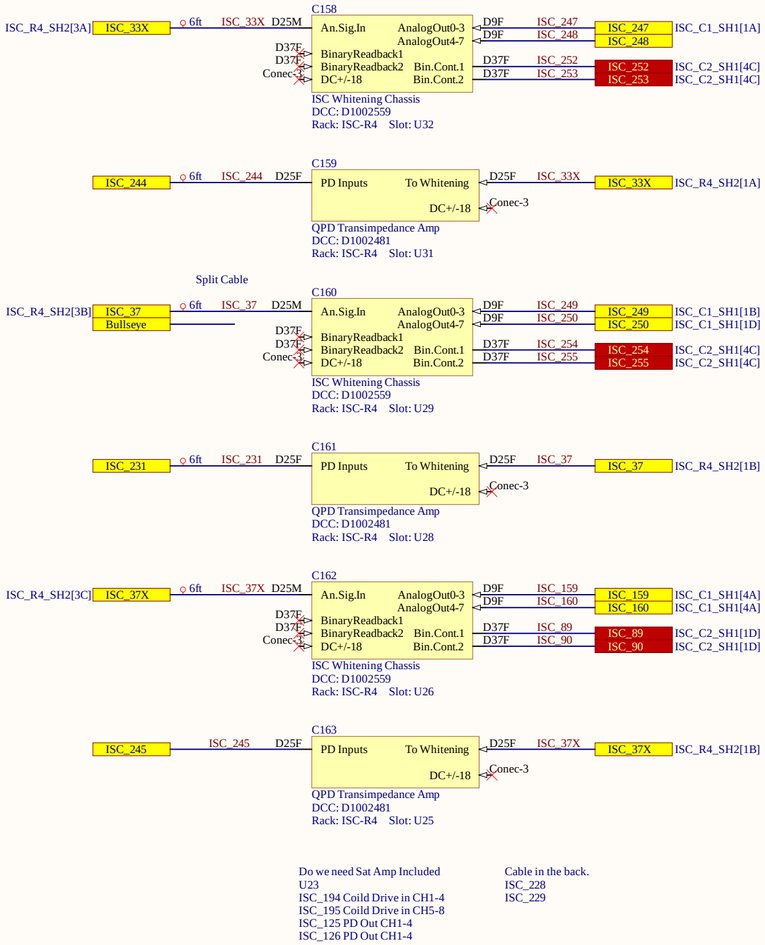
File: C:\Users\..\ISC_R4_SH1.SchDoc		Drawn By: Filiberto Clara	

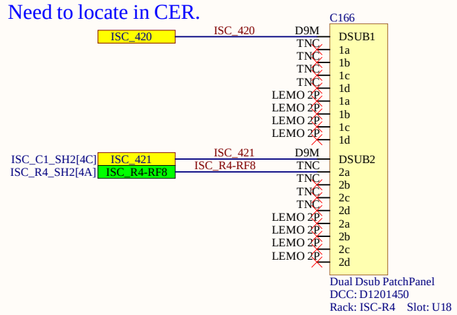
ISC-R4 Rack

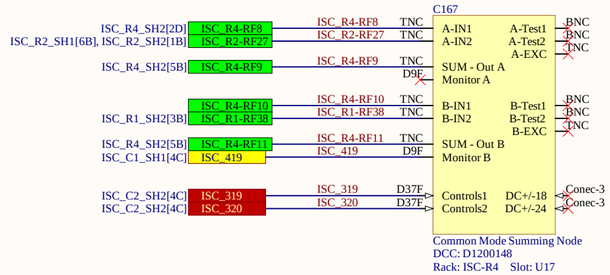


Do we need Sat Amp Included
U23
ISC_194 Coild Drive in CH1-4
ISC_195 Coild Drive in CH5-8
ISC_125 PD Out CH1-4
ISC_126 PD Out CH1-4

Cable in the back.
ISC_228
ISC_229

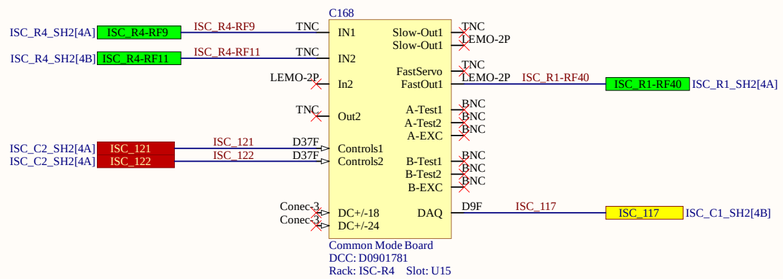
Need to locate in CER.

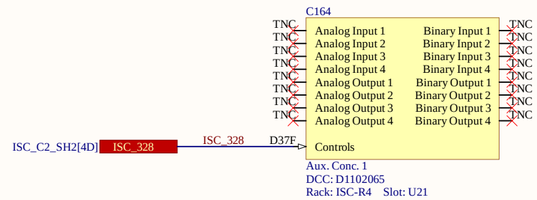


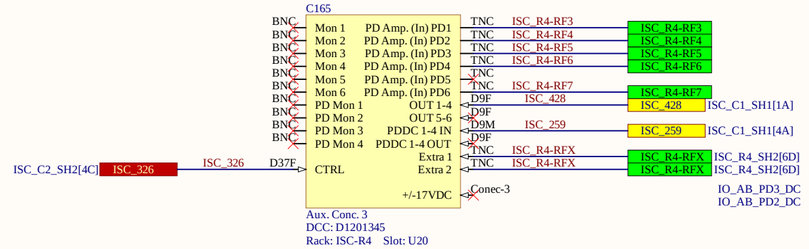


Otherside not labeled. RED
Otherside not labeled. Green
Otherside not labeled. R4 ISC1
Otherside not labeled. R4 ISC2

Otherside not labeled. Old label H1_ALS_PSL_PD1







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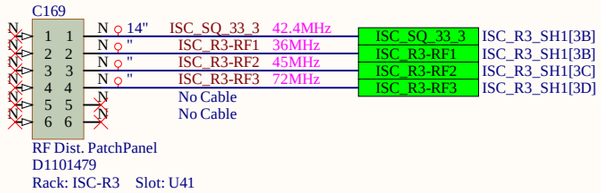
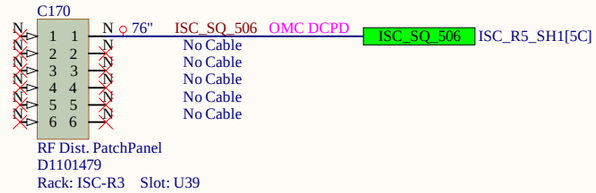
ISC-R3 Rack

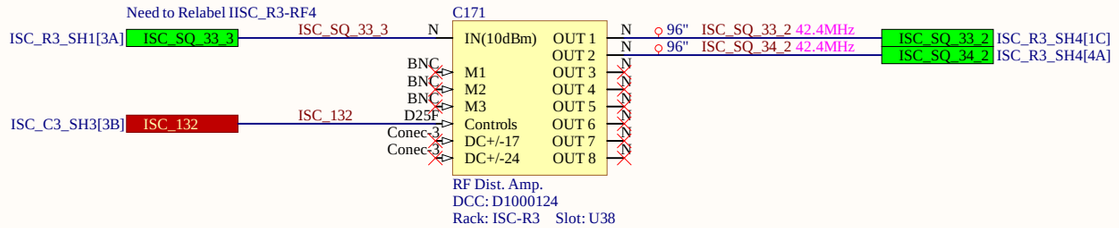
Need to Relabel ISC_R3-RF4

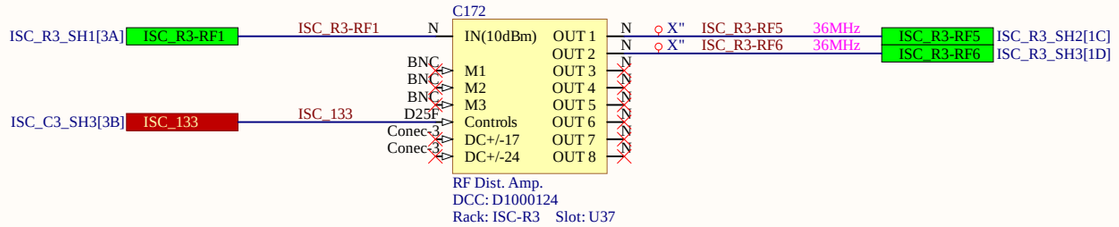
RF Patch Panel 15

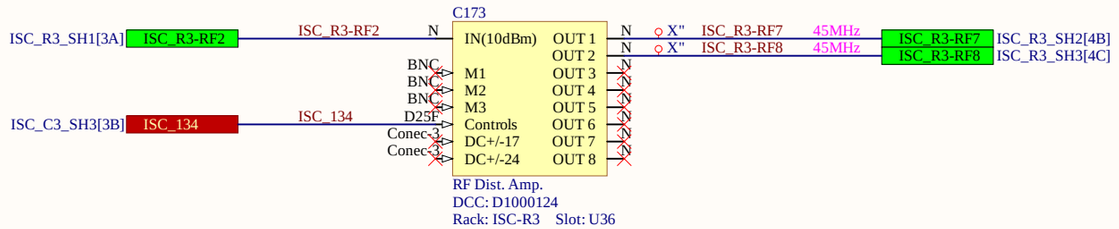


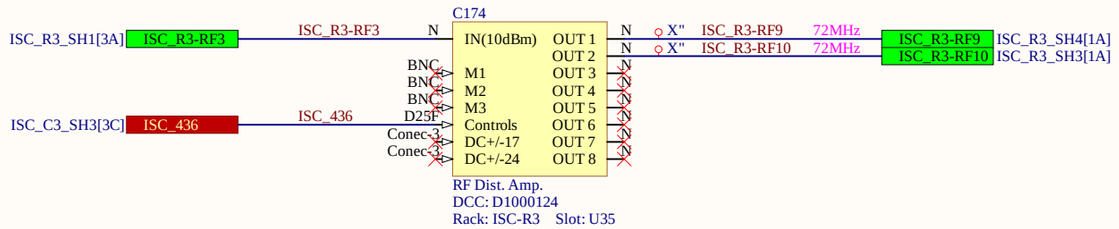
RF Patch Panel 16











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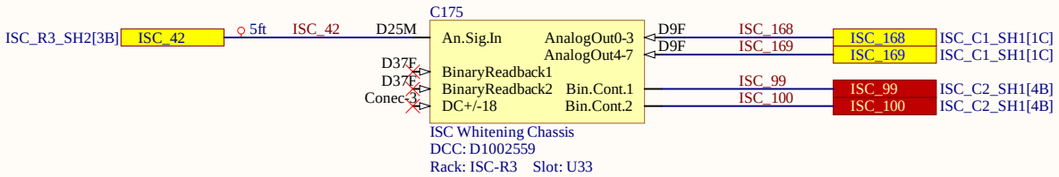
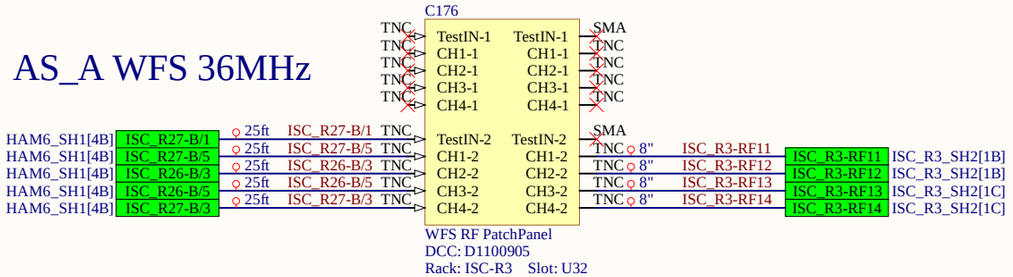
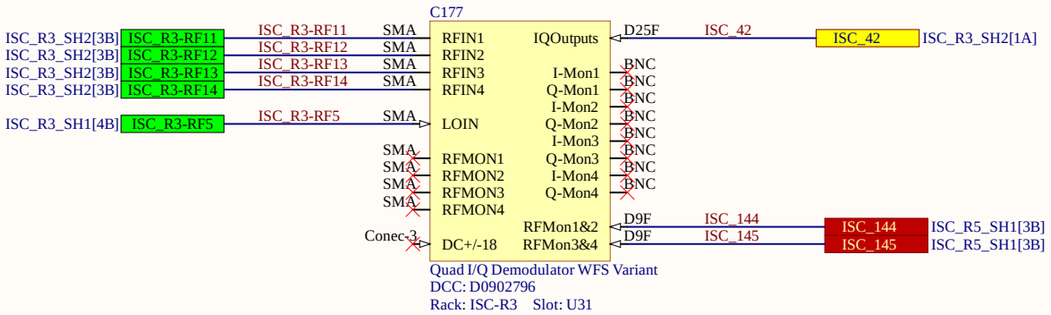
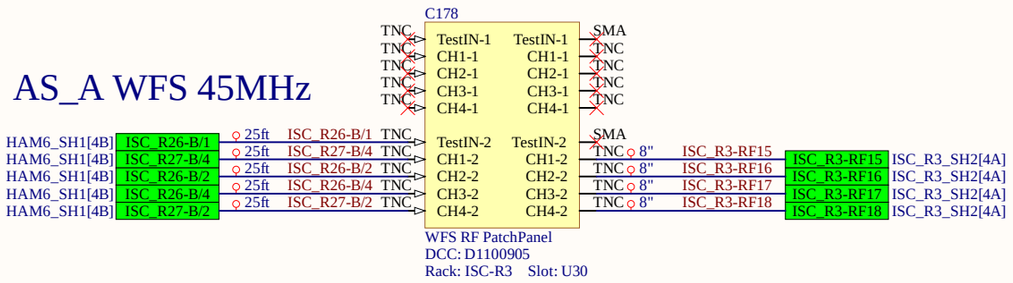
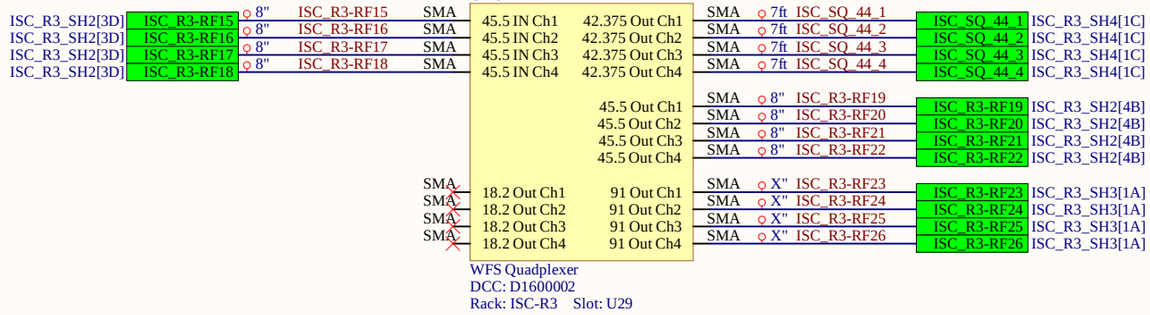
ISC-R3 Rack

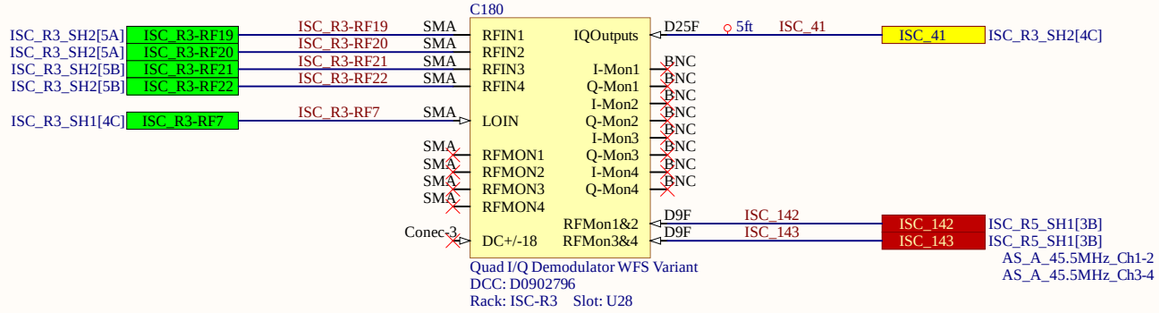


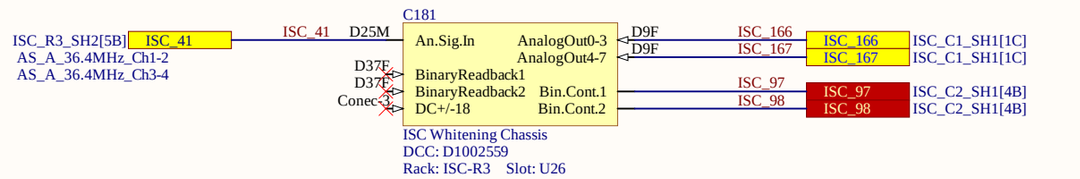












Title	**ISC System Wiring Diagram**	
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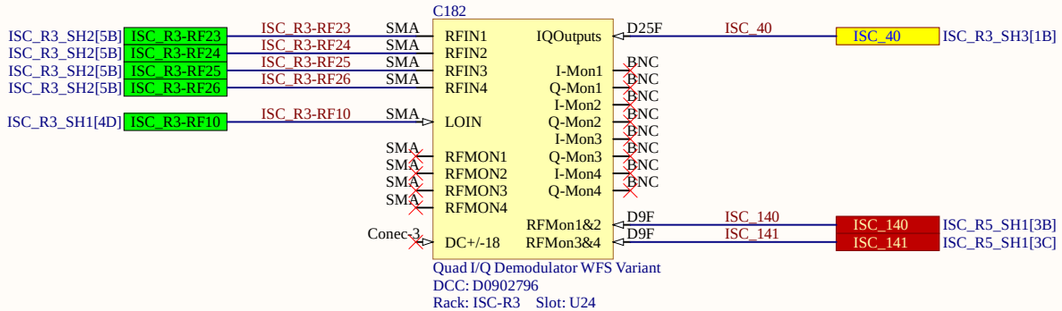
ISC-R3 Rack



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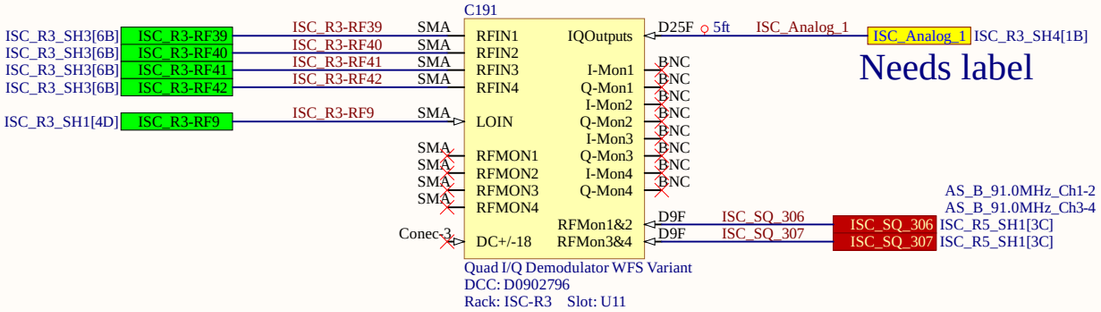
ISC-R3 Rack

Needs labels



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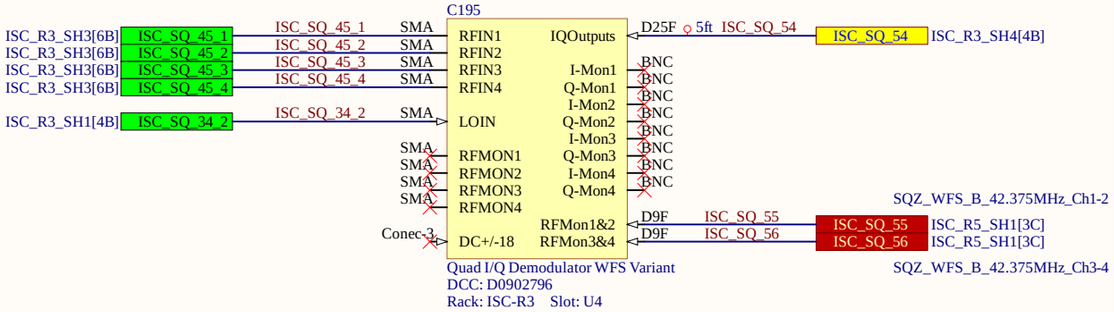
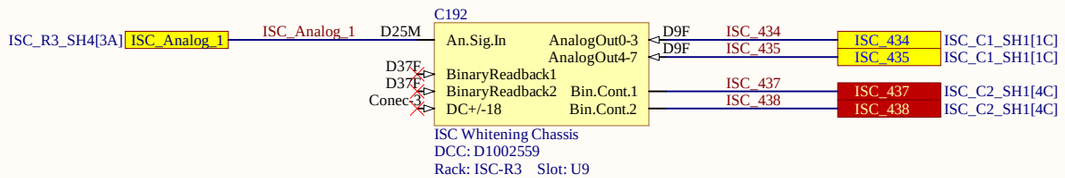
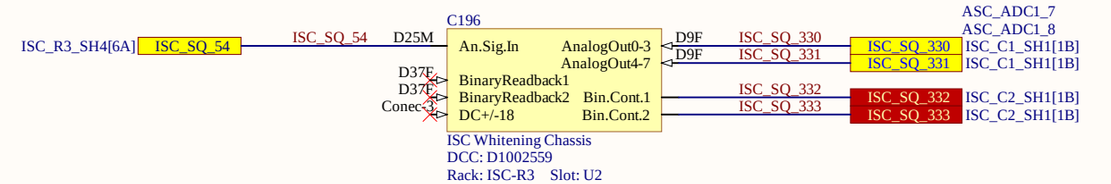
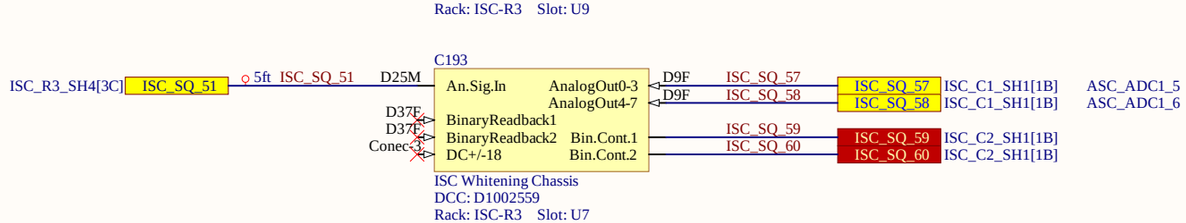
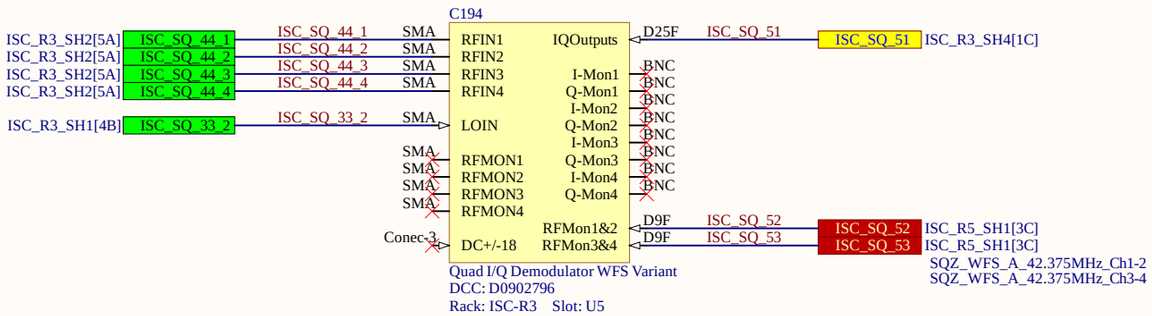




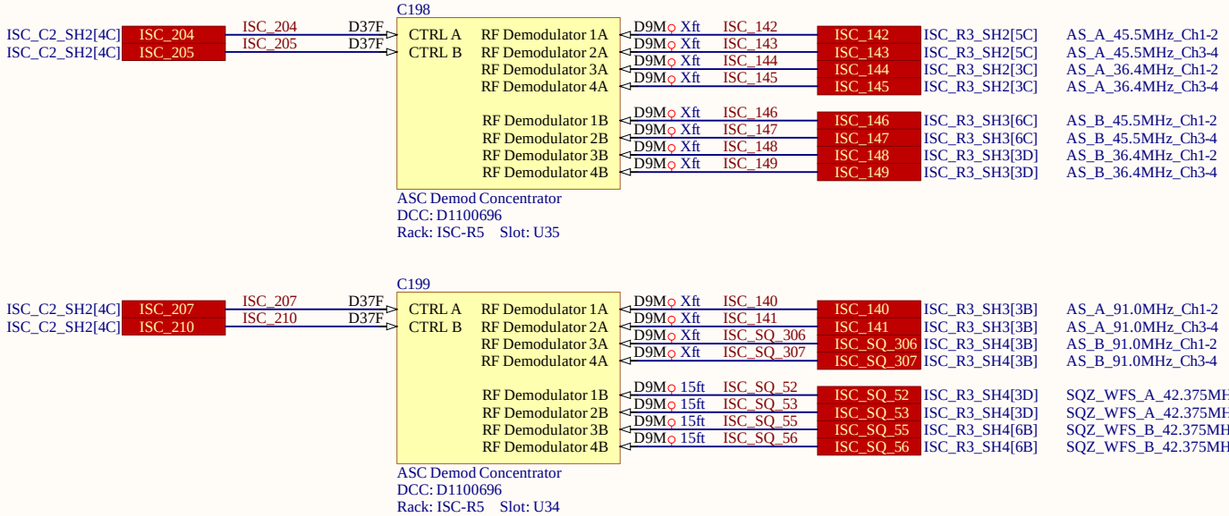






Title	**ISC System Wiring Diagram**	
Size: B	Number: D1900511	Revision: V6
Date: 10/06/2021	Sheet 1 of 38	
File: C:\Users\..\ISC_R3_SH4.SchDoc	Drawn By: Filiberto Clara	

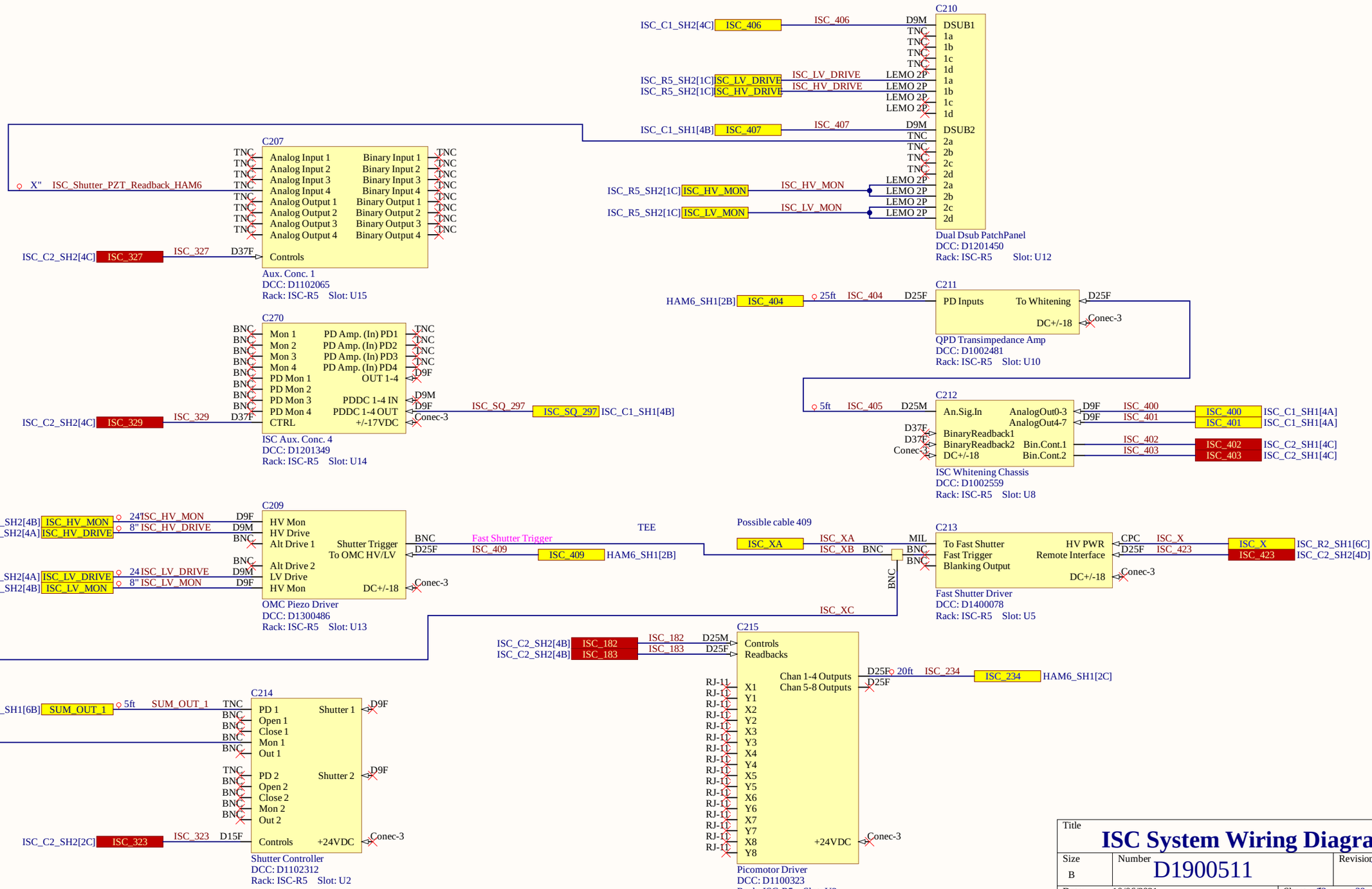
ISC-R5 Rack



The whitening chassis and the OMC berakout will be replaced for the new in-vac DCPDs.
The 3.1MHz signal will be brought out separately on coax.

Title	**ISC System Wiring Diagram**		
Size B	Number D1900511		Revision V6
Date: 10/06/2021		Sheet 38 of 42	
File: C:\Users\..\ISC_R5_SH1.SchDoc		Drawn By: Filiberto Clara	

ISC-R5 Rack



Title

ISC System Wiring Diagram

Size	Number	Revision
B	D1900511	V6
Date: 10/06/2021	Sheet of 23 38	
File: C:\Users\..\ISC_R5_SH2.SchDoc	Drawn By: Filiberto Clara	

ISCT1 - Right Side

Inside Enclosure

ISCT1_21	ISCT1_21	TNC	RF HI TNC	D1200811	U5-8	ISCT1	
ISCT1_28	ISCT1_28	TNC	RF LO TNC	D1200811	U5-8	ISCT1	
ISCT1_20	ISCT1_20	TNC	Test In TNC	D1200811	U5-8	ISCT1	LSC RFPD REFL Air A
ISCT1_10	ISCT1_10	TNC	Test Out TNC	D1200811	U5-8	ISCT1	
ISC_R4_SH1[1D] ISC_220	ISC_220	D9F	Power D9M	D1200811	U5-8	ISCT1	
ISCT1_1	ISCT1_1	TNC	HF3 TNC	D1200810	U9-13	ISCT1	
ISCT1_SH2[1A] ISCT1_13	ISCT1_13	TNC	LF4 TNC	D1200810	U9-13	ISCT1	
ISCT1_8	ISCT1_8	TNC	LF1 TNC	D1200810	U9-13	ISCT1	
ISCT1_24	ISCT1_24	TNC	HF4 TNC	D1200810	U9-13	ISCT1	
ISCT1_19	ISCT1_19	TNC	HF1 TNC	D1200810	U9-13	ISCT1	
ISCT1_16	ISCT1_16	TNC	LF2 TNC	D1200810	U9-13	ISCT1	ASC WFS REFL Air A
ISCT1_25	ISCT1_25	TNC	Test TNC	D1200810	U9-13	ISCT1	
ISCT1_11	ISCT1_11	TNC	HF2 TNC	D1200810	U9-13	ISCT1	
ISCT1_18	ISCT1_18	TNC	LF3 TNC	D1200810	U9-13	ISCT1	
ISC_31???	ISC_31???	D9F	Power D9M	D1200810	U9-13	ISCT1	

Cable labeled ISC_31, but label already used.

Inside Enclosure

ISCT1_9	ISCT1_9	TNC	HF3 TNC	D1200810	U14-18	ISCT1	
ISCT1_4	ISCT1_4	TNC	LF4 TNC	D1200810	U14-18	ISCT1	
ISCT1_5	ISCT1_5	TNC	LF1 TNC	D1200810	U14-18	ISCT1	ASC WFS REFL Air B
ISCT1_7	ISCT1_7	TNC	HF4 TNC	D1200810	U14-18	ISCT1	
ISCT1_14	ISCT1_14	TNC	HF1 TNC	D1200810	U14-18	ISCT1	
ISCT1_6	ISCT1_6	TNC	LF2 TNC	D1200810	U14-18	ISCT1	
ISCT1_26	ISCT1_26	TNC	Test TNC	D1200810	U14-18	ISCT1	
ISCT1_12	ISCT1_12	TNC	HF2 TNC	D1200810	U14-18	ISCT1	
ISCT1_3	ISCT1_3	TNC	LF3 TNC	D1200810	U14-18	ISCT1	
ISC_32??	ISC_32??	D9F	Power D9M	D1200810	U14-18	ISCT1	

Cable labeled ISC_31, but label already used.

ISCT1_15	ISCT1_15	TNC	RF HI TNC	D1200811	U19-23	ISCT1	
ISCT1_22	ISCT1_22	TNC	RF LO TNC	D1200811	U19-23	ISCT1	
ISCT1_2	ISCT1_2	TNC	Test In TNC	D1200811	U19-23	ISCT1	LSC RFPD POP Air A
ISCT1_17	ISCT1_17	TNC	Test Out TNC	D1200811	U19-23	ISCT1	
ISC_R4_SH1[1D] ISC_219	ISC_219	D9F	Power D9M	D1200811	U19-23	ISCT1	

Title	**ISC System Wiring Diagram**		
Size: B	Number: D1900511	Revision: V6	
Date: 10/06/2021	Sheet 24 of 38		
File: C:\Users\..\ISCT1_SH1.SchDoc	Drawn By: Filiberto Clara		

ISCT1 - Right Side

Inside Enclosure

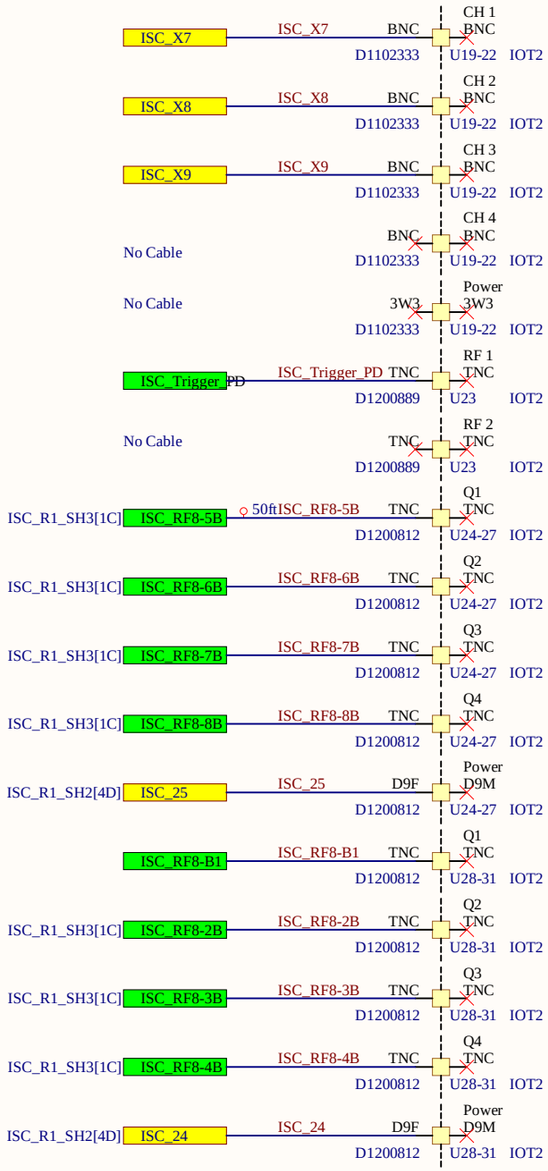
ISCT1_SH1[1B]	ISCT1_13	ISCT1_13	TNC D1200889	RF 1 TNC U23	ISCT1		
	ISCT1_23	ISCT1_23	TNC D1200889	RF 2 TNC U23	ISCT1		
	ISC_259???	ISC_259???	D9F D1101072	Output D9M U24-25	ISCT1		
labeled ISC_259, but label already used.							
±18V from SUS-R1			3W3 D1101072	DC±17 U24-25	ISCT1		
	ISCT1_DB9_1	ISCT1_DB9_1	D9M D1102369	A D9F U26-27	ISCT1		
	ISCT1_DB9_2	ISCT1_DB9_2	D9M D1102369	B D9F U26-27	ISCT1		
ISCT1_SH2[1C]	ISCT1_XX	ISCT1_XX	TNC D1200889	RF 1 TNC U28	ISCT1		
Gray cable, label 29. Need to relabel.							
ISCT1_SH2[1B]	ISCT1_XX	ISCT1_XX	TNC D1200889	RF 2 TNC U28	ISCT1		
Gray cable, label 30 Need to relabel.							
		No Cable	TNC D1201399	1 TNC U29-31	ISCT1		
		No Cable	TNC D1201399	2 TNC U29-31	ISCT1		
	R4_ISCT1_1	R4_ISCT1_1	TNC D1201399	3 TNC U29-31	ISCT1		
	R4_ISCT1_2	R4_ISCT1_2	TNC D1201399	4 TNC U29-31	ISCT1		
		No Cable	TNC D1201399	5 TNC U29-31	ISCT1		
		No Cable	TNC D1201399	6 TNC U29-31	ISCT1		
ISC_C2_SH2[4D]	ISC_331	ISC_331	D15M D1201483	TEC D15F U32	ISCT1		
	ISCT1_DB9_3	ISCT1_DB9_3	D9M D1102369	A D9F U37-38	ISCT1		
	ISCT1_DB9_4	ISCT1_DB9_4	D9M D1102369	B D9F U37-38	ISCT1		

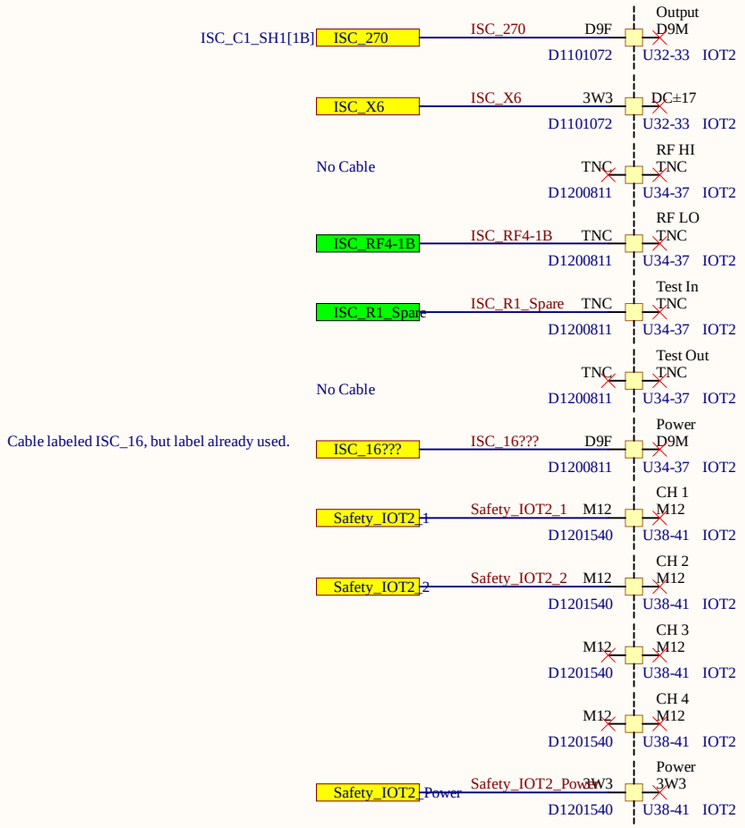
Inside Enclosure

ISCT1_ACC_Y	ISCT1_ACC_Y	BNC D1102333	CH 1 BNC U39-42	ISCT1	
IOT1_Video_Refl	IOT1_Video_Refl	BNC D1102333	CH 2 BNC U39-42	ISCT1	
IOT1_Video_POD	IOT1_Video_POD	BNC D1102333	CH 3 BNC U39-42	ISCT1	
IOT1_Video_Refl_PD	IOT1_Video_Refl_PD	BNC D1102333	CH 4 BNC U39-42	ISCT1	
XX	XX	3W3 D1102333	Power 3W3 U39-42	ISCT1	

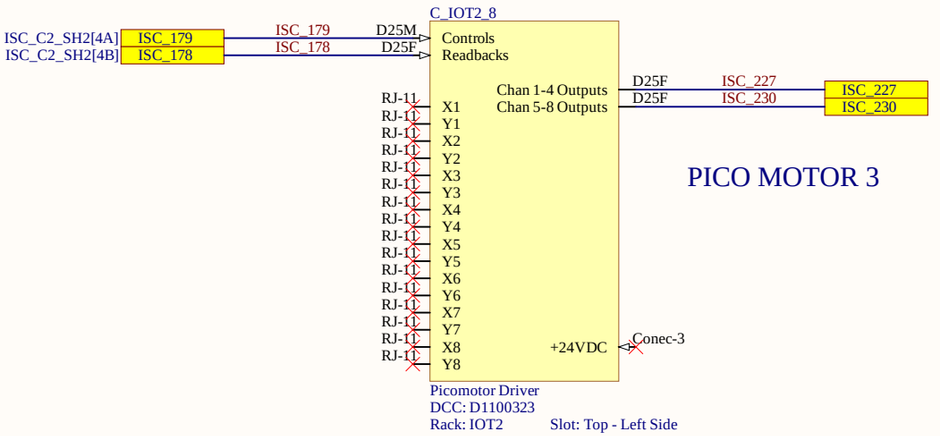
Title	ISC System Wiring Diagram		
Size B	Number D1900511		Revision V6
Date:	10/06/2021	Sheet 25 of 38	
File:	C:\Users\..\ISCT1_SH2.SchDoc	Drawn By:	Filiberto Clara

IOT2 - Left Side

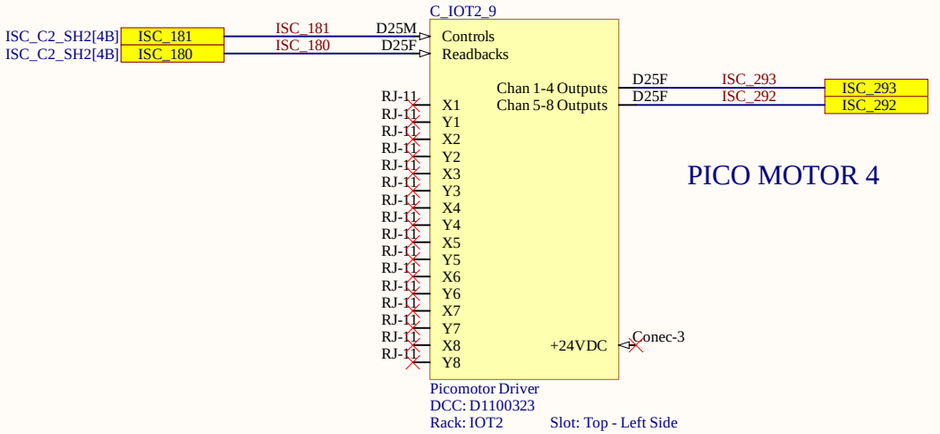




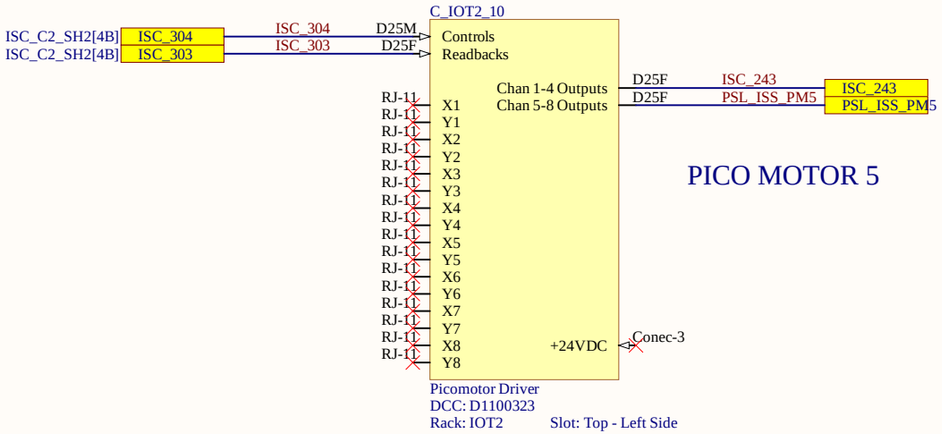
Title	**ISC System Wiring Diagram**	
Size: B	Number: D1900511	Revision: V6
Date: 10/06/2021	Sheet of 26 38	
File: C:\Users\..\IOT2_SH1.SchDoc	Drawn By: Filiberto Clara	



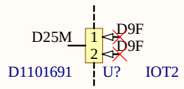
PICO MOTOR 3

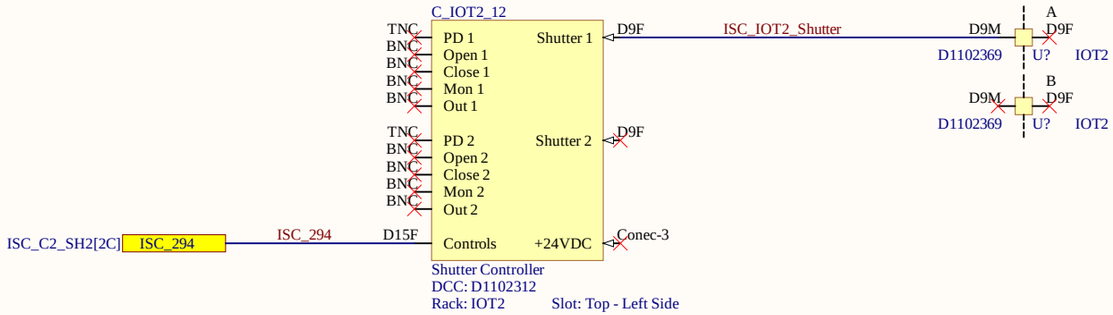


PICO MOTOR 4



PICO MOTOR 5





Title	**ISC System Wiring Diagram**		
Size: B	Number: D1900511		Revision: V6
Date: 10/06/2021		Sheet 37 of 38	
File: C:\Users\..\IOT2_SH2.SchDoc		Drawn By: Filiberto Clara	

HAM6 Flange Layout

DCPD

PZTs

OMC QPD

OMCR QPD

AS_C QPD

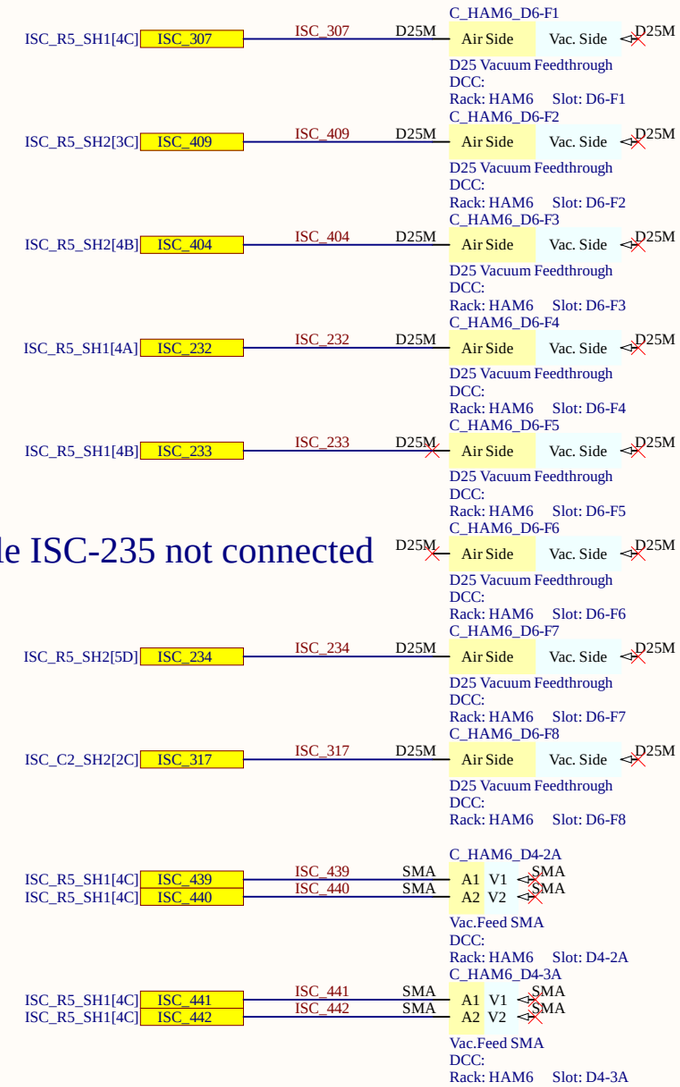
OMCR/AS Picomotor — Cable ISC-235 not connected

AS_C Picomotor

Beam diverter

DCPD 3.1MHz A/B

DCPD 3.1MHz C/D



AS_A WFS DC

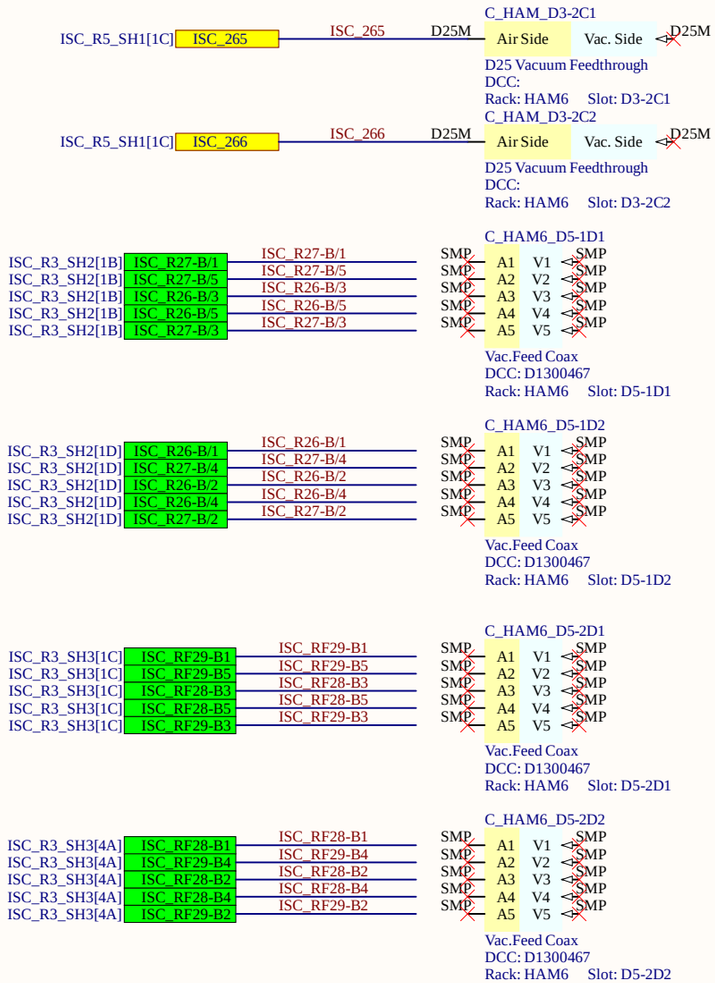
AS_B WFS DC

AS_A WFS 36MHz

AS_A WFS 45MHz

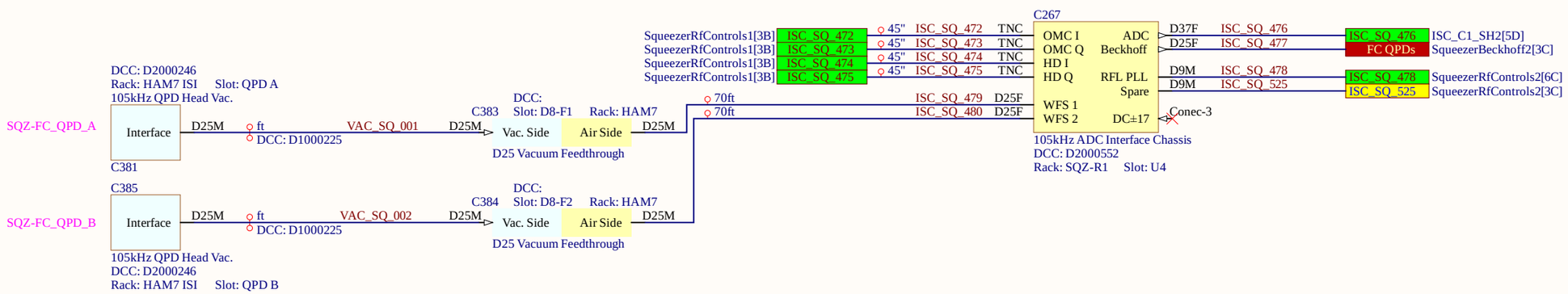
AS_B WFS 36MHz

AS_B WFS 45MHz



Need to check WFS RF!

Title	**ISC System Wiring Diagram**		
Size B	Number D1900511	Revision V6	
Date: 10/06/2021		Sheet of 28 38	
File: C:\Users\..\HAM6_SH1.SchDoc		Drawn By: Filiberto Clara	



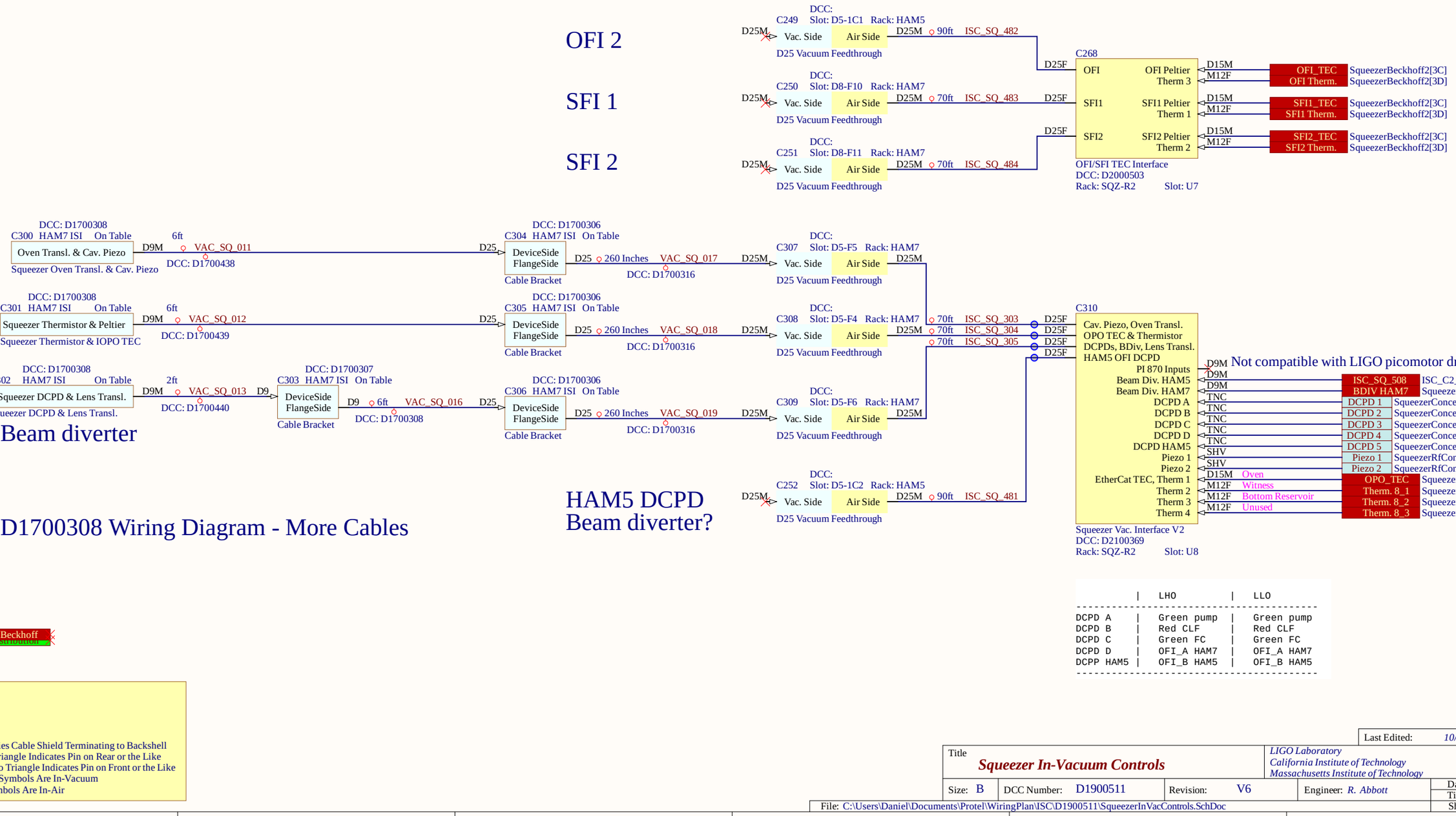
Key

__Ties to Beckhoff

Ties to_RF Distribution_

Dot Identifies Cable Shield Terminating to Backshell
Pin With Triangle Indicates Pin on Rear or the Like
Pin With No Triangle Indicates Pin on Front or the Like
Light Blue Symbols Are In-Vacuum
Yellow Symbols Are In-Air

Title	**Squeezer Wavefront Sensing**		
Size B	Number D1900511		Revision V6
Date: 10/06/2021		Sheet of 29 38	
File: C:\Users\..\SqueezerWfsWiring.SchDoc		Drawn By: R. Abbott	



	LHO	LLO
DCPD A	Green pump	Green pump
DCPD B	Red CLF	Red CLF
DCPD C	Green FC	Green FC
DCPD D	OFI_A HAM7	OFI_A HAM7
DCPP HAM5	OFI_B HAM5	OFI_B HAM5

Last Edited: 10/6/2021

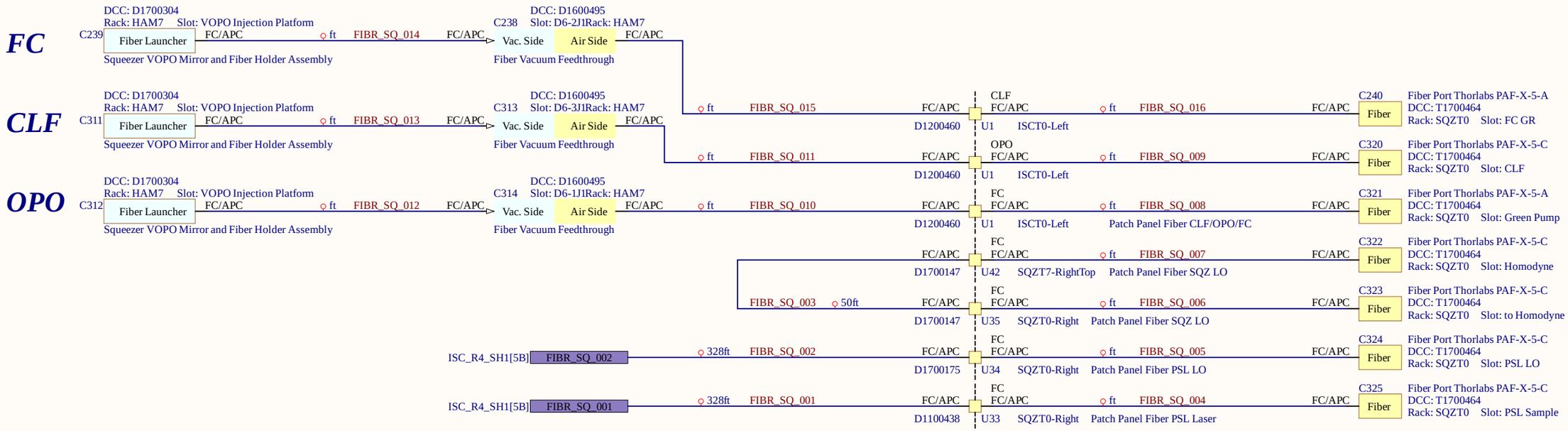
Title: **Squeezer In-Vacuum Controls**

LIGO Laboratory
California Institute of Technology
Massachusetts Institute of Technology
LIGO

Size: B | DCC Number: D1900511 | Revision: V6 | Engineer: *R. Abbott*

Date: 10/6/2021
Time: 9:54:26 AM
Sheet 30 of 38

File: C:\Users\Daniel\Documents\Protel\WiringPlan\ISC\D1900511\SqueezerInVacControls.SchDoc



Last Edited: *2/22/2021*

Title
Squeezer Fiber Connetctions

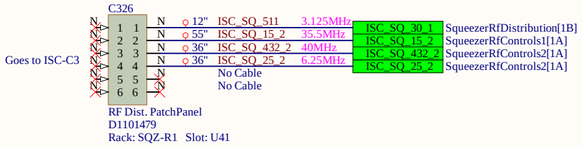
LIGO Laboratory
California Institute of Technology
Massachusetts Institute of Technology

LIGO

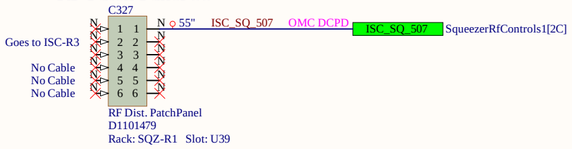
Size: B	DCC Number: D1900511	Revision: V6	Engineer: *R. Abbott*	Date: 10/6/2021
				Time: 9:54:26 AM

File: C:\Users\Daniel\Documents\Protel\WiringPlan\ISC\D1900511\SqueezerFiber.SchDoc

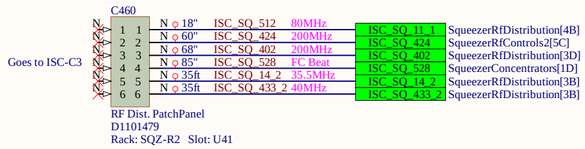
RF Patch Panel 34



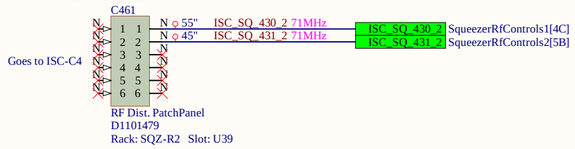
RF Patch Panel 35



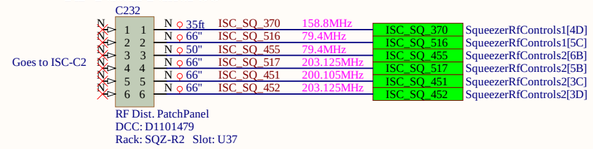
RF Patch Panel 36



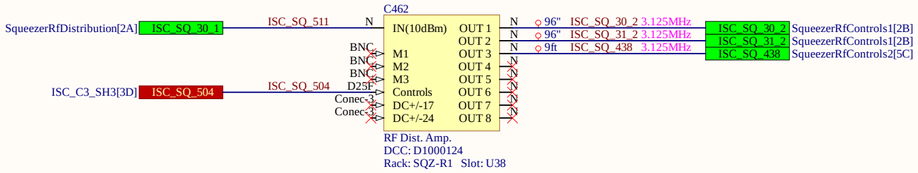
RF Patch Panel 37

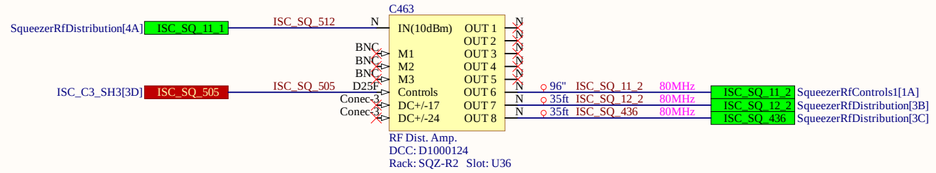


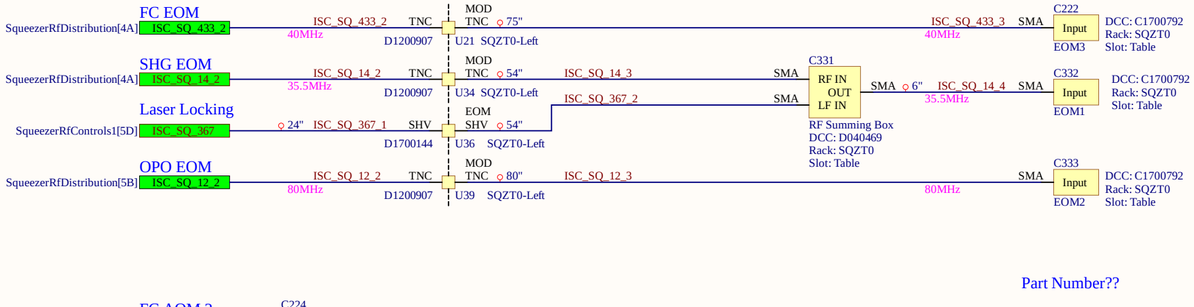
RF Patch Panel 38



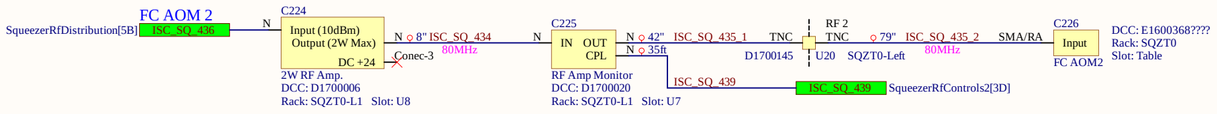
New cables for A_ start at ISC_SQ_430



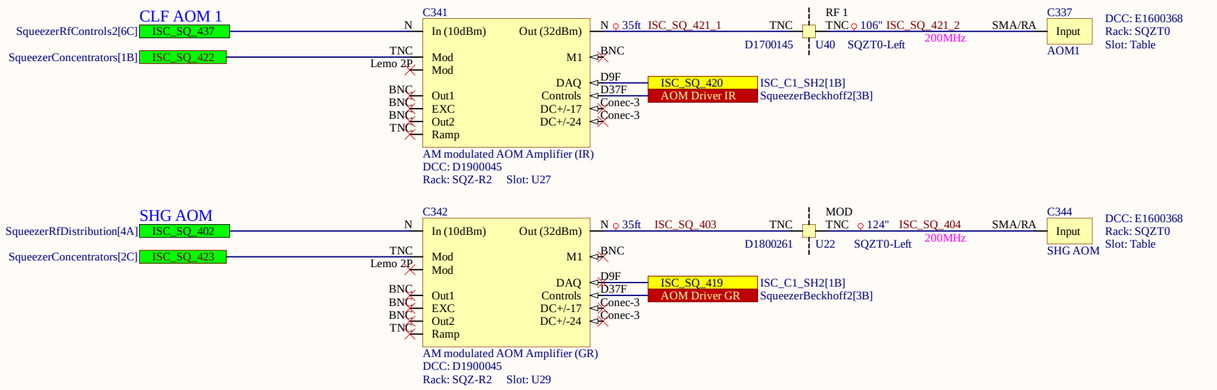




Part Number??



RF cables carrying the AOM signals need to be 1/4" superflexible helical corrugated coax.



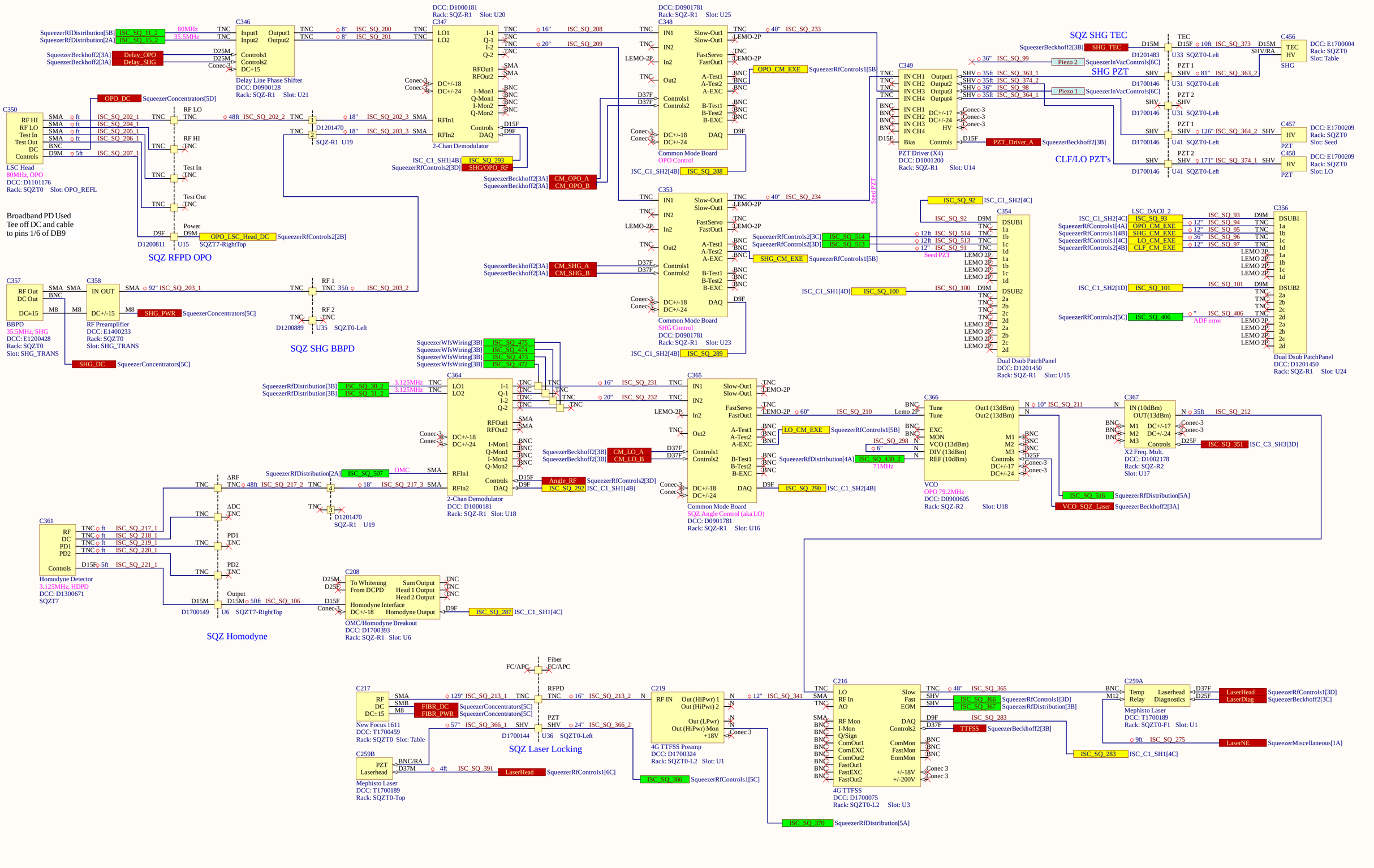
Key

Ties to Beckhoff_

Ties to RF Controls or WFS Wiring_

Dot Identifies Cable Shield Terminating to Backshell
Pin With Triangle Indicates Pin on Rear or the Like
Pin With No Triangle Indicates Pin on Front or the Like
Light Blue Symbols Are In-Vacuum
Yellow Symbols Are In-Air

Title: **Squeezer RF Distribution**		
Size: C	Number: D1900511	Revision: V6
Date: 10/06/2021	Sheet of 32 38	
File: C:\Users\..\SqueezerRfDistribution.SchDoc	Drawn By: R. Abbott	


SQZ SHG TEC
SQZ SHG PZT
CLF/LO PZT's
SQZ RFPD OPO
SQZ SHG BBPD
SQZ Homodyne
SQZ Laser Locking
Broadband PD Used
Tee off DC and cable
to pins 1/6 of DB9
C346
Delay Line Phase Shifter
DCC: D0900128
Rack: SQZ-R1 Slot: U21
DCC: D1000181
Rack: SQZ-R1 Slot: U20
C347
2-Chan Demodulator
DCC: D0901781
Rack: SQZ-R1 Slot: U25
C348
Common Mode Board
OPO Control
C349
PZT Driver (X4)
DCC: D1001200
Rack: SQZ-R1 Slot: U14
C350
LSC Head
80MHz, OPO
DCC: D1101176
Rack: SQZT0 Slot: OPO_REFL
C353
Common Mode Board
SHG Control
DCC: D0901781
Rack: SQZ-R1 Slot: U23
C354
Dual Dsub PatchPanel
DCC: D1201450
Rack: SQZ-R1 Slot: U15
C356
Dual Dsub PatchPanel
DCC: D1201450
Rack: SQZ-R1 Slot: U24
C357
BBPD
35.5MHz, SHG
DCC: E1200428
Rack: SQZT0
Slot: SHG_TRANS
C358
RF Preamplifier
DCC: E1400233
Rack: SQZT0
Slot: SHG_TRANS
C364
2-Chan Demodulator
DCC: D1000181
Rack: SQZ-R1 Slot: U18
C365
Common Mode Board
SQZ Angle Control (aka LO)
DCC: D0901781
Rack: SQZ-R1 Slot: U16
C366
VCO
OPO 79.2MHz
DCC: D0900605
Rack: SQZ-R2 Slot: U18
C367
X2 Freq. Mult.
DCC: D1002178
Rack: SQZ-R2
Slot: U17
C361
Homodyne Detector
3.125MHz, HDPD
DCC: D1300671
SQZT7
C208
OMC/Homodyne Breakout
DCC: D1700393
Rack: SQZ-R1 Slot: U6
C217
New Focus 1611
DCC: T1700459
Rack: SQZT0 Slot: Table
C219
4G TTFSS Preamp
DCC: D1700324
Rack: SQZT0-L2 Slot: U1
C216
4G TTFSS
DCC: D1700075
Rack: SQZT0-L2 Slot: U3
C259A
Mephisto Laser
DCC: T1700189
Rack: SQZT0-F1 Slot: U1
C259B
Mephisto Laser
DCC: T1700189
Rack: SQZT0-Top
C456
DCC: E1700004
Rack: SQZT0
Slot: Table
C457
DCC: E1700209
Rack: SQZT0
Slot: Seed
C458
DCC: E1700209
Rack: SQZT0
Slot: LO
Key
Ties_to Beckhoff
Ties_to RF Distribution
Dot Identifies Cable Shield Terminating to Backshell
Pin With Triangle Indicates Pin on Rear or the Like
Pin With No Triangle Indicates Pin on Front or the Like
Light Blue Symbols Are In-Vacuum
Yellow Symbols Are In-Air
Title
Squeezer RF Controls 1
LIGO Laboratory
California Institute of Technology
Massachusetts Institute of Technology
LIGO
Last Edited: 2/22/2021
Size: C
DCC Number: D1900511
SCH / PCB Revision: V6
Engineer: R. Abbott
Date: 10/6/2021
Time: 9:54:26 AM
Sheet 33 of 38
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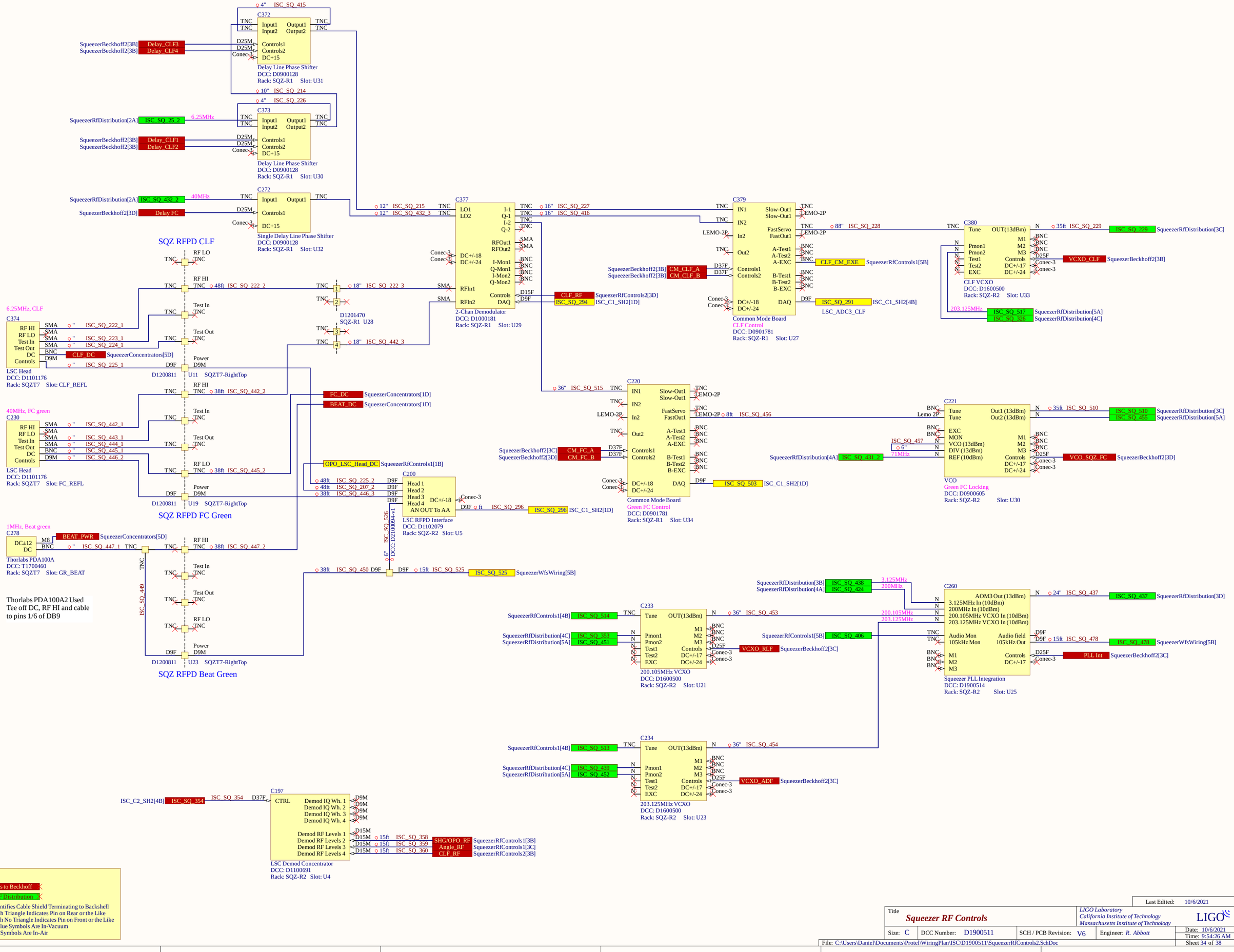
SQZ RFPD CLF
SQZ RFPD FC Green
SQZ RFPD Beat Green
C372
Delay Line Phase Shifter
DCC: D0900128
Rack: SQZ-R1 Slot: U31
C373
Delay Line Phase Shifter
DCC: D0900128
Rack: SQZ-R1 Slot: U30
C272
Single Delay Line Phase Shifter
DCC: D0900128
Rack: SQZ-R1 Slot: U32
C377
2-Chan Demodulator
DCC: D1000181
Rack: SQZ-R1 Slot: U29
C379
Common Mode Board
CLF Control
DCC: D0901781
Rack: SQZ-R1 Slot: U27
C380
CLF VCXO
DCC: D1600500
Rack: SQZ-R2 Slot: U33
C374
LSC Head
DCC: D1101176
Rack: SQZT7 Slot: CLF_REFL
C230
LSC Head
DCC: D1101176
Rack: SQZT7 Slot: FC_REFL
C200
LSC RFPD Interface
DCC: D1102079
Rack: SQZ-R2 Slot: U5
C220
Common Mode Board
Green FC Control
DCC: D0901781
Rack: SQZ-R1 Slot: U34
C221
VCO
Green FC Locking
DCC: D0900605
Rack: SQZ-R2 Slot: U30
C278
Thorlabs PDA100A
DCC: T1700460
Rack: SQZT7 Slot: GR_BEAT
Thorlabs PDA100A2 Used
Tee off DC, RF HI and cable
to pins 1/6 of DB9
C233
200.105MHz VCXO
DCC: D1600500
Rack: SQZ-R2 Slot: U21
C260
Squeezer PLL Integration
DCC: D1900514
Rack: SQZ-R2 Slot: U25
C234
203.125MHz VCXO
DCC: D1600500
Rack: SQZ-R2 Slot: U23
C197
LSC Demod Concentrator
DCC: D1100691
Rack: SQZ-R2 Slot: U4
D1201470
SQZ-R1 U28
D1200811
U11 SQZT7-RightTop
D1200811
U19 SQZT7-RightTop
D1200811
U23 SQZT7-RightTop
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Ties to RF Distribution
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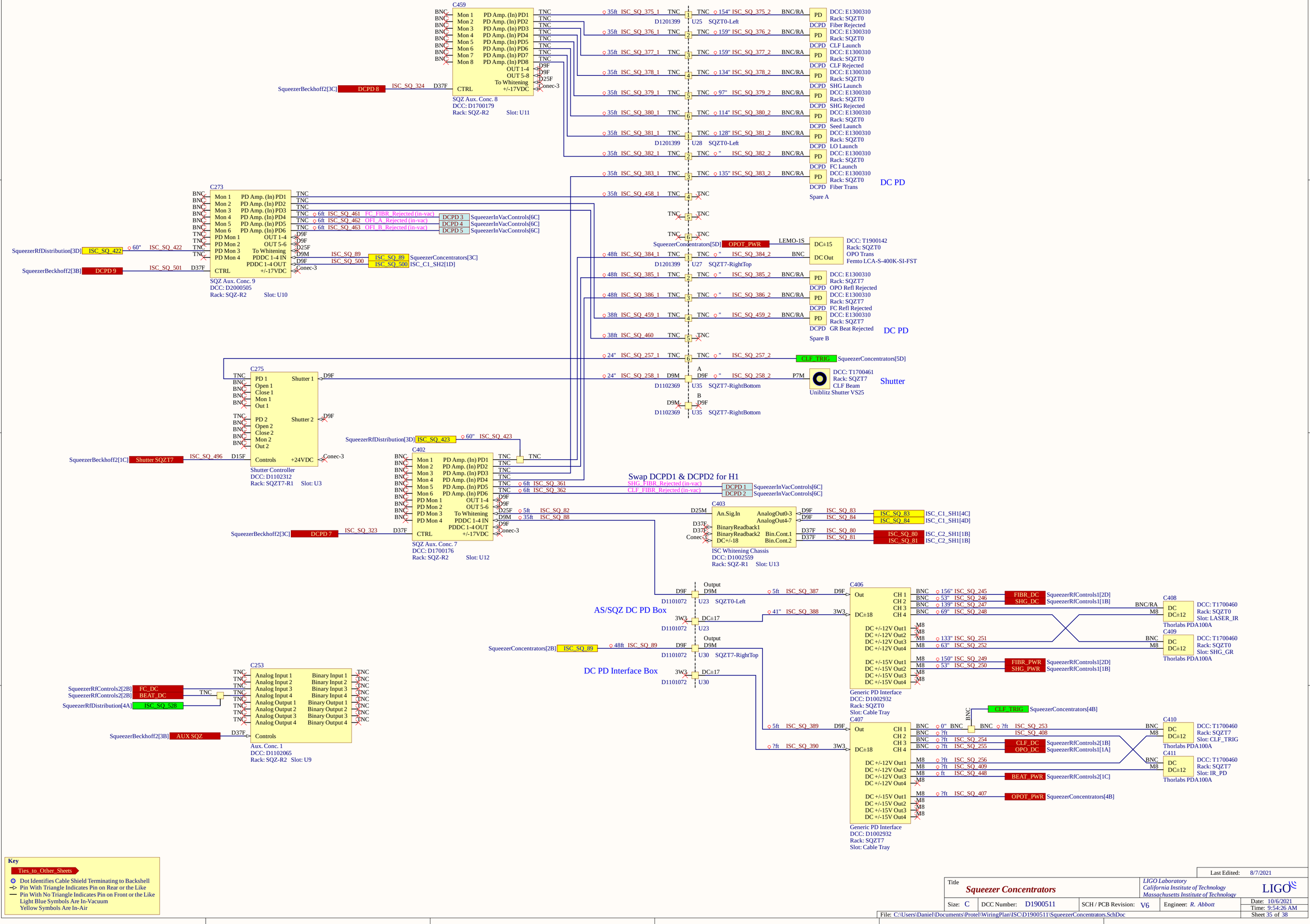
Sheet 34 of 38


C459
Mon 1 PD Amp. (In) PD1
Mon 2 PD Amp. (In) PD2
Mon 3 PD Amp. (In) PD3
Mon 4 PD Amp. (In) PD4
Mon 5 PD Amp. (In) PD5
Mon 6 PD Amp. (In) PD6
Mon 7 PD Amp. (In) PD7
Mon 8 PD Amp. (In) PD8
OUT 1-4
OUT 5-8
To Whitening
CTRL +/-17VDC
SqueezerBeckhoff2[3C] DCPD 8 ISC_SQ_324 D37F
SQZ Aux. Conc. 8
DCC: D1700179
Rack: SQZ-R2 Slot: U11
D1201399 U25 SQZT0-Left
D1201399 U28 SQZT0-Left
DC PD
Spare A
Spare B
C273
PD Mon 1 OUT 1-4
PD Mon 2 OUT 5-6
PD Mon 3 To Whitening
PD Mon 4 PDDC 1-4 IN
PDDC 1-4 OUT
SqueezerRfDistribution[3D] ISC_SQ_422
SqueezerBeckhoff2[3B] DCPD 9 ISC_SQ_501 D37F
SQZ Aux. Conc. 9
DCC: D2000505
Rack: SQZ-R2 Slot: U10
FC_FIBR_Rejected (in-vac)
OFI_A_Rejected (in-vac)
OFI_B_Rejected (in-vac)
DCPD 3 SqueezerInVacControls[6C]
DCPD 4 SqueezerInVacControls[6C]
DCPD 5 SqueezerInVacControls[6C]
ISC_SQ_89 ISC_SQ_500 ISC_C1_SH2[1D]
SqueezerConcentrators[3C]
SqueezerConcentrators[5D] OPOT_PWR LEMO-1S
DC±15 DC Out
DCC: T1900142
Rack: SQZT0
OPO Trans
Femto LCA-S-400K-SI-FST
C275
PD 1 Shutter 1
Open 1
Close 1
Mon 1
Out 1
PD 2 Shutter 2
Open 2
Close 2
Mon 2
Out 2
Controls +24VDC
SqueezerBeckhoff2[1C] Shutter SQZT7 ISC_SQ_496 D15F
Shutter Controller
DCC: D1102312
Rack: SQZT7-R1 Slot: U3
DCC: E1300310
Rack: SQZT0
Fiber Rejected
CLF Launch
CLF Rejected
SHG Launch
SHG Rejected
Seed Launch
LO Launch
FC Launch
Fiber Trans
DCC: E1300310
Rack: SQZT7
OPO Refl Rejected
FC Refl Rejected
GR Beat Rejected
DCC: T1700461
Rack: SQZT7
CLF Beam
Uniblitz Shutter VS25
Shutter
C402
Mon 1 PD Amp. (In) PD1
Mon 2 PD Amp. (In) PD2
Mon 3 PD Amp. (In) PD3
Mon 4 PD Amp. (In) PD4
Mon 5 PD Amp. (In) PD5
Mon 6 PD Amp. (In) PD6
PD Mon 1 OUT 1-4
PD Mon 2 OUT 5-6
PD Mon 3 To Whitening
PD Mon 4 PDDC 1-4 IN
PDDC 1-4 OUT
CTRL +/-17VDC
SqueezerRfDistribution[3D] ISC_SQ_423
SqueezerBeckhoff2[3C] DCPD 7 ISC_SQ_323 D37F
SQZ Aux. Conc. 7
DCC: D1700176
Rack: SQZ-R2 Slot: U12
Swap DCPD1 & DCPD2 for H1
SHG_FIBR_Rejected (in-vac)
CLF_FIBR_Rejected (in-vac)
DCPD 1 SqueezerInVacControls[6C]
DCPD 2 SqueezerInVacControls[6C]
C403
An.Sig.In AnalogOut0-3
AnalogOut4-7
BinaryReadback1
BinaryReadback2 Bin.Cont.1
DC+/-18 Bin.Cont.2
ISC Whitening Chassis
DCC: D1002559
Rack: SQZ-R1 Slot: U13
ISC_SQ_83 ISC_C1_SH1[4C]
ISC_SQ_84 ISC_C1_SH1[4D]
ISC_SQ_80 ISC_SQ_81 ISC_C2_SH1[1B]
AS/SQZ DC PD Box
DC PD Interface Box
D1101072 U23 SQZT0-Left
D1101072 U23
D1101072 U30 SQZT7-RightTop
D1101072 U30
SqueezerConcentrators[2B] ISC_SQ_89
C406
Out CH 1
CH 2
CH 3
CH 4
DC±18
DC +/-12V Out1
DC +/-12V Out2
DC +/-12V Out3
DC +/-12V Out4
DC +/-15V Out1
DC +/-15V Out2
DC +/-15V Out3
DC +/-15V Out4
Generic PD Interface
DCC: D1002932
Rack: SQZT0
Slot: Cable Tray
FIBR_DC SqueezerRfControls1[2D]
SHG_DC SqueezerRfControls1[1B]
FIBR_PWR SqueezerRfControls1[2D]
SHG_PWR SqueezerRfControls1[1B]
C408
C409
DC
DC±12
DCC: T1700460
Rack: SQZT0
Slot: LASER_IR
Slot: SHG_GR
Thorlabs PDA100A
C407
CLF_TRIG SqueezerConcentrators[4B]
CLF_DC SqueezerRfControls2[1B]
OPO_DC SqueezerRfControls1[1A]
BEAT_PWR SqueezerRfControls2[1C]
OPOT_PWR SqueezerConcentrators[4B]
C410
C411
Slot: CLF_TRIG
Slot: IR_PD
C253
Analog Input 1 Binary Input 1
Analog Input 2 Binary Input 2
Analog Input 3 Binary Input 3
Analog Input 4 Binary Input 4
Analog Output 1 Binary Output 1
Analog Output 2 Binary Output 2
Analog Output 3 Binary Output 3
Analog Output 4 Binary Output 4
Controls
SqueezerRfControls2[2B] FC_DC
SqueezerRfControls2[2B] BEAT_DC
SqueezerRfDistribution[4A] ISC_SQ_528
SqueezerBeckhoff2[3B] AUX SQZ D37F
Aux. Conc. 1
DCC: D1102065
Rack: SQZ-R2 Slot: U9
Key
Ties_to_Other_Sheets
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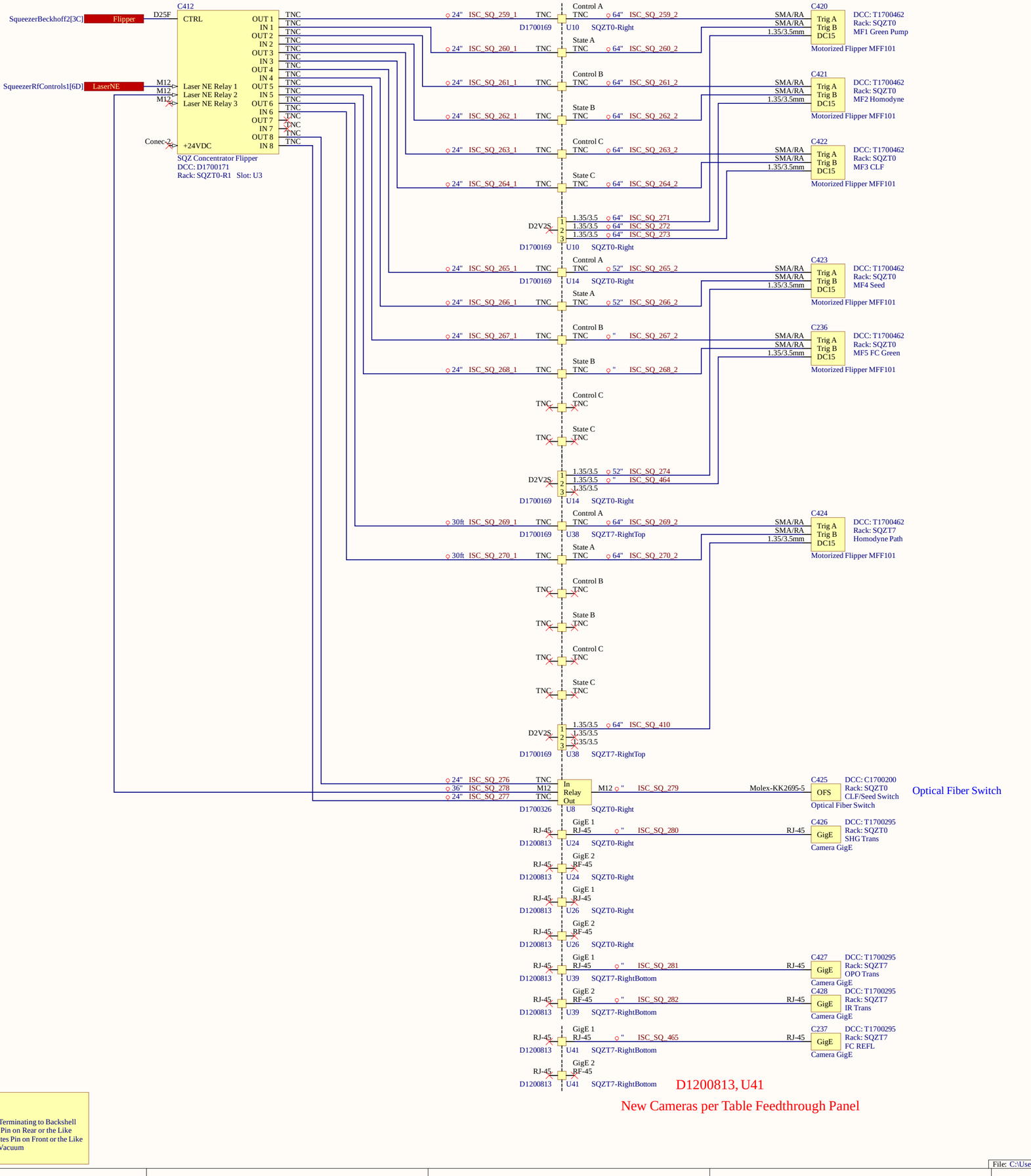
Title
Squeezer Concentrators
LIGO Laboratory
California Institute of Technology
Massachusetts Institute of Technology
LIGO
Size: C
DCC Number: D1900511
SCH / PCB Revision: V6
Engineer: R. Abbott
Date: 10/6/2021
Time: 9:54:26 AM
Sheet 35 of 38
File: C:\Users\Daniel\Documents\Protel\WiringPlan\ISC\D1900511\SqueezerConcentrators.SchDoc

Flipper



Optical Fiber Switch

D1200813, U41

New Cameras per Table Feedthrough Panel

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Last Edited: 2/10/2021					
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Size: C	DCC Number: D1900511	SCH / PCB Revision: V6	Engineer: *R. Abbott*	Date: 10/6/2021	
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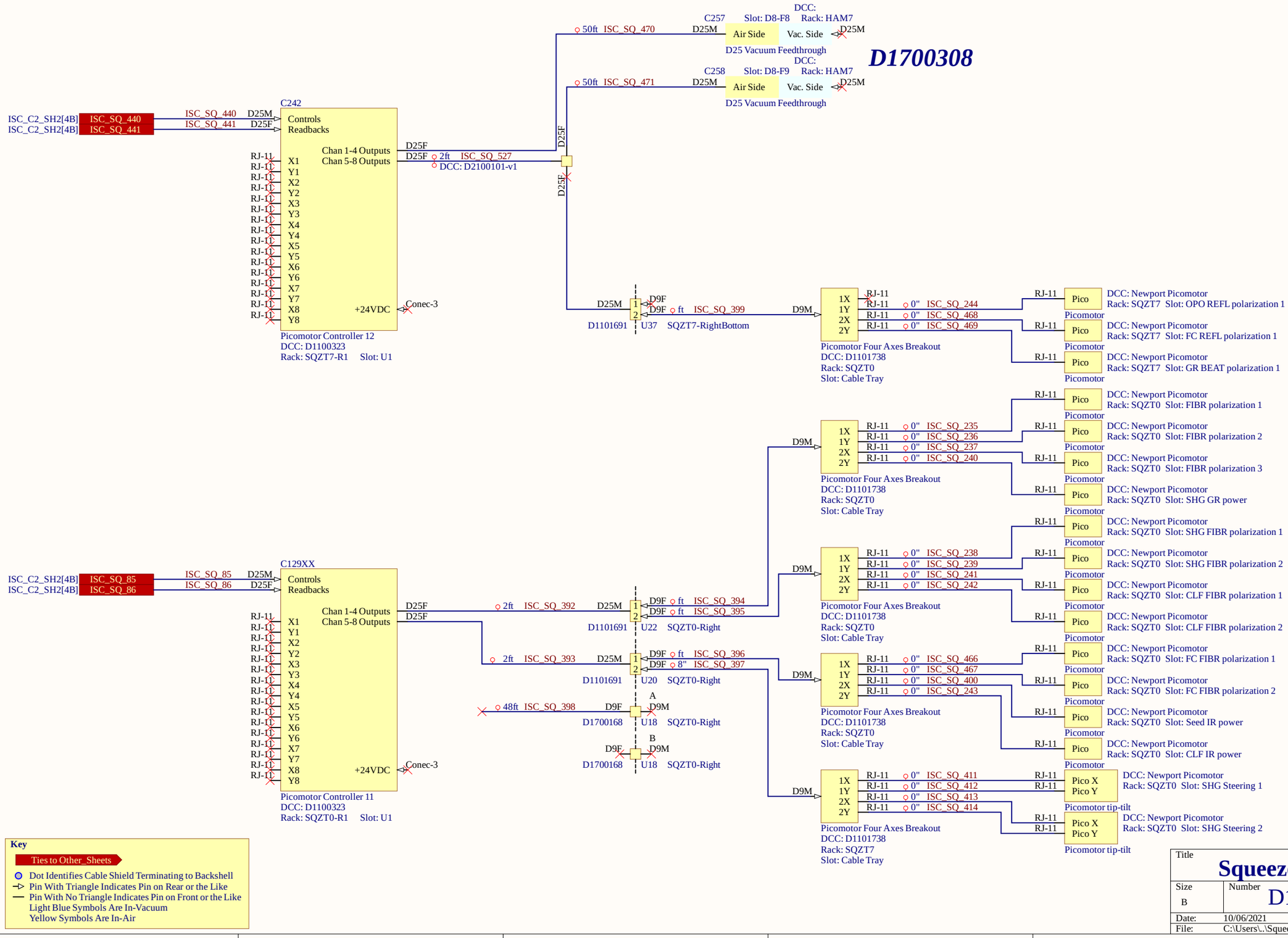
D1700308
C257 Slot: D8-F8 DCC: Rack: HAM7
50ft ISC_SQ_470 D25M Air Side Vac. Side D25M
D25 Vacuum Feedthrough
C258 Slot: D8-F9 DCC: Rack: HAM7
50ft ISC_SQ_471 D25M Air Side Vac. Side D25M
D25 Vacuum Feedthrough
C242
ISC_C2_SH2[4B] ISC_SQ_440
ISC_C2_SH2[4B] ISC_SQ_441
ISC_SQ_440 D25M
ISC_SQ_441 D25F
Controls
Readbacks
Chan 1-4 Outputs
Chan 5-8 Outputs
RJ-11 X1 Y1 X2 Y2 X3 Y3 X4 Y4 X5 Y5 X6 Y6 X7 Y7 X8 Y8
+24VDC
Conec-3
Picomotor Controller 12
DCC: D1100323
Rack: SQZT7-R1 Slot: U1
D25F
D25F 2ft ISC_SQ_527
DCC: D2100101-v1
D25F
D25F
D25M 1 2 D9F
D9F ft ISC_SQ_399
D1101691 U37 SQZT7-RightBottom
D9M
1X 1Y 2X 2Y
Picomotor Four Axes Breakout
DCC: D1101738
Rack: SQZT0
Slot: Cable Tray
RJ-11 0" ISC_SQ_244
RJ-11 0" ISC_SQ_468
RJ-11 0" ISC_SQ_469
RJ-11 Pico Picomotor
DCC: Newport Picomotor
Rack: SQZT7 Slot: OPO REFL polarization 1
DCC: Newport Picomotor
Rack: SQZT7 Slot: FC REFL polarization 1
DCC: Newport Picomotor
Rack: SQZT7 Slot: GR BEAT polarization 1
RJ-11 0" ISC_SQ_235
RJ-11 0" ISC_SQ_236
RJ-11 0" ISC_SQ_237
RJ-11 0" ISC_SQ_240
DCC: Newport Picomotor
Rack: SQZT0 Slot: FIBR polarization 1
DCC: Newport Picomotor
Rack: SQZT0 Slot: FIBR polarization 2
DCC: Newport Picomotor
Rack: SQZT0 Slot: FIBR polarization 3
DCC: Newport Picomotor
Rack: SQZT0 Slot: SHG GR power
C129XX
ISC_C2_SH2[4B] ISC_SQ_85
ISC_C2_SH2[4B] ISC_SQ_86
ISC_SQ_85 D25M
ISC_SQ_86 D25F
Controls
Readbacks
Chan 1-4 Outputs
Chan 5-8 Outputs
RJ-11 X1 Y1 X2 Y2 X3 Y3 X4 Y4 X5 Y5 X6 Y6 X7 Y7 X8 Y8
+24VDC
Conec-3
Picomotor Controller 11
DCC: D1100323
Rack: SQZT0-R1 Slot: U1
D25F
D25F
2ft ISC_SQ_392 D25M 1 2 D9F ft ISC_SQ_394
D9F ft ISC_SQ_395
D1101691 U22 SQZT0-Right
2ft ISC_SQ_393 D25M 1 2 D9F ft ISC_SQ_396
D9F 8" ISC_SQ_397
D1101691 U20 SQZT0-Right
48ft ISC_SQ_398 D9F A D9M
D1700168 U18 SQZT0-Right
D9F B D9M
D1700168 U18 SQZT0-Right
D9M
1X 1Y 2X 2Y
Picomotor Four Axes Breakout
DCC: D1101738
Rack: SQZT0
Slot: Cable Tray
RJ-11 0" ISC_SQ_238
RJ-11 0" ISC_SQ_239
RJ-11 0" ISC_SQ_241
RJ-11 0" ISC_SQ_242
DCC: Newport Picomotor
Rack: SQZT0 Slot: SHG FIBR polarization 1
DCC: Newport Picomotor
Rack: SQZT0 Slot: SHG FIBR polarization 2
DCC: Newport Picomotor
Rack: SQZT0 Slot: CLF FIBR polarization 1
DCC: Newport Picomotor
Rack: SQZT0 Slot: CLF FIBR polarization 2
RJ-11 0" ISC_SQ_466
RJ-11 0" ISC_SQ_467
RJ-11 0" ISC_SQ_400
RJ-11 0" ISC_SQ_243
DCC: Newport Picomotor
Rack: SQZT0 Slot: FC FIBR polarization 2
DCC: Newport Picomotor
Rack: SQZT0 Slot: Seed IR power
DCC: Newport Picomotor
Rack: SQZT0 Slot: CLF IR power
RJ-11 0" ISC_SQ_411
RJ-11 0" ISC_SQ_412
RJ-11 0" ISC_SQ_413
RJ-11 0" ISC_SQ_414
RJ-11 Pico X Pico Y Picomotor tip-tilt
DCC: Newport Picomotor
Rack: SQZT0 Slot: SHG Steering 1
DCC: Newport Picomotor
Rack: SQZT0 Slot: SHG Steering 2
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Size B
Number D1900511
Revision V6
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Sheet 37 of 38
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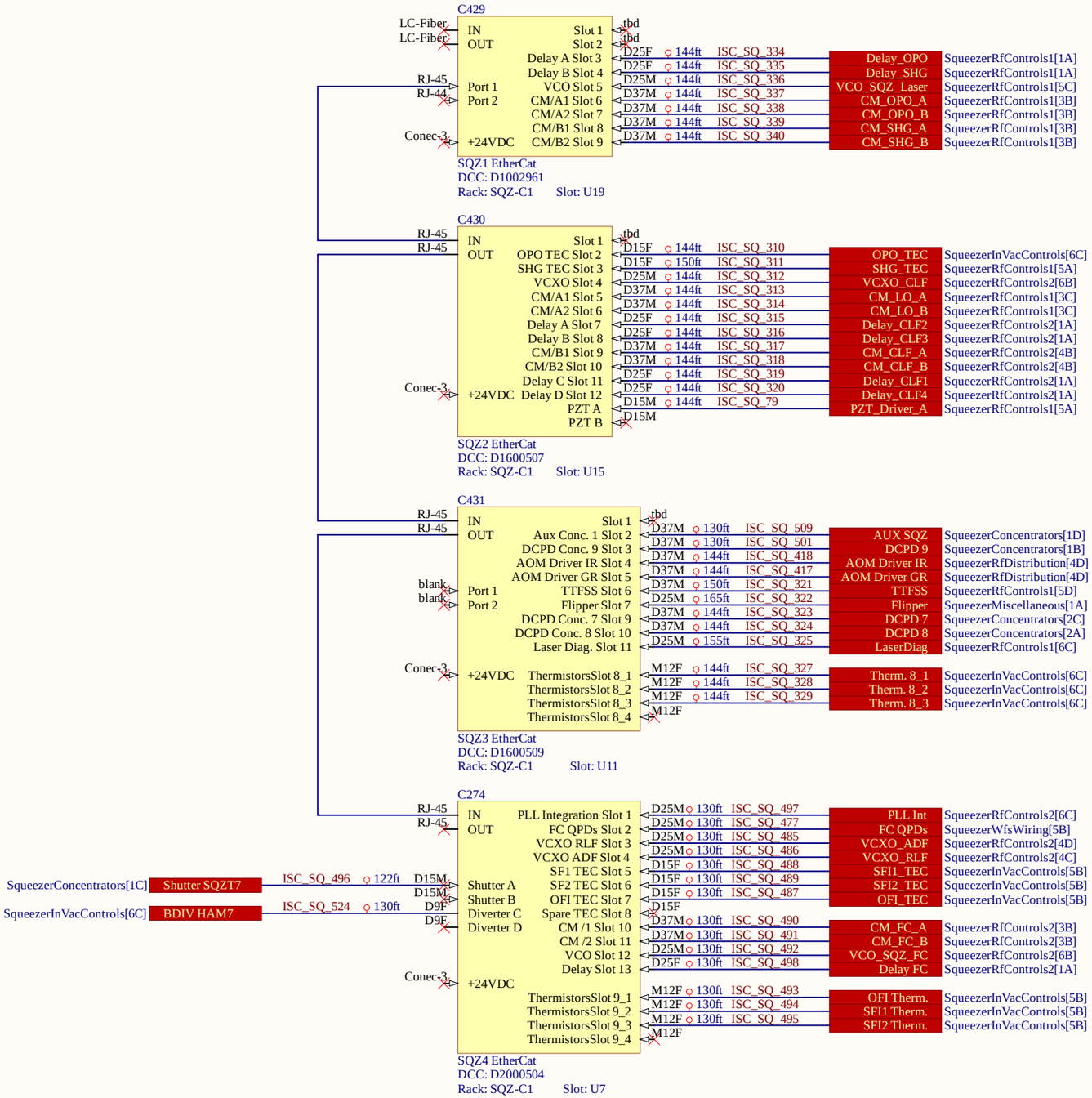
Drawn By: R. Abbott



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Size: B	Number: D1900511	Revision: V6
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