



UTAH FESTIVAL
OPERA & MUSICAL THEATRE
MICHAEL BALLAM • FOUNDING GENERAL DIRECTOR

Summer 2018

Producing Organization
Utah Festival Opera & Musical Theatre

Venue
Ellen Eccles Theatre

Founding General Director
Michael Ballam

Sound Designer
CJ Whitaker

Associate Designer
N/A

Assistant Designer
Patrick Mathis

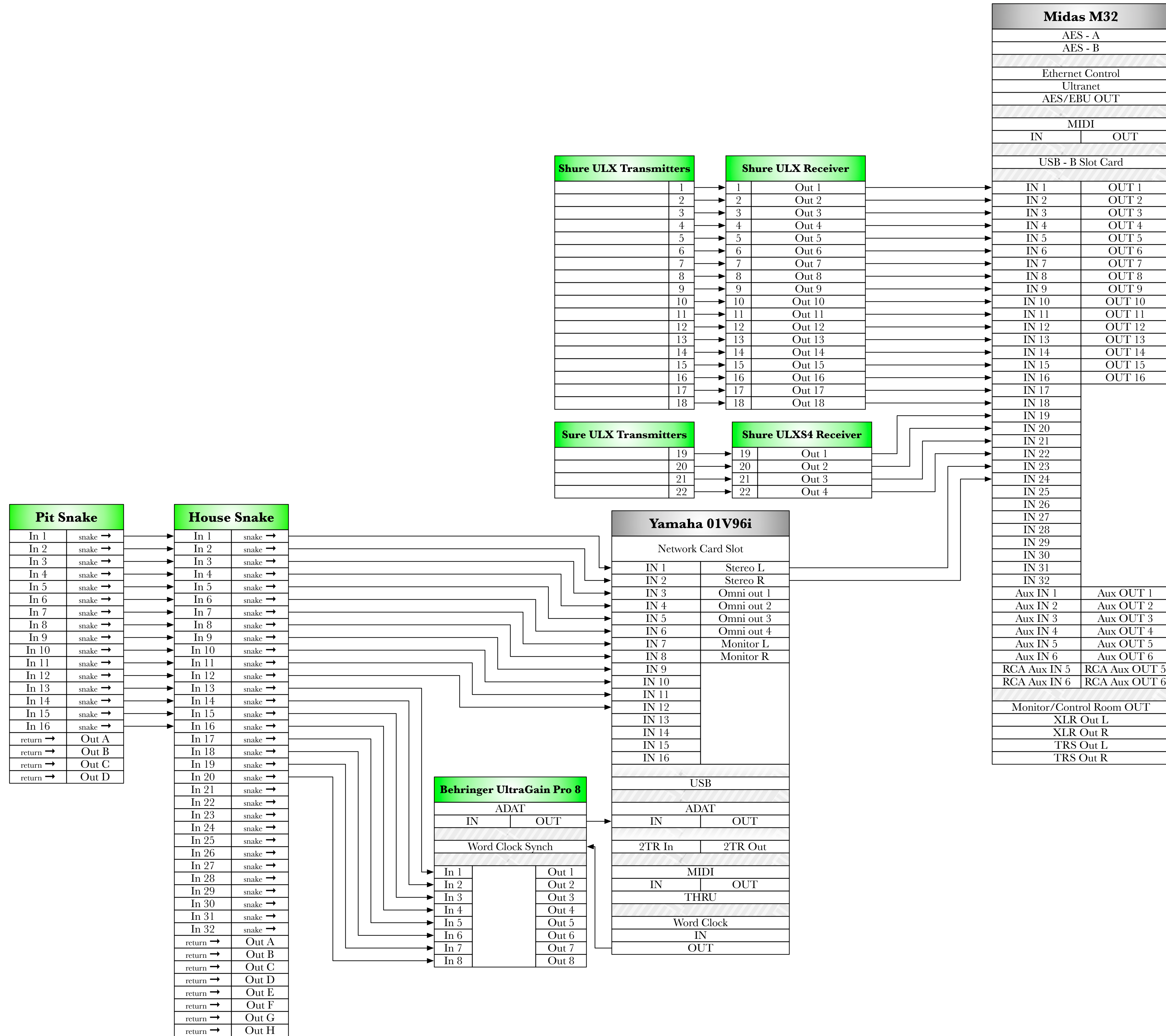
PSE
Edward Mineishi

Draftsperson
Edward Mineishi

Signal Flow Console Inputs Version
2

Date Modified Plate
Fri Aug 03 2018 1 of 5

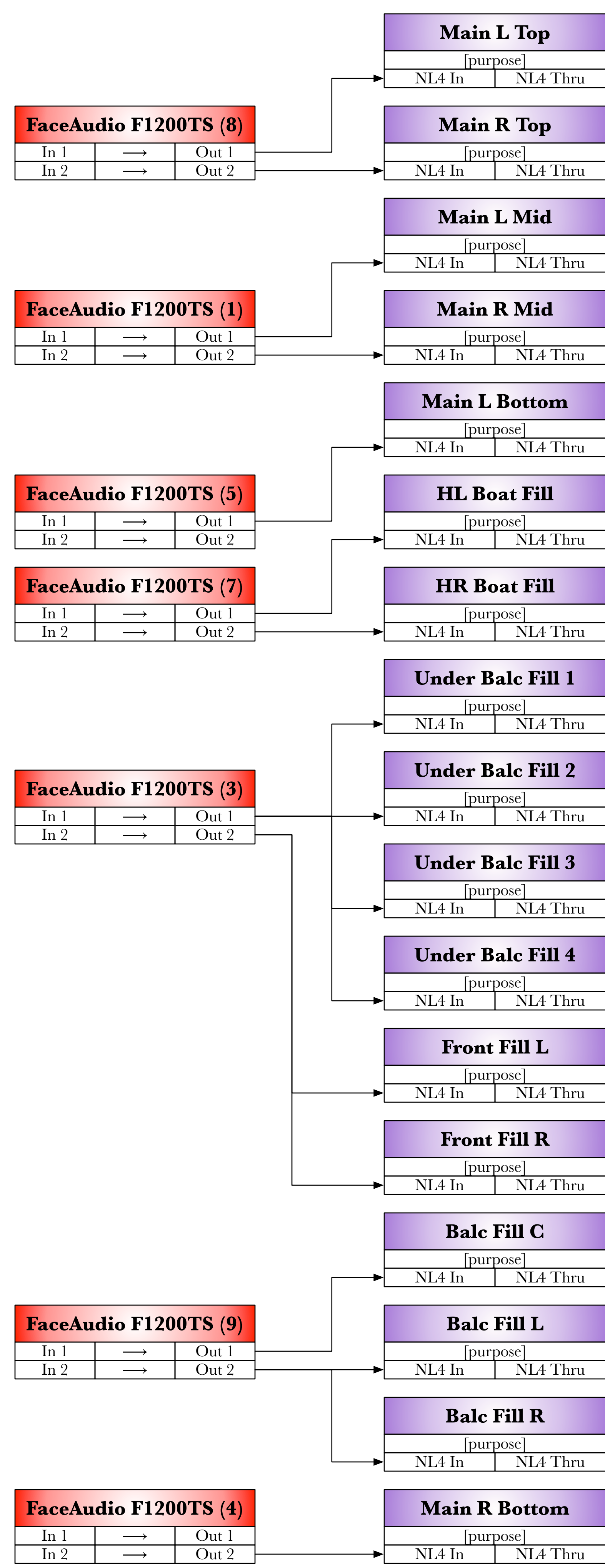
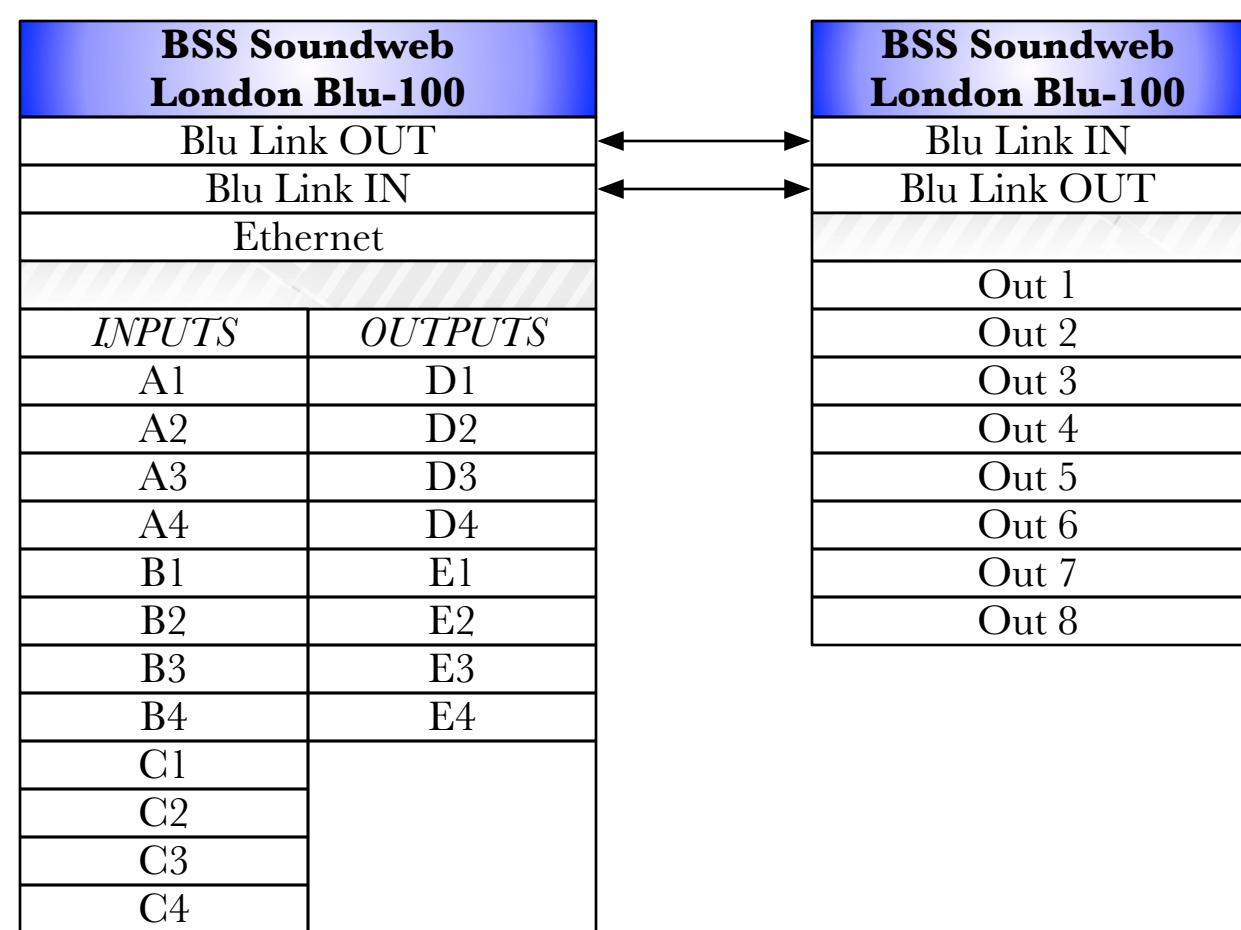
NOTES



Midas M32	
AES - A	
AES - B	
Ethernet Control	
Ultranet	
AES/EBU OUT	
MIDI	
IN	OUT
USB - B Slot Card	
IN 1	OUT 1
IN 2	OUT 2
IN 3	OUT 3
IN 4	OUT 4
IN 5	OUT 5
IN 6	OUT 6
IN 7	OUT 7
IN 8	OUT 8
IN 9	OUT 9
IN 10	OUT 10
IN 11	OUT 11
IN 12	OUT 12
IN 13	OUT 13
IN 14	OUT 14
IN 15	OUT 15
IN 16	OUT 16
IN 17	
IN 18	
IN 19	
IN 20	
IN 21	
IN 22	
IN 23	
IN 24	
IN 25	
IN 26	
IN 27	
IN 28	
IN 29	
IN 30	
IN 31	
IN 32	
Aux IN 1	Aux OUT 1
Aux IN 2	Aux OUT 2
Aux IN 3	Aux OUT 3
Aux IN 4	Aux OUT 4
Aux IN 5	Aux OUT 5
Aux IN 6	Aux OUT 6
RCA Aux IN 5	RCA Aux OUT 5
RCA Aux IN 6	RCA Aux OUT 6
Monitor/Control Room OUT	
XLR Out L	
XLR Out R	
TRS Out L	
TRS Out R	

Behringer S16	
AES50 - A	
AES50 - B	
Ultranet	
ADAT Out 1-8	
ADAT Out 9-16	
USB	
MIDI	
IN	OUT
In 1	Out 1
In 2	
In 3	Out 2
In 4	
In 5	Out 3
In 6	
In 7	Out 4
In 8	
In 9	Out 5
In 10	
In 11	Out 6
In 12	
In 13	Out 7
In 14	
In 15	Out 8
In 16	

House Snake	
In 1	snake →
In 2	snake →
In 3	snake →
In 4	snake →
In 5	snake →
In 6	snake →
In 7	snake →
In 8	snake →
In 9	snake →
In 10	snake →
In 11	snake →
In 12	snake →
In 13	snake →
In 14	snake →
In 15	snake →
In 16	snake →
In 17	snake →
In 18	snake →
In 19	snake →
In 20	snake →
In 21	snake →
In 22	snake →
In 23	snake →
In 24	snake →
In 25	snake →
In 26	snake →
In 27	snake →
In 28	snake →
In 29	snake →
In 30	snake →
In 31	snake →
In 32	snake →
return →	Out A
return →	Out B
return →	Out C
return →	Out D
return →	Out E
return →	Out F
return →	Out G
return →	Out H



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Signal Flow Console Outputs Version 2

Date Modified Fri Aug 03 2018 Plate 2 of 5

NOTES
-Outputs are not routed beyond House Snake due to unknown venue routing

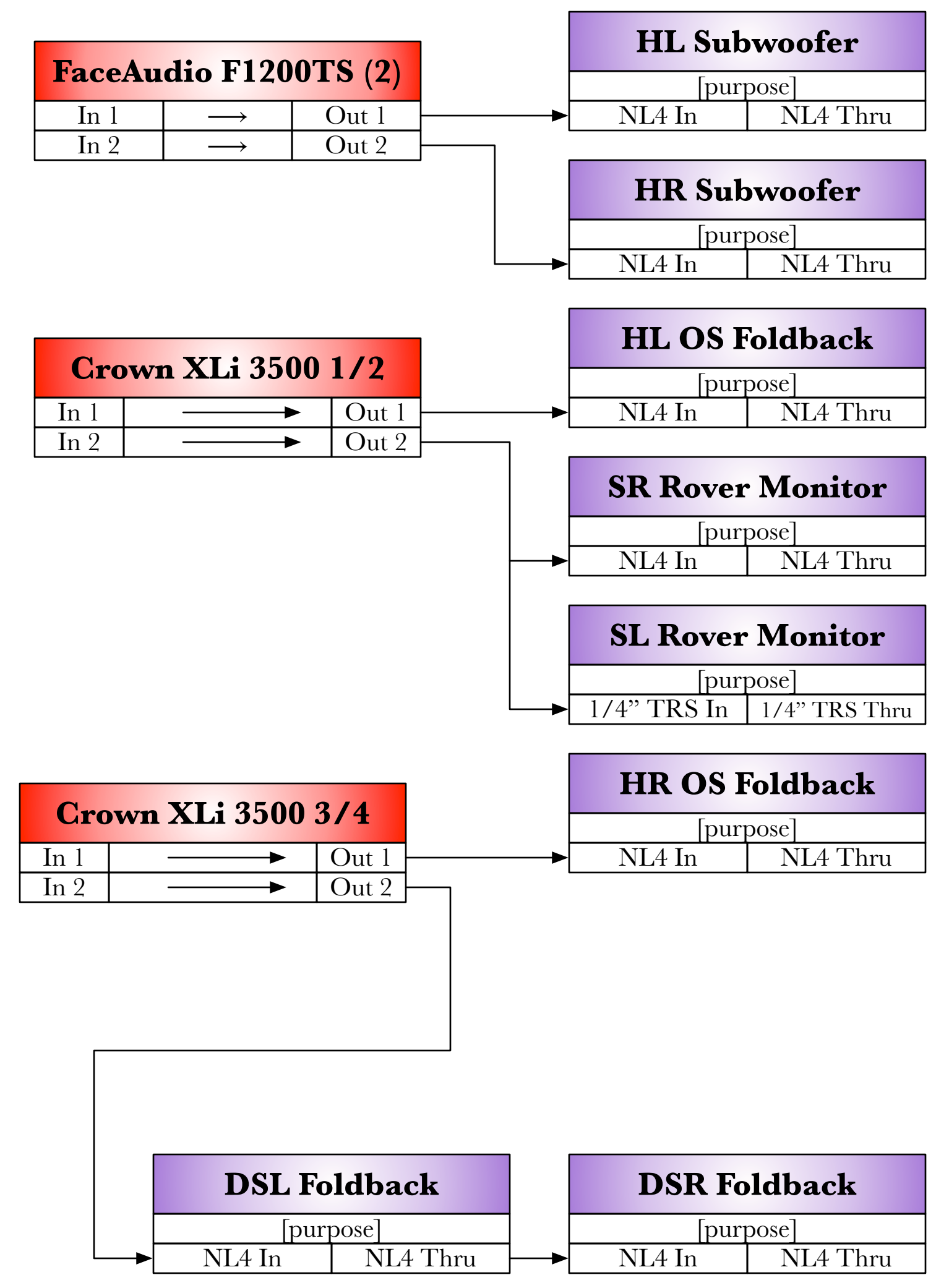
Midas M32	
AES - A	
AES - B	
Ethernet Control	
Ultranet	
AES/EBU OUT	
MIDI	
IN	OUT
USB - B Slot Card	
IN 1	OUT 1
IN 2	OUT 2
IN 3	OUT 3
IN 4	OUT 4
IN 5	OUT 5
IN 6	OUT 6
IN 7	OUT 7
IN 8	OUT 8
IN 9	OUT 9
IN 10	OUT 10
IN 11	OUT 11
IN 12	OUT 12
IN 13	OUT 13
IN 14	OUT 14
IN 15	OUT 15
IN 16	OUT 16
IN 17	
IN 18	
IN 19	
IN 20	
IN 21	
IN 22	
IN 23	
IN 24	
IN 25	
IN 26	
IN 27	
IN 28	
IN 29	
IN 30	
IN 31	
IN 32	
Aux IN 1	Aux OUT 1
Aux IN 2	Aux OUT 2
Aux IN 3	Aux OUT 3
Aux IN 4	Aux OUT 4
Aux IN 5	Aux OUT 5
Aux IN 6	Aux OUT 6
RCA Aux IN 5	RCA Aux OUT 5
RCA Aux IN 6	RCA Aux OUT 6
Monitor/Control Room OUT	
XLR Out L	
XLR Out R	
TRS Out L	
TRS Out R	

Behringer S16	
AES50 - A	
AES50 - B	
Ultranet	
ADAT Out 1-8	
ADAT Out 9-16	
USB	
MIDI	
IN	OUT
In 1	Out 1
In 2	
In 3	Out 2
In 4	
In 5	Out 3
In 6	
In 7	Out 4
In 8	
In 9	Out 5
In 10	
In 11	Out 6
In 12	
In 13	Out 7
In 14	
In 15	Out 8
In 16	

House Snake	
In 1	snake →
In 2	snake →
In 3	snake →
In 4	snake →
In 5	snake →
In 6	snake →
In 7	snake →
In 8	snake →
In 9	snake →
In 10	snake →
In 11	snake →
In 12	snake →
In 13	snake →
In 14	snake →
In 15	snake →
In 16	snake →
In 17	snake →
In 18	snake →
In 19	snake →
In 20	snake →
In 21	snake →
In 22	snake →
In 23	snake →
In 24	snake →
In 25	snake →
In 26	snake →
In 27	snake →
In 28	snake →
In 29	snake →
In 30	snake →
In 31	snake →
In 32	snake →
return →	Out A
return →	Out B
return →	Out C
return →	Out D
return →	Out E
return →	Out F
return →	Out G
return →	Out H

BSS Soundweb London Blu-100	
Blu Link OUT	
Blu Link IN	
Ethernet	
INPUTS	OUTPUTS
A1	D1
A2	D2
A3	D3
A4	D4
B1	E1
B2	E2
B3	E3
B4	E4
C1	
C2	
C3	
C4	

BSS Soundweb London Blu-BOB	
Blu Link IN	
Blu Link OUT	
Ethernet	
Out 1	
Out 2	
Out 3	
Out 4	
Out 5	
Out 6	
Out 7	
Out 8	



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Signal Flow Console Outputs 2 Version 2

Date Modified Plate
Fri Aug 03 2018 3 of 5

NOTES
-Outputs are not routed beyond House Snake due to unknown venue routing

Behringer S16		
AES50 - A		
AES50 - B		
Ultranet		
ADAT Out 1-8		
ADAT Out 9-16		
USB		
MIDI		
IN		OUT
In 1		Out 1
In 2		
In 3		Out 2
In 4		
In 5		Out 3
In 6		
In 7		Out 4
In 8		
In 9		Out 5
In 10		
In 11		Out 6
In 12		
In 13		Out 7
In 14		
In 15		Out 8
In 16		

Designer's MacBook	
Ethernet	
USB	
Thunderbolt 1	
Thunderbolt 2	

QLab Mac Mini	
Ethernet	
USB	
Thunderbolt 1	
Thunderbolt 2	

Recording Mac Mini	
Ethernet	
USB	
Thunderbolt 1	
Thunderbolt 2	

Router	
Internet IN	
Port 1	
Port 2	
Port 3	
Port 4	

Cisco Network Switch	
Port 1	
Port 2	
Port 3	
Port 4	
Port 5	
Port 6	
Port 7	
Port 8	

Midas M32			
AES - A		AES - B	
Ethernet Control			
Ultranet			
AES/EBU OUT			
MIDI			
IN		OUT	
DANTE Primary			
DANTE Secondary			
IN 1		OUT 1	
IN 2		OUT 2	
IN 3		OUT 3	
IN 4		OUT 4	
IN 5		OUT 5	
IN 6		OUT 6	
IN 7		OUT 7	
IN 8		OUT 8	
IN 9		OUT 9	
IN 10		OUT 10	
IN 11		OUT 11	
IN 12		OUT 12	
IN 13		OUT 13	
IN 14		OUT 14	
IN 15		OUT 15	
IN 16		OUT 16	
IN 17			
IN 18			
IN 19			
IN 20			
IN 21			
IN 22			
IN 23			
IN 24			
IN 25			
IN 26			
IN 27			
IN 28			
IN 29			
IN 30			
IN 31			
IN 32			
Aux IN 1		Aux OUT 1	
Aux IN 2		Aux OUT 2	
Aux IN 3		Aux OUT 3	
Aux IN 4		Aux OUT 4	
Aux IN 5		Aux OUT 5	
Aux IN 6		Aux OUT 6	
RCA Aux IN 5		RCA Aux OUT 5	
RCA Aux IN 6		RCA Aux OUT 6	
Monitor/Control Room OUT			
		XLR Out L	
		XLR Out R	
		TRS Out L	
		TRS Out R	

Yamaha 01V96i	
Network Card Slot	
IN 1	Stereo L
IN 2	Stereo R
IN 3	Omni out 1
IN 4	Omni out 2
IN 5	Omni out 3
IN 6	Omni out 4
IN 7	Monitor L
IN 8	Monitor R
IN 9	
IN 10	
IN 11	
IN 12	
IN 13	
IN 14	
IN 15	
IN 16	
USB	
ADAT	
IN	OUT
2TR In	2TR Out
MIDI	
IN	OUT
THRU	
Word Clock	
IN	OUT

Behringer UltraGain Pro 8		
ADAT IN		ADAT OUT
Word Clock Synch		
In 1		Out 1
In 2		Out 2
In 3		Out 3
In 4		Out 4
In 5		Out 5
In 6		Out 6
In 7		Out 7
In 8		Out 8



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Signal Flow Network Devices Version 2
Date Modified Fri Aug 03 2018 Plate 4 of 5

NOTES

SL Amp Rack

Wireless Intercom

The Cove



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Signal Flow Intercom	Version 2
	Date Modified Fri Aug 03 2018
Plate 5 of 5	

NOTES

Ch. A = Management/Sound
Ch. B = Lighting
Ch. C = N/A
Ch. D = Dressing Rooms

Unless otherwise noted, assume 3-pin XLR cables are used

Tech Table intercoms are only used from technical rehearsals to end of dress rehearsals

Telex RTS Receiver	
BTR-240	Receiver
Programing Port	
Speaker Out	
Ch. A 2wire in	2wire out
Ch. A 4-wire Port	
Ch. B 2wire in	2wire out
Ch. B 4-wire Port	
Aux in	Aux out

Telex RTS Transmitter #1	
ASM 1	TR-240
Lightweight	Ch. A/B

Telex RTS Transmitter #2	
ASM 2	TR-240
Lightweight	Ch. A/B

Telex RTS Transmitter #3	
TD	TR-240
Lightweight	Ch. A/B

Telex RTS Transmitter #4	
Deck Elec 1	TR-240
Lightweight	Ch. A/B

Telex RTS Transmitter #5	
Deck Elec 2	TR-240
Lightweight	Ch. A/B

Telex RTS Transmitter #6	
A2	TR-240
Single Muff	Ch. A/B

ClearCom Main-Station			
CC RM-400A	SM Station		
Program IN			
Announce OUT			
Ch. A in	Term. on	Ch. A out	
Ch. B in	Term. on	Ch. B out	
Ch. C in	Term. on	Ch. C out	
Ch. D in	Term. on	Ch. D out	

Infrastructure	
A in	
B in	
C in	
D in	

Infrastructure	
A out	
B out	
C out	
D out	

1-Ch. ClearCom Pack	
Spot Op 1	CC RS 501
Single Muff	Ch. B
Intercom in	Intercom thru

1-Ch. ClearCom Pack	
Spot Op 2	CC RS 501
Single Muff	Ch. B
Intercom in	Intercom thru

1-Ch. ClearCom Pack	
Spot Op 3	CC RS 501
Single Muff	Ch. B
Intercom in	Intercom thru

1-Ch. ClearCom Pack	
Spot Op 4	CC RS 501
Single Muff	Ch. B
Intercom in	Intercom thru

Tech Tables, Orchestra Level

Infrastructure	
A out	
B out	
C out	
D out	

ClearCom Remote-Station	
CC RM-400A	SM Tech
Program IN	
Announce OUT	
Ch. A in	Ch. A out
Ch. B in	Ch. B out
Ch. C in	Ch. C out
Ch. D in	Ch. D out

1-Ch. ClearCom Pack	
SD	CC RS 501
Handset	Ch. A
Intercom in	Intercom thru

1-Ch. ClearCom Pack	
Associate LD	CC RS 501
Lightweight	Ch. B
Intercom in	Intercom thru

1-Ch. ClearCom Pack	
LD	CC RS 701
Lightweight	Ch. B
Intercom in	Intercom thru

1-Ch. ClearCom Pack	
LBO	CC RS 501
Lightweight	Ch. B
Intercom in	Intercom thru

1-Ch. ClearCom Pack	
ALD	CC RS 501
Lightweight	Ch. B
Intercom in	Intercom thru

Fishbowl

FOH Mix Position

Infrastructure	
A out	
B out	
C out	
D out	

1-Ch. ClearCom Pack	
A1	CC RS 501
Lightweight	Ch. A
Intercom in	Intercom thru

1-Ch. ClearCom Pack	
QLab Op	CC RS 501
Lightweight	Ch. A
Intercom in	Intercom thru