

THE BRISTOL HIPPODROME

Technical Information for Visiting Companies

Last updated April 2011

Postal address: The Bristol Hippodrome
 St Augustine's Parade
 Bristol
 BS1 4UZ

Stage door postcode (NOT for deliveries): BS1 5DH

Technical Contacts:

Stage Door: 0117 927 3077

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The theatre plans are available in CAD format on the Modelbox website at
www.modelboxplans.com

Password to access ATG area of the site is **peacock**

Password to access Bristol Hippodrome area within this is **operaglasses**

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Other information available on request from the Technical Manager

- Ground stage plan – printed A0 version
- Hippodrome building plans (4 levels) for auditorium and FoH areas
- Stage floor load ratings diagram
- Grid and roof beams plans and load ratings
- Pros arch booms plan and load ratings
- Orchestra pit dimensioned schematic
- Excel version of Hippodrome standard fly plot

Code of Conduct

The Hippodrome operates under the BECTU/TMA Code of Conduct for get-ins, fit-ups and get-outs. The Stage Manager will ask your representative to go through the code of conduct forms and our visiting company paperwork prior to the fit-up commencing, and again at the end of the get-out. Working hours must be limited to a maximum of 16 hours in any 24, with 11 hour breaks planned between working 'days'. We ask that you plan your schedules to reflect this, and will work with you to adapt schedules and calls if necessary to allow compliance with the code for our staff and yours.

PPE

Steel toe capped boots must be worn by all personnel on stage during get-ins and get-outs. At the discretion of the Stage or Technical Manager this requirement may be extended to fit-ups and show running. High visibility vests must be worn when working on public roads after dusk. Hard hats must be worn on stage during get-ins, fit-ups and get-outs while any overhead work or flying is taking place. Visiting companies are expected to provide their own PPE.

Working at Height

The Hippodrome has a selection of ladders available for use, and medium and large Tallescope models. Please note that in line with ATG guidelines, we are not able to move or allow the movement of Tallescopes with anyone occupying the basket. They must be used with outriggers where possible, and with 2 people at the base at all times (4 people on a raked show stage). All access equipment must be used in line with the venue risk assessments and safe working practises (see Safety pack). Any of your crew who are working at height must have suitable training. Unnecessary working at height must be avoided. Fall arrest equipment must be used as a back-up for any work positioning or rope access tasks, and there must be rescue plans and equipment in place for any activity using fall arrest whether as the sole or back-up method of fall prevention. We will stop you from carrying out work at height activities which do not comply with the above.

When the trapdoors in the grid floor are open, crew around the trapdoors **MUST** wear a harness and work restraint lanyard, adjusted to prevent falls through the traps.

Special effects

Please advise before your arrival if you intend to use any special effects, including but not limited to: dry ice, strobe lighting, lasers, pyrotechnics, replica and blank-firing weapons. You must have risk assessments for the use of any of these, which we may ask for copies of. If you cannot produce a risk assessment for their use then we will not be able to allow their

inclusion in your production. We have generic risk assessments for some of these effects which MAY be suitable for adaption to your production. Any pyrotechnic material including blank cartridges for weapons must be handed to our chief electrician on arrival, who will organise their storage in a lockable cupboard. Weapons must be kept locked away and only handled by your armourer.

If you use smoke or haze effects as part of your show please inform stage door on your arrival and before every use, so that they can organise the isolation of relevant smoke alarm sensors.

Please note that smoking on stage is only permitted as part of a performance and not rehearsals (with the exception of a dress rehearsal). This is a legal requirement and not a house rule. Please inform us if your production involves the smoking of real cigarettes on stage.

Pre-rig

Due to our very busy programme and Sunday concerts, it is not always possible to pre-rig. Should a pre-rig of lighting and / or masking be desired, then please contact the Stage Manager or Chief Electrician as early as possible. Please note that additional charges apply for pre-rigs and this will be recharged on the settlement.

Parking

The Bristol Hippodrome has no free parking available. On-street parking must be used for all loading and unloading. The Hippodrome will organise the suspension of parking bays with Bristol City Council on your behalf, according to requirements on your rider or as communicated to the Stage Manager. It is possible dependant on bay suspensions to load / unload 2 trucks simultaneously. The cost of suspending parking bays will be recharged on your settlement. Please note bays can only be suspended from 8am and not on Sundays, when free parking applies.

Please inform your drivers that under no circumstances may they park any vehicle larger than 3.5 tonnes in the on-street bays opposite our dock doors on Denmark St. We cannot reserve these bays, and Bristol City Council will impose fines on vehicle owners who park in these bays. Should vehicles be parked in the bays we have reserved for your production, please contact stage door, or if it is not open then please call Bristol City Council Parking Service Team on 0117 903 8070.

Postcode to direct GPS devices to our stage door and dock access on Denmark St is BS1 5DH. Please note that this is NOT the theatre's postcode for postal deliveries, which is BS1 4UZ, at the theatre's front entrance on St Augustine's Parade.

Get-in and out

Please see General Information pack for details of crew recharges, minimum calls, house agreements etc, or for more information contact the Technical Manager. For safety reasons it is not possible for you to carry on working on stage during staff meal breaks, although it is usually possible to stagger breaks so this does not affect you.

Set construction

Your set should be constructed to an acceptable standard, as determined by our Stage Manager. We will refuse the use of any set which we deem to be in any way unsafe. All scenic elements must be of fire retardant construction, which we may test before allowing their use. Scenery should be transported in manageable units and must have their weight marked. Please note minimum dimensions of our get-in doors and roller shutter. Dollys are available to aid in moving heavy items.

Safety Curtain

The safety curtain must be lowered and raised at or before the interval in the presence of the public. This is a requirement of our premises license, and a waiver cannot be obtained. No scenery or apparatus of whatsoever kind may impede or obstruct the descent of the safety curtain. Cables may pass under the safety curtain, which has a soft bottom, but care must be taken to ensure there are no connectors in cables below the plane of descent of the iron.

Masking

The Hippodrome owns a selection of mainly black serge masking, which may be used free of charge by visiting productions. There is a minimum available of 1 full black, 5 stage width borders and 5 pairs of legs in varying widths – i.e. enough to create a black box to your desired width and depth on stage. Should you anticipate requiring more than this then please discuss before arrival with our Stage Manager, who will advise whether we can fulfil your requirements in house.

Staging

The Hippodrome can supply up to 9 wooden black gate-leg band risers, which are 6' x 3' x 18" high. If you require other decking or staging equipment this can be sub-hired in for you. We have a selection of tables and chairs available for use on stage. There are also 12 illuminated 'RAT' music stands, plus one double width conductor's stand, which may be used for a small hire charge.

Run-down treads

Treads from the stage to auditorium can be installed stage left and right, and/or centre stage. Handrails are available for all treads. Please let the Stage Manager know if you require the use of the run-downs. If your production involves bringing audience members onto stage, handrails must be used. An audience participation form (see General Information pack) will need to be completed in conjunction with the Stage or Technical Manager and the Front of House Manager.

Orchestra pit

Our orchestra pit measures 35'3" wide by 16'6" deep by 7'7" minimum headroom under the stage. The floor level at the front is 1550mm below row A, and 2687mm below the stage level. Please contact the Stage Manager for more detailed plans if required. The pit is usually raised with metrodeck sections to the auditorium row A level when not in use. If you are using the pit and require the level to be dropped before your arrival please arrange this with the Stage Manager, as a pre-rig charge may apply dependant on the pit position in the previous week. Note that it is often quicker to rig FoH sound / truss with the pit decking in place and then remove the decking than it is to start with the decking removed. If you would like us to supply a pit net, please contact the Stage Manager to discuss exact requirements as we have a selection of net sections in varying sizes which may be suitable for your needs.

If you have a very large orchestra (e.g. opera / ballet), and require removal of up to 6 rows of auditorium seating, this must be arranged at the time of your show being booked in, and confirmed with the Stage Manager as soon as possible. There are decking sections available to level off alternate rows of the auditorium after seats have been removed. Removal and reinstatement of auditorium seating, pit rail and decking requires an overnight call of 6 crew each time, for a minimum of 4 hours (dependant on how many rows of seating you need removed). This will be recharged on your show settlement. Note that of course when placing an orchestra on our auditorium stalls floor, the rake is such that the conductor is at the highest tier of the orchestra, closest to the audience.

Flying

Please see following information on bar distances and safe working loads etc. Please send through a flying plot including bar weights before your arrival – we can supply our template as an Excel document should you wish. Note that during a fit-up or get-out, the instructions of the Stage Manager and Flyman regarding the loading and unloading of bars must be followed at all times. Bars 1, 2 and 3 carry the red tabs header, the house tabs and the black hard header respectively. These form part of the fixed house rig – if you need them to be removed this will form part of your fit-up and get-out and allowance must be made for the necessary time and crew. They will not be moved without prior discussion and agreement

by the Stage Manager. The house rig also includes a number of IWBs and black box masking. These will not normally be removed before your arrival as it is faster and more cost effective for you to move them as required during your fit-up.

Load ratings

For detailed load ratings, or if you have specific loading queries, please contact the Technical Manager as soon as possible in advance of your visit. The following is for guidance only, and the Hippodrome reserves the right to consult its structural engineer at your cost if we are at all unsure about any aspect of your production loading requirements.

Stage floor: Static SWL 750kg/m². Maximum point load (50mm square): 450kg

Grid: The Hippodrome grid is divided into 5 bays by the main lattice roof trusses, running parallel to the proscenium – see attached fly plot. All load limits are per bay, and are for the sum of loads flown on the counterweight system and loads directly rigged to the roof steelwork.

Failsafe SWL per bay for loads rigged anywhere:	3.6 tonnes
Achievable SWL per bay for evenly distributed loads:	6 tonnes
Max point load on roof beams:	1 tonne

Counterweight bars: See attached counterweight fly plot and SWL documents.

FOH points: SWL 1 tonne per point.

Rigging

Please send rigging plans to our Technical Manager prior to your arrival. You must let us know as soon as possible if you wish to rig any points greater than 1 tonne over stage, or exceed the maximum grid loading per bay as shown above, as we will need to consult our structural engineer on your behalf to obtain approval. Without prior approval from our engineer, loads exceeding those given above may not be rigged. You should supply a rigger for any overstage rigging you wish to put in. Beam clamps must be used for much of the overstage rigging as the top flanges of many beams are inaccessible. Static overstage rigging must either be safetied off or include redundant suspension points (regardless of if the motors are 'double-braked'). Dynamic rigging must be the subject of a specific risk assessment, to be agreed with the Hippodrome.

All FoH rigging points have a SWL of 1 tonne – please see attached schematic for locations. We are happy to rig simple FoH trusses, line arrays etc on your behalf, but please note that

we do not own any rigging equipment or truss. Any rigging FoH must either be safetied off or include redundant suspension points (regardless of if the motors are 'double-braked').

All lifting equipment used in the venue is subject to LOLER. It must be fit for purpose and used in approved configurations. SWL must be clearly displayed. Current test certificates should be available for inspection by venue staff at their request.

If you have any questions or are in any doubt about your rigging requirements, please consult the Technical Manager.

Electrical Equipment

All electrical equipment that is brought into this venue MUST meet with current applicable safety Standards and have undergone portable appliance testing. This applies to both personal and professional equipment. The Chief Electrician may ask to see evidence of current PAT validity if he feels there is any doubt about any of your equipment, and will refuse the use of any equipment that does not conform. Alternatively we may be able to carry out testing on your behalf, which would be recharged on the settlement at £5 per item.

Lighting

Please see following lantern stock list and dimmer allocations. The Hippodrome has DMX and ethernet tielines around the stage and FoH, which come back to a patch in the substage dimmer room. DMX control of our dimmers may be patched to the location of your choice. Lighting control can either be from the control room at the back of the grand circle, or can share the sound mixer position at the rear of the stalls.

The Hippodrome has a Strand 520 in-house, and can supply an operator for this if required for your show. We do not have an in-house programmer, but will happily set up simple show states on sub-masters for Sunday concerts etc. We can provide basic 3 or 4 colour general wash for your show if required. Please note that we do not have any intelligent lighting equipment, smoke or haze machines, strobe lights etc available.

The venue standard rig as attached has some flexibility – please contact the Chief Electrician with a lighting plan to discuss your requirements. We expect companies to supply their own colour; however there is a limited stock of common colours available to facilitate basic colour washes.

There is a small stock of in-house multicore (socapex) and 15A TRS cable available, along with spiders, adaptors etc. Please check with the Chief Electrician if you wish to use any in-house cabling except for use with the in-house rig, to ensure that there is enough available

to meet your requirements. There is also a limited stock of lantern accessories such as irises, gobos and gobo holders and the like – again please contact the Chief Electrician should you have any specific requirements with which we may be able to help.

House lights

House lights are controlled either from DSR, or the LX control room at the back of the grand circle. Control is by a slider or 5 preset level buttons. There is no DMX control. If required, our duty electrician will operate the houselights on your behalf.

Follow spots

There are 2 2kW Lycian followspots with 6 colour magazines available in-house. Please let our Chief Electrician know if you plan to use these and how many operators you require us to provide. The spot box is located at the rear centre of the upper circle, and has room and power supplies for up to 4 spots. Please note that where possible we prefer to use our spots where possible as there are 86 steps from street level to the spot box up which to carry any touring equipment!

Working lights

Stage left and right wings are each illuminated by a row of dimmable GDS LED blue working lights. Sockets are available at stage level and on fly floors for the addition of extra show working lights. 1x 500W Coda floodlight upstage and 2x 19° Source 4 profiles on the fly floor are available as extra working light.

Sound

The Hippodrome has NO in-house sound equipment. If you are not touring a rig and require the use of one, we do have relationships with local companies who know the building and can put a system in. The cost of doing this will be recharged on your settlement.

There is a fixed, level, mixer position at the rear of the stalls. This takes the place of 2 rows of 7 seats (rows Za and Zb house left of the centre aisle), giving an area 3700mm wide by 1600 deep. If you require, the 7 seats of row Z in front may also be taken off sale and removed, increasing the depth to 2400mm. If you do not ask for this increased size mixer position at least 4 weeks prior to your show opening, it may not be available. Please let us know as soon as possible if you are not using the mixer position at all and want these seats on sale, or if you need more seat holds for extra mixing equipment, speakers etc.

Multicore run to FoH is approx 55m from stage right, or 60m from stage left. We have hooks around the sides and rear of the auditorium to hold the multicore at high level. There is a 20

way XLR patch from DSR to the rear stalls mixing position. There are rigging positions for delay speakers at stalls and grand circle level. Other rigging positions including side boxes, upper circle delays, slips and some surround speakers are available, after prior consultation with our Chief Electrician.

The Hippodrome does not have any site licensing for radio microphone frequencies. It is the responsibility of visiting productions to organise their own licensing for their equipment. The Hippodrome does have a site license for its in-house VHF Motorola radios, used during performances by FoH staff. This covers frequencies in the 166.7625MHz and 171.5625MHz bands.

Show relay

Audio show relay is available to crew rooms, stage door, band rooms and dressing rooms, along with backstage calls. We ask that if possible you provide a feed from your sound system, either DSR or at the mixer position, to supplement the microphone feed for backstage show relay and induction loop / infra-red hearing system in the auditorium.

There is NO in-house video show relay system. Cameras, monitors etc may be sub-hired on your behalf, at your request.

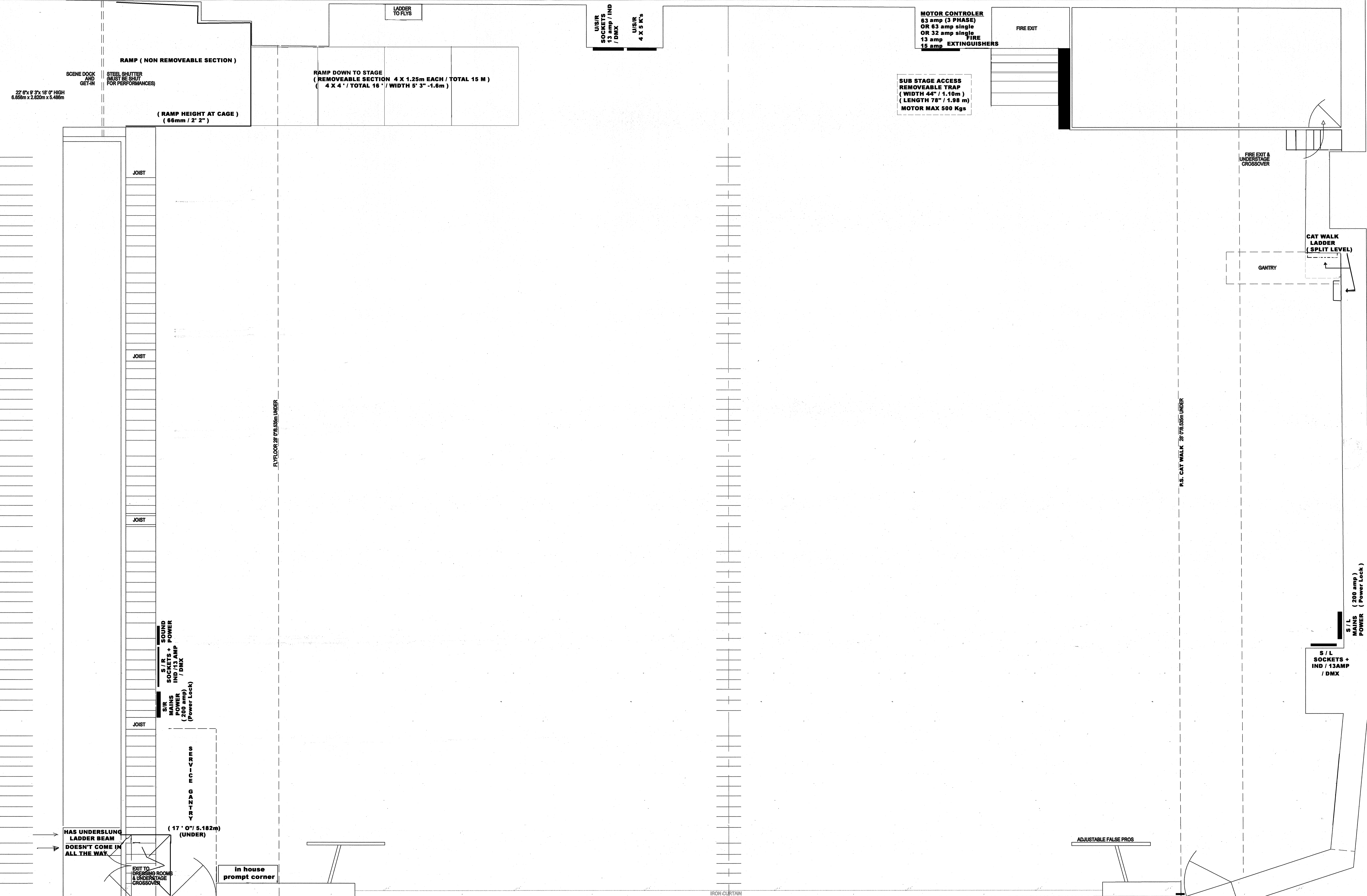
Intercom and cue lights

A single channel TecPro intercom system is installed, with master station DSR. Tie-lines are provided to rear stalls, rear circle control room, followspot box, fly floor and DSL. Beltpacks and headsets for all these positions are available. Extra beltpacks, headsets and temporary cabling may be available for your use – please consult with the Chief Electrician

There is NO in-house cue light system. A master station and cue lights may be sub-hired on your behalf, at your request.

Prompt desk

There is a small desk and chair in the stage right wing (i.e. bastard prompt). Backstage and FoH calls microphone and control are located here, with house light control, safety curtain controls, intercom master station and working light switches. The calls controls and microphone can be re-patched to prompt side if required.



MAX WEIGHT : 1100 Lbs / 500 Kgs	65
MAX WEIGHT : 650 Lbs / 295 Kgs	64
	GIRDER
MAX WEIGHT : 650 Lbs / 295 Kgs	63
MAX WEIGHT : 1100 Lbs / 500 Kgs	62
MAX WEIGHT : 650 Lbs / 295 Kgs	61
MAX WEIGHT : 1100 Lbs / 500 Kgs	60
MAX WEIGHT : 650 Lbs / 295 Kgs	59
MAX WEIGHT : 1100 Lbs / 500 Kgs	58
MAX WEIGHT : 650 Lbs / 295 Kgs	57
MAX WEIGHT : 650 Lbs / 295 Kgs	56
	TIE
MAX WEIGHT : 650 Lbs / 295 Kgs	55
MAX WEIGHT : 1100 Lbs / 500 Kgs	54
MAX WEIGHT : 650 Lbs / 295 Kgs	53
MAX WEIGHT : 1100 Lbs / 500 Kgs	52
MAX WEIGHT : 650 Lbs / 295 Kgs	51
MAX WEIGHT : 1100 Lbs / 500 Kgs	50
MAX WEIGHT : 1100 Lbs / 500 Kgs	49
MAX WEIGHT : 650 Lbs / 295 Kgs	48
	GIRDER
MAX WEIGHT : 650 Lbs / 295 Kgs	47
MAX WEIGHT : 1100 Lbs / 500 Kgs	46
MAX WEIGHT : 1100 Lbs / 500 Kgs	45
MAX WEIGHT : 650 Lbs / 295 Kgs	44
MAX WEIGHT : 1100 Lbs / 500 Kgs	43
MAX WEIGHT : 650 Lbs / 295 Kgs	42
MAX WEIGHT : 1100 Lbs / 500 Kgs	41
MAX WEIGHT : 650 Lbs / 295 Kgs	40
	TIE
MAX WEIGHT : 1100 Lbs / 500 Kgs	39
MAX WEIGHT : 650 Lbs / 295 Kgs	38
MAX WEIGHT : 1100 Lbs / 500 Kgs	37
MAX WEIGHT : 650 Lbs / 295 Kgs	36
MAX WEIGHT : 1100 Lbs / 500 Kgs	35
MAX WEIGHT : 650 Lbs / 295 Kgs	34
MAX WEIGHT : 650 Lbs / 295 Kgs	33
MAX WEIGHT : 1100 Lbs / 500 Kgs	32
	GIRDER
MAX WEIGHT : 1100 Lbs / 500 Kgs	31
MAX WEIGHT : 650 Lbs / 295 Kgs	30
MAX WEIGHT : 1100 Lbs / 500 Kgs	29
MAX WEIGHT : 650 Lbs / 295 Kgs	28
MAX WEIGHT : 1100 Lbs / 500 Kgs	27
MAX WEIGHT : 650 Lbs / 295 Kgs	26
MAX WEIGHT : 1100 Lbs / 500 Kgs	25
MAX WEIGHT : 650 Lbs / 295 Kgs	24
	TIE
MAX WEIGHT : 1100 Lbs / 500 Kgs	23
MAX WEIGHT : 650 Lbs / 295 Kgs	22
MAX WEIGHT : 1100 Lbs / 500 Kgs	21
MAX WEIGHT : 650 Lbs / 295 Kgs	20
MAX WEIGHT : 1100 Lbs / 500 Kgs	19
MAX WEIGHT : 650 Lbs / 295 Kgs	18
MAX WEIGHT : 1100 Lbs / 500 Kgs	17
MAX WEIGHT : 1100 Lbs / 500 Kgs	16
	GIRDER
MAX WEIGHT : 1100 Lbs / 500 Kgs	15
MAX WEIGHT : 650 Lbs / 295 Kgs	14
MAX WEIGHT : 650 Lbs / 295 Kgs	13
MAX WEIGHT : 1100 Lbs / 500 Kgs	12
MAX WEIGHT : 650 Lbs / 295 Kgs	11
MAX WEIGHT : 1100 Lbs / 500 Kgs	10
MAX WEIGHT : 650 Lbs / 295 Kgs	9
MAX WEIGHT : 1100 Lbs / 500 Kgs	8
MAX WEIGHT : 650 Lbs / 295 Kgs	7
MAX WEIGHT : 1100 Lbs / 500 Kgs	6
	TIE
MAX WEIGHT : 650 Lbs / 295 Kgs	5
MAX WEIGHT : 1100 Lbs / 500 Kgs	4
MAX WEIGHT : 1100 Lbs / 500 Kgs	3
MAX WEIGHT : 1100 Lbs / 500 Kgs	2
MAX WEIGHT : 1100 Lbs / 500 Kgs	1

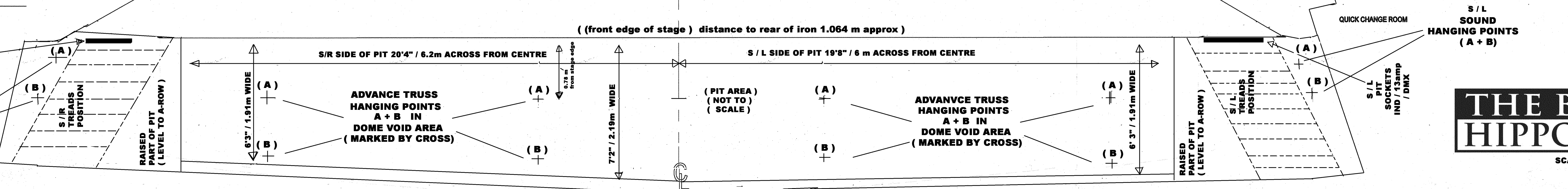
SAFE WORKING LOADS
 LARGE CRADLE MAX WEIGHT : 1100 Lbs / 500 Kgs
 SMALL CRADLE MAX WEIGHT : 650 Lbs / 295 Kgs

BAR 5 GRID HEIGHT WITH (45' 6" / 13.8 m - FULL DRIFT) LADDER BEAM (OR 52' / 15.85 m - HALF DRIFT)

ADVANCE TRUSS POINTS / SOUND POINTS
 SOUND POINTS -- 'A' 680 m FROM PROSC WALL
 'B' FURTHER OUT ??

TRUSS POINTS -- 'A' 1.2m FROM PROSC WALL
 'B' 2.52m FROM PROSC WALL
 DISTANCE BETWEEN EACH POINT ON ROW 'A' / 'B' (X <= => X) -- 3.1m APPROX
 (ALL POINTS MEASURE FROM WITHIN THE ROOF)
 (SO MAY BE CLOSER TO PLASTER WORK BELOW)

MINIMUM WIDTH OF STAGE 74' 4" 22.657m
 WIDTH BETWEEN FLY FLOORS 58' 3" 17.755m
 LENGTH OF BARS 52' 0" 15.850m
 ALL BARS FLY TO GRID



THE BRISTOL HIPPODROME

SCALE 1:25

THIS DRAWING IS BASED ON INFORMATION SUPPLIED. THEREFORE THE BRISTOL HIPPODROME EXCLUDES ALL LIABILITY FOR ANY ERROR IN THE DRAWING OR LOSS SUFFERED AS A RESULT OF INACCURACY.

Bristol Hippodrome – Stage Dimensions

Updated March 2011

Please note that the setting line used and marked on stage is on the upstage edge of the iron safety curtain.

Minimum stage width	22.66m	74'4"
Width between fly floors	17.75m	58'3"
Minimum bar length (4 pick-ups)	15.85m	52'
Inner grid pulley pick-ups (either side of centre)	2.13m	7'
Outer grid pulley pick-ups (either side of centre)	6.4m	21'
Proscenium maximum width	14.55m	47'9"
Proscenium usual width with tormenters (adjustable)	12.19m	40'
Proscenium maximum height	9.14m	30'
Stage floor to underside of grid	17.86m	58'7"
Stage floor to underside of fly floors SL & SR	8.53m	28'
Stage floor to SR fly floor pin rail	10.29m	33'9"
Stage floor to underside of DSR service gantry	5.18m	17'
Row A of stalls to stage floor	1.25m	4'1"
Setting line to front edge of stage	1.06m	3'6"
Setting line to back wall of stage	16.87m	55'4"
Setting line to last C/W set	14.82m	48'7"
Setting line to circle front rail	15.3m	50'2"
Setting line to back wall of auditorium stalls	29.87m	98'
Setting line to window of limes box at rear of upper circle	31.39m	103'
Auditorium width between 1 st boxes	14.99m	49'2"
Auditorium maximum width wall to wall	23.77m	78'
Auditorium height above proscenium from row A	13.79m	45'3"
Maximum auditorium height below dome	>24.4m	>80'
Minimum length of multicore to reach rear stalls position	55m	180'
Dock to street doors height	5.7m	18'8"
Dock to stage roller shutter height	4.95m	16'3"
Dock length between doors and shutter	6.86m	22'6"
Minimum dock width through doors / shutter	2.5m	8'2"
Trapdoor in stage floor to access substage / orchestra pit	1115 x 1980mm 44" x 78"	
Pit floor below row A	1.55m	5'1"
Pit floor below stage floor	2.8m	9'2"
Pit depth in front of stage edge	1.75m	5'9"
Pit width in front of stage edge	12.32m	40'5"
Minimum total pit depth	5.03m	16'6"
Pit width beneath stage	10.74m	35'3"
Minimum height of pit below underside of stage	2.31m	7'7"

THE BRISTOL HIPPODROME

Kiosk

Upper Circle

Ladies Toilet

Ladies Toilet

K	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	K
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	J	
H	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	H	
G	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	G	
F	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	F	
E	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	E		
D	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	D		
C	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	C		
B	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	B				
A	19	20	21	22	23	24	25	26	27	28	29	30	31	32	A					
	16	15	14	13																
	12	11	10	9	8	7														
	6	5	4	3	2	1														

K	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	K
J	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	J
H	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	H	
G	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	G		
F	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	F			
E	18	19	20	21	22	23	24	25	26	27	28	29	30	31	E				
D	17	18	19	20	21	22	23	24	25	26	27	28	29	30	D				
C	18	19	20	21	22	23	24	25	26	27	28	29	30	C					
B	18	19	20	21	22	23	24	25	26	27	28	29	30	B					
A	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	A			

K	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	K			
J	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	J			
H	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	H			
G	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	G			
F	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	F			
E	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	E			
D	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	D			
C	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	C			
B	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	B				
A	48	49	50	51	52	53	54	55	56	57	58	59	60	61	A					
											63	64	65	66						
											67	68	69	70	71	72				
											73	74	75	76	77	78				

To Kiosk and Ladies Toilet

Grand

Gents Toilet

Circle

Ladies Toilet

L	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	L
K	2	3	4	5	6	7	8	9	10	11	12	13	14	15	K	
J	2	3	4	5	6	7	8	9	10	11	12	13	14	15	J	
H	2	3	4	5	6	7	8	9	10	11	12	13	14	15	H	
G	2	3	4	5	6	7	8	9	10	11	12	13	14	15	G	
F	2	3	4	5	6	7	8	9	10	11	12	13	14	15	F	
E	2	3	4	5	6	7	8	9	10	11	12	13	14	15	E	
D	1	2	3	4	5	6	7	8	9	10	11	12	13	14	D	
C	2	3	4	5	6	7	8	9	10	11	12	13	14	15	C	
B	1	2	3	4	5	6	7	8	9	10	11	12	13	14	B	
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	A

L	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	L
K	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	K
J	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	J
H	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	H	
G	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	G		
F	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	F			
E	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	E				
D	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	D					
C	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	C						
B	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	B						
A	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	A						

L	37	38	39	40	41	42	43	44	45	46	47	48	L		
K	37	38	39	40	41	42	43	44	45	46	47	48	K		
J	35	36	37	38	39	40	41	42	43	44	45	46	47	48	J
H	36	37	38	39	40	41	42	43	44	45	46	47	48	H	
G	35	36	37	38	39	40	41	42	43	44	45	46	47	G	
F	34	35	36	37	38	39	40	41	42	43	44	45	46	F	
E	34	35	36	37	38	39	40	41	42	43	44	45	46	E	
D	32	33	34	35	36	37	38	39	40	41	42	43	44	D	
C	33	34	35	36	37	38	39	40	41	42	43	44	45	C	
B	31	32	33	34	35	36	37	38	39	40	41	42	43	44	B
A	31	32	33	34	35	36	37	38	39	40	41	42	43	44	A

Box O 1-2
Box N 1-4
Box M 1-3

To Bar and Ladies Toilet
Stairs down to Bar

Box U 1-2
Box T 1-4
Box S 1-3

Stalls

Kiosk

Ladies Toilet

Box A	1-4	Box	1-4	House Box C	1-4	Box	1-4	1	2	3	4	5	6										
								1	2	3	4	5	6	7									
								2	3	4	5	6	7	8									
W	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
T	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
R	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
Q	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
P	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
O	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
N	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
L	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
K	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
J	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
H	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
G	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
F	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
E	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
D	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
C	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
B	1	2	3	4	5	6	7	8	9	10	11	12	13	14									

BRISTOL HIPPODROME – FLY PLOT

SHOW:

DATE :

BAR	DISTANCE U/S OF SETTING LINE (m)	OBJECT	WEIGHT (kg)	NO OF C/Ws
		Green Bars S.W.L. = 650LBS / 295KG / 26 weights Red Bars S.W.L. = 1100LBS / 500KG / 44 weights		
1	0.187	House bar - Red border		
2	0.387	House bar - House tabs		
3	0.587	House bar - Hard proscenium header		
House hard tormentor legs dead-hung between bars 3 & 4				
4	0.807			
5	1.007	Underslung ladder beam		
6	1.317			
7	1.527			
8	1.717			
9	1.917			
10	2.217			
11	2.327			
12	2.527			
13	2.737			
14	2.937			
15	3.137			
Grid lattice truss				
16	3.647			
17	3.847			
18	4.057			
19	4.257			
20	4.457			
21	4.657			
22	4.867	Ladder beam		
23	5.072			
24	5.377			
25	5.577			
26	5.777			
27	5.987			
28	6.187			
29	6.397			
30	6.587			
31	6.797			
Grid lattice truss				
32	7.307			
33	7.507			
34	7.707			
35	7.907			
36	8.117			
37	8.317			
38	8.517			
39	8.727	Ladder beam		

BRISTOL HIPPODROME – FLY PLOT

SHOW:

DATE :

40	9.027			
41	9.237			
42	9.437			
43	9.637			
44	9.847			
45	10.047			
46	10.257			
47	10.457			
Grid lattice truss				
48	10.957			
49	11.157			
50	11.367			
51	11.567			
52	11.767			
53	11.977			
54	12.177			
55	12.377			
56	12.687			
57	12.887			
58	13.087			
59	13.287			
60	13.487			
61	13.687			
62	13.907			
63	14.107			
Grid lattice truss				
64	14.587			
65	14.817			

Notes

- All bars are 56mm gas barrel unless otherwise shown. The Hippodrome has a stock of 48mm bar and drop-clamps
- The setting line is marked on stage and is at the upstage edge of the iron safety curtain
- Most bars are at 200mm spacing, however there are larger spaces for the grid structural trusses, dividing the grid and counterweight sets into bays as shown. Tie bars in the centre of each bay result in a slightly larger bar spacing between the 2 central bars in each bay.
- Bars 1 - 5 do not have full flying height due to shortened cradle runs over doorway to stage. They all reach the grid but will not come fully into stage level. Bars 1 - 3 are reserved as house bars. Bar 4 is suitable for front-cloths etc.
- Bar 5 has a ladder beam underslung from the gas barrel to allow it to come in to stage. With full drifts the ladder beam has an out dead of 13.8m. With the drifts halved, it is 15.85m.
- Total weight available on the loading floor is approximately 6 tonnes

Bristol Hippodrome Weight Chart

Lbs	Weight	Kg
25	1	11.4
50	2	22.7
75	3	34.1
100	4	45.5
125	5	56.8
150	6	68.2
175	7	79.5
200	8	90.9
225	9	102.3
250	10	113.6
275	11	125
300	12	136.4
325	13	147.7
350	14	159.1
375	15	170.5
400	16	181.8
425	17	193.2
450	18	204.5
475	19	215.9
500	20	227.3
525	21	238.6
550	22	250
575	23	261.4
600	24	272.7
625	25	284.1
650	26	295.5
675	27	306.8
700	28	318.2
725	29	329.5
750	30	340.9
775	31	352.3
800	32	363.6
825	33	375
850	34	386.4
875	35	397.7
900	36	409.1
925	37	420.5
950	38	431.8
975	39	443.2
1000	40	454.5
1025	41	465.9
1050	42	477.3
1075	43	488.6
1100	44	500

Bristol Hippodrome – Counterweight system safe working loads

- **Green** sets (small cradle): max load per set = **295kg** (650lbs)
- **Red** sets (large cradle): max load per set = **500kg** (1100lbs)
- Standard weight = 11.5kg
- Maximum load imposed on any single line = **250kg**

Steels used are of 6mm galvanised 6x19 construction

There are 3 styles of bar used on the Hippodrome counterweight sets:

- Old gas barrel – 56mm diameter, 4mm wall thickness
- New gas barrel – 56mm diameter, 6mm wall thickness
- Ladder beam – 2 x 48mm diameter, 3mm wall thickness. SWLs are given for the ladder beam used alone, and also for the beam if it is braced to prevent twisting along its length. Loads may be placed on either chord of the ladder beams, and do not have to be at node points

Point loads above 100kg should not be applied to any bars by steel wire rope drifts alone without softening being used, or some other method such as hanging clamps or webbing straps being employed, to prevent local deformation / crushing of the bars at those points

Point loads should not be applied to bar overhangs beyond any bolted bar joints

Bar extensions should always be inserted at least 300mm, be taped in place, and used only to suspend soft masking, which should have at least 3 ties made off to the counterweight bar proper

The suspensions lines all employ a levelling clamp, terminating along the bar from the pick-up point. The spans are measured between suspension points where the lines meet the bar, not where they are terminated:

- Maximum span between 2 lines \approx 15'
- Maximum overhang beyond end line \approx 4'6"

SWLs (kg)

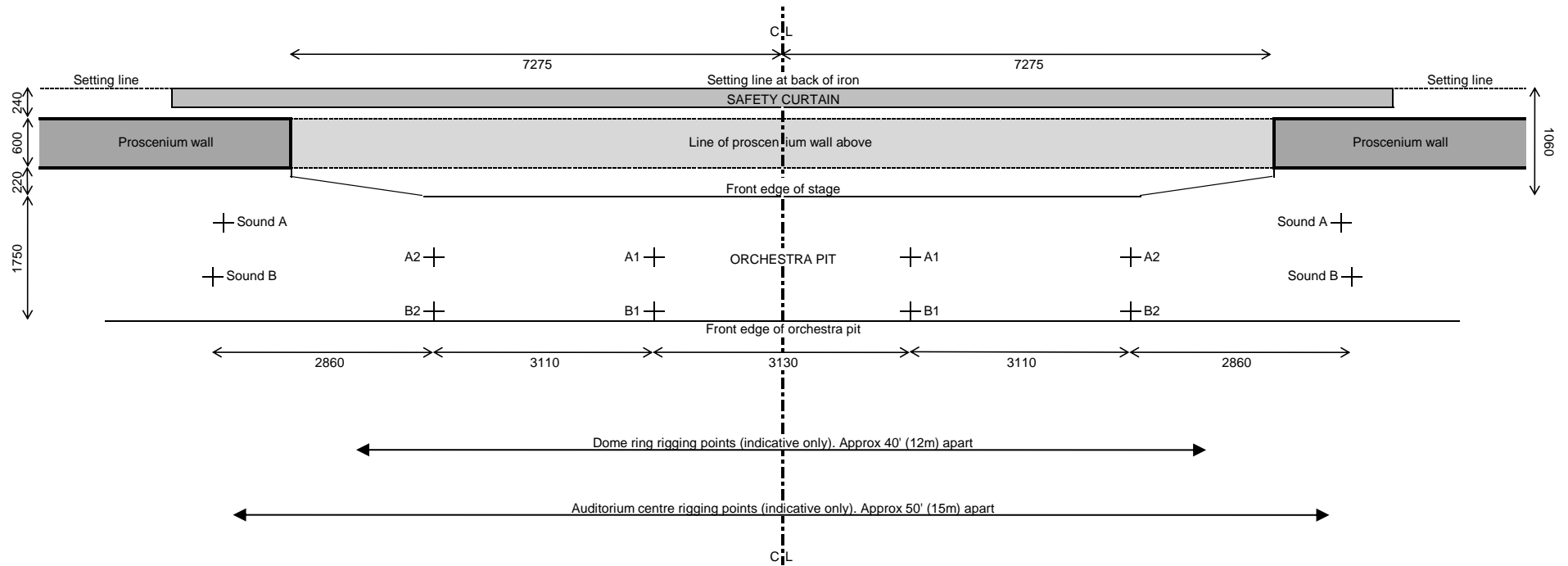
Loading configuration	Old gas barrel	New gas barrel	Ladder beam	Braced ladder beam
Point load below suspension line	250			
Point load in centre span between 2 lines	100	125	175	500
Point load 0.5m overhang beyond end line	250	250	250	
Point load 1m overhang beyond end line	100	150	200	
Maximum UDL on span between 2 lines	200	250	350	500
Max UDL on full overhang beyond end line	175	250	250	
<i>Maximum moment imposed on bar (Nm)</i>	<i>1200</i>	<i>1650</i>	<i>2000</i>	<i>14450</i>

Notes:

- Load cases may be superimposed to check maximum loadings are not exceeded
- For simple load cases, SWLs may safely be linearly scaled between index cases given above
- Maximum SWLs above are calculated on loadings which will not cause permanent plastic deformation of the fly bars, or lead to excessive deflections of the bars in use
- For non-standard load cases, calculation may be required to check the maximum bending moments imposed on the fly bars and the final row of the table used to check these are acceptable
- Safe working load calculations are held on file in the Technical Manager's office

Bristol Hippodrome - Front of House Rigging Points

Plan not to scale



All rigging points SWL = 1 tonne

All dimensions on plan in mm

Height of points above stalls row A (raised pit level):
 Truss points A & B: 16.05m = 52'8" (45'3" to ceiling and 7'5" above)
 Sound points A & B: 14.17m = 46'8" (42'6" to ceiling and 4'2" above)

Point locations (mm)

Point	From setting line	From front of stage	From centre line
Truss A1			1565
Truss A2	1860	800	4675
Truss B1			1565
Truss B2	2790	1730	4675
Sound A	1500	440	7500
Sound B	2055	995	7535

Please note that line arrays are normally flown from sound points B, with A being used for safety steels, to ensure that speakers fly clear of the proscenium ornamental plasterwork

Bristol Hippodrome – Stage Power Supplies

Updated March 2011

The Hippodrome stage has a wide variety of power supplies available, as shown below. If you are concerned that your show requirements may not be met by these supplies, please contact the Hippodrome Chief Electrician as soon as possible.

All backstage large power outlets are supplied from the rear-of-house incoming 800A 3 phase supply.

Lighting:

- 1 x 250A max Powerlock midstage left, supplied from MCCB with adjustable trip characteristics
- 1 x 200A max Powerlock midstage right, supplied from MCCB with adjustable trip characteristics

Sound:

- 1 x 125A 3P Ceeform midstage right. This has local 100mA RCD, and is fed with dedicated earth from main RoH panel-board. MCCB has adjustable trip characteristics, and will supply 100A max. Outlet is usually jumped down to 63A 1P (L3).

Rigging:

- 1 x 32A 3P Ceeform substage MSR. Usually extended by house cable to midstage right in wings.
- 1 x 32A 3P (3P&E) Ceeform upstage. This is a 4 pin outlet on facility panel, switched and phase reversed by controls on panel and pickle to direct control in-house chain hoist over trap to substage.

Spot box:

- 4 x 32A 1P Ceeform. Note that numbers 1 & 2 feed the in-house followspots, 3 & 4 are for extra spots.
- 1 x 32A 3P Ceeform

Other:

- 1 x 63A 3P Ceeform, upstage facility panel
- 1 x 63A 1P (L1) Ceeform, upstage facility panel
- 1 x 32A 1P (L1) Ceeform, upstage facility panel

Please note that the upstage facility panel has a supply and thus total maximum permissible current draw of 100A

- 1 x 125A 3P Ceeform, substage DSR (cable store)
- 2 x 63A 3P Ceeform, substage DSR (cable store)
- 1 x 16A 3P Ceeform, substage USL

Bristol Hippodrome – Lantern Stock

Updated March 2011

FoH stock

Please note that the following lanterns form the Hippodrome standard FoH lighting rig. If you would like to use any of these lanterns in alternative positions, please discuss this with the Chief Electrician prior to your arrival at the theatre.

- 18 x Source 4 750W, 15-30° Upper circle rear bar (BoD)
- 6 x Source 4 750W, 15-30° Dome
- 12 x Source 4 750W, 25-50° Box Booms
- 4 x Source 4 750W, 25-50° Slips
- 2 x Patt 743 1kW fresnels Tabwarmers

Overstage stock

The following lanterns are available for use onstage, and can be used in combination with the theatre's IWBs to provide a general overhead wash in 3 or 4 colours as required for your show.

- 32 x 1.2kW Selecon SF1200 fresnels with barn-doors
- 5 x 4 cell Thomas 1kW Cyc-lite flood battens
- 4 x 6 lamp par-bars, all lamped with 1kW CP62 medium flood

Followspots

- 2 x Lycian 1290 XLT professional followspots, with 2kW Xenon lamps

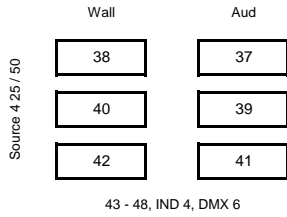
Other

The Hippodrome has a very small selection of older lamp stock, which may be available for use as backstage working light etc, only after discussion with the Chief Electrician.

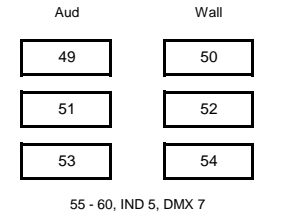
Bristol Hippodrome - standard FoH lighting rig

Box head SR (box S)
31 - 33, DMX 4

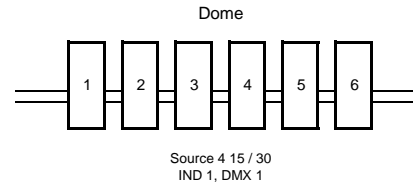
Box boom SR



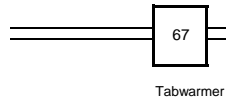
Box boom SL



Box head SL (box M)
34 - 36, DMX 5

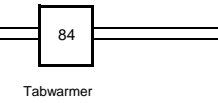


Slips SR
Source 4 25 / 50
253
254
255 - 258



Grand Circle front rail

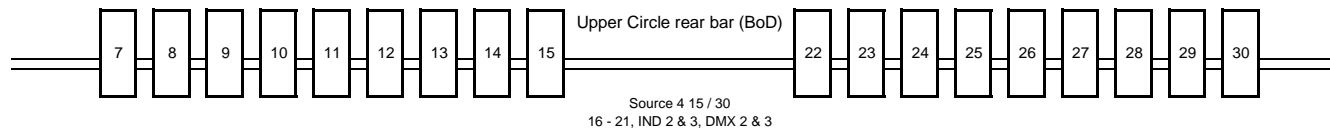
68 - 83, IND 7 & 8, DMX 9 & 10



Slips SL
Source 4 25 / 50
247
248
249 - 252

Upper Circle front 'auto bins'

61 - 66, IND 6, DMX 8



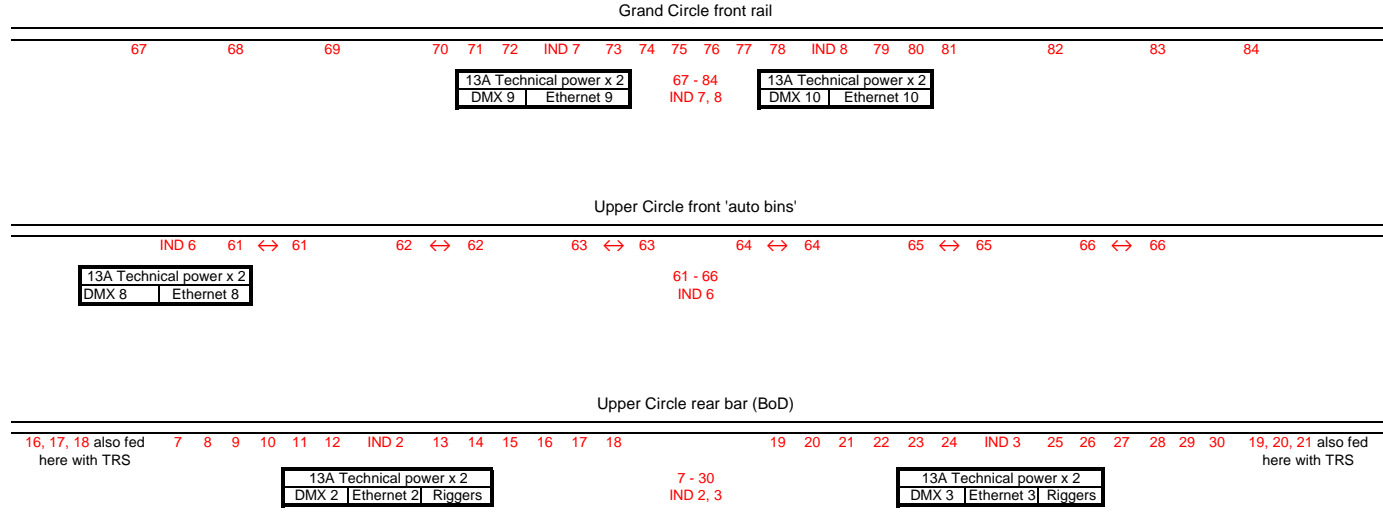
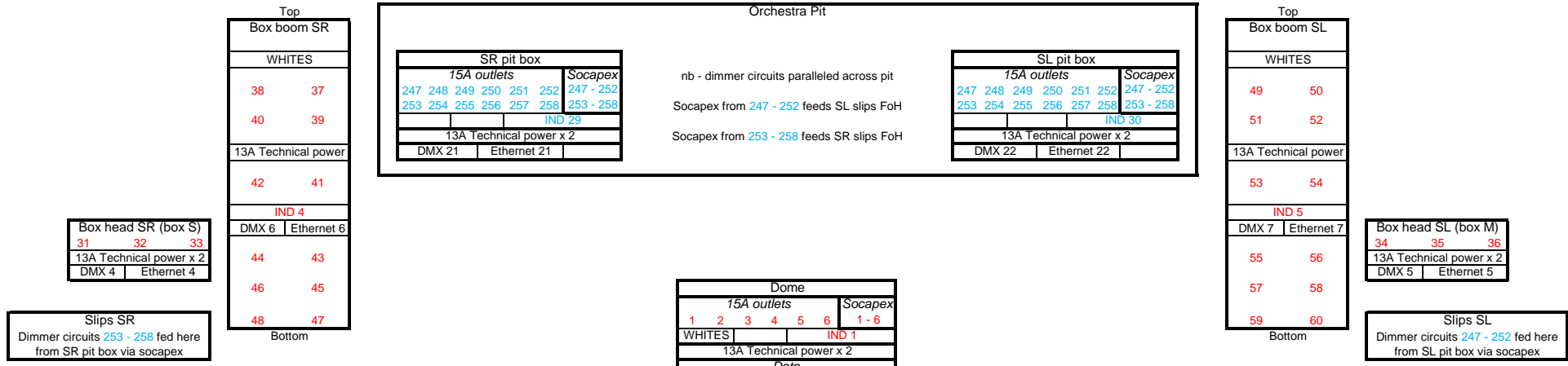
Bristol Hippodrome - RoH outlet boxes

SR Fly Floor		
SR flies box 6		
<i>15A outlets</i>		<i>Socapex</i>
161 162 163 164 165 166	161 - 166	
167 168 169 170 171 172	167 - 172	
173 174 175 176 177 178	173 - 178	
WHITES	BLUES	IND 14
13A Technical power x 2		
DMX 15	Ethernet 15	
SR flies box 5 - 5kW dimmers		
<i>Outlets on 32A & 4 x 15A</i>		
157	158	159 160
SR flies box 4		
<i>15A outlets</i>		<i>Socapex</i>
139 140 141 142 143 144	139 - 144	
145 146 147 148 149 150	145 - 150	
151 152 153 154 155 156	151 - 156	
WHITES	BLUES	IND 13
13A Technical power x 2		
DMX 14	Ethernet 14	
SR flies box 3		
<i>15A outlets</i>		<i>Socapex</i>
121 122 123 124 125 126	121 - 126	
127 128 129 130 131 132	127 - 132	
133 134 135 136 137 138	133 - 138	
WHITES	BLUES	IND 12
13A Technical power x 2		
DMX 13	Ethernet 13	
SR flies box 2		
<i>15A outlets</i>		<i>Socapex</i>
103 104 105 106 107 108	103 - 108	
109 110 111 112 113 114	109 - 114	
115 116 117 118 119 120	115 - 120	
WHITES	BLUES	IND 11
13A Technical power x 2		
DMX 12	Ethernet 12	
SR flies box 1		
<i>15A outlets</i>		<i>Socapex</i>
85 86 87 88 89 90	85 - 90	
91 92 93 94 95 96	91 - 96	
97 98 99 100 101 102	97 - 102	
WHITES	IND 9, 10	
13A Technical power x 2		
DMX 11	Ethernet 11	Riggers

Stage		
US stage box		
<i>15A outlets</i>		<i>Socapex</i>
219 220 221 222 223 224	219 - 224	
225 226 227 228 229 230	225 - 230	
BLUES	IND 21, 22, 23, 24	
13A Technical power x 6		
DMX 19	Ethernet 19	
US stage box - 5kW dimmers		
<i>Outlets on 32A & 4 x 15A</i>		
231	232	233 234
SR stage box		
<i>15A outlets</i>		<i>Socapex</i>
207 208 209 210 211 212	207 - 212	
213 214 215 216 217 218	213 - 218	
BLUES	IND 17, 18, 19, 20	
13A Technical power x 6		
DMX 18	Ethernet 18	Riggers
SL stage box		
<i>15A outlets</i>		<i>Socapex</i>
235 236 237 238 239 240	235 - 240	
241 242 243 244 245 246	241 - 246	
BLUES	IND 25, 26, 27, 28	
13A Technical power x 6		
DMX 20	Ethernet 20	Riggers

SL Fly Floor		
SL flies box 3 - 5kW dimmers		
<i>Outlets on 32A & 4 x 15A</i>		
203	204	205 206
SL flies box 2		
<i>15A outlets</i>		<i>Socapex</i>
191 192 193 194 195 196	191 - 196	
197 198 199 200 201 202	197 - 202	
WHITES	BLUES	IND 16
13A Technical power x 2		
DMX 17	Ethernet 17	
SL flies box 1		
<i>15A outlets</i>		<i>Socapex</i>
179 180 181 182 183 184	179 - 184	
185 186 187 188 189 190	185 - 190	
WHITES	IND 15	
13A technical power x 2		
DMX 16	Ethernet 16	Riggers

Bristol Hippodrome - FoH outlet boxes



Bristol Hippodrome - Dimmers and outlet boxes notes

- All dimmers and independent switch circuits are rated at 3kW, except the labelled 5kW dimmers
- All 3kW dimmers output on individual 15A BS546 outlets, and in groups of 6 on 19 pin socapex outlets except in FoH positions
- All independents output on a single 15A socket
- To obtain the DMX channel number for an independent circuit, add 300 to the number shown on the plans
- The 5kW dimmers output on a single 32A Ceeform (IEC60309) socket, and 4 x 15A sockets individually locally protected by 16A MCBs (C16)
- 13A (BS1363) technical power outlets are in the form of double unswitched socket outlets with local RCD protection, except on the box booms where they are single sockets. All are fed from the technical power distribution board off the lighting supply, located in the dimmer room.
- DMX points on outlet boxes are 5 pin XLR, fed to a patch bay (with 12 way DMX splitter) located in the dimmer room. From here 4 ways go to the rear circle control room, 3 of which can be extended to a rear stalls control position if required.
- Ethernet points on outlet boxes are ethercon connectors, fed to a patch bay located in the dimmer room. From here 4 ways go to the rear circle control room, 2 of which can be extended to a rear stalls control position if required.
- Sockets for temporary blue and white workers on backstage outlet boxes are provided on 15A outlets, and are switched by the working light switches located DSR
- Riggers points are 5 pin XLR for connection of a riggers remote for the Hippodrome Strand 520, and are all connected to the feed from the rear circle control room
- The orchestra pit dimmers are paralleled to duplicate outputs on the boxes each side of the pit. House socapex lines from these boxes can feed the FoH slips positions as shown on the plans
- Dimmers 16 - 21 on the Upper circle rear bar ('BoD') are not generally used in their output locations as units rigged there block line of sight from followspot box to stage. Hence house TRS runs from these to the ends of the bar, where extra units may easily be rigged.
- The Upper circle front 'auto bins' rigging position is not commonly used, as it required units to be inverted and stand on baseplates. There are 12 positions only available here, with the six dimmers each feeding 2 positions as shown on the plan.

Bristol Hippodrome - DMX and ethernet patches

DMX	Ethernet	Location
1	1	Dome
2	2	BoD house left
3	3	BoD house right
4	4	SR Box head (box S)
5	5	SL Box head (box M)
6	6	SR Box boom
7	7	SL Box boom
8	8	Auto bins (house left end)
9	9	Circle front (house left of centre)
10	10	Circle front (house right of centre)
11	11	SR flies box 1
12	12	SR flies box 2
13	13	SR flies box 3
14	14	SR flies box 4
15	15	SR flies box 6
16	16	SL flies box 1
17	17	SL flies box 2
18	18	SR stage box
19	19	US stage box
20	20	SL stage box
21	21	SR pit box
22	22	SI pit box
A	23	Rear circle control room
B	24	Rear circle control room
C	25	Rear circle control room
D	26	Rear circle control room