

# MERMAID ARTS CENTRE

Outline Technical Specifications as of 17<sup>th</sup> January 2018.

At Mermaid we are regularly upgrading our inventory. Please ensure you have a current version of this document.



**Note: Please check with the technical team before your get-in to make sure all your requirements are met. This specs list is not a guarantee of availability of equipment.**

## Auditorium

The intimate auditorium is an end-on proscenium theatre with 242 seats on a retractable rake comprising 11 rows. With the seating retracted an open hall is created which may be configured to suit other formats. Configurations other than end-on, however, require the hire of extra seating.

There is a red oak sprung floor throughout the auditorium which may not be painted or fixed into in any way. The stage comprises a removable black plywood deck @ 40mm above fixed floor. Stage floor and walls should not be painted any other colour than black. Screw fixings up to 30mm or staples only are permitted - NO Nails.



If using full stage depth there is NO BACKSTAGE CROSSOVER. Access from Stage Right only. If required, a crossover is normally created by hanging cloths on Bar #11 (see flying system).

An ORCHESTRA PIT with removable cover is sunk into the floor downstage of the pros. line. Use of the pit reduces stage depth by 1 metre.

## Critical Dimensions

|  |                                |
|--|--------------------------------|
| Total floor area (seating retracted):                  | 19,875 x 14,150mm              |
| Total width (wall to wall)                             | 14,150mm                       |
| Proscenium opening (removable flats)                   | 11,150 x 6,000mm               |
| Wings - SR & SL  | 1,500mm (Each side)            |
| Stage depth (Removable floor) DS of Pros. to back wall | 7,900mm                        |
| “ With Stage extension (Orch. pit must be closed)      | 8,900mm (NORMAL CONFIGURATION) |
| Height of Stage floor                                  | 40mm                           |
| Height of grid (RSJ's throughout)                      | 7,070mm                        |
| Max. Height of winch bars (Approx.)                    | 6,200mm (Lx Bars 6,000mm)      |

## Orchestra Pit

|                        |   |
|------------------------|---|
| Dimensions of opening: | 8,250 x 2,360mm                             |
| Internal dimensions:   | 7,950 x 2,060mm @ 1,500mm below floor level |
| Working area:          | 7,150 x 2,060mm with access stairs.         |



**NOTE:** The DS edge of the stage floor overlaps the pit. The pit covers are extremely heavy. Opening and closing of the pit is both time & labour intensive, requiring a clear forestage, a minimum of 4 strong crew and approximately 90 minutes for each operation. Companies using the pit are normally required to close it as part of their get-out. For Health & Safety reasons Mermaid reserves the right to insist on using house crew at the visiting companies' expense (€120.- per open or close).

## Access

12m (40 ft) trailers can now be accommodated by arrangement.

Load-in at stage level @ 1.2 m above street level. 6 metre push to upstage right. Trucks up to 6m. (20') may reverse up to dock, longer vehicles must park parallel to building. A tail-lift and/or ramp is recommended.



**Mermaid is located at the back of a very busy public offices complex. Please let us know your requirements so space can be reserved. Long vehicles may need to arrive early morning.**

|                         |   |
|-------------------------|---|
| Load-in doors           | 3m (H) x 2.25m (W)  |
| Scene Dock              | 5.8m (L) - to stage x 5.0m (W) x 5.5m (H) VERY LIMITED STORAGE SPACE! |
| Dock door (onto stage). | 5.0m (H) x 2.35 m (W)   |

Scene dock & dressing rooms located Stage Right. No access SL.

## Flying System

Pile-wind motorised winch system - Total 14 no. bars for hanging scenery, lighting etc. Bars may only move in one direction at a time @ 4 metres / min., so this is NOT a flying system for quick scene changes.

|                  |   |
|------------------|---|
| HEIGHT TO GRID   | 7070mm  |
| S.W.L. (per bar) | 500kg. Evenly distributed.  |
| FRONT OF HOUSE:  | 2 no. Bars (12500 x 48mm)<br>Bar #13 @ 5m downstage of pros. (FOH Lx bar)<br>Bar #14 @ 9m downstage of pros.<br>Max. trim @ 5.9m. |
| ONSTAGE:         | 12 no. Bars (12500 x 48mm)<br>Max. trim @ 6.3m.   |

| DETAIL: | <u>BAR</u> | <u>POSITION</u>        | <u>MOST COMMON USE – (May Vary)</u>            |
|---------|------------|------------------------|--|
|         | Bar #12    | @ 400mm from u.s. wall | Cyc Cloth or Full Blacks                       |
|         | Bar #11    | @ 980mm “              | Legs / Cyc Cloth or Full Blacks with Crossover |
|         | Bar #10    | @ 1540mm “             | Lx 4   |
|         | Bar #9     | @ 2150mm “             | Masking Border / Lx 4 with Cyc on Bar 11       |
|         | Bar #8     | @ 2745mm “             | Split Black Tabs or Legs                       |
|         | Bar #7     | @ 3325mm “             | Lx 3   |
|         | Bar #6     | @ 3915mm “             | Masking Border                                 |
|         | Bar #5     | @ 4485mm “             | Masking Legs                                   |
|         | Bar #4     | @ 5065mm “             | Lx 2   |
|         | Bar #3     | @ 5645mm “             | Masking Border                                 |
|         | Bar #2     | @ 6235mm “             | Masking Legs                                   |
|         | Bar #1     | @ 6815mm “             | Lx 1   |

|                      |  |
|----------------------|--|
| <b>Advance Truss</b> | 12m x 30.5cm square truss @ 2m DS of Pros. Flown on Lodestar chain hoists.<br>Max. trim @ 5.9m |
| S.W.L.               | 350kg Evenly distributed.  |

## Stage Equipment

### Drapes

|       |  |                  |
|-------|--|------------------|
| 1 no. | Pair House Tabs (Blue Velure) @ 340mm US of proscenium. Manually operated from DSR corner. |                  |
| 1 no. | House Border (Blue Velure)   | 14m x 1m         |
| 2 no. | Borders (Black Wool Serge)   | 12.5m x 1m       |
| 1 no. | Border (BWS)   | 12.5m x 2m       |
| 1 no. | PAIR Black Travellers (BWS) on moveable 12.5m tab-track                                    | 6.6m x 6m (each) |
| 2 no. | Drapes (BWS)   | 6m x 6m          |
| 6 no. | Masking legs (BWS) on swivel bars  | 2m x 6m          |
| 2 no. | Masking legs (BWS) on swivel bars  | 1.5m x 6m        |
| 1 no. | White filled Cyclorama cloth   | 12m x 6m         |

### Ancillary Stage Equipment

|        |  |
|--------|--|
| 11 no. | Stage weights                            |
| 12 no. | Stage braces (2m – 4m)                   |
| 1 no.  | Zarges (12 rung) 3-way ladder            |
| 1 no.  | 3.6m (12') A-frame ladder                |
| 1 no.  | 2.4m (8') A-frame ladder                 |
| 2 no.  | Step-ladders @ 0.8m & 2.0m               |
| 1 no.  | Tallescope (Max. Platform Height @ 5.9m) |
| 1 no.  | 7.8m (26') extension ladder              |
| 2 no.  | Trestle tables (6' x 2')                 |
| 4 no.  | Small Desks                              |

**Stage Lighting  
CONTROL**

ETC Ion with 40 sub fader wing + remote tablet  
ETC - Express 125 console (max. 125 channels) + riggers remote.  
**Channels 120-125 reserved for house lights!**

**DMX**

2 x 10 way active DMX splitter (in control room) patchable to 18 outputs throughout auditorium.

**HOUSE LIGHTS**

six channels on lx desk, cf. above; independent dimmer  
alternatively, an analogue controller is available

**DIMMING**

93 CHANNELS @ 16 amp (3kw)

1 – 69

69 no. Robert Juliat "Tivoli". In dimmer room.

73 – 96

24 (4 no. 6 channel – 16A cee-form) Robert Juliat "Digipack" portable dimmer packs.

**PATCH**

Total 174 circuits throughout auditorium terminating at patch panel in dimmer room. These may be patched to dimmers 1 – 72 only. NOTE; only 1 patch output per dimmer channel.

84 circuits permanently distributed to 16A cee-form sockets on pre-wired bars. (See below)  
30 circuits via socapex at high level (6 onstage & 24 FOH)  
48 circuits at low level onstage (24 x socapex & 24 x 16A cee-form).  
12 circuits at low level in auditorium available if seating rig is retracted.

**Pre-wired bars layout:**

|               |          |          |
|---------------|----------|----------|
| Lx 4          | Circuits | 97 - 108 |
| Lx 3          | Circuits | 85 - 96  |
| Lx 2          | Circuits | 73 - 84  |
| Lx 1          | Circuits | 61 - 72  |
| FOH Booms     | Circuits | 49 - 60  |
| Advance Truss | Circuits | 37 - 48  |
| FOH           | Circuits | 25 - 36  |

**SIDE LIGHTING/  
BRAILING BARS**

3 no. 48mm horizontal bars on both side-stage walls @ 2.25m, 4.0m & 6.0m above floor.

**FOH Booms**

2 no. 4 metre long located 2.5m DS of pros. Bottom at 3.0m above floor level.

**LANTERNS**

17 no. Selecon "Acclaim" 18-34° 600w Axial profile spots  
8 no. ETC Source Four 15-30° 750w profile spots  
4 no. ETC Source Four 25-50° 750w profile spots  
16 no. Robert Juliat 310H - 1200w fresnel spots  
12 no. Strand "Cantata" 1200w fresnel spots  
24 no. Thomas Par-64 1000w cans  
8 no. Selecon "Aurora" 1000w cyc floods  
7 no. Selecon 650W fresnel spots

**CABLING**

2 no. 10m Socapex c/w plug & socket ends (16A)  
Ample 16A extension cables and splitters for most rigs.  
Small assortment of 16-15 adapters etc.

**GOBOS**

10 no. M-size gobo holders for Acclaims  
6 no. B-size gobo holders for Source Fours (Inc. 2 only to take Glass gobos)

**RIGGING BITS**

12 no. boom arms  
4 no. 3m x 48mm scaffold tubes  
2 no. 6m x 48mm scaffold tubes  
12 no. Spanset slings & shackles (assorted sizes)  
Assorted short scaf. bars & couplers

**AUX. POWER**

2 no. 3-phase 125amp supplies. (1 x cee-form socket & 1 x tails).  
Also several 3-phase 32amp cee-forms throughout auditorium – Note; Fused at 3 x 20A.

**CONSUMABLES**

**Please ensure you have sufficient gel, PVC & Gaffa tape etc. for your requirements. WE DO NOT STOCK COLOUR FILTER, BLACKTACK AND OTHER CONSUMABLES.**

**Sound**

|                |        |   |
|----------------|--------|---|
| MIX-POSITIONS  | 1      | Normally from Control Room for theatre / playback.  |
|                | 2      | From in the auditorium (Lose 8 seats)   |
| CONSOLE        |        | <b>Midas Venice F32</b> 24 mono inputs – 4 stereo inputs - 4mono groups/2 stereo groups –<br>6 x auxiliary – inbuilt firewire A/D/A convertor<br><b>Allen &amp; Heath GL 3300</b> 24 - 8 - 2 (8 x Auxiliary/Groups) |
| PATCH          |        | 24 no. XLR sends, 8 no. returns onstage. (12 + 4 DSR , 12 + 4 DSL)<br><br>18 no. loudspeaker outlets (Speakon & XLR) throughout auditorium, patched from control room. Diagram available on request.                |
| LOUDSPEAKERS   | 4 no.  | <b>D&amp;B C6 FoH</b> (12" LF Driver + 90 x 50 deg. Horn) Flown @ 50cm DS of Pros. (2   |
|                | Left / | 2 Right   |
|                | 2 no.  | <b>D&amp;B C7 foH</b> Sub-Bass cabinets   |
| (MARTIN AUDIO) | 4 no.  | EM 76 (12" + 80 x 40 deg. horn)   |
|                | 2 no.  | AQ 8 (8" + 90 x 50 deg. Horn)   |
|                | 2 no.  | EM 201 Sub-Bass cabinets  |
|                | 4 no.  | EM 26 (8" + horn) Fills / monitors  |
| AMPLIFIERS     | 2 no.  | <b>D&amp;B E-PAC</b> (full-range or mid/hi)   |
|                | 1 no.  | <b>D&amp;B D6</b> (subs)  |
|                | 4 no.  | Martin Audio 1.6 (2 x Auxiliary)  |
| OUTBOARD       | 3no.   | <b>DBX 231</b> – Graphic EQ   |
|                | 3 no.  | <b>DBX 266XL</b> – 2 Channel Compressor / Gates   |
|                | 1 no.  | Symetrix 553E - Graphic Eq. (31-band / 2 chan. - (Spare)  |
|                | 2 no.  | <b>DBX 266XL</b> – 2 Channel Compressor / Gates   |
|                | 1 no.  | Yamaha SPX 990 - Digital effects processor  |
|                | 2 no.  | Tascam MD 301 - Minidisc player / recorder  |
| MICS. ETC.     | 6 no.  | Shure SM58 – Dynamic Vocal mics   |
|                | 4 no.  | Shure SM57 - Dynamic Instrument mics  |
|                | 2 no.  | Crown CM 700 - cardioid condenser mics  |
|                | 1 no.  | AKG D-1000 - condenser mic. (Not available if Show Relay is required.)  |
|                | 4 no.  | Behringer DI 100 - Active DI boxes  |
|                | 3 no.  | BSS AR-133 Active DI boxes  |
| CABLING        | 1 no.  | 12m. 12-way sub-multi & stage box (XLR) <i>Run to Foh Position</i>  |
|                | 1 no.  | 20m. 4-way sub-multi (XLR) <i>Run to Foh Position</i>   |
|                | 10 no. | 10m Mic. Leads  |
|                | 4 no.  | 8m Mic. Leads   |
|                | 10 no. | 5m Mic. Leads   |
|                | 4 no.  | 2m Mic. leads (includes comms. - see below)   |
|                | 8 no.  | Speakon speaker cables (8m).  |
|                | 4 no.  | Speakon speaker cables (5m).  |
|                | 8 no.  | Speakon speaker cables (1m).  |
|                | 6 no.  | Speakon back to back connectors   |
| STANDS         | 2 no.  | Speaker stands  |
|                | 8 no.  | Boom microphone stands (Tall)   |
|                | 4 no.  | Boom microphone stands (Short)  |

CONSUMABLES Please ensure you have sufficient PVC, Gaffa tape and gel for your requirements.

### Communications

2 no. Metro Audio Master stations (1 normally used for show-relay)  
4 no. Metro Audio headsets & belt packs

The centre is wired for 2 separate channels of headset communication with outlets throughout the stage & backstage area.

### Show Relay

Microphone on proscenium relayed to outlets throughout building. 5 x relay speakers available. Currently 1 in each dressing room, 1 in Green Room and 1 in control room.

### CCTV

Camera relays activity on stage to tech office.

### Dressing Rooms

Dressing Room #1 located Stage right can accommodate 7-8 people. Includes mirror-lights and shower room.

Dressing Room #2 located upstairs adjacent to the Multi-Use Space (see below) can accommodate 6-7 people. Also includes mirror-lights, shower & wc facilities.

The Multi-Use Space (see below) is large enough to accommodate several people, and may be used as a chorus room. There are no mirrors in this room.

### Wardrobe

4 no. 1.8m Costume rails

Washing machine, tumble dryer, iron & (cheap) ironing board available in Green Room.

### Green Room

The Green Room is comfortable for 8 - 10 people. Includes microwave, kettle and refrigerator.

### Lift

A disabled hoist in the foyer may be used to bring goods upstairs. Max. load; 400kg

Internal dimensions: 1.48m (D) x 1.05m (W) x 2.6m (H). Door opening: 0.9m x 2.0m

### Multi-Use Space

A second room on the first floor is available for wardrobe, workshops, meetings, rehearsals, recording etc. 30 chairs available. Also 2 paint sinks and shower & wc facilities. Please advise on your requirements so we can reserve this room for you.

Dimensions: 9.1m (L) x 4.75m (W) x 3.0m (H)

### 35mm Cinema Installation

The screen is located on a motorised drum directly behind the proscenium and rolls into place. The projector and audio rack are located in the control room.

Screen dimensions; 8.8 x 3.8m

Projector (35mm only); Cinemeccanica "Victoria 5" with ZX4000H lamp housing (2.5kw Xenon)

Picture formats supported; Cinemascope / Widescreen 1.85 / Widescreen 1.66 / Academy

Audio formats (analog only); Dolby A / Dolby SR / Mono

Loudspeakers; Krix Audio - Left / Centre / Right / + 10 no. surround speakers (5 left / 5 right)

### Audio-Visual

1 no. Sharp PG-C45X Video projector (2500 Ansi-lumens). **NOT AVAILABLE UNTIL FURTHER NOTICE.**

1 no. Pioneer DV-360-S DVD player

### Crew



Mermaid normally provides 1 house technician for up to 8 hours to assist with get-in, and 1 technician for the get-out. Additional technical cover will be charged for. We do not provide sound

engineers, lighting operators or stage management for the running of shows. A member of our technical staff is however on standby at all times.

Please advise if you wish us to engage lighting riggers/operators, sound technicians or any stage crew on your behalf.

**Contact**

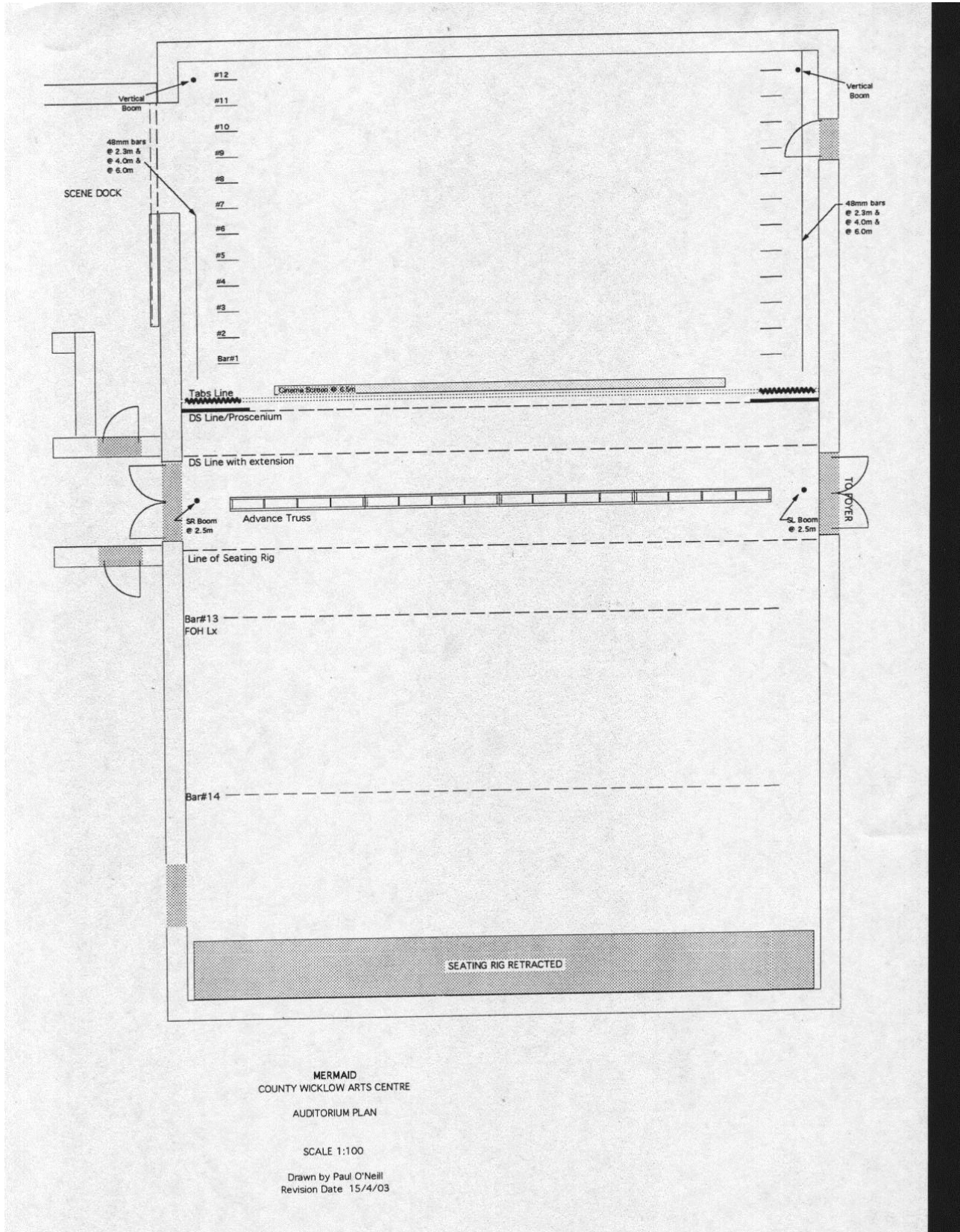
Eoin Fegan

Technical Manager

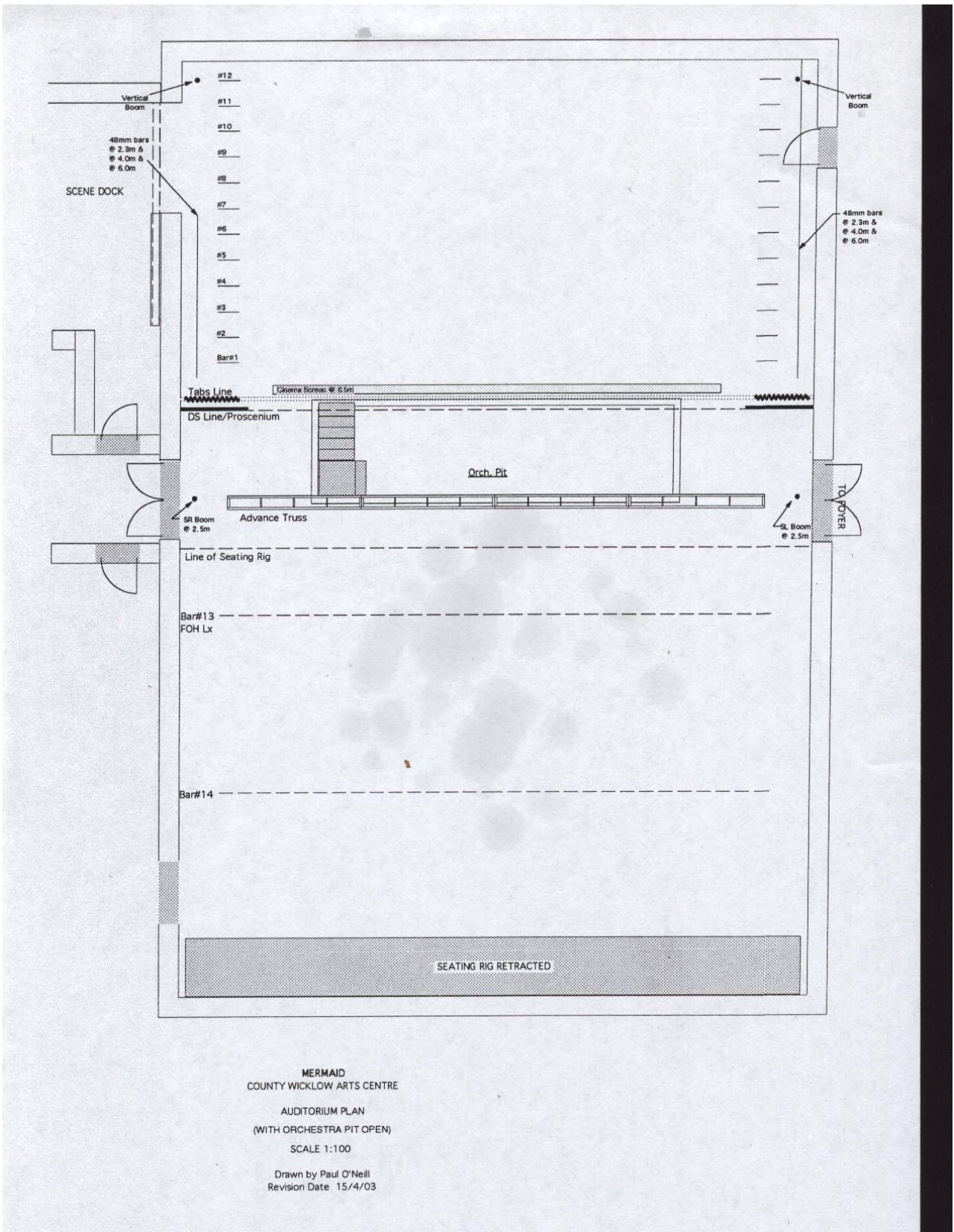
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AUDITORIUM PLAN IN NORMAL CONFIGURATION  
SCANNED IMAGE FOR GUIDE ONLY  
DO NOT SCALE



AUDITORIUM PLAN WITH ORCHESTRA PIT OPEN  
 SCANNED IMAGE FOR GUIDE ONLY  
 DO NOT SCALE