

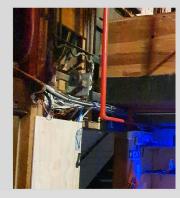
#### Current Condition of the Stagehouse – Health and Safety

#### Timber Structure (Roof and walls)

- 34% of NBS "earthquake risk category" at IL3
- Structural loading capacity is limited and unknown.
- Structure to suit hemp handline rigging system Cannot support counterweight flying system.
- Stage floor loadings unknown.

#### · Fire

- Egress compromises auditorium / stage house
- Timber linings
- Unprotected wiring
- Stage drapes require re-fire treating
- Smoke stop curtain not present.











#### · Temporary Scaffold Structure

- Impacts on access and ability to work safely.
- Impacts on available stage space
- Access to hanging lights/drapes/AV requires EWP and working at heights – Also impacts on time, resource and operational cost for venue.

#### · Remaining Rigging – (Replacement / upgrade)

- House curtain, pelmet together with rigging requires replacement.
- Sound system suspension and rigging requires upgrading.
- FOH moving light bar suspension and rigging requires upgrading.
- Safe access required to/from FOH lighting position.

#### Current Condition of the Stagehouse – Design

#### · Configuration

- Wing space minimal (masking and access) limiting
- · Fly floor clearance limiting
- Drift (height flown elements can be lifted is below standard)
- No Back of House to Front of house connection
- Planning conflicts

#### · Theatre Systems

- Existing theatre systems infrastructure limited nor provides demanded level of amenity.
- Existing theatre systems equipment at end of life.
- Stage Managers control panel limited

#### · Acoustics

- No linings allow direct external sound
- Dressing Rooms open on to stage
- Stage access doors have no seals
- No basement / Stage acoustic separation

#### Building Services

- Inadequate heating (gas)
- No cooling / ventilation system
- Poor working light levels and limited centralized control.





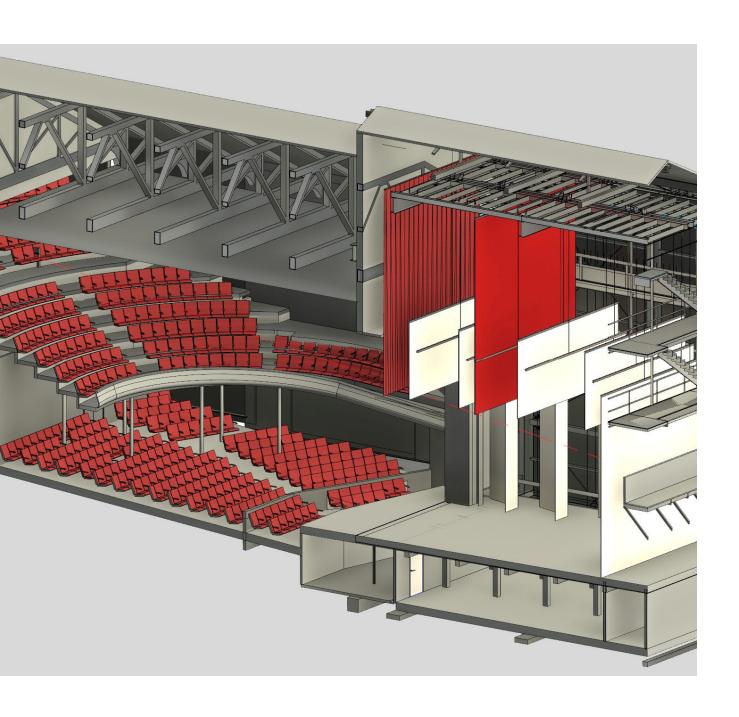






From left to right: Dressing rooms open direct on to stage / Stage wing space (both prompt & opposite prompt) / Comms / Stage Managers position





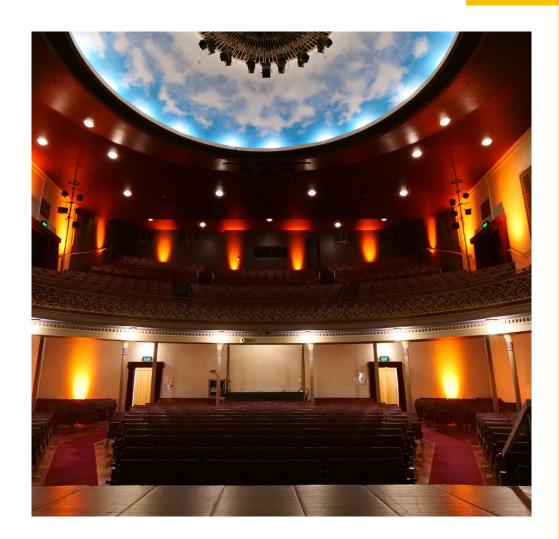
# What is a flying system & stage house?

- RWOH is a lyric theatre –
  performance is viewed through a
  proscenium arch.
- Behind the arch is the stagehouse with its fly tower - the engine room of the productions.
- The arch conceals the rigging system within the fly tower.
- The rigging supports the curtains, stage drapes that mask the lighting, scenic elements that when 'flown' create the 'stage magic'.
- Flying requires a fly tower above the stage.

### Upgrade Options – General

#### All Options address:

- Purchase of temporary scaffold structure to mitigate ongoing operational cost.
- Health & Safety Issues
- Replacement and upgrade of rigging and support of the moving light bar FOH. (except Option 1 – status quo)
- Replacement and upgrade of the rigging and support of the suspended speakers adjacent to the proscenium arch. (except Option 1 – status quo)
- Safe access to the four FOH lighting positions.
- Ability to isolate the smoke detection system to enable the use of pyrotechnics, haze, and smoke as part of a performance.
- Upgrades working lights to stagehouse.
- Addresses asbestos cement sheet to rear of proscenium arch.
- Reapplication of fire protection treatment to stage drapes to ensure flame retardancy compliance where curtain is not replaced.
- · Replaces smoke stop curtain.



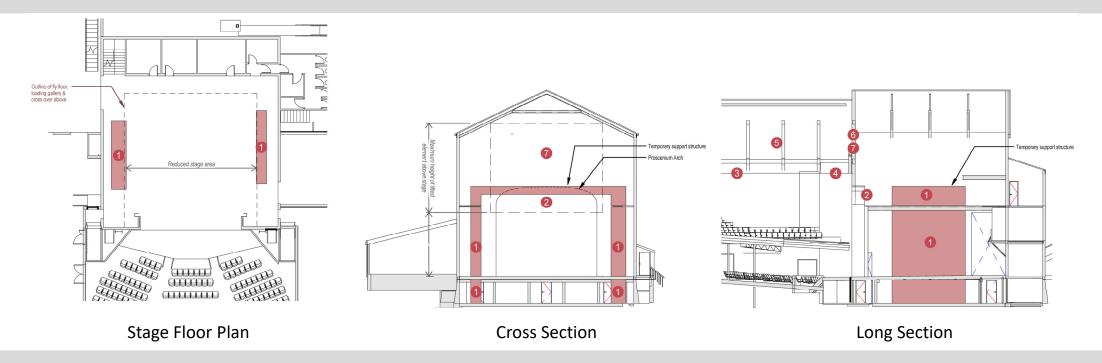
## Upgrade Option One

#### This options retains the current situation:

- This option retains the existing scaffold structure
- Completes work on health and safety issues identified.
- The venue will not provide the level of facility required by promoters, national companies and some local productions.
- Lack of flying system will limit types of shows that can come to Whanganui
- Not a viable option for a heritage lyric theatre looking to attract productions into Whanganui.



#### Option 1 – Retaining the Status Quo



- Illustrates extent of scaffold/ truss structure.
- 2. Replacement of the house curtain, house curtain pelmet rigging and installation of smoke stop curtain.
- 3. Replacement and upgrade of rigging and support of the moving light bar FOH.
- 4. Replacement and upgrade of the rigging and support of the suspended speakers adjacent to the proscenium arch.
- 5. Providing safe access to the four FOH lighting positions.

- 6. Removal or encapsulation of what appears to be asbestos cement sheet on the proscenium arch wall between the stagehouse and auditorium ceiling space.
- 7. Addressing the compliance of the access door between the stagehouse and auditorium ceiling space to achieve smoke control.



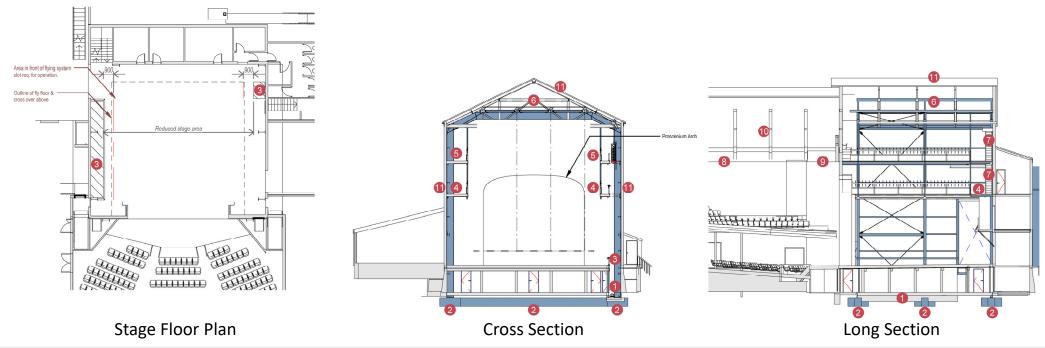


### Upgrade Option Two

## Allows for a new counterweight flying system to be installed within current building envelope.

- Delivers a counterweight theatrical flying system with improved functionality of the original fly tower is returned with greater load carrying capacity and ease of operation and safety.
- Retains the existing stagehouse while requiring new structure to support a counterweight flying system.
- The new flying system does impact on the available functional area of the stage and will require at least two people to operate.
- Does not provide a comparative level of amenity in comparison to similarly refurbished theatres from around New Zealand.
- · Batten drift and sightlines remain an issue.
- Theatre systems reinstated, not replaced and upgraded.
- Construction within the existing building envelope raises the possibility of risk.

#### Option 2 - New counterweight flying system Installed within the existing building envelope



- 1. Creation of trough for flying system idler pulleys to be housed and provide the required travel distance for the counterweight cradles.
- New foundation pads & tie beams below the existing basement slab level for new structure to support Flying system
- 3. Line sets on Prompt & Opposite Prompt (OP) sides of the stage
- 4. Replacement of the existing fly floors on both Prompt and OP will need to be made to incorporate the theatrical flying system and support the load of stored counterweights.
- 5. New loading gallery is required above the fly floors on both Prompt and OP. Linked with a crossover

- 6. New walk-on grid structure that is wider and provides the ability to fit the grid blocks onto.
- 7. New staircase fly floor, loading gallery and the grid is to be installed.
- 8. Upgrade of rigging and support of the moving light bar FOH.
- 9. Upgrade of the rigging and support of the suspended speakers adjacent to the proscenium arch.
- 10. Providing safe access to the four FOH lighting positions.
- 11. Provision of vapour barriers, insulation, and wall linings to the stagehouse walls and roof.

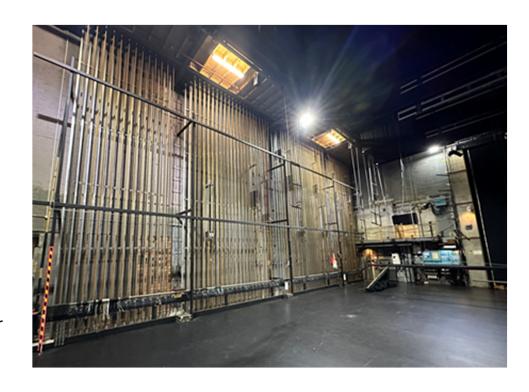


Royal Whanganui Opera House

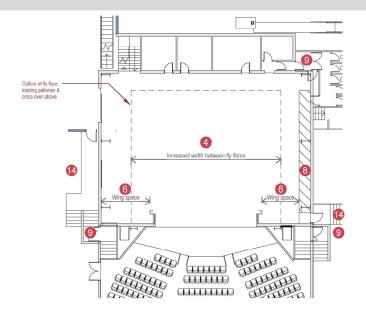
### Upgrade Option Three

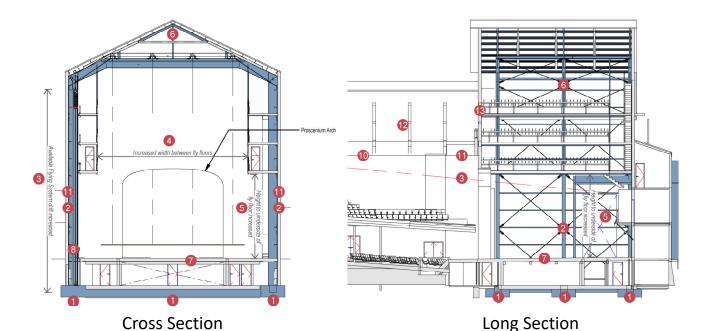
Allows for a new stage house and flying system

- Option 3 delivers a new larger stagehouse that enables current spatial constraints to be addressed.
- Counterweight theatrical flying system with improved sightlines from the gallery due to the increased stagehouse height and available drift.
- Wing space and clearance between fly floors increased addressing the shortcomings of Options 1 & 2.
- Theatre Systems replaced and expanded meeting benchmark requirements. Electrical Services to the stagehouse upgraded and replaced.
- Build simplified; Reducing working within existing foundations and envelope
- The level of facility and amenity increased to attract larger users
- New theatre systems infrastructure



### Option 3 – New Stagehouse and Flying System





#### Stage Floor Plan

- 1. New foundations the existing slab used as a dry slab for waterproofing.
- New stagehouse structure minimises dead spots and enables better coverage of the flying system with the stagehouse.
- Available Flying System drift increased, enhances sightlines.
- Width between fly floors increased.
- 5. Height between stage and underside of fly floor increased.
- 6. Available wing space increased.
- 7. Flat floor provided in lieu of raked (including trappable portion of floor).

- 8. Flying system operation to one side of the stage.
- 9. Fire Egress Compliance from stagehouse addressed.
- 10. Replacement and upgrade of rigging and support of the moving light bar FOH.
- 11. Replacement and upgrade of the rigging and support of the suspended speakers adjacent to the proscenium arch.
- 12. Safe access to the four FOH lighting positions.
- 13. Removal or encapsulation of what appears to be asbestos cement sheet, on the proscenium arch wall between the stagehouse and auditorium ceiling space.
- 14. Addressing accessibility and accessible facilities to the stagehouse.





### Upgrade Option Four

This option covers elements from back and front of house:

- Includes all items in option three.
- Heating and cooling systems will be installed.
- Addresses scene dock, green room and storage issues.
- Orchestra Pit resolves H&S issues and configuration
- Building wide issues accessibility, fire egress/passive fire, sustainability
- Dressing rooms strengthen and upgrade
- Auditorium improve seismic level, noise ingress, lighting and seating
- Front of House amenities, hospitality areas, merchandise, access and ticketing.